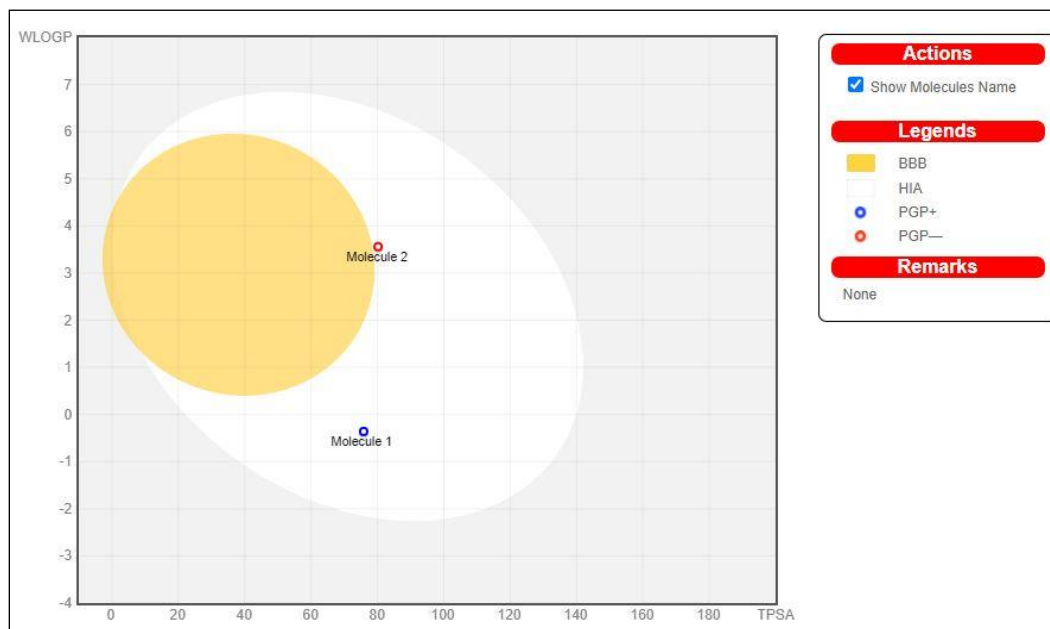
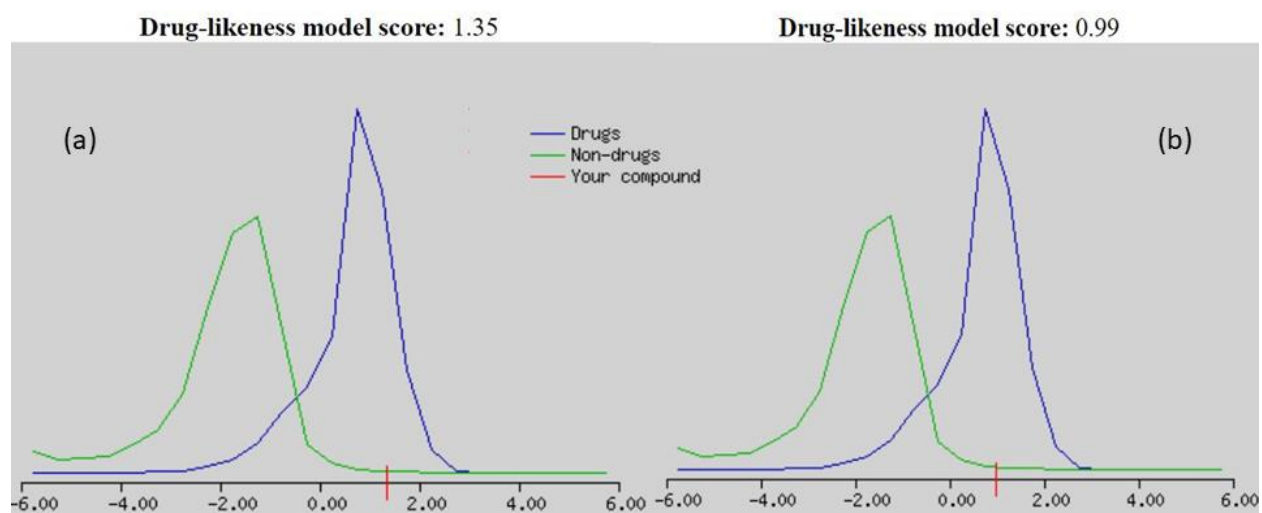


## Discovery of Potential Antiviral Compounds against Hendra Virus by Targeting Its Receptor–Binding Protein (G) Using Computational Approaches

Faisal Ahmad <sup>1,†</sup>, Aqel Albutti <sup>2,\*,†</sup>, Muhammad Hamza Tariq <sup>3,†</sup>, Ghufuranud Din <sup>4</sup>, Muhammad Tahir ul Qamar <sup>5</sup> and Sajjad Ahmad <sup>6,\*</sup>



**Figure S1.** BOILED–Egg plot of top two compounds, having best binding capability to G Glycoprotein of Hendra Virus, where molecule 1 and 2 codes for Top 1 and Top 2 compound in Table 1 respectively.



**Figure S2.** Comparison of drug-like and non-drug-like properties of top 1 (a) and top 2 (b) drug candidates.

**Table S1.** Different parameters of ADMET properties upon which ADMETsar evaluates pharmacokinetics properties of a compound. Normal properties are not highlighted while those which are deviating from the normal range are highlighted red.

Models			Ideal Case	Top 1	Top2
Absorption					
Blood–Brain Barrier			–ive	–ive	–ive
Human Intestinal Absorption			+ive	+ive	+ive
Human Oral Bioavailability			+ive	+ive	+ive
Caco-2 Permeability			+ive	+ive	+ive
P-glycoprotein substrate			–ive	–ive	–ive
Metabolism					
Renal	Organic	Cation	Non-Inhibitor	Non-Inhibitor	Non-Inhibitor
Transporter					
CYP450 2C9 Substrate			+ive	–ive	+ive
CYP450 2D6 Substrate			+ive	+ive	+ive
CYP450 3A4 Substrate			+ive	+ive	+ive
CYP450 1A2 Inhibitor			–ive	–ive	–ive
CYP450 2C9 Inhibitor			–ive	–ive	+ive

CYP450 2D6 Inhibitor	-ive	+ive	-ive
CYP450 2C19 Inhibitor	-ive	-ive	-ive
CYP450 3A4 Inhibitor	-ive	-ive	-ive
CYP Inhibitor Promiscuity	-ive	-ive	-ive
Toxicity			
AMES Toxicity	-ive	-ive	-ive
Carcinogens	-ive	-ive	-ive
Human Ether-a-go-go-Related Gene Inhibition	-ive	-ive	-ive
AMES mutagenesis	-ive	-ive	-ive
Eye Irritation	-ive	-ive	-ive
Eye Corrosion	-ive	-ive	+ive
hepatotoxicity	-ive	-ive	-ive
Estrogen receptor binding	-ive	-ive	-ive
Androgen receptor binding	-ive	-ive	-ive
Thyroid receptor binding	-ive	+ive	-ive
Glucocorticoid receptor binding	-ive	-ive	+ive
Aromatase binding	-ive	+ive	+ive
Rat Acute Toxicity (mol/kg)	-ive	-ive	-ive
Total Violations	00	04	04

## Top1-coordinates

HEADER CSD ENTRY

CRYST1 1.0000 1.0000 1.0000 90.00 90.00 90.00

SCALE1 1.000000 0.000000 0.000000 0.000000

SCALE2 0.000000 1.000000 0.000000 0.000000

SCALE3 0.000000 0.000000 1.000000 0.000000

ATOM 1 N ILE A 1 32.653 -16.268 -1.319 1.00 0.00 N

ATOM	2	CA	ILE A	1	32.633	-15.941	-2.763	1.00	0.00	C
ATOM	3	C	ILE A	1	32.837	-14.441	-2.909	1.00	0.00	C
ATOM	4	O	ILE A	1	32.290	-13.705	-2.093	1.00	0.00	O
ATOM	5	CB	ILE A	1	31.347	-16.438	-3.468	1.00	0.00	C
ATOM	6	CG1	ILE A	1	31.341	-16.009	-4.953	1.00	0.00	C
ATOM	7	CG2	ILE A	1	30.059	-15.978	-2.757	1.00	0.00	C
ATOM	8	CD1	ILE A	1	30.325	-16.768	-5.817	1.00	0.00	C
ATOM	9	HA	ILE A	1	33.476	-16.435	-3.236	1.00	0.00	H
ATOM	10	HB	ILE A	1	31.370	-17.529	-3.437	1.00	0.00	H
ATOM	11	HG12	ILE A	1	31.130	-14.941	-5.030	1.00	0.00	H
ATOM	12	HG13	ILE A	1	32.330	-16.191	-5.375	1.00	0.00	H
ATOM	13	HD11	ILE A	1	30.420	-16.435	-6.849	1.00	0.00	H
ATOM	14	HD12	ILE A	1	30.514	-17.841	-5.770	1.00	0.00	H
ATOM	15	HD13	ILE A	1	29.306	-16.561	-5.490	1.00	0.00	H
ATOM	16	H1	ILE A	1	32.449	-17.244	-1.163	1.00	0.00	H
ATOM	17	H2	ILE A	1	31.970	-15.687	-0.848	1.00	0.00	H
ATOM	18	H3	ILE A	1	33.568	-16.041	-0.940	1.00	0.00	H
ATOM	19	HG21	ILE A	1	29.185	-16.396	-3.259	1.00	0.00	H
ATOM	20	HG22	ILE A	1	29.968	-14.891	-2.784	1.00	0.00	H
ATOM	21	HG23	ILE A	1	30.021	-16.320	-1.724	1.00	0.00	H
ATOM	22	N	CYS A	2	33.675	-13.977	-3.840	1.00	0.00	N
ATOM	23	CA	CYS A	2	33.809	-12.535	-4.055	1.00	0.00	C
ATOM	24	C	CYS A	2	32.574	-11.948	-4.761	1.00	0.00	C
ATOM	25	O	CYS A	2	32.343	-12.226	-5.937	1.00	0.00	O
ATOM	26	CB	CYS A	2	35.092	-12.191	-4.815	1.00	0.00	C
ATOM	27	SG	CYS A	2	35.277	-10.404	-5.017	1.00	0.00	S
ATOM	28	H	CYS A	2	34.138	-14.619	-4.473	1.00	0.00	H
ATOM	29	HA	CYS A	2	33.888	-12.061	-3.076	1.00	0.00	H
ATOM	30	HB2	CYS A	2	35.060	-12.645	-5.806	1.00	0.00	H
ATOM	31	HB3	CYS A	2	35.956	-12.576	-4.276	1.00	0.00	H

ATOM	32	N	LEU	A	3	31.841	-11.084	-4.056	1.00	0.00	N
ATOM	33	CA	LEU	A	3	30.699	-10.317	-4.576	1.00	0.00	C
ATOM	34	C	LEU	A	3	31.032	-8.834	-4.838	1.00	0.00	C
ATOM	35	O	LEU	A	3	30.234	-8.131	-5.451	1.00	0.00	O
ATOM	36	CB	LEU	A	3	29.536	-10.434	-3.572	1.00	0.00	C
ATOM	37	CG	LEU	A	3	29.029	-11.868	-3.324	1.00	0.00	C
ATOM	38	CD1	LEU	A	3	28.068	-11.866	-2.138	1.00	0.00	C
ATOM	39	CD2	LEU	A	3	28.323	-12.447	-4.551	1.00	0.00	C
ATOM	40	H	LEU	A	3	32.062	-10.971	-3.078	1.00	0.00	H
ATOM	41	HA	LEU	A	3	30.378	-10.733	-5.533	1.00	0.00	H
ATOM	42	HB2	LEU	A	3	29.865	-10.009	-2.622	1.00	0.00	H
ATOM	43	HB3	LEU	A	3	28.699	-9.829	-3.927	1.00	0.00	H
ATOM	44	HG	LEU	A	3	29.866	-12.517	-3.068	1.00	0.00	H
ATOM	45	HD11	LEU	A	3	27.641	-12.859	-1.999	1.00	0.00	H
ATOM	46	HD12	LEU	A	3	27.266	-11.150	-2.317	1.00	0.00	H
ATOM	47	HD13	LEU	A	3	28.600	-11.576	-1.232	1.00	0.00	H
ATOM	48	HD21	LEU	A	3	29.023	-12.547	-5.379	1.00	0.00	H
ATOM	49	HD22	LEU	A	3	27.501	-11.795	-4.847	1.00	0.00	H
ATOM	50	HD23	LEU	A	3	27.917	-13.432	-4.318	1.00	0.00	H
ATOM	51	N	GLN	A	4	32.174	-8.356	-4.332	1.00	0.00	N
ATOM	52	CA	GLN	A	4	32.625	-6.966	-4.438	1.00	0.00	C
ATOM	53	C	GLN	A	4	33.318	-6.704	-5.783	1.00	0.00	C
ATOM	54	O	GLN	A	4	34.098	-7.532	-6.258	1.00	0.00	O
ATOM	55	CB	GLN	A	4	33.568	-6.659	-3.256	1.00	0.00	C
ATOM	56	CG	GLN	A	4	33.907	-5.174	-3.041	1.00	0.00	C
ATOM	57	CD	GLN	A	4	32.715	-4.319	-2.625	1.00	0.00	C
ATOM	58	OE1	GLN	A	4	31.658	-4.797	-2.257	1.00	0.00	O
ATOM	59	NE2	GLN	A	4	32.833	-3.013	-2.682	1.00	0.00	N
ATOM	60	H	GLN	A	4	32.809	-9.008	-3.905	1.00	0.00	H
ATOM	61	HA	GLN	A	4	31.749	-6.318	-4.366	1.00	0.00	H

ATOM	62	HB2	GLN	A	4	33.132	-7.049	-2.334	1.00	0.00	H
ATOM	63	HB3	GLN	A	4	34.509	-7.178	-3.425	1.00	0.00	H
ATOM	64	HG2	GLN	A	4	34.659	-5.101	-2.255	1.00	0.00	H
ATOM	65	HG3	GLN	A	4	34.345	-4.761	-3.945	1.00	0.00	H
ATOM	66	HE21	GLN	A	4	33.685	-2.587	-2.999	1.00	0.00	H
ATOM	67	HE22	GLN	A	4	32.019	-2.489	-2.414	1.00	0.00	H
ATOM	68	N	LYS	A	5	33.179	-5.485	-6.311	1.00	0.00	N
ATOM	69	CA	LYS	A	5	33.993	-4.990	-7.427	1.00	0.00	C
ATOM	70	C	LYS	A	5	35.463	-4.805	-7.021	1.00	0.00	C
ATOM	71	O	LYS	A	5	35.744	-4.157	-6.016	1.00	0.00	O
ATOM	72	CB	LYS	A	5	33.343	-3.703	-7.956	1.00	0.00	C
ATOM	73	CG	LYS	A	5	34.110	-3.120	-9.144	1.00	0.00	C
ATOM	74	CD	LYS	A	5	33.252	-2.138	-9.952	1.00	0.00	C
ATOM	75	CE	LYS	A	5	34.025	-1.589	-11.158	1.00	0.00	C
ATOM	76	NZ	LYS	A	5	34.494	-2.678	-12.052	1.00	0.00	N
ATOM	77	H	LYS	A	5	32.506	-4.854	-5.897	1.00	0.00	H
ATOM	78	HA	LYS	A	5	33.964	-5.741	-8.213	1.00	0.00	H
ATOM	79	HB2	LYS	A	5	32.329	-3.946	-8.275	1.00	0.00	H
ATOM	80	HB3	LYS	A	5	33.285	-2.956	-7.162	1.00	0.00	H
ATOM	81	HG2	LYS	A	5	35.010	-2.616	-8.788	1.00	0.00	H
ATOM	82	HG3	LYS	A	5	34.402	-3.937	-9.795	1.00	0.00	H
ATOM	83	HD2	LYS	A	5	32.350	-2.647	-10.299	1.00	0.00	H
ATOM	84	HD3	LYS	A	5	32.950	-1.310	-9.308	1.00	0.00	H
ATOM	85	HE2	LYS	A	5	34.877	-1.007	-10.794	1.00	0.00	H
ATOM	86	HE3	LYS	A	5	33.363	-0.913	-11.708	1.00	0.00	H
ATOM	87	HZ1	LYS	A	5	34.932	-2.323	-12.889	1.00	0.00	H
ATOM	88	HZ2	LYS	A	5	35.137	-3.292	-11.566	1.00	0.00	H
ATOM	89	HZ3	LYS	A	5	33.708	-3.272	-12.317	1.00	0.00	H
ATOM	90	N	THR	A	6	36.403	-5.279	-7.844	1.00	0.00	N
ATOM	91	CA	THR	A	6	37.856	-5.126	-7.630	1.00	0.00	C

ATOM	92	C	THR	A	6	38.647	-5.237	-8.944	1.00	0.00	C
ATOM	93	O	THR	A	6	38.111	-5.652	-9.971	1.00	0.00	O
ATOM	94	CB	THR	A	6	38.376	-6.122	-6.569	1.00	0.00	C
ATOM	95	OG1	THR	A	6	39.739	-5.865	-6.316	1.00	0.00	O
ATOM	96	CG2	THR	A	6	38.270	-7.592	-6.974	1.00	0.00	C
ATOM	97	H	THR	A	6	36.108	-5.742	-8.700	1.00	0.00	H
ATOM	98	HA	THR	A	6	38.038	-4.126	-7.236	1.00	0.00	H
ATOM	99	HB	THR	A	6	37.819	-5.975	-5.643	1.00	0.00	H
ATOM	100	HG1	THR	A	6	40.069	-6.475	-5.641	1.00	0.00	H
ATOM	101	HG21	THR	A	6	38.657	-8.210	-6.165	1.00	0.00	H
ATOM	102	HG22	THR	A	6	37.224	-7.854	-7.143	1.00	0.00	H
ATOM	103	HG23	THR	A	6	38.843	-7.785	-7.881	1.00	0.00	H
ATOM	104	N	THR	A	7	39.919	-4.835	-8.924	1.00	0.00	N
ATOM	105	CA	THR	A	7	40.904	-5.065	-9.996	1.00	0.00	C
ATOM	106	C	THR	A	7	41.967	-6.108	-9.622	1.00	0.00	C
ATOM	107	O	THR	A	7	42.910	-6.306	-10.383	1.00	0.00	O
ATOM	108	CB	THR	A	7	41.566	-3.750	-10.439	1.00	0.00	C
ATOM	109	OG1	THR	A	7	42.236	-3.148	-9.357	1.00	0.00	O
ATOM	110	CG2	THR	A	7	40.544	-2.746	-10.975	1.00	0.00	C
ATOM	111	H	THR	A	7	40.283	-4.513	-8.035	1.00	0.00	H
ATOM	112	HA	THR	A	7	40.392	-5.474	-10.866	1.00	0.00	H
ATOM	113	HB	THR	A	7	42.285	-3.957	-11.233	1.00	0.00	H
ATOM	114	HG21	THR	A	7	41.069	-1.869	-11.353	1.00	0.00	H
ATOM	115	HG22	THR	A	7	39.862	-2.438	-10.183	1.00	0.00	H
ATOM	116	HG23	THR	A	7	39.978	-3.200	-11.789	1.00	0.00	H
ATOM	117	HG1	THR	A	7	43.081	-3.597	-9.254	1.00	0.00	H
ATOM	118	N	SER	A	8	41.831	-6.792	-8.479	1.00	0.00	N
ATOM	119	CA	SER	A	8	42.648	-7.967	-8.139	1.00	0.00	C
ATOM	120	C	SER	A	8	42.492	-9.069	-9.196	1.00	0.00	C
ATOM	121	O	SER	A	8	41.383	-9.338	-9.659	1.00	0.00	O

ATOM	122	CB	SER A	8	42.242	-8.541	-6.780	1.00	0.00	C
ATOM	123	OG	SER A	8	42.255	-7.570	-5.754	1.00	0.00	O
ATOM	124	H	SER A	8	41.087	-6.545	-7.842	1.00	0.00	H
ATOM	125	HA	SER A	8	43.694	-7.668	-8.092	1.00	0.00	H
ATOM	126	HB2	SER A	8	41.236	-8.955	-6.849	1.00	0.00	H
ATOM	127	HB3	SER A	8	42.938	-9.339	-6.520	1.00	0.00	H
ATOM	128	HG	SER A	8	42.544	-8.039	-4.942	1.00	0.00	H
ATOM	129	N	THR A	9	43.545	-9.851	-9.436	1.00	0.00	N
ATOM	130	CA	THR A	9	43.583	-10.945	-10.433	1.00	0.00	C
ATOM	131	C	THR A	9	42.946	-12.254	-9.931	1.00	0.00	C
ATOM	132	O	THR A	9	43.398	-13.354	-10.246	1.00	0.00	O
ATOM	133	CB	THR A	9	45.011	-11.166	-10.966	1.00	0.00	C
ATOM	134	OG1	THR A	9	45.889	-11.607	-9.943	1.00	0.00	O
ATOM	135	CG2	THR A	9	45.595	-9.902	-11.599	1.00	0.00	C
ATOM	136	H	THR A	9	44.359	-9.740	-8.843	1.00	0.00	H
ATOM	137	HA	THR A	9	42.977	-10.631	-11.285	1.00	0.00	H
ATOM	138	HB	THR A	9	44.970	-11.928	-11.748	1.00	0.00	H
ATOM	139	HG21	THR A	9	46.543	-10.143	-12.081	1.00	0.00	H
ATOM	140	HG22	THR A	9	45.764	-9.131	-10.848	1.00	0.00	H
ATOM	141	HG23	THR A	9	44.910	-9.517	-12.355	1.00	0.00	H
ATOM	142	HG1	THR A	9	45.581	-11.264	-9.081	1.00	0.00	H
ATOM	143	N	ILE A	10	41.898	-12.159	-9.110	1.00	0.00	N
ATOM	144	CA	ILE A	10	41.276	-13.273	-8.367	1.00	0.00	C
ATOM	145	C	ILE A	10	40.673	-14.378	-9.256	1.00	0.00	C
ATOM	146	O	ILE A	10	40.501	-15.519	-8.812	1.00	0.00	O
ATOM	147	CB	ILE A	10	40.227	-12.716	-7.379	1.00	0.00	C
ATOM	148	CG1	ILE A	10	39.160	-11.831	-8.065	1.00	0.00	C
ATOM	149	CG2	ILE A	10	40.916	-12.004	-6.207	1.00	0.00	C
ATOM	150	CD1	ILE A	10	38.103	-11.279	-7.101	1.00	0.00	C
ATOM	151	H	ILE A	10	41.584	-11.220	-8.901	1.00	0.00	H



ATOM	152	HA	ILE A	10	42.056	-13.761	-7.783	1.00	0.00	H
ATOM	153	HB	ILE A	10	39.721	-13.573	-6.948	1.00	0.00	H
ATOM	154	HG12	ILE A	10	39.630	-10.980	-8.555	1.00	0.00	H
ATOM	155	HG13	ILE A	10	38.654	-12.417	-8.832	1.00	0.00	H
ATOM	156	HG21	ILE A	10	41.531	-11.184	-6.567	1.00	0.00	H
ATOM	157	HG22	ILE A	10	41.560	-12.711	-5.682	1.00	0.00	H
ATOM	158	HG23	ILE A	10	40.194	-11.632	-5.487	1.00	0.00	H
ATOM	159	HD11	ILE A	10	37.733	-12.067	-6.449	1.00	0.00	H
ATOM	160	HD12	ILE A	10	37.276	-10.863	-7.670	1.00	0.00	H
ATOM	161	HD13	ILE A	10	38.533	-10.487	-6.492	1.00	0.00	H
ATOM	162	N	LEU A	11	40.408	-14.076	-10.529	1.00	0.00	N
ATOM	163	CA	LEU A	11	40.169	-15.065	-11.579	1.00	0.00	C
ATOM	164	C	LEU A	11	41.513	-15.603	-12.095	1.00	0.00	C
ATOM	165	O	LEU A	11	42.148	-14.989	-12.945	1.00	0.00	O
ATOM	166	CB	LEU A	11	39.368	-14.411	-12.718	1.00	0.00	C
ATOM	167	CG	LEU A	11	37.929	-14.021	-12.357	1.00	0.00	C
ATOM	168	CD1	LEU A	11	37.406	-13.062	-13.424	1.00	0.00	C
ATOM	169	CD2	LEU A	11	37.013	-15.243	-12.273	1.00	0.00	C
ATOM	170	H	LEU A	11	40.670	-13.148	-10.830	1.00	0.00	H
ATOM	171	HA	LEU A	11	39.597	-15.901	-11.178	1.00	0.00	H
ATOM	172	HB2	LEU A	11	39.904	-13.514	-13.031	1.00	0.00	H
ATOM	173	HB3	LEU A	11	39.339	-15.094	-13.567	1.00	0.00	H
ATOM	174	HG	LEU A	11	37.916	-13.511	-11.394	1.00	0.00	H
ATOM	175	HD21	LEU A	11	37.370	-15.933	-11.511	1.00	0.00	H
ATOM	176	HD22	LEU A	11	36.005	-14.927	-12.014	1.00	0.00	H
ATOM	177	HD23	LEU A	11	36.986	-15.747	-13.238	1.00	0.00	H
ATOM	178	HD11	LEU A	11	37.965	-12.130	-13.364	1.00	0.00	H
ATOM	179	HD12	LEU A	11	37.551	-13.487	-14.415	1.00	0.00	H
ATOM	180	HD13	LEU A	11	36.350	-12.847	-13.270	1.00	0.00	H
ATOM	181	N	LYS A	12	41.922	-16.783	-11.613	1.00	0.00	N

ATOM	182	CA	LYS A 12	43.185	-17.445	-11.998	1.00	0.00	C
ATOM	183	C	LYS A 12	42.898	-18.715	-12.827	1.00	0.00	C
ATOM	184	O	LYS A 12	42.657	-19.768	-12.220	1.00	0.00	O
ATOM	185	CB	LYS A 12	44.061	-17.686	-10.749	1.00	0.00	C
ATOM	186	CG	LYS A 12	44.321	-16.380	-9.971	1.00	0.00	C
ATOM	187	CD	LYS A 12	45.404	-16.508	-8.886	1.00	0.00	C
ATOM	188	CE	LYS A 12	45.336	-15.373	-7.849	1.00	0.00	C
ATOM	189	NZ	LYS A 12	45.434	-14.022	-8.445	1.00	0.00	N
ATOM	190	H	LYS A 12	41.368	-17.191	-10.876	1.00	0.00	H
ATOM	191	HA	LYS A 12	43.757	-16.763	-12.628	1.00	0.00	H
ATOM	192	HB2	LYS A 12	43.575	-18.404	-10.086	1.00	0.00	H
ATOM	193	HB3	LYS A 12	45.016	-18.102	-11.074	1.00	0.00	H
ATOM	194	HG2	LYS A 12	44.634	-15.610	-10.677	1.00	0.00	H
ATOM	195	HG3	LYS A 12	43.389	-16.064	-9.498	1.00	0.00	H
ATOM	196	HD2	LYS A 12	45.268	-17.449	-8.353	1.00	0.00	H
ATOM	197	HD3	LYS A 12	46.388	-16.518	-9.356	1.00	0.00	H
ATOM	198	HE2	LYS A 12	44.382	-15.433	-7.315	1.00	0.00	H
ATOM	199	HE3	LYS A 12	46.121	-15.499	-7.097	1.00	0.00	H
ATOM	200	HZ1	LYS A 12	45.123	-13.338	-7.743	1.00	0.00	H
ATOM	201	HZ2	LYS A 12	46.354	-13.750	-8.749	1.00	0.00	H
ATOM	202	HZ3	LYS A 12	44.778	-13.890	-9.207	1.00	0.00	H
ATOM	203	N	PRO A 13	42.721	-18.603	-14.161	1.00	0.00	N
ATOM	204	CA	PRO A 13	42.212	-19.673	-15.031	1.00	0.00	C
ATOM	205	C	PRO A 13	43.206	-20.839	-15.209	1.00	0.00	C
ATOM	206	O	PRO A 13	44.265	-20.883	-14.575	1.00	0.00	O
ATOM	207	CB	PRO A 13	41.911	-18.964	-16.367	1.00	0.00	C
ATOM	208	CG	PRO A 13	42.965	-17.865	-16.425	1.00	0.00	C
ATOM	209	CD	PRO A 13	43.020	-17.421	-14.967	1.00	0.00	C
ATOM	210	HA	PRO A 13	41.282	-20.076	-14.631	1.00	0.00	H
ATOM	211	HB2	PRO A 13	40.928	-18.497	-16.321	1.00	0.00	H

ATOM	212	HB3 PRO A	13	41.968	-19.622	-17.235	1.00	0.00	H
ATOM	213	HG2 PRO A	13	43.928	-18.283	-16.726	1.00	0.00	H
ATOM	214	HG3 PRO A	13	42.672	-17.049	-17.088	1.00	0.00	H
ATOM	215	HD2 PRO A	13	42.255	-16.665	-14.798	1.00	0.00	H
ATOM	216	HD3 PRO A	13	44.008	-17.015	-14.745	1.00	0.00	H
ATOM	217	N ARG A	14	42.865	-21.803	-16.072	1.00	0.00	N
ATOM	218	CA ARG A	14	43.782	-22.766	-16.709	1.00	0.00	C
ATOM	219	C ARG A	14	43.227	-23.218	-18.056	1.00	0.00	C
ATOM	220	O ARG A	14	42.066	-23.608	-18.128	1.00	0.00	O
ATOM	221	CB ARG A	14	44.005	-23.992	-15.797	1.00	0.00	C
ATOM	222	CG ARG A	14	45.386	-23.988	-15.114	1.00	0.00	C
ATOM	223	CD ARG A	14	45.287	-24.303	-13.619	1.00	0.00	C
ATOM	224	NE ARG A	14	44.662	-23.182	-12.895	1.00	0.00	N
ATOM	225	CZ ARG A	14	44.369	-23.138	-11.612	1.00	0.00	C
ATOM	226	NH1 ARG A	14	44.609	-24.144	-10.816	1.00	0.00	N
ATOM	227	NH2 ARG A	14	43.821	-22.076	-11.098	1.00	0.00	N
ATOM	228	H ARG A	14	41.901	-21.808	-16.395	1.00	0.00	H
ATOM	229	HA ARG A	14	44.734	-22.269	-16.907	1.00	0.00	H
ATOM	230	HB2 ARG A	14	43.937	-24.908	-16.388	1.00	0.00	H
ATOM	231	HB3 ARG A	14	43.203	-24.044	-15.057	1.00	0.00	H
ATOM	232	HG2 ARG A	14	46.014	-24.742	-15.592	1.00	0.00	H
ATOM	233	HG3 ARG A	14	45.879	-23.022	-15.230	1.00	0.00	H
ATOM	234	HD2 ARG A	14	44.706	-25.217	-13.484	1.00	0.00	H
ATOM	235	HD3 ARG A	14	46.296	-24.465	-13.233	1.00	0.00	H
ATOM	236	HE ARG A	14	44.494	-22.336	-13.437	1.00	0.00	H
ATOM	237	HH11 ARG A	14	45.013	-24.978	-11.206	1.00	0.00	H
ATOM	238	HH12 ARG A	14	44.382	-24.111	-9.841	1.00	0.00	H
ATOM	239	HH21 ARG A	14	43.557	-21.300	-11.706	1.00	0.00	H
ATOM	240	HH22 ARG A	14	43.639	-22.022	-10.120	1.00	0.00	H
ATOM	241	N LEU A	15	44.096	-23.335	-19.060	1.00	0.00	N

ATOM	242	CA	LEU A 15	43.834	-24.121	-20.267	1.00	0.00	C
ATOM	243	C	LEU A 15	43.809	-25.615	-19.898	1.00	0.00	C
ATOM	244	O	LEU A 15	44.801	-26.138	-19.398	1.00	0.00	O
ATOM	245	CB	LEU A 15	44.931	-23.783	-21.301	1.00	0.00	C
ATOM	246	CG	LEU A 15	44.927	-24.630	-22.587	1.00	0.00	C
ATOM	247	CD1	LEU A 15	43.663	-24.422	-23.421	1.00	0.00	C
ATOM	248	CD2	LEU A 15	46.128	-24.262	-23.456	1.00	0.00	C
ATOM	249	H	LEU A 15	45.048	-23.052	-18.898	1.00	0.00	H
ATOM	250	HA	LEU A 15	42.862	-23.838	-20.677	1.00	0.00	H
ATOM	251	HB2	LEU A 15	45.902	-23.920	-20.820	1.00	0.00	H
ATOM	252	HB3	LEU A 15	44.840	-22.730	-21.573	1.00	0.00	H
ATOM	253	HG	LEU A 15	45.005	-25.687	-22.333	1.00	0.00	H
ATOM	254	HD11	LEU A 15	43.740	-24.969	-24.360	1.00	0.00	H
ATOM	255	HD12	LEU A 15	43.535	-23.359	-23.634	1.00	0.00	H
ATOM	256	HD13	LEU A 15	42.792	-24.780	-22.880	1.00	0.00	H
ATOM	257	HD21	LEU A 15	47.052	-24.432	-22.903	1.00	0.00	H
ATOM	258	HD22	LEU A 15	46.077	-23.211	-23.744	1.00	0.00	H
ATOM	259	HD23	LEU A 15	46.145	-24.876	-24.356	1.00	0.00	H
ATOM	260	N	ILE A 16	42.721	-26.314	-20.227	1.00	0.00	N
ATOM	261	CA	ILE A 16	42.559	-27.771	-20.037	1.00	0.00	C
ATOM	262	C	ILE A 16	42.486	-28.521	-21.383	1.00	0.00	C
ATOM	263	O	ILE A 16	41.862	-29.576	-21.500	1.00	0.00	O
ATOM	264	CB	ILE A 16	41.385	-28.092	-19.078	1.00	0.00	C
ATOM	265	CG1	ILE A 16	40.023	-27.655	-19.659	1.00	0.00	C
ATOM	266	CG2	ILE A 16	41.615	-27.485	-17.683	1.00	0.00	C
ATOM	267	CD1	ILE A 16	38.852	-28.479	-19.122	1.00	0.00	C
ATOM	268	H	ILE A 16	41.935	-25.803	-20.625	1.00	0.00	H
ATOM	269	HA	ILE A 16	43.458	-28.152	-19.551	1.00	0.00	H
ATOM	270	HB	ILE A 16	41.368	-29.177	-18.952	1.00	0.00	H
ATOM	271	HG12	ILE A 16	39.852	-26.598	-19.454	1.00	0.00	H

ATOM	272	HG13	ILE A	16	40.038	-27.793	-20.735	1.00	0.00	H
ATOM	273	HG21	ILE A	16	42.589	-27.793	-17.302	1.00	0.00	H
ATOM	274	HG22	ILE A	16	41.572	-26.397	-17.726	1.00	0.00	H
ATOM	275	HG23	ILE A	16	40.849	-27.847	-16.995	1.00	0.00	H
ATOM	276	HD11	ILE A	16	39.016	-29.536	-19.331	1.00	0.00	H
ATOM	277	HD12	ILE A	16	37.935	-28.164	-19.622	1.00	0.00	H
ATOM	278	HD13	ILE A	16	38.746	-28.328	-18.049	1.00	0.00	H
ATOM	279	N	SER A	17	43.075	-27.945	-22.436	1.00	0.00	N
ATOM	280	CA	SER A	17	42.952	-28.358	-23.846	1.00	0.00	C
ATOM	281	C	SER A	17	41.504	-28.349	-24.343	1.00	0.00	C
ATOM	282	O	SER A	17	41.102	-27.443	-25.080	1.00	0.00	O
ATOM	283	CB	SER A	17	43.609	-29.723	-24.097	1.00	0.00	C
ATOM	284	OG	SER A	17	42.722	-30.772	-23.763	1.00	0.00	O
ATOM	285	H	SER A	17	43.557	-27.078	-22.252	1.00	0.00	H
ATOM	286	HA	SER A	17	43.496	-27.629	-24.446	1.00	0.00	H
ATOM	287	HB2	SER A	17	44.527	-29.810	-23.512	1.00	0.00	H
ATOM	288	HB3	SER A	17	43.861	-29.808	-25.155	1.00	0.00	H
ATOM	289	HG	SER A	17	42.459	-30.659	-22.829	1.00	0.00	H
ATOM	290	H	SER A	17	40.824	-29.147	-24.045	1.00	0.00	H
ATOM	291	N	GLU A	18	47.852	-30.099	-40.413	1.00	0.00	N
ATOM	292	CA	GLU A	18	47.877	-29.395	-41.699	1.00	0.00	C
ATOM	293	C	GLU A	18	46.935	-28.166	-41.646	1.00	0.00	C
ATOM	294	O	GLU A	18	46.825	-27.560	-40.581	1.00	0.00	O
ATOM	295	CB	GLU A	18	47.624	-30.413	-42.829	1.00	0.00	C
ATOM	296	CG	GLU A	18	48.078	-29.927	-44.224	1.00	0.00	C
ATOM	297	CD	GLU A	18	46.946	-29.884	-45.262	1.00	0.00	C
ATOM	298	OE1	GLU A	18	45.827	-29.477	-44.875	1.00	0.00	O
ATOM	299	OE2	GLU A	18	47.248	-30.083	-46.458	1.00	0.00	O
ATOM	300	HA	GLU A	18	48.884	-29.003	-41.835	1.00	0.00	H
ATOM	301	HB2	GLU A	18	46.574	-30.706	-42.827	1.00	0.00	H

ATOM	302	HB3	GLU	A	18	48.200	-31.314	-42.608	1.00	0.00	H
ATOM	303	HG2	GLU	A	18	48.520	-28.932	-44.139	1.00	0.00	H
ATOM	304	HG3	GLU	A	18	48.869	-30.595	-44.576	1.00	0.00	H
ATOM	305	H	GLU	A	18	47.471	-29.570	-39.635	1.00	0.00	H
ATOM	306	H	GLU	A	18	48.805	-30.358	-40.179	1.00	0.00	H
ATOM	307	N	GLY	A	19	46.356	-27.704	-42.760	1.00	0.00	N
ATOM	308	CA	GLY	A	19	45.510	-26.507	-42.816	1.00	0.00	C
ATOM	309	C	GLY	A	19	44.054	-26.823	-42.475	1.00	0.00	C
ATOM	310	O	GLY	A	19	43.267	-27.200	-43.348	1.00	0.00	O
ATOM	311	H	GLY	A	19	46.347	-28.301	-43.587	1.00	0.00	H
ATOM	312	HA2	GLY	A	19	45.886	-25.752	-42.125	1.00	0.00	H
ATOM	313	HA3	GLY	A	19	45.543	-26.100	-43.825	1.00	0.00	H
ATOM	314	N	VAL	A	20	43.654	-26.625	-41.218	1.00	0.00	N
ATOM	315	CA	VAL	A	20	42.374	-27.122	-40.679	1.00	0.00	C
ATOM	316	C	VAL	A	20	41.660	-26.060	-39.843	1.00	0.00	C
ATOM	317	O	VAL	A	20	42.298	-25.317	-39.105	1.00	0.00	O
ATOM	318	CB	VAL	A	20	42.614	-28.437	-39.897	1.00	0.00	C
ATOM	319	CG1	VAL	A	20	41.449	-28.895	-39.005	1.00	0.00	C
ATOM	320	CG2	VAL	A	20	42.910	-29.593	-40.867	1.00	0.00	C
ATOM	321	H	VAL	A	20	44.333	-26.237	-40.562	1.00	0.00	H
ATOM	322	HA	VAL	A	20	41.711	-27.349	-41.509	1.00	0.00	H
ATOM	323	HB	VAL	A	20	43.481	-28.303	-39.255	1.00	0.00	H
ATOM	324	HG21	VAL	A	20	43.075	-30.512	-40.306	1.00	0.00	H
ATOM	325	HG22	VAL	A	20	42.080	-29.712	-41.562	1.00	0.00	H
ATOM	326	HG23	VAL	A	20	43.818	-29.378	-41.433	1.00	0.00	H
ATOM	327	HG11	VAL	A	20	41.688	-29.855	-38.543	1.00	0.00	H
ATOM	328	HG12	VAL	A	20	40.539	-29.003	-39.591	1.00	0.00	H
ATOM	329	HG13	VAL	A	20	41.285	-28.176	-38.203	1.00	0.00	H
ATOM	330	N	CYS	A	21	40.324	-26.107	-39.823	1.00	0.00	N
ATOM	331	CA	CYS	A	21	39.523	-25.474	-38.775	1.00	0.00	C

ATOM	332	C	CYS A 21	38.522	-26.450	-38.134	1.00	0.00	C
ATOM	333	O	CYS A 21	37.795	-27.162	-38.826	1.00	0.00	O
ATOM	334	CB	CYS A 21	38.843	-24.203	-39.296	1.00	0.00	C
ATOM	335	SG	CYS A 21	37.836	-23.395	-38.020	1.00	0.00	S
ATOM	336	H	CYS A 21	39.865	-26.774	-40.434	1.00	0.00	H
ATOM	337	HA	CYS A 21	40.194	-25.155	-37.982	1.00	0.00	H
ATOM	338	HB2	CYS A 21	39.624	-23.512	-39.620	1.00	0.00	H
ATOM	339	HB3	CYS A 21	38.218	-24.450	-40.154	1.00	0.00	H
ATOM	340	N	ILE A 22	38.426	-26.415	-36.806	1.00	0.00	N
ATOM	341	CA	ILE A 22	37.385	-27.046	-35.989	1.00	0.00	C
ATOM	342	C	ILE A 22	36.337	-25.982	-35.619	1.00	0.00	C
ATOM	343	O	ILE A 22	36.694	-24.978	-35.011	1.00	0.00	O
ATOM	344	CB	ILE A 22	38.038	-27.659	-34.727	1.00	0.00	C
ATOM	345	CG1	ILE A 22	39.206	-28.632	-35.012	1.00	0.00	C
ATOM	346	CG2	ILE A 22	36.981	-28.338	-33.852	1.00	0.00	C
ATOM	347	CD1	ILE A 22	38.840	-29.866	-35.843	1.00	0.00	C
ATOM	348	H	ILE A 22	39.069	-25.793	-36.321	1.00	0.00	H
ATOM	349	HA	ILE A 22	36.892	-27.834	-36.557	1.00	0.00	H
ATOM	350	HB	ILE A 22	38.456	-26.845	-34.143	1.00	0.00	H
ATOM	351	HG12	ILE A 22	39.621	-28.972	-34.062	1.00	0.00	H
ATOM	352	HG13	ILE A 22	40.004	-28.096	-35.530	1.00	0.00	H
ATOM	353	HG21	ILE A 22	36.462	-29.086	-34.444	1.00	0.00	H
ATOM	354	HG22	ILE A 22	36.261	-27.607	-33.482	1.00	0.00	H
ATOM	355	HG23	ILE A 22	37.452	-28.819	-32.994	1.00	0.00	H
ATOM	356	HD11	ILE A 22	39.740	-30.451	-36.037	1.00	0.00	H
ATOM	357	HD12	ILE A 22	38.416	-29.547	-36.790	1.00	0.00	H
ATOM	358	HD13	ILE A 22	38.124	-30.488	-35.308	1.00	0.00	H
ATOM	359	N	THR A 23	35.061	-26.173	-35.973	1.00	0.00	N
ATOM	360	CA	THR A 23	34.011	-25.139	-35.810	1.00	0.00	C
ATOM	361	C	THR A 23	32.593	-25.736	-35.677	1.00	0.00	C

ATOM	362	O	THR	A	23	32.461	-26.906	-35.326	1.00	0.00	O
ATOM	363	CB	THR	A	23	34.154	-24.107	-36.947	1.00	0.00	C
ATOM	364	OG1	THR	A	23	33.341	-22.973	-36.758	1.00	0.00	O
ATOM	365	CG2	THR	A	23	33.810	-24.689	-38.317	1.00	0.00	C
ATOM	366	H	THR	A	23	34.825	-26.999	-36.512	1.00	0.00	H
ATOM	367	HA	THR	A	23	34.204	-24.604	-34.880	1.00	0.00	H
ATOM	368	HB	THR	A	23	35.187	-23.761	-36.969	1.00	0.00	H
ATOM	369	HG1	THR	A	23	33.888	-22.321	-36.243	1.00	0.00	H
ATOM	370	HG21	THR	A	23	33.941	-23.913	-39.065	1.00	0.00	H
ATOM	371	HG22	THR	A	23	32.777	-25.034	-38.338	1.00	0.00	H
ATOM	372	HG23	THR	A	23	34.480	-25.518	-38.544	1.00	0.00	H
ATOM	373	N	ASP	A	24	31.544	-24.905	-35.745	1.00	0.00	N
ATOM	374	CA	ASP	A	24	30.172	-25.150	-35.241	1.00	0.00	C
ATOM	375	C	ASP	A	24	30.130	-25.782	-33.823	1.00	0.00	C
ATOM	376	O	ASP	A	24	29.601	-26.890	-33.655	1.00	0.00	O
ATOM	377	CB	ASP	A	24	29.320	-25.911	-36.277	1.00	0.00	C
ATOM	378	CG	ASP	A	24	27.824	-25.942	-35.912	1.00	0.00	C
ATOM	379	OD1	ASP	A	24	27.267	-24.883	-35.555	1.00	0.00	O
ATOM	380	OD2	ASP	A	24	27.179	-26.974	-36.224	1.00	0.00	O
ATOM	381	H	ASP	A	24	31.771	-23.951	-36.009	1.00	0.00	H
ATOM	382	HA	ASP	A	24	29.708	-24.169	-35.132	1.00	0.00	H
ATOM	383	HB2	ASP	A	24	29.698	-26.930	-36.377	1.00	0.00	H
ATOM	384	HB3	ASP	A	24	29.425	-25.420	-37.246	1.00	0.00	H
ATOM	385	N	PRO	A	25	30.851	-25.203	-32.835	1.00	0.00	N
ATOM	386	CA	PRO	A	25	31.111	-25.870	-31.568	1.00	0.00	C
ATOM	387	C	PRO	A	25	29.889	-25.889	-30.640	1.00	0.00	C
ATOM	388	O	PRO	A	25	29.296	-24.848	-30.335	1.00	0.00	O
ATOM	389	CB	PRO	A	25	32.292	-25.131	-30.942	1.00	0.00	C
ATOM	390	CG	PRO	A	25	32.151	-23.713	-31.483	1.00	0.00	C
ATOM	391	CD	PRO	A	25	31.562	-23.927	-32.874	1.00	0.00	C



ATOM	392	HA	PRO A 25	31.420	-26.894	-31.768	1.00	0.00	H
ATOM	393	HB2	PRO A 25	32.249	-25.151	-29.856	1.00	0.00	H
ATOM	394	HB3	PRO A 25	33.223	-25.568	-31.302	1.00	0.00	H
ATOM	395	HG2	PRO A 25	31.458	-23.149	-30.863	1.00	0.00	H
ATOM	396	HG3	PRO A 25	33.116	-23.213	-31.533	1.00	0.00	H
ATOM	397	HD2	PRO A 25	32.390	-23.982	-33.577	1.00	0.00	H
ATOM	398	HD3	PRO A 25	30.898	-23.104	-33.142	1.00	0.00	H
ATOM	399	N	LEU A 26	29.713	-27.034	-29.981	1.00	0.00	N
ATOM	400	CA	LEU A 26	28.813	-27.256	-28.849	1.00	0.00	C
ATOM	401	C	LEU A 26	29.625	-27.688	-27.624	1.00	0.00	C
ATOM	402	O	LEU A 26	30.477	-28.568	-27.731	1.00	0.00	O
ATOM	403	CB	LEU A 26	27.745	-28.286	-29.272	1.00	0.00	C
ATOM	404	CG	LEU A 26	26.740	-28.757	-28.193	1.00	0.00	C
ATOM	405	CD1	LEU A 26	25.454	-29.220	-28.876	1.00	0.00	C
ATOM	406	CD2	LEU A 26	27.221	-29.953	-27.368	1.00	0.00	C
ATOM	407	H	LEU A 26	30.322	-27.806	-30.239	1.00	0.00	H
ATOM	408	HA	LEU A 26	28.304	-26.323	-28.604	1.00	0.00	H
ATOM	409	HB2	LEU A 26	27.186	-27.834	-30.093	1.00	0.00	H
ATOM	410	HB3	LEU A 26	28.252	-29.158	-29.670	1.00	0.00	H
ATOM	411	HG	LEU A 26	26.504	-27.928	-27.528	1.00	0.00	H
ATOM	412	HD21	LEU A 26	26.458	-30.227	-26.639	1.00	0.00	H
ATOM	413	HD22	LEU A 26	27.418	-30.808	-28.013	1.00	0.00	H
ATOM	414	HD23	LEU A 26	28.118	-29.704	-26.811	1.00	0.00	H
ATOM	415	HD11	LEU A 26	24.730	-29.544	-28.129	1.00	0.00	H
ATOM	416	HD12	LEU A 26	25.658	-30.041	-29.563	1.00	0.00	H
ATOM	417	HD13	LEU A 26	25.025	-28.386	-29.425	1.00	0.00	H
ATOM	418	N	LEU A 27	29.206	-27.209	-26.454	1.00	0.00	N
ATOM	419	CA	LEU A 27	29.513	-27.755	-25.133	1.00	0.00	C
ATOM	420	C	LEU A 27	28.234	-27.672	-24.288	1.00	0.00	C
ATOM	421	O	LEU A 27	27.495	-26.694	-24.406	1.00	0.00	O

ATOM	422	CB	LEU	A	27	30.689	-26.983	-24.496	1.00	0.00	C
ATOM	423	CG	LEU	A	27	31.011	-27.381	-23.038	1.00	0.00	C
ATOM	424	CD1	LEU	A	27	31.580	-28.798	-22.938	1.00	0.00	C
ATOM	425	CD2	LEU	A	27	32.040	-26.429	-22.435	1.00	0.00	C
ATOM	426	H	LEU	A	27	28.448	-26.543	-26.461	1.00	0.00	H
ATOM	427	HA	LEU	A	27	29.796	-28.802	-25.235	1.00	0.00	H
ATOM	428	HB2	LEU	A	27	31.579	-27.130	-25.106	1.00	0.00	H
ATOM	429	HB3	LEU	A	27	30.441	-25.921	-24.508	1.00	0.00	H
ATOM	430	HG	LEU	A	27	30.113	-27.312	-22.427	1.00	0.00	H
ATOM	431	HD11	LEU	A	27	30.841	-29.523	-23.270	1.00	0.00	H
ATOM	432	HD12	LEU	A	27	32.477	-28.893	-23.549	1.00	0.00	H
ATOM	433	HD13	LEU	A	27	31.822	-29.024	-21.898	1.00	0.00	H
ATOM	434	HD21	LEU	A	27	32.996	-26.535	-22.941	1.00	0.00	H
ATOM	435	HD22	LEU	A	27	32.160	-26.669	-21.380	1.00	0.00	H
ATOM	436	HD23	LEU	A	27	31.686	-25.400	-22.512	1.00	0.00	H
ATOM	437	N	ALA	A	28	28.009	-28.657	-23.427	1.00	0.00	N
ATOM	438	CA	ALA	A	28	26.996	-28.628	-22.378	1.00	0.00	C
ATOM	439	C	ALA	A	28	27.507	-29.389	-21.151	1.00	0.00	C
ATOM	440	O	ALA	A	28	28.128	-30.441	-21.322	1.00	0.00	O
ATOM	441	CB	ALA	A	28	25.713	-29.267	-22.919	1.00	0.00	C
ATOM	442	H	ALA	A	28	28.619	-29.466	-23.444	1.00	0.00	H
ATOM	443	HA	ALA	A	28	26.790	-27.596	-22.093	1.00	0.00	H
ATOM	444	HB1	ALA	A	28	24.916	-29.174	-22.180	1.00	0.00	H
ATOM	445	HB2	ALA	A	28	25.417	-28.773	-23.843	1.00	0.00	H
ATOM	446	HB3	ALA	A	28	25.883	-30.325	-23.121	1.00	0.00	H
ATOM	447	N	VAL	A	29	27.206	-28.915	-19.942	1.00	0.00	N
ATOM	448	CA	VAL	A	29	27.513	-29.596	-18.675	1.00	0.00	C
ATOM	449	C	VAL	A	29	26.244	-29.750	-17.836	1.00	0.00	C
ATOM	450	O	VAL	A	29	25.599	-28.771	-17.465	1.00	0.00	O
ATOM	451	CB	VAL	A	29	28.634	-28.874	-17.896	1.00	0.00	C

ATOM	452	CG1 VAL A	29	28.977	-29.598	-16.585	1.00	0.00	C
ATOM	453	CG2 VAL A	29	29.927	-28.768	-18.719	1.00	0.00	C
ATOM	454	H VAL A	29	26.836	-27.965	-19.892	1.00	0.00	H
ATOM	455	HA VAL A	29	27.875	-30.598	-18.899	1.00	0.00	H
ATOM	456	HB VAL A	29	28.304	-27.867	-17.648	1.00	0.00	H
ATOM	457	HG11 VAL A	29	28.121	-29.578	-15.911	1.00	0.00	H
ATOM	458	HG12 VAL A	29	29.809	-29.097	-16.090	1.00	0.00	H
ATOM	459	HG13 VAL A	29	29.251	-30.633	-16.790	1.00	0.00	H
ATOM	460	HG21 VAL A	29	30.706	-28.288	-18.128	1.00	0.00	H
ATOM	461	HG22 VAL A	29	30.257	-29.762	-19.023	1.00	0.00	H
ATOM	462	HG23 VAL A	29	29.751	-28.160	-19.608	1.00	0.00	H
ATOM	463	N ASP A	30	25.979	-30.976	-17.386	1.00	0.00	N
ATOM	464	CA ASP A	30	24.855	-31.337	-16.523	1.00	0.00	C
ATOM	465	C ASP A	30	25.327	-32.279	-15.413	1.00	0.00	C
ATOM	466	O ASP A	30	25.739	-33.407	-15.671	1.00	0.00	O
ATOM	467	CB ASP A	30	23.759	-32.039	-17.332	1.00	0.00	C
ATOM	468	CG ASP A	30	22.716	-31.107	-17.950	1.00	0.00	C
ATOM	469	OD1 ASP A	30	21.921	-30.639	-17.098	1.00	0.00	O
ATOM	470	OD2 ASP A	30	22.293	-31.477	-19.072	1.00	0.00	O
ATOM	471	H ASP A	30	26.607	-31.723	-17.667	1.00	0.00	H
ATOM	472	HA ASP A	30	24.427	-30.444	-16.065	1.00	0.00	H
ATOM	473	HB2 ASP A	30	23.226	-32.714	-16.659	1.00	0.00	H
ATOM	474	HB3 ASP A	30	24.223	-32.663	-18.098	1.00	0.00	H
ATOM	475	N ASN A	31	25.123	-31.875	-14.157	1.00	0.00	N
ATOM	476	CA ASN A	31	25.235	-32.733	-12.966	1.00	0.00	C
ATOM	477	C ASN A	31	26.608	-33.416	-12.719	1.00	0.00	C
ATOM	478	O ASN A	31	26.746	-34.096	-11.708	1.00	0.00	O
ATOM	479	CB ASN A	31	24.060	-33.742	-12.963	1.00	0.00	C
ATOM	480	CG ASN A	31	22.694	-33.090	-13.103	1.00	0.00	C
ATOM	481	OD1 ASN A	31	22.000	-33.203	-14.105	1.00	0.00	O

ATOM	482	ND2	ASN	A	31	22.285	-32.321	-12.120	1.00	0.00	N
ATOM	483	H	ASN	A	31	24.757	-30.944	-14.033	1.00	0.00	H
ATOM	484	HA	ASN	A	31	25.105	-32.083	-12.102	1.00	0.00	H
ATOM	485	HB2	ASN	A	31	24.189	-34.450	-13.781	1.00	0.00	H
ATOM	486	HB3	ASN	A	31	24.078	-34.307	-12.031	1.00	0.00	H
ATOM	487	HD21	ASN	A	31	22.831	-32.248	-11.281	1.00	0.00	H
ATOM	488	HD22	ASN	A	31	21.389	-31.884	-12.224	1.00	0.00	H
ATOM	489	N	GLY	A	32	27.624	-33.166	-13.555	1.00	0.00	N
ATOM	490	CA	GLY	A	32	28.937	-33.834	-13.541	1.00	0.00	C
ATOM	491	C	GLY	A	32	29.290	-34.541	-14.861	1.00	0.00	C
ATOM	492	O	GLY	A	32	30.462	-34.810	-15.122	1.00	0.00	O
ATOM	493	H	GLY	A	32	27.401	-32.630	-14.381	1.00	0.00	H
ATOM	494	HA2	GLY	A	32	28.961	-34.586	-12.751	1.00	0.00	H
ATOM	495	HA3	GLY	A	32	29.713	-33.096	-13.333	1.00	0.00	H
ATOM	496	N	PHE	A	33	28.309	-34.709	-15.750	1.00	0.00	N
ATOM	497	CA	PHE	A	33	28.478	-35.166	-17.130	1.00	0.00	C
ATOM	498	C	PHE	A	33	28.590	-33.987	-18.105	1.00	0.00	C
ATOM	499	O	PHE	A	33	28.134	-32.882	-17.805	1.00	0.00	O
ATOM	500	CB	PHE	A	33	27.300	-36.078	-17.500	1.00	0.00	C
ATOM	501	CG	PHE	A	33	27.084	-37.199	-16.501	1.00	0.00	C
ATOM	502	CD1	PHE	A	33	28.071	-38.188	-16.349	1.00	0.00	C
ATOM	503	CD2	PHE	A	33	25.950	-37.211	-15.669	1.00	0.00	C
ATOM	504	CE1	PHE	A	33	27.928	-39.190	-15.375	1.00	0.00	C
ATOM	505	CE2	PHE	A	33	25.804	-38.216	-14.695	1.00	0.00	C
ATOM	506	CZ	PHE	A	33	26.791	-39.208	-14.550	1.00	0.00	C
ATOM	507	H	PHE	A	33	27.377	-34.401	-15.500	1.00	0.00	H
ATOM	508	HA	PHE	A	33	29.396	-35.748	-17.200	1.00	0.00	H
ATOM	509	HB2	PHE	A	33	26.392	-35.478	-17.572	1.00	0.00	H
ATOM	510	HB3	PHE	A	33	27.488	-36.518	-18.481	1.00	0.00	H
ATOM	511	HD1	PHE	A	33	28.945	-38.169	-16.980	1.00	0.00	H

ATOM	512	HD2 PHE A	33	25.198	-36.440	-15.770	1.00	0.00	H
ATOM	513	HE1 PHE A	33	28.701	-39.938	-15.258	1.00	0.00	H
ATOM	514	HE2 PHE A	33	24.941	-38.221	-14.049	1.00	0.00	H
ATOM	515	HZ PHE A	33	26.683	-39.976	-13.797	1.00	0.00	H
ATOM	516	N PHE A	34	29.056	-34.251	-19.328	1.00	0.00	N
ATOM	517	CA PHE A	34	29.075	-33.267	-20.415	1.00	0.00	C
ATOM	518	C PHE A	34	28.679	-33.861	-21.773	1.00	0.00	C
ATOM	519	O PHE A	34	28.847	-35.060	-22.012	1.00	0.00	O
ATOM	520	CB PHE A	34	30.447	-32.569	-20.477	1.00	0.00	C
ATOM	521	CG PHE A	34	31.565	-33.383	-21.107	1.00	0.00	C
ATOM	522	CD1 PHE A	34	31.845	-33.249	-22.480	1.00	0.00	C
ATOM	523	CD2 PHE A	34	32.323	-34.275	-20.326	1.00	0.00	C
ATOM	524	CE1 PHE A	34	32.858	-34.022	-23.075	1.00	0.00	C
ATOM	525	CE2 PHE A	34	33.350	-35.031	-20.916	1.00	0.00	C
ATOM	526	CZ PHE A	34	33.609	-34.914	-22.291	1.00	0.00	C
ATOM	527	H PHE A	34	29.396	-35.187	-19.526	1.00	0.00	H
ATOM	528	HA PHE A	34	28.330	-32.510	-20.183	1.00	0.00	H
ATOM	529	HB2 PHE A	34	30.343	-31.653	-21.055	1.00	0.00	H
ATOM	530	HB3 PHE A	34	30.736	-32.267	-19.474	1.00	0.00	H
ATOM	531	HD1 PHE A	34	31.271	-32.560	-23.084	1.00	0.00	H
ATOM	532	HD2 PHE A	34	32.106	-34.395	-19.276	1.00	0.00	H
ATOM	533	HE1 PHE A	34	33.056	-33.932	-24.133	1.00	0.00	H
ATOM	534	HE2 PHE A	34	33.921	-35.719	-20.313	1.00	0.00	H
ATOM	535	HZ PHE A	34	34.383	-35.513	-22.744	1.00	0.00	H
ATOM	536	N ALA A	35	28.321	-32.971	-22.701	1.00	0.00	N
ATOM	537	CA ALA A	35	28.228	-33.227	-24.137	1.00	0.00	C
ATOM	538	C ALA A	35	29.031	-32.200	-24.947	1.00	0.00	C
ATOM	539	O ALA A	35	29.260	-31.073	-24.511	1.00	0.00	O
ATOM	540	CB ALA A	35	26.762	-33.245	-24.574	1.00	0.00	C
ATOM	541	H ALA A	35	28.244	-32.004	-22.401	1.00	0.00	H

ATOM	542	HA	ALA	A	35	28.654	-34.206	-24.346	1.00	0.00	H
ATOM	543	HB1	ALA	A	35	26.694	-33.401	-25.651	1.00	0.00	H
ATOM	544	HB2	ALA	A	35	26.259	-34.063	-24.073	1.00	0.00	H
ATOM	545	HB3	ALA	A	35	26.278	-32.303	-24.316	1.00	0.00	H
ATOM	546	N	TYR	A	36	29.423	-32.590	-26.158	1.00	0.00	N
ATOM	547	CA	TYR	A	36	30.275	-31.819	-27.057	1.00	0.00	C
ATOM	548	C	TYR	A	36	29.952	-32.124	-28.529	1.00	0.00	C
ATOM	549	O	TYR	A	36	29.590	-33.249	-28.875	1.00	0.00	O
ATOM	550	CB	TYR	A	36	31.739	-32.124	-26.712	1.00	0.00	C
ATOM	551	CG	TYR	A	36	32.755	-31.482	-27.635	1.00	0.00	C
ATOM	552	CD1	TYR	A	36	33.206	-30.172	-27.384	1.00	0.00	C
ATOM	553	CD2	TYR	A	36	33.223	-32.184	-28.763	1.00	0.00	C
ATOM	554	CE1	TYR	A	36	34.138	-29.567	-28.250	1.00	0.00	C
ATOM	555	CE2	TYR	A	36	34.147	-31.578	-29.633	1.00	0.00	C
ATOM	556	CZ	TYR	A	36	34.613	-30.270	-29.376	1.00	0.00	C
ATOM	557	OH	TYR	A	36	35.520	-29.692	-30.206	1.00	0.00	O
ATOM	558	H	TYR	A	36	29.238	-33.554	-26.420	1.00	0.00	H
ATOM	559	HA	TYR	A	36	30.104	-30.761	-26.882	1.00	0.00	H
ATOM	560	HB2	TYR	A	36	31.879	-33.203	-26.732	1.00	0.00	H
ATOM	561	HB3	TYR	A	36	31.935	-31.791	-25.691	1.00	0.00	H
ATOM	562	HD1	TYR	A	36	32.819	-29.622	-26.536	1.00	0.00	H
ATOM	563	HD2	TYR	A	36	32.859	-33.179	-28.970	1.00	0.00	H
ATOM	564	HE1	TYR	A	36	34.481	-28.560	-28.069	1.00	0.00	H
ATOM	565	HE2	TYR	A	36	34.499	-32.115	-30.498	1.00	0.00	H
ATOM	566	HH	TYR	A	36	35.796	-30.311	-30.902	1.00	0.00	H
ATOM	567	N	SER	A	37	30.176	-31.160	-29.424	1.00	0.00	N
ATOM	568	CA	SER	A	37	30.195	-31.384	-30.879	1.00	0.00	C
ATOM	569	C	SER	A	37	31.152	-30.421	-31.571	1.00	0.00	C
ATOM	570	O	SER	A	37	31.192	-29.246	-31.206	1.00	0.00	O
ATOM	571	CB	SER	A	37	28.771	-31.323	-31.479	1.00	0.00	C

ATOM	572	OG	SER A 37	28.649	-30.497	-32.636	1.00	0.00	O
ATOM	573	H	SER A 37	30.533	-30.273	-29.080	1.00	0.00	H
ATOM	574	HA	SER A 37	30.581	-32.388	-31.051	1.00	0.00	H
ATOM	575	HB2	SER A 37	28.481	-32.337	-31.747	1.00	0.00	H
ATOM	576	HB3	SER A 37	28.061	-30.985	-30.726	1.00	0.00	H
ATOM	577	HG	SER A 37	28.840	-29.586	-32.367	1.00	0.00	H
ATOM	578	N	HIS A 38	31.698	-30.845	-32.714	1.00	0.00	N
ATOM	579	CA	HIS A 38	32.311	-29.950	-33.701	1.00	0.00	C
ATOM	580	C	HIS A 38	32.132	-30.462	-35.130	1.00	0.00	C
ATOM	581	O	HIS A 38	31.985	-31.663	-35.359	1.00	0.00	O
ATOM	582	CB	HIS A 38	33.795	-29.706	-33.368	1.00	0.00	C
ATOM	583	CG	HIS A 38	34.754	-30.875	-33.523	1.00	0.00	C
ATOM	584	ND1	HIS A 38	35.715	-31.238	-32.574	1.00	0.00	N
ATOM	585	CD2	HIS A 38	35.013	-31.576	-34.670	1.00	0.00	C
ATOM	586	CE1	HIS A 38	36.486	-32.172	-33.150	1.00	0.00	C
ATOM	587	NE2	HIS A 38	36.083	-32.401	-34.408	1.00	0.00	N
ATOM	588	H	HIS A 38	31.507	-31.799	-33.004	1.00	0.00	H
ATOM	589	HA	HIS A 38	31.805	-28.980	-33.651	1.00	0.00	H
ATOM	590	HB2	HIS A 38	34.147	-28.900	-34.011	1.00	0.00	H
ATOM	591	HB3	HIS A 38	33.860	-29.337	-32.345	1.00	0.00	H
ATOM	592	HD2	HIS A 38	34.513	-31.467	-35.620	1.00	0.00	H
ATOM	593	HE1	HIS A 38	37.324	-32.661	-32.669	1.00	0.00	H
ATOM	594	HE2	HIS A 38	36.519	-33.044	-35.057	1.00	0.00	H
ATOM	595	N	LEU A 39	32.341	-29.570	-36.093	1.00	0.00	N
ATOM	596	CA	LEU A 39	32.568	-29.848	-37.506	1.00	0.00	C
ATOM	597	C	LEU A 39	34.018	-29.492	-37.876	1.00	0.00	C
ATOM	598	O	LEU A 39	34.403	-28.324	-37.860	1.00	0.00	O
ATOM	599	CB	LEU A 39	31.531	-29.038	-38.307	1.00	0.00	C
ATOM	600	CG	LEU A 39	31.610	-29.229	-39.830	1.00	0.00	C
ATOM	601	CD1	LEU A 39	31.315	-30.676	-40.228	1.00	0.00	C

ATOM	602	CD2 LEU A 39	30.582	-28.326	-40.513	1.00	0.00	C
ATOM	603	H LEU A 39	32.463	-28.604	-35.802	1.00	0.00	H
ATOM	604	HA LEU A 39	32.412	-30.907	-37.697	1.00	0.00	H
ATOM	605	HB2 LEU A 39	30.532	-29.316	-37.968	1.00	0.00	H
ATOM	606	HB3 LEU A 39	31.674	-27.979	-38.083	1.00	0.00	H
ATOM	607	HG LEU A 39	32.601	-28.953	-40.192	1.00	0.00	H
ATOM	608	HD11 LEU A 39	32.150	-31.314	-39.946	1.00	0.00	H
ATOM	609	HD12 LEU A 39	31.171	-30.743	-41.303	1.00	0.00	H
ATOM	610	HD13 LEU A 39	30.404	-31.020	-39.741	1.00	0.00	H
ATOM	611	HD21 LEU A 39	30.661	-28.427	-41.594	1.00	0.00	H
ATOM	612	HD22 LEU A 39	29.577	-28.611	-40.200	1.00	0.00	H
ATOM	613	HD23 LEU A 39	30.761	-27.289	-40.230	1.00	0.00	H
ATOM	614	N GLU A 40	34.829	-30.497	-38.201	1.00	0.00	N
ATOM	615	CA GLU A 40	36.172	-30.314	-38.761	1.00	0.00	C
ATOM	616	C GLU A 40	36.102	-29.971	-40.254	1.00	0.00	C
ATOM	617	O GLU A 40	35.412	-30.654	-41.019	1.00	0.00	O
ATOM	618	CB GLU A 40	37.008	-31.587	-38.537	1.00	0.00	C
ATOM	619	CG GLU A 40	38.426	-31.465	-39.123	1.00	0.00	C
ATOM	620	CD GLU A 40	39.310	-32.676	-38.824	1.00	0.00	C
ATOM	621	OE1 GLU A 40	38.843	-33.782	-39.175	1.00	0.00	O
ATOM	622	OE2 GLU A 40	40.538	-32.459	-38.884	1.00	0.00	O
ATOM	623	H GLU A 40	34.438	-31.433	-38.231	1.00	0.00	H
ATOM	624	HA GLU A 40	36.660	-29.484	-38.247	1.00	0.00	H
ATOM	625	HB2 GLU A 40	36.499	-32.422	-39.013	1.00	0.00	H
ATOM	626	HB3 GLU A 40	37.080	-31.782	-37.467	1.00	0.00	H
ATOM	627	HG2 GLU A 40	38.895	-30.563	-38.733	1.00	0.00	H
ATOM	628	HG3 GLU A 40	38.365	-31.355	-40.208	1.00	0.00	H
ATOM	629	N LYS A 41	36.969	-29.057	-40.697	1.00	0.00	N
ATOM	630	CA LYS A 41	37.115	-28.605	-42.084	1.00	0.00	C
ATOM	631	C LYS A 41	38.571	-28.599	-42.541	1.00	0.00	C



ATOM	632	O	LYS	A	41	39.459	-28.232	-41.779	1.00	0.00	O
ATOM	633	CB	LYS	A	41	36.532	-27.192	-42.215	1.00	0.00	C
ATOM	634	CG	LYS	A	41	35.000	-27.188	-42.132	1.00	0.00	C
ATOM	635	CD	LYS	A	41	34.505	-25.755	-41.942	1.00	0.00	C
ATOM	636	CE	LYS	A	41	32.984	-25.682	-42.087	1.00	0.00	C
ATOM	637	NZ	LYS	A	41	32.604	-25.277	-43.460	1.00	0.00	N
ATOM	638	H	LYS	A	41	37.493	-28.535	-39.997	1.00	0.00	H
ATOM	639	HA	LYS	A	41	36.563	-29.279	-42.730	1.00	0.00	H
ATOM	640	HB2	LYS	A	41	36.950	-26.561	-41.427	1.00	0.00	H
ATOM	641	HB3	LYS	A	41	36.825	-26.766	-43.175	1.00	0.00	H
ATOM	642	HG2	LYS	A	41	34.590	-27.616	-43.047	1.00	0.00	H
ATOM	643	HG3	LYS	A	41	34.661	-27.781	-41.283	1.00	0.00	H
ATOM	644	HD2	LYS	A	41	34.988	-25.087	-42.657	1.00	0.00	H
ATOM	645	HD3	LYS	A	41	34.781	-25.432	-40.939	1.00	0.00	H
ATOM	646	HE2	LYS	A	41	32.556	-26.654	-41.826	1.00	0.00	H
ATOM	647	HE3	LYS	A	41	32.605	-24.942	-41.374	1.00	0.00	H
ATOM	648	HZ1	LYS	A	41	31.619	-25.409	-43.624	1.00	0.00	H
ATOM	649	HZ2	LYS	A	41	32.785	-24.283	-43.584	1.00	0.00	H
ATOM	650	HZ3	LYS	A	41	33.148	-25.784	-44.157	1.00	0.00	H
ATOM	651	N	ILE	A	42	38.782	-28.846	-43.832	1.00	0.00	N
ATOM	652	CA	ILE	A	42	39.983	-28.435	-44.572	1.00	0.00	C
ATOM	653	C	ILE	A	42	39.874	-26.930	-44.849	1.00	0.00	C
ATOM	654	O	ILE	A	42	38.910	-26.489	-45.483	1.00	0.00	O
ATOM	655	CB	ILE	A	42	40.129	-29.225	-45.896	1.00	0.00	C
ATOM	656	CG1	ILE	A	42	40.051	-30.752	-45.664	1.00	0.00	C
ATOM	657	CG2	ILE	A	42	41.447	-28.838	-46.594	1.00	0.00	C
ATOM	658	CD1	ILE	A	42	40.092	-31.599	-46.942	1.00	0.00	C
ATOM	659	H	ILE	A	42	37.971	-29.107	-44.381	1.00	0.00	H
ATOM	660	HA	ILE	A	42	40.868	-28.617	-43.958	1.00	0.00	H
ATOM	661	HB	ILE	A	42	39.304	-28.947	-46.553	1.00	0.00	H

ATOM	662	HG12	ILE	A	42	40.865	-31.058	-45.007	1.00	0.00	H
ATOM	663	HG13	ILE	A	42	39.105	-30.985	-45.176	1.00	0.00	H
ATOM	664	HG21	ILE	A	42	41.492	-27.765	-46.778	1.00	0.00	H
ATOM	665	HG22	ILE	A	42	41.532	-29.335	-47.560	1.00	0.00	H
ATOM	666	HG23	ILE	A	42	42.301	-29.122	-45.976	1.00	0.00	H
ATOM	667	HD11	ILE	A	42	39.877	-32.639	-46.691	1.00	0.00	H
ATOM	668	HD12	ILE	A	42	39.340	-31.244	-47.649	1.00	0.00	H
ATOM	669	HD13	ILE	A	42	41.078	-31.552	-47.401	1.00	0.00	H
ATOM	670	N	GLY	A	43	40.853	-26.149	-44.400	1.00	0.00	N
ATOM	671	CA	GLY	A	43	40.871	-24.693	-44.530	1.00	0.00	C
ATOM	672	C	GLY	A	43	39.778	-23.973	-43.726	1.00	0.00	C
ATOM	673	O	GLY	A	43	39.364	-24.418	-42.658	1.00	0.00	O
ATOM	674	H	GLY	A	43	41.642	-26.589	-43.932	1.00	0.00	H
ATOM	675	HA2	GLY	A	43	41.840	-24.322	-44.191	1.00	0.00	H
ATOM	676	HA3	GLY	A	43	40.764	-24.438	-45.584	1.00	0.00	H
ATOM	677	N	SER	A	44	39.377	-22.792	-44.214	1.00	0.00	N
ATOM	678	CA	SER	A	44	38.618	-21.785	-43.448	1.00	0.00	C
ATOM	679	C	SER	A	44	37.361	-22.322	-42.740	1.00	0.00	C
ATOM	680	O	SER	A	44	36.545	-23.020	-43.338	1.00	0.00	O
ATOM	681	CB	SER	A	44	38.240	-20.607	-44.361	1.00	0.00	C
ATOM	682	OG	SER	A	44	37.289	-20.990	-45.342	1.00	0.00	O
ATOM	683	H	SER	A	44	39.825	-22.488	-45.062	1.00	0.00	H
ATOM	684	HA	SER	A	44	39.286	-21.399	-42.677	1.00	0.00	H
ATOM	685	HB2	SER	A	44	39.138	-20.229	-44.853	1.00	0.00	H
ATOM	686	HB3	SER	A	44	37.816	-19.804	-43.756	1.00	0.00	H
ATOM	687	HG	SER	A	44	37.612	-21.795	-45.763	1.00	0.00	H
ATOM	688	N	CYS	A	45	37.075	-21.793	-41.549	1.00	0.00	N
ATOM	689	CA	CYS	A	45	35.934	-22.219	-40.729	1.00	0.00	C
ATOM	690	C	CYS	A	45	34.570	-22.018	-41.415	1.00	0.00	C
ATOM	691	O	CYS	A	45	33.711	-22.895	-41.369	1.00	0.00	O

ATOM	692	CB	CYS	A	45	35.988	-21.445	-39.408	1.00	0.00	C
ATOM	693	SG	CYS	A	45	37.608	-21.463	-38.602	1.00	0.00	S
ATOM	694	H	CYS	A	45	37.786	-21.248	-41.082	1.00	0.00	H
ATOM	695	HA	CYS	A	45	36.045	-23.281	-40.508	1.00	0.00	H
ATOM	696	HB2	CYS	A	45	35.253	-21.860	-38.715	1.00	0.00	H
ATOM	697	HB3	CYS	A	45	35.720	-20.404	-39.589	1.00	0.00	H
ATOM	698	N	THR	A	46	34.412	-20.958	-42.212	1.00	0.00	N
ATOM	699	CA	THR	A	46	33.191	-20.738	-43.001	1.00	0.00	C
ATOM	700	C	THR	A	46	33.122	-21.675	-44.214	1.00	0.00	C
ATOM	701	O	THR	A	46	32.301	-22.593	-44.245	1.00	0.00	O
ATOM	702	CB	THR	A	46	33.042	-19.262	-43.407	1.00	0.00	C
ATOM	703	OG1	THR	A	46	34.166	-18.816	-44.133	1.00	0.00	O
ATOM	704	CG2	THR	A	46	32.906	-18.338	-42.199	1.00	0.00	C
ATOM	705	H	THR	A	46	35.167	-20.294	-42.291	1.00	0.00	H
ATOM	706	HA	THR	A	46	32.331	-20.983	-42.375	1.00	0.00	H
ATOM	707	HB	THR	A	46	32.152	-19.153	-44.028	1.00	0.00	H
ATOM	708	HG1	THR	A	46	34.385	-17.941	-43.792	1.00	0.00	H
ATOM	709	HG21	THR	A	46	32.720	-17.316	-42.530	1.00	0.00	H
ATOM	710	HG22	THR	A	46	32.063	-18.658	-41.586	1.00	0.00	H
ATOM	711	HG23	THR	A	46	33.810	-18.359	-41.587	1.00	0.00	H
ATOM	712	N	ARG	A	47	34.016	-21.517	-45.198	1.00	0.00	N
ATOM	713	CA	ARG	A	47	33.886	-22.128	-46.540	1.00	0.00	C
ATOM	714	C	ARG	A	47	34.731	-23.388	-46.768	1.00	0.00	C
ATOM	715	O	ARG	A	47	34.648	-23.979	-47.837	1.00	0.00	O
ATOM	716	CB	ARG	A	47	34.132	-21.052	-47.614	1.00	0.00	C
ATOM	717	CG	ARG	A	47	33.023	-19.987	-47.591	1.00	0.00	C
ATOM	718	CD	ARG	A	47	33.265	-18.883	-48.625	1.00	0.00	C
ATOM	719	NE	ARG	A	47	32.190	-17.870	-48.565	1.00	0.00	N
ATOM	720	CZ	ARG	A	47	32.310	-16.559	-48.697	1.00	0.00	C
ATOM	721	NH1	ARG	A	47	33.448	-15.983	-48.965	1.00	0.00	N

ATOM	722	NH2	ARG	A	47	31.267	-15.790	-48.557	1.00	0.00	N
ATOM	723	H	ARG	A	47	34.702	-20.778	-45.071	1.00	0.00	H
ATOM	724	HA	ARG	A	47	32.861	-22.482	-46.665	1.00	0.00	H
ATOM	725	HB2	ARG	A	47	35.104	-20.584	-47.445	1.00	0.00	H
ATOM	726	HB3	ARG	A	47	34.140	-21.519	-48.601	1.00	0.00	H
ATOM	727	HG2	ARG	A	47	32.065	-20.467	-47.798	1.00	0.00	H
ATOM	728	HG3	ARG	A	47	32.975	-19.526	-46.604	1.00	0.00	H
ATOM	729	HD2	ARG	A	47	34.236	-18.430	-48.416	1.00	0.00	H
ATOM	730	HD3	ARG	A	47	33.293	-19.328	-49.622	1.00	0.00	H
ATOM	731	HE	ARG	A	47	31.265	-18.219	-48.377	1.00	0.00	H
ATOM	732	HH11	ARG	A	47	34.266	-16.554	-49.081	1.00	0.00	H
ATOM	733	HH12	ARG	A	47	33.516	-14.985	-49.046	1.00	0.00	H
ATOM	734	HH21	ARG	A	47	30.372	-16.184	-48.327	1.00	0.00	H
ATOM	735	HH22	ARG	A	47	31.361	-14.793	-48.633	1.00	0.00	H
ATOM	736	N	GLY	A	48	35.482	-23.836	-45.765	1.00	0.00	N
ATOM	737	CA	GLY	A	48	36.289	-25.056	-45.809	1.00	0.00	C
ATOM	738	C	GLY	A	48	35.466	-26.342	-45.930	1.00	0.00	C
ATOM	739	O	GLY	A	48	34.333	-26.424	-45.436	1.00	0.00	O
ATOM	740	H	GLY	A	48	35.528	-23.289	-44.912	1.00	0.00	H
ATOM	741	HA2	GLY	A	48	36.974	-24.997	-46.656	1.00	0.00	H
ATOM	742	HA3	GLY	A	48	36.888	-25.119	-44.900	1.00	0.00	H
ATOM	743	N	ILE	A	49	36.051	-27.347	-46.588	1.00	0.00	N
ATOM	744	CA	ILE	A	49	35.428	-28.644	-46.886	1.00	0.00	C
ATOM	745	C	ILE	A	49	35.351	-29.481	-45.608	1.00	0.00	C
ATOM	746	O	ILE	A	49	36.379	-29.747	-44.992	1.00	0.00	O
ATOM	747	CB	ILE	A	49	36.209	-29.404	-47.990	1.00	0.00	C
ATOM	748	CG1	ILE	A	49	36.279	-28.617	-49.321	1.00	0.00	C
ATOM	749	CG2	ILE	A	49	35.559	-30.776	-48.263	1.00	0.00	C
ATOM	750	CD1	ILE	A	49	37.525	-27.728	-49.447	1.00	0.00	C
ATOM	751	H	ILE	A	49	37.019	-27.217	-46.857	1.00	0.00	H

ATOM	752	HA	ILE	A	49	34.414	-28.467	-47.246	1.00	0.00	H
ATOM	753	HB	ILE	A	49	37.224	-29.595	-47.639	1.00	0.00	H
ATOM	754	HG12	ILE	A	49	35.380	-28.011	-49.445	1.00	0.00	H
ATOM	755	HG13	ILE	A	49	36.316	-29.319	-50.156	1.00	0.00	H
ATOM	756	HG21	ILE	A	49	35.588	-31.407	-47.373	1.00	0.00	H
ATOM	757	HG22	ILE	A	49	34.526	-30.654	-48.587	1.00	0.00	H
ATOM	758	HG23	ILE	A	49	36.115	-31.301	-49.042	1.00	0.00	H
ATOM	759	HD11	ILE	A	49	37.547	-27.284	-50.443	1.00	0.00	H
ATOM	760	HD12	ILE	A	49	37.508	-26.926	-48.712	1.00	0.00	H
ATOM	761	HD13	ILE	A	49	38.426	-28.328	-49.310	1.00	0.00	H
ATOM	762	N	ALA	A	50	34.159	-29.948	-45.237	1.00	0.00	N
ATOM	763	CA	ALA	A	50	33.963	-30.791	-44.057	1.00	0.00	C
ATOM	764	C	ALA	A	50	34.711	-32.136	-44.171	1.00	0.00	C
ATOM	765	O	ALA	A	50	34.429	-32.908	-45.085	1.00	0.00	O
ATOM	766	CB	ALA	A	50	32.458	-31.011	-43.871	1.00	0.00	C
ATOM	767	H	ALA	A	50	33.364	-29.765	-45.825	1.00	0.00	H
ATOM	768	HA	ALA	A	50	34.340	-30.256	-43.185	1.00	0.00	H
ATOM	769	HB1	ALA	A	50	32.300	-31.663	-43.015	1.00	0.00	H
ATOM	770	HB2	ALA	A	50	32.039	-31.494	-44.754	1.00	0.00	H
ATOM	771	HB3	ALA	A	50	31.955	-30.058	-43.697	1.00	0.00	H
ATOM	772	N	LYS	A	51	35.543	-32.472	-43.175	1.00	0.00	N
ATOM	773	CA	LYS	A	51	36.100	-33.828	-42.993	1.00	0.00	C
ATOM	774	C	LYS	A	51	35.198	-34.708	-42.127	1.00	0.00	C
ATOM	775	O	LYS	A	51	34.843	-35.806	-42.535	1.00	0.00	O
ATOM	776	CB	LYS	A	51	37.523	-33.785	-42.404	1.00	0.00	C
ATOM	777	CG	LYS	A	51	38.551	-33.093	-43.320	1.00	0.00	C
ATOM	778	CD	LYS	A	51	39.938	-33.764	-43.288	1.00	0.00	C
ATOM	779	CE	LYS	A	51	40.584	-33.827	-41.897	1.00	0.00	C
ATOM	780	NZ	LYS	A	51	41.147	-32.528	-41.462	1.00	0.00	N
ATOM	781	H	LYS	A	51	35.676	-31.791	-42.433	1.00	0.00	H

ATOM	782	HA	LYS	A	51	36.151	-34.327	-43.963	1.00	0.00	H
ATOM	783	HB2	LYS	A	51	37.837	-34.818	-42.235	1.00	0.00	H
ATOM	784	HB3	LYS	A	51	37.507	-33.281	-41.438	1.00	0.00	H
ATOM	785	HG2	LYS	A	51	38.194	-33.133	-44.350	1.00	0.00	H
ATOM	786	HG3	LYS	A	51	38.639	-32.045	-43.031	1.00	0.00	H
ATOM	787	HD2	LYS	A	51	39.821	-34.788	-43.650	1.00	0.00	H
ATOM	788	HD3	LYS	A	51	40.608	-33.255	-43.981	1.00	0.00	H
ATOM	789	HE2	LYS	A	51	39.834	-34.160	-41.172	1.00	0.00	H
ATOM	790	HE3	LYS	A	51	41.379	-34.578	-41.904	1.00	0.00	H
ATOM	791	HZ1	LYS	A	51	42.028	-32.307	-41.901	1.00	0.00	H
ATOM	792	HZ2	LYS	A	51	40.487	-31.776	-41.593	1.00	0.00	H
ATOM	793	HZ3	LYS	A	51	41.281	-32.563	-40.443	1.00	0.00	H
ATOM	794	N	GLN	A	52	34.765	-34.202	-40.970	1.00	0.00	N
ATOM	795	CA	GLN	A	52	33.913	-34.935	-40.026	1.00	0.00	C
ATOM	796	C	GLN	A	52	33.124	-33.981	-39.118	1.00	0.00	C
ATOM	797	O	GLN	A	52	33.687	-33.060	-38.532	1.00	0.00	O
ATOM	798	CB	GLN	A	52	34.737	-35.946	-39.201	1.00	0.00	C
ATOM	799	CG	GLN	A	52	35.890	-35.327	-38.396	1.00	0.00	C
ATOM	800	CD	GLN	A	52	36.834	-36.376	-37.825	1.00	0.00	C
ATOM	801	OE1	GLN	A	52	36.428	-37.393	-37.287	1.00	0.00	O
ATOM	802	NE2	GLN	A	52	38.126	-36.138	-37.865	1.00	0.00	N
ATOM	803	H	GLN	A	52	35.093	-33.285	-40.698	1.00	0.00	H
ATOM	804	HA	GLN	A	52	33.203	-35.526	-40.600	1.00	0.00	H
ATOM	805	HB2	GLN	A	52	35.154	-36.686	-39.886	1.00	0.00	H
ATOM	806	HB3	GLN	A	52	34.071	-36.470	-38.515	1.00	0.00	H
ATOM	807	HG2	GLN	A	52	36.468	-34.685	-39.054	1.00	0.00	H
ATOM	808	HG3	GLN	A	52	35.503	-34.722	-37.577	1.00	0.00	H
ATOM	809	HE21	GLN	A	52	38.475	-35.301	-38.343	1.00	0.00	H
ATOM	810	HE22	GLN	A	52	38.736	-36.845	-37.504	1.00	0.00	H
ATOM	811	N	ARG	A	53	31.837	-34.276	-38.908	1.00	0.00	N

ATOM	812	CA	ARG	A	53	31.103	-33.891	-37.696	1.00	0.00	C
ATOM	813	C	ARG	A	53	31.421	-34.950	-36.645	1.00	0.00	C
ATOM	814	O	ARG	A	53	31.179	-36.118	-36.926	1.00	0.00	O
ATOM	815	CB	ARG	A	53	29.593	-33.831	-38.012	1.00	0.00	C
ATOM	816	CG	ARG	A	53	28.643	-33.751	-36.794	1.00	0.00	C
ATOM	817	CD	ARG	A	53	28.634	-32.400	-36.071	1.00	0.00	C
ATOM	818	NE	ARG	A	53	28.074	-31.349	-36.937	1.00	0.00	N
ATOM	819	CZ	ARG	A	53	27.935	-30.070	-36.651	1.00	0.00	C
ATOM	820	NH1	ARG	A	53	27.457	-29.278	-37.555	1.00	0.00	N
ATOM	821	NH2	ARG	A	53	28.225	-29.537	-35.500	1.00	0.00	N
ATOM	822	H	ARG	A	53	31.490	-35.099	-39.380	1.00	0.00	H
ATOM	823	HA	ARG	A	53	31.443	-32.922	-37.336	1.00	0.00	H
ATOM	824	HB2	ARG	A	53	29.333	-34.730	-38.567	1.00	0.00	H
ATOM	825	HB3	ARG	A	53	29.404	-32.989	-38.678	1.00	0.00	H
ATOM	826	HG2	ARG	A	53	27.629	-33.950	-37.139	1.00	0.00	H
ATOM	827	HG3	ARG	A	53	28.891	-34.532	-36.077	1.00	0.00	H
ATOM	828	HD2	ARG	A	53	29.647	-32.139	-35.769	1.00	0.00	H
ATOM	829	HD3	ARG	A	53	28.023	-32.487	-35.170	1.00	0.00	H
ATOM	830	HE	ARG	A	53	27.794	-31.610	-37.868	1.00	0.00	H
ATOM	831	HH11	ARG	A	53	27.018	-29.651	-38.389	1.00	0.00	H
ATOM	832	HH12	ARG	A	53	27.295	-28.313	-37.259	1.00	0.00	H
ATOM	833	HH21	ARG	A	53	28.509	-30.102	-34.712	1.00	0.00	H
ATOM	834	HH22	ARG	A	53	28.038	-28.542	-35.384	1.00	0.00	H
ATOM	835	N	ILE	A	54	31.771	-34.554	-35.426	1.00	0.00	N
ATOM	836	CA	ILE	A	54	31.750	-35.456	-34.264	1.00	0.00	C
ATOM	837	C	ILE	A	54	30.752	-34.940	-33.232	1.00	0.00	C
ATOM	838	O	ILE	A	54	30.565	-33.728	-33.090	1.00	0.00	O
ATOM	839	CB	ILE	A	54	33.154	-35.736	-33.671	1.00	0.00	C
ATOM	840	CG1	ILE	A	54	33.655	-34.642	-32.699	1.00	0.00	C
ATOM	841	CG2	ILE	A	54	34.173	-36.033	-34.788	1.00	0.00	C

ATOM	842	CD1	ILE A 54	34.960	-35.011	-31.982	1.00	0.00	C
ATOM	843	H	ILE A 54	31.884	-33.560	-35.253	1.00	0.00	H
ATOM	844	HA	ILE A 54	31.375	-36.428	-34.589	1.00	0.00	H
ATOM	845	HB	ILE A 54	33.054	-36.652	-33.084	1.00	0.00	H
ATOM	846	HG12	ILE A 54	32.912	-34.477	-31.918	1.00	0.00	H
ATOM	847	HG13	ILE A 54	33.786	-33.706	-33.240	1.00	0.00	H
ATOM	848	HG21	ILE A 54	35.075	-36.482	-34.372	1.00	0.00	H
ATOM	849	HG22	ILE A 54	34.437	-35.118	-35.316	1.00	0.00	H
ATOM	850	HG23	ILE A 54	33.748	-36.747	-35.495	1.00	0.00	H
ATOM	851	HD11	ILE A 54	34.847	-35.971	-31.477	1.00	0.00	H
ATOM	852	HD12	ILE A 54	35.193	-34.251	-31.239	1.00	0.00	H
ATOM	853	HD13	ILE A 54	35.784	-35.068	-32.692	1.00	0.00	H
ATOM	854	N	ILE A 55	30.161	-35.864	-32.481	1.00	0.00	N
ATOM	855	CA	ILE A 55	29.270	-35.602	-31.349	1.00	0.00	C
ATOM	856	C	ILE A 55	29.651	-36.583	-30.237	1.00	0.00	C
ATOM	857	O	ILE A 55	29.774	-37.775	-30.503	1.00	0.00	O
ATOM	858	CB	ILE A 55	27.786	-35.752	-31.762	1.00	0.00	C
ATOM	859	CG1	ILE A 55	27.451	-35.005	-33.078	1.00	0.00	C
ATOM	860	CG2	ILE A 55	26.899	-35.273	-30.600	1.00	0.00	C
ATOM	861	CD1	ILE A 55	25.974	-35.032	-33.482	1.00	0.00	C
ATOM	862	H	ILE A 55	30.328	-36.843	-32.708	1.00	0.00	H
ATOM	863	HA	ILE A 55	29.433	-34.586	-30.993	1.00	0.00	H
ATOM	864	HB	ILE A 55	27.583	-36.813	-31.926	1.00	0.00	H
ATOM	865	HG12	ILE A 55	28.007	-35.468	-33.894	1.00	0.00	H
ATOM	866	HG13	ILE A 55	27.764	-33.965	-33.001	1.00	0.00	H
ATOM	867	HD11	ILE A 55	25.867	-34.639	-34.494	1.00	0.00	H
ATOM	868	HD12	ILE A 55	25.603	-36.054	-33.453	1.00	0.00	H
ATOM	869	HD13	ILE A 55	25.387	-34.411	-32.805	1.00	0.00	H
ATOM	870	HG21	ILE A 55	27.131	-35.822	-29.687	1.00	0.00	H
ATOM	871	HG22	ILE A 55	25.855	-35.461	-30.840	1.00	0.00	H



ATOM	872	HG23	ILE	A	55	27.050	-34.208	-30.425	1.00	0.00	H
ATOM	873	N	GLY	A	56	29.941	-36.108	-29.029	1.00	0.00	N
ATOM	874	CA	GLY	A	56	30.489	-36.947	-27.959	1.00	0.00	C
ATOM	875	C	GLY	A	56	30.115	-36.481	-26.558	1.00	0.00	C
ATOM	876	O	GLY	A	56	29.592	-35.380	-26.386	1.00	0.00	O
ATOM	877	H	GLY	A	56	29.799	-35.120	-28.836	1.00	0.00	H
ATOM	878	HA2	GLY	A	56	31.574	-36.976	-28.033	1.00	0.00	H
ATOM	879	HA3	GLY	A	56	30.113	-37.963	-28.070	1.00	0.00	H
ATOM	880	N	VAL	A	57	30.293	-37.367	-25.581	1.00	0.00	N
ATOM	881	CA	VAL	A	57	29.871	-37.190	-24.183	1.00	0.00	C
ATOM	882	C	VAL	A	57	30.884	-37.811	-23.218	1.00	0.00	C
ATOM	883	O	VAL	A	57	31.718	-38.636	-23.611	1.00	0.00	O
ATOM	884	CB	VAL	A	57	28.455	-37.762	-23.925	1.00	0.00	C
ATOM	885	CG1	VAL	A	57	27.394	-37.155	-24.847	1.00	0.00	C
ATOM	886	CG2	VAL	A	57	28.369	-39.280	-24.089	1.00	0.00	C
ATOM	887	H	VAL	A	57	30.743	-38.249	-25.813	1.00	0.00	H
ATOM	888	HA	VAL	A	57	29.846	-36.124	-23.967	1.00	0.00	H
ATOM	889	HB	VAL	A	57	28.169	-37.529	-22.898	1.00	0.00	H
ATOM	890	HG21	VAL	A	57	29.077	-39.771	-23.422	1.00	0.00	H
ATOM	891	HG22	VAL	A	57	27.368	-39.625	-23.831	1.00	0.00	H
ATOM	892	HG23	VAL	A	57	28.588	-39.545	-25.122	1.00	0.00	H
ATOM	893	HG11	VAL	A	57	27.337	-36.083	-24.677	1.00	0.00	H
ATOM	894	HG12	VAL	A	57	27.634	-37.345	-25.889	1.00	0.00	H
ATOM	895	HG13	VAL	A	57	26.430	-37.606	-24.636	1.00	0.00	H
ATOM	896	N	GLY	A	58	30.778	-37.455	-21.939	1.00	0.00	N
ATOM	897	CA	GLY	A	58	31.604	-38.039	-20.889	1.00	0.00	C
ATOM	898	C	GLY	A	58	31.428	-37.387	-19.522	1.00	0.00	C
ATOM	899	O	GLY	A	58	30.374	-36.828	-19.220	1.00	0.00	O
ATOM	900	H	GLY	A	58	30.100	-36.746	-21.679	1.00	0.00	H
ATOM	901	HA2	GLY	A	58	31.372	-39.098	-20.788	1.00	0.00	H

ATOM	902	HA3	GLY	A	58	32.642	-37.944	-21.189	1.00	0.00	H
ATOM	903	N	GLU	A	59	32.484	-37.431	-18.709	1.00	0.00	N
ATOM	904	CA	GLU	A	59	32.478	-37.059	-17.286	1.00	0.00	C
ATOM	905	C	GLU	A	59	33.516	-35.947	-16.996	1.00	0.00	C
ATOM	906	O	GLU	A	59	34.571	-35.895	-17.633	1.00	0.00	O
ATOM	907	CB	GLU	A	59	32.691	-38.324	-16.420	1.00	0.00	C
ATOM	908	CG	GLU	A	59	31.831	-39.527	-16.879	1.00	0.00	C
ATOM	909	CD	GLU	A	59	31.691	-40.658	-15.847	1.00	0.00	C
ATOM	910	OE1	GLU	A	59	32.668	-40.913	-15.109	1.00	0.00	O
ATOM	911	OE2	GLU	A	59	30.652	-41.363	-15.901	1.00	0.00	O
ATOM	912	H	GLU	A	59	33.330	-37.866	-19.064	1.00	0.00	H
ATOM	913	HA	GLU	A	59	31.497	-36.661	-17.025	1.00	0.00	H
ATOM	914	HB2	GLU	A	59	33.742	-38.614	-16.457	1.00	0.00	H
ATOM	915	HB3	GLU	A	59	32.436	-38.072	-15.390	1.00	0.00	H
ATOM	916	HG2	GLU	A	59	30.836	-39.163	-17.128	1.00	0.00	H
ATOM	917	HG3	GLU	A	59	32.264	-39.943	-17.792	1.00	0.00	H
ATOM	918	N	VAL	A	60	33.189	-34.980	-16.124	1.00	0.00	N
ATOM	919	CA	VAL	A	60	33.978	-33.742	-15.898	1.00	0.00	C
ATOM	920	C	VAL	A	60	34.874	-33.844	-14.647	1.00	0.00	C
ATOM	921	O	VAL	A	60	34.716	-33.103	-13.677	1.00	0.00	O
ATOM	922	CB	VAL	A	60	33.088	-32.474	-15.905	1.00	0.00	C
ATOM	923	CG1	VAL	A	60	33.923	-31.183	-15.995	1.00	0.00	C
ATOM	924	CG2	VAL	A	60	32.144	-32.432	-17.114	1.00	0.00	C
ATOM	925	H	VAL	A	60	32.287	-35.044	-15.658	1.00	0.00	H
ATOM	926	HA	VAL	A	60	34.658	-33.630	-16.740	1.00	0.00	H
ATOM	927	HB	VAL	A	60	32.481	-32.447	-14.999	1.00	0.00	H
ATOM	928	HG11	VAL	A	60	33.262	-30.317	-16.001	1.00	0.00	H
ATOM	929	HG12	VAL	A	60	34.526	-31.188	-16.903	1.00	0.00	H
ATOM	930	HG13	VAL	A	60	34.583	-31.098	-15.135	1.00	0.00	H
ATOM	931	HG21	VAL	A	60	31.554	-31.515	-17.093	1.00	0.00	H

ATOM	932	HG22 VAL A	60	32.724	-32.465	-18.036	1.00	0.00	H
ATOM	933	HG23 VAL A	60	31.452	-33.273	-17.087	1.00	0.00	H
ATOM	934	N LEU A	61	35.668	-34.914	-14.577	1.00	0.00	N
ATOM	935	CA LEU A	61	36.376	-35.344	-13.362	1.00	0.00	C
ATOM	936	C LEU A	61	37.560	-34.429	-12.982	1.00	0.00	C
ATOM	937	O LEU A	61	38.222	-33.833	-13.839	1.00	0.00	O
ATOM	938	CB LEU A	61	36.828	-36.815	-13.502	1.00	0.00	C
ATOM	939	CG LEU A	61	35.766	-37.806	-14.024	1.00	0.00	C
ATOM	940	CD1 LEU A	61	36.388	-39.192	-14.190	1.00	0.00	C
ATOM	941	CD2 LEU A	61	34.568	-37.915	-13.081	1.00	0.00	C
ATOM	942	H LEU A	61	35.735	-35.486	-15.405	1.00	0.00	H
ATOM	943	HA LEU A	61	35.664	-35.294	-12.536	1.00	0.00	H
ATOM	944	HB2 LEU A	61	37.679	-36.846	-14.176	1.00	0.00	H
ATOM	945	HB3 LEU A	61	37.179	-37.160	-12.528	1.00	0.00	H
ATOM	946	HG LEU A	61	35.416	-37.483	-15.004	1.00	0.00	H
ATOM	947	HD11 LEU A	61	35.634	-39.879	-14.583	1.00	0.00	H
ATOM	948	HD12 LEU A	61	36.743	-39.563	-13.230	1.00	0.00	H
ATOM	949	HD13 LEU A	61	37.217	-39.142	-14.896	1.00	0.00	H
ATOM	950	HD21 LEU A	61	34.899	-38.199	-12.083	1.00	0.00	H
ATOM	951	HD22 LEU A	61	34.039	-36.964	-13.037	1.00	0.00	H
ATOM	952	HD23 LEU A	61	33.879	-38.676	-13.455	1.00	0.00	H
ATOM	953	N ASP A	62	37.947	-34.452	-11.706	1.00	0.00	N
ATOM	954	CA ASP A	62	39.197	-33.879	-11.194	1.00	0.00	C
ATOM	955	C ASP A	62	40.246	-34.977	-10.893	1.00	0.00	C
ATOM	956	O ASP A	62	40.281	-36.019	-11.554	1.00	0.00	O
ATOM	957	CB ASP A	62	38.898	-32.980	-9.981	1.00	0.00	C
ATOM	958	CG ASP A	62	38.368	-33.705	-8.737	1.00	0.00	C
ATOM	959	OD1 ASP A	62	38.344	-33.038	-7.682	1.00	0.00	O
ATOM	960	OD2 ASP A	62	38.142	-34.932	-8.817	1.00	0.00	O
ATOM	961	H ASP A	62	37.426	-35.013	-11.041	1.00	0.00	H

ATOM	962	HA	ASP	A	62	39.624	-33.219	-11.941	1.00	0.00	H
ATOM	963	HB2	ASP	A	62	39.807	-32.441	-9.713	1.00	0.00	H
ATOM	964	HB3	ASP	A	62	38.176	-32.227	-10.297	1.00	0.00	H
ATOM	965	N	ARG	A	63	41.282	-34.592	-10.139	1.00	0.00	N
ATOM	966	CA	ARG	A	63	42.199	-35.449	-9.365	1.00	0.00	C
ATOM	967	C	ARG	A	63	42.535	-34.676	-8.076	1.00	0.00	C
ATOM	968	O	ARG	A	63	42.035	-33.574	-7.877	1.00	0.00	O
ATOM	969	CB	ARG	A	63	43.478	-35.822	-10.155	1.00	0.00	C
ATOM	970	CG	ARG	A	63	43.325	-36.720	-11.398	1.00	0.00	C
ATOM	971	CD	ARG	A	63	43.109	-36.074	-12.781	1.00	0.00	C
ATOM	972	NE	ARG	A	63	43.115	-34.596	-12.795	1.00	0.00	N
ATOM	973	CZ	ARG	A	63	42.185	-33.804	-13.287	1.00	0.00	C
ATOM	974	NH1	ARG	A	63	41.069	-34.260	-13.779	1.00	0.00	N
ATOM	975	NH2	ARG	A	63	42.342	-32.523	-13.233	1.00	0.00	N
ATOM	976	H	ARG	A	63	41.182	-33.660	-9.752	1.00	0.00	H
ATOM	977	HA	ARG	A	63	41.664	-36.357	-9.078	1.00	0.00	H
ATOM	978	HB2	ARG	A	63	44.113	-36.398	-9.481	1.00	0.00	H
ATOM	979	HB3	ARG	A	63	44.040	-34.925	-10.398	1.00	0.00	H
ATOM	980	HG2	ARG	A	63	44.245	-37.302	-11.479	1.00	0.00	H
ATOM	981	HG3	ARG	A	63	42.528	-37.440	-11.216	1.00	0.00	H
ATOM	982	HD2	ARG	A	63	42.175	-36.461	-13.186	1.00	0.00	H
ATOM	983	HD3	ARG	A	63	43.903	-36.420	-13.445	1.00	0.00	H
ATOM	984	HE	ARG	A	63	43.900	-34.109	-12.353	1.00	0.00	H
ATOM	985	HH11	ARG	A	63	40.810	-35.185	-13.468	1.00	0.00	H
ATOM	986	HH12	ARG	A	63	40.301	-33.623	-13.952	1.00	0.00	H
ATOM	987	HH21	ARG	A	63	43.032	-32.184	-12.557	1.00	0.00	H
ATOM	988	HH22	ARG	A	63	41.523	-31.932	-13.333	1.00	0.00	H
ATOM	989	N	GLY	A	64	43.596	-35.063	-7.362	1.00	0.00	N
ATOM	990	CA	GLY	A	64	44.177	-34.264	-6.269	1.00	0.00	C
ATOM	991	C	GLY	A	64	44.691	-32.858	-6.646	1.00	0.00	C

ATOM	992	O	GLY A 64	44.932	-32.060	-5.744	1.00	0.00	O
ATOM	993	H	GLY A 64	44.027	-35.941	-7.599	1.00	0.00	H
ATOM	994	HA2	GLY A 64	43.419	-34.136	-5.494	1.00	0.00	H
ATOM	995	HA3	GLY A 64	45.013	-34.813	-5.838	1.00	0.00	H
ATOM	996	N	ASP A 65	44.792	-32.517	-7.939	1.00	0.00	N
ATOM	997	CA	ASP A 65	45.024	-31.142	-8.429	1.00	0.00	C
ATOM	998	C	ASP A 65	43.776	-30.227	-8.348	1.00	0.00	C
ATOM	999	O	ASP A 65	43.903	-28.999	-8.368	1.00	0.00	O
ATOM	1000	CB	ASP A 65	45.556	-31.212	-9.873	1.00	0.00	C
ATOM	1001	CG	ASP A 65	44.576	-31.843	-10.870	1.00	0.00	C
ATOM	1002	OD1	ASP A 65	44.908	-32.874	-11.493	1.00	0.00	O
ATOM	1003	OD2	ASP A 65	43.435	-31.355	-11.002	1.00	0.00	O
ATOM	1004	H	ASP A 65	44.545	-33.209	-8.628	1.00	0.00	H
ATOM	1005	HA	ASP A 65	45.793	-30.680	-7.810	1.00	0.00	H
ATOM	1006	HB2	ASP A 65	45.792	-30.201	-10.209	1.00	0.00	H
ATOM	1007	HB3	ASP A 65	46.486	-31.785	-9.872	1.00	0.00	H
ATOM	1008	N	LYS A 66	42.592	-30.831	-8.185	1.00	0.00	N
ATOM	1009	CA	LYS A 66	41.267	-30.221	-7.978	1.00	0.00	C
ATOM	1010	C	LYS A 66	40.803	-29.293	-9.107	1.00	0.00	C
ATOM	1011	O	LYS A 66	40.002	-28.384	-8.881	1.00	0.00	O
ATOM	1012	CB	LYS A 66	41.139	-29.639	-6.559	1.00	0.00	C
ATOM	1013	CG	LYS A 66	41.758	-30.592	-5.520	1.00	0.00	C
ATOM	1014	CD	LYS A 66	41.206	-30.392	-4.115	1.00	0.00	C
ATOM	1015	CE	LYS A 66	41.977	-31.308	-3.158	1.00	0.00	C
ATOM	1016	NZ	LYS A 66	41.169	-31.616	-1.960	1.00	0.00	N
ATOM	1017	H	LYS A 66	42.608	-31.843	-8.160	1.00	0.00	H
ATOM	1018	HA	LYS A 66	40.554	-31.049	-8.011	1.00	0.00	H
ATOM	1019	HB2	LYS A 66	41.645	-28.672	-6.506	1.00	0.00	H
ATOM	1020	HB3	LYS A 66	40.081	-29.492	-6.341	1.00	0.00	H
ATOM	1021	HG2	LYS A 66	42.837	-30.439	-5.503	1.00	0.00	H

ATOM	1022	HG3	LYS	A	66	41.551	-31.625	-5.808	1.00	0.00	H
ATOM	1023	HD2	LYS	A	66	41.310	-29.351	-3.806	1.00	0.00	H
ATOM	1024	HD3	LYS	A	66	40.148	-30.660	-4.137	1.00	0.00	H
ATOM	1025	HE2	LYS	A	66	42.910	-30.813	-2.883	1.00	0.00	H
ATOM	1026	HE3	LYS	A	66	42.221	-32.236	-3.679	1.00	0.00	H
ATOM	1027	HZ1	LYS	A	66	41.682	-31.991	-1.183	1.00	0.00	H
ATOM	1028	HZ2	LYS	A	66	40.404	-32.260	-2.193	1.00	0.00	H
ATOM	1029	HZ3	LYS	A	66	40.584	-30.823	-1.686	1.00	0.00	H
ATOM	1030	N	VAL	A	67	41.310	-29.508	-10.324	1.00	0.00	N
ATOM	1031	CA	VAL	A	67	40.852	-28.860	-11.563	1.00	0.00	C
ATOM	1032	C	VAL	A	67	39.850	-29.779	-12.285	1.00	0.00	C
ATOM	1033	O	VAL	A	67	40.228	-30.898	-12.642	1.00	0.00	O
ATOM	1034	CB	VAL	A	67	42.044	-28.531	-12.488	1.00	0.00	C
ATOM	1035	CG1	VAL	A	67	41.593	-27.774	-13.744	1.00	0.00	C
ATOM	1036	CG2	VAL	A	67	43.100	-27.665	-11.783	1.00	0.00	C
ATOM	1037	H	VAL	A	67	42.002	-30.252	-10.416	1.00	0.00	H
ATOM	1038	HA	VAL	A	67	40.371	-27.920	-11.307	1.00	0.00	H
ATOM	1039	HB	VAL	A	67	42.526	-29.456	-12.803	1.00	0.00	H
ATOM	1040	HG11	VAL	A	67	42.458	-27.519	-14.357	1.00	0.00	H
ATOM	1041	HG12	VAL	A	67	41.057	-26.866	-13.470	1.00	0.00	H
ATOM	1042	HG13	VAL	A	67	40.941	-28.408	-14.345	1.00	0.00	H
ATOM	1043	HG21	VAL	A	67	43.904	-27.427	-12.479	1.00	0.00	H
ATOM	1044	HG22	VAL	A	67	42.645	-26.752	-11.404	1.00	0.00	H
ATOM	1045	HG23	VAL	A	67	43.532	-28.223	-10.949	1.00	0.00	H
ATOM	1046	N	PRO	A	68	38.633	-29.325	-12.636	1.00	0.00	N
ATOM	1047	CA	PRO	A	68	37.737	-30.098	-13.493	1.00	0.00	C
ATOM	1048	C	PRO	A	68	38.318	-30.227	-14.910	1.00	0.00	C
ATOM	1049	O	PRO	A	68	38.679	-29.220	-15.524	1.00	0.00	O
ATOM	1050	CB	PRO	A	68	36.395	-29.355	-13.495	1.00	0.00	C
ATOM	1051	CG	PRO	A	68	36.513	-28.293	-12.401	1.00	0.00	C

ATOM	1052	CD	PRO A	68	38.013	-28.077	-12.239	1.00	0.00	C
ATOM	1053	HA	PRO A	68	37.596	-31.090	-13.062	1.00	0.00	H
ATOM	1054	HB2	PRO A	68	36.233	-28.867	-14.455	1.00	0.00	H
ATOM	1055	HB3	PRO A	68	35.575	-30.041	-13.282	1.00	0.00	H
ATOM	1056	HG2	PRO A	68	36.099	-28.678	-11.470	1.00	0.00	H
ATOM	1057	HG3	PRO A	68	36.007	-27.370	-12.685	1.00	0.00	H
ATOM	1058	HD2	PRO A	68	38.237	-27.834	-11.201	1.00	0.00	H
ATOM	1059	HD3	PRO A	68	38.350	-27.280	-12.904	1.00	0.00	H
ATOM	1060	N	SER A	69	38.291	-31.436	-15.468	1.00	0.00	N
ATOM	1061	CA	SER A	69	38.810	-31.764	-16.805	1.00	0.00	C
ATOM	1062	C	SER A	69	37.825	-32.657	-17.558	1.00	0.00	C
ATOM	1063	O	SER A	69	37.126	-33.456	-16.944	1.00	0.00	O
ATOM	1064	CB	SER A	69	40.164	-32.477	-16.705	1.00	0.00	C
ATOM	1065	OG	SER A	69	41.124	-31.676	-16.042	1.00	0.00	O
ATOM	1066	H	SER A	69	37.953	-32.215	-14.909	1.00	0.00	H
ATOM	1067	HA	SER A	69	38.953	-30.846	-17.375	1.00	0.00	H
ATOM	1068	HB2	SER A	69	40.033	-33.410	-16.159	1.00	0.00	H
ATOM	1069	HB3	SER A	69	40.525	-32.711	-17.708	1.00	0.00	H
ATOM	1070	HG	SER A	69	41.895	-32.215	-15.835	1.00	0.00	H
ATOM	1071	N	MET A	70	37.794	-32.584	-18.893	1.00	0.00	N
ATOM	1072	CA	MET A	70	36.953	-33.487	-19.689	1.00	0.00	C
ATOM	1073	C	MET A	70	37.548	-34.907	-19.730	1.00	0.00	C
ATOM	1074	O	MET A	70	38.711	-35.080	-20.102	1.00	0.00	O
ATOM	1075	CB	MET A	70	36.684	-32.908	-21.096	1.00	0.00	C
ATOM	1076	CG	MET A	70	37.801	-33.133	-22.127	1.00	0.00	C
ATOM	1077	SD	MET A	70	37.475	-32.468	-23.780	1.00	0.00	S
ATOM	1078	CE	MET A	70	38.727	-33.401	-24.703	1.00	0.00	C
ATOM	1079	H	MET A	70	38.431	-31.965	-19.371	1.00	0.00	H
ATOM	1080	HA	MET A	70	35.984	-33.556	-19.189	1.00	0.00	H
ATOM	1081	HB2	MET A	70	35.782	-33.380	-21.485	1.00	0.00	H

ATOM	1082	HB3 MET A 70	36.486	-31.840	-21.012	1.00	0.00	H
ATOM	1083	HG2 MET A 70	37.941	-34.206	-22.247	1.00	0.00	H
ATOM	1084	HG3 MET A 70	38.733	-32.706	-21.750	1.00	0.00	H
ATOM	1085	HE1 MET A 70	38.688	-33.121	-25.755	1.00	0.00	H
ATOM	1086	HE2 MET A 70	38.528	-34.469	-24.609	1.00	0.00	H
ATOM	1087	HE3 MET A 70	39.718	-33.184	-24.303	1.00	0.00	H
ATOM	1088	N PHE A 71	36.694	-35.919	-19.593	1.00	0.00	N
ATOM	1089	CA PHE A 71	36.996	-37.318	-19.900	1.00	0.00	C
ATOM	1090	C PHE A 71	35.923	-37.860	-20.845	1.00	0.00	C
ATOM	1091	O PHE A 71	34.844	-38.256	-20.410	1.00	0.00	O
ATOM	1092	CB PHE A 71	37.115	-38.135	-18.601	1.00	0.00	C
ATOM	1093	CG PHE A 71	38.319	-37.751	-17.761	1.00	0.00	C
ATOM	1094	CD1 PHE A 71	39.526	-38.465	-17.878	1.00	0.00	C
ATOM	1095	CD2 PHE A 71	38.246	-36.649	-16.892	1.00	0.00	C
ATOM	1096	CE1 PHE A 71	40.654	-38.077	-17.131	1.00	0.00	C
ATOM	1097	CE2 PHE A 71	39.374	-36.256	-16.155	1.00	0.00	C
ATOM	1098	CZ PHE A 71	40.578	-36.968	-16.270	1.00	0.00	C
ATOM	1099	H PHE A 71	35.799	-35.736	-19.144	1.00	0.00	H
ATOM	1100	HA PHE A 71	37.956	-37.389	-20.412	1.00	0.00	H
ATOM	1101	HB2 PHE A 71	37.194	-39.193	-18.858	1.00	0.00	H
ATOM	1102	HB3 PHE A 71	36.209	-38.014	-18.006	1.00	0.00	H
ATOM	1103	HD1 PHE A 71	39.590	-39.311	-18.546	1.00	0.00	H
ATOM	1104	HD2 PHE A 71	37.322	-36.093	-16.800	1.00	0.00	H
ATOM	1105	HE1 PHE A 71	41.578	-38.629	-17.223	1.00	0.00	H
ATOM	1106	HE2 PHE A 71	39.297	-35.410	-15.492	1.00	0.00	H
ATOM	1107	HZ PHE A 71	41.444	-36.666	-15.698	1.00	0.00	H
ATOM	1108	N MET A 72	36.182	-37.772	-22.156	1.00	0.00	N
ATOM	1109	CA MET A 72	35.320	-38.366	-23.189	1.00	0.00	C
ATOM	1110	C MET A 72	35.211	-39.877	-22.971	1.00	0.00	C
ATOM	1111	O MET A 72	36.225	-40.572	-22.988	1.00	0.00	O



ATOM	1112	CB	MET A 72	35.903	-38.118	-24.591	1.00	0.00	C
ATOM	1113	CG	MET A 72	35.610	-36.727	-25.155	1.00	0.00	C
ATOM	1114	SD	MET A 72	33.900	-36.526	-25.726	1.00	0.00	S
ATOM	1115	CE	MET A 72	34.105	-35.118	-26.845	1.00	0.00	C
ATOM	1116	H	MET A 72	37.090	-37.441	-22.432	1.00	0.00	H
ATOM	1117	HA	MET A 72	34.319	-37.937	-23.128	1.00	0.00	H
ATOM	1118	HB2	MET A 72	35.486	-38.850	-25.286	1.00	0.00	H
ATOM	1119	HB3	MET A 72	36.983	-38.271	-24.559	1.00	0.00	H
ATOM	1120	HG2	MET A 72	35.848	-35.962	-24.415	1.00	0.00	H
ATOM	1121	HG3	MET A 72	36.267	-36.581	-26.012	1.00	0.00	H
ATOM	1122	HE1	MET A 72	33.158	-34.925	-27.345	1.00	0.00	H
ATOM	1123	HE2	MET A 72	34.410	-34.236	-26.281	1.00	0.00	H
ATOM	1124	HE3	MET A 72	34.861	-35.352	-27.596	1.00	0.00	H
ATOM	1125	N	THR A 73	33.985	-40.388	-22.892	1.00	0.00	N
ATOM	1126	CA	THR A 73	33.703	-41.828	-22.770	1.00	0.00	C
ATOM	1127	C	THR A 73	33.118	-42.423	-24.053	1.00	0.00	C
ATOM	1128	O	THR A 73	33.195	-43.634	-24.259	1.00	0.00	O
ATOM	1129	CB	THR A 73	32.724	-42.089	-21.619	1.00	0.00	C
ATOM	1130	OG1	THR A 73	31.494	-41.478	-21.922	1.00	0.00	O
ATOM	1131	CG2	THR A 73	33.207	-41.549	-20.275	1.00	0.00	C
ATOM	1132	H	THR A 73	33.187	-39.756	-22.898	1.00	0.00	H
ATOM	1133	HA	THR A 73	34.624	-42.369	-22.551	1.00	0.00	H
ATOM	1134	HB	THR A 73	32.587	-43.168	-21.532	1.00	0.00	H
ATOM	1135	HG1	THR A 73	30.965	-41.424	-21.101	1.00	0.00	H
ATOM	1136	HG21	THR A 73	34.183	-41.972	-20.046	1.00	0.00	H
ATOM	1137	HG22	THR A 73	32.517	-41.855	-19.491	1.00	0.00	H
ATOM	1138	HG23	THR A 73	33.283	-40.460	-20.285	1.00	0.00	H
ATOM	1139	N	ASN A 74	32.483	-41.597	-24.893	1.00	0.00	N
ATOM	1140	CA	ASN A 74	31.578	-42.048	-25.945	1.00	0.00	C
ATOM	1141	C	ASN A 74	31.463	-40.993	-27.060	1.00	0.00	C

ATOM	1142	O	ASN A 74	31.212	-39.822	-26.778	1.00	0.00	O
ATOM	1143	CB	ASN A 74	30.227	-42.298	-25.260	1.00	0.00	C
ATOM	1144	CG	ASN A 74	29.172	-42.951	-26.120	1.00	0.00	C
ATOM	1145	OD1	ASN A 74	29.389	-43.366	-27.247	1.00	0.00	O
ATOM	1146	ND2	ASN A 74	28.011	-43.150	-25.556	1.00	0.00	N
ATOM	1147	H	ASN A 74	32.390	-40.631	-24.598	1.00	0.00	H
ATOM	1148	HA	ASN A 74	31.949	-42.983	-26.369	1.00	0.00	H
ATOM	1149	HB2	ASN A 74	30.367	-42.925	-24.384	1.00	0.00	H
ATOM	1150	HB3	ASN A 74	29.841	-41.352	-24.901	1.00	0.00	H
ATOM	1151	HD21	ASN A 74	27.888	-42.863	-24.588	1.00	0.00	H
ATOM	1152	HD22	ASN A 74	27.297	-43.655	-26.062	1.00	0.00	H
ATOM	1153	N	VAL A 75	31.651	-41.390	-28.325	1.00	0.00	N
ATOM	1154	CA	VAL A 75	31.692	-40.484	-29.489	1.00	0.00	C
ATOM	1155	C	VAL A 75	31.021	-41.130	-30.705	1.00	0.00	C
ATOM	1156	O	VAL A 75	31.187	-42.324	-30.954	1.00	0.00	O
ATOM	1157	CB	VAL A 75	33.138	-40.041	-29.824	1.00	0.00	C
ATOM	1158	CG1	VAL A 75	33.187	-39.020	-30.972	1.00	0.00	C
ATOM	1159	CG2	VAL A 75	33.861	-39.399	-28.628	1.00	0.00	C
ATOM	1160	H	VAL A 75	31.775	-42.376	-28.507	1.00	0.00	H
ATOM	1161	HA	VAL A 75	31.122	-39.589	-29.247	1.00	0.00	H
ATOM	1162	HB	VAL A 75	33.709	-40.920	-30.126	1.00	0.00	H
ATOM	1163	HG11	VAL A 75	34.213	-38.694	-31.137	1.00	0.00	H
ATOM	1164	HG12	VAL A 75	32.835	-39.471	-31.899	1.00	0.00	H
ATOM	1165	HG13	VAL A 75	32.569	-38.154	-30.731	1.00	0.00	H
ATOM	1166	HG21	VAL A 75	34.853	-39.060	-28.926	1.00	0.00	H
ATOM	1167	HG22	VAL A 75	33.289	-38.551	-28.251	1.00	0.00	H
ATOM	1168	HG23	VAL A 75	33.989	-40.127	-27.828	1.00	0.00	H
ATOM	1169	N	TRP A 76	30.305	-40.329	-31.493	1.00	0.00	N
ATOM	1170	CA	TRP A 76	29.620	-40.710	-32.727	1.00	0.00	C
ATOM	1171	C	TRP A 76	29.911	-39.713	-33.860	1.00	0.00	C

ATOM	1172	O	TRP A 76	30.058	-38.510	-33.629	1.00	0.00	O
ATOM	1173	CB	TRP A 76	28.120	-40.845	-32.440	1.00	0.00	C
ATOM	1174	CG	TRP A 76	27.261	-41.178	-33.622	1.00	0.00	C
ATOM	1175	CD1	TRP A 76	27.079	-42.417	-34.126	1.00	0.00	C
ATOM	1176	CD2	TRP A 76	26.498	-40.280	-34.488	1.00	0.00	C
ATOM	1177	NE1	TRP A 76	26.255	-42.355	-35.232	1.00	0.00	N
ATOM	1178	CE2	TRP A 76	25.853	-41.063	-35.492	1.00	0.00	C
ATOM	1179	CE3	TRP A 76	26.269	-38.888	-34.515	1.00	0.00	C
ATOM	1180	CZ2	TRP A 76	25.015	-40.499	-36.466	1.00	0.00	C
ATOM	1181	CZ3	TRP A 76	25.418	-38.312	-35.478	1.00	0.00	C
ATOM	1182	CH2	TRP A 76	24.795	-39.112	-36.454	1.00	0.00	C
ATOM	1183	H	TRP A 76	30.218	-39.356	-31.219	1.00	0.00	H
ATOM	1184	HA	TRP A 76	29.987	-41.684	-33.050	1.00	0.00	H
ATOM	1185	HB2	TRP A 76	27.979	-41.617	-31.683	1.00	0.00	H
ATOM	1186	HB3	TRP A 76	27.763	-39.905	-32.017	1.00	0.00	H
ATOM	1187	HD1	TRP A 76	27.517	-43.322	-33.716	1.00	0.00	H
ATOM	1188	HE3	TRP A 76	26.745	-38.267	-33.771	1.00	0.00	H
ATOM	1189	HZ2	TRP A 76	24.538	-41.127	-37.203	1.00	0.00	H
ATOM	1190	HZ3	TRP A 76	25.234	-37.247	-35.465	1.00	0.00	H
ATOM	1191	HH2	TRP A 76	24.147	-38.660	-37.192	1.00	0.00	H
ATOM	1192	HE1	TRP A 76	26.002	-43.167	-35.775	1.00	0.00	H
ATOM	1193	N	THR A 77	29.888	-40.215	-35.096	1.00	0.00	N
ATOM	1194	CA	THR A 77	30.163	-39.469	-36.333	1.00	0.00	C
ATOM	1195	C	THR A 77	29.091	-39.823	-37.373	1.00	0.00	C
ATOM	1196	O	THR A 77	28.882	-41.013	-37.620	1.00	0.00	O
ATOM	1197	CB	THR A 77	31.572	-39.809	-36.853	1.00	0.00	C
ATOM	1198	OG1	THR A 77	32.533	-39.288	-35.964	1.00	0.00	O
ATOM	1199	CG2	THR A 77	31.900	-39.246	-38.236	1.00	0.00	C
ATOM	1200	H	THR A 77	29.656	-41.191	-35.202	1.00	0.00	H
ATOM	1201	HA	THR A 77	30.150	-38.404	-36.123	1.00	0.00	H

ATOM	1202	HB	THR	A	77	31.685	-40.894	-36.892	1.00	0.00	H
ATOM	1203	HG1	THR	A	77	33.399	-39.394	-36.366	1.00	0.00	H
ATOM	1204	HG21	THR	A	77	32.943	-39.449	-38.479	1.00	0.00	H
ATOM	1205	HG22	THR	A	77	31.275	-39.723	-38.991	1.00	0.00	H
ATOM	1206	HG23	THR	A	77	31.731	-38.172	-38.257	1.00	0.00	H
ATOM	1207	N	PRO	A	78	28.410	-38.850	-38.013	1.00	0.00	N
ATOM	1208	CA	PRO	A	78	27.413	-39.143	-39.041	1.00	0.00	C
ATOM	1209	C	PRO	A	78	28.034	-39.780	-40.298	1.00	0.00	C
ATOM	1210	O	PRO	A	78	29.108	-39.345	-40.715	1.00	0.00	O
ATOM	1211	CB	PRO	A	78	26.752	-37.807	-39.395	1.00	0.00	C
ATOM	1212	CG	PRO	A	78	27.151	-36.851	-38.277	1.00	0.00	C
ATOM	1213	CD	PRO	A	78	28.472	-37.420	-37.769	1.00	0.00	C
ATOM	1214	HA	PRO	A	78	26.674	-39.813	-38.604	1.00	0.00	H
ATOM	1215	HB2	PRO	A	78	25.669	-37.904	-39.471	1.00	0.00	H
ATOM	1216	HB3	PRO	A	78	27.160	-37.431	-40.330	1.00	0.00	H
ATOM	1217	HG2	PRO	A	78	27.265	-35.834	-38.650	1.00	0.00	H
ATOM	1218	HG3	PRO	A	78	26.407	-36.877	-37.485	1.00	0.00	H
ATOM	1219	HD2	PRO	A	78	28.585	-37.186	-36.710	1.00	0.00	H
ATOM	1220	HD3	PRO	A	78	29.297	-37.007	-38.348	1.00	0.00	H
ATOM	1221	N	PRO	A	79	27.249	-40.545	-41.085	1.00	0.00	N
ATOM	1222	CA	PRO	A	79	27.665	-41.049	-42.401	1.00	0.00	C
ATOM	1223	C	PRO	A	79	27.792	-39.964	-43.491	1.00	0.00	C
ATOM	1224	O	PRO	A	79	28.243	-40.258	-44.595	1.00	0.00	O
ATOM	1225	CB	PRO	A	79	26.621	-42.110	-42.768	1.00	0.00	C
ATOM	1226	CG	PRO	A	79	25.361	-41.621	-42.057	1.00	0.00	C
ATOM	1227	CD	PRO	A	79	25.912	-41.025	-40.763	1.00	0.00	C
ATOM	1228	HA	PRO	A	79	28.640	-41.531	-42.310	1.00	0.00	H
ATOM	1229	HB2	PRO	A	79	26.923	-43.072	-42.351	1.00	0.00	H
ATOM	1230	HB3	PRO	A	79	26.472	-42.197	-43.845	1.00	0.00	H
ATOM	1231	HG2	PRO	A	79	24.884	-40.839	-42.649	1.00	0.00	H

ATOM	1232	HG3 PRO A	79	24.663	-42.437	-41.861	1.00	0.00	H
ATOM	1233	HD2 PRO A	79	25.984	-41.802	-39.999	1.00	0.00	H
ATOM	1234	HD3 PRO A	79	25.264	-40.218	-40.419	1.00	0.00	H
ATOM	1235	N ASN A	80	27.436	-38.707	-43.199	1.00	0.00	N
ATOM	1236	CA ASN A	80	27.847	-37.546	-43.987	1.00	0.00	C
ATOM	1237	C ASN A	80	28.017	-36.308	-43.075	1.00	0.00	C
ATOM	1238	O ASN A	80	27.078	-35.952	-42.360	1.00	0.00	O
ATOM	1239	CB ASN A	80	26.834	-37.295	-45.115	1.00	0.00	C
ATOM	1240	CG ASN A	80	27.359	-36.266	-46.097	1.00	0.00	C
ATOM	1241	OD1 ASN A	80	27.651	-35.133	-45.750	1.00	0.00	O
ATOM	1242	ND2 ASN A	80	27.756	-36.689	-47.273	1.00	0.00	N
ATOM	1243	H ASN A	80	27.096	-38.523	-42.269	1.00	0.00	H
ATOM	1244	HA ASN A	80	28.803	-37.788	-44.451	1.00	0.00	H
ATOM	1245	HB2 ASN A	80	26.638	-38.228	-45.643	1.00	0.00	H
ATOM	1246	HB3 ASN A	80	25.893	-36.935	-44.700	1.00	0.00	H
ATOM	1247	HD21 ASN A	80	27.652	-37.655	-47.524	1.00	0.00	H
ATOM	1248	HD22 ASN A	80	28.212	-36.014	-47.861	1.00	0.00	H
ATOM	1249	N PRO A	81	29.185	-35.636	-43.073	1.00	0.00	N
ATOM	1250	CA PRO A	81	29.442	-34.505	-42.182	1.00	0.00	C
ATOM	1251	C PRO A	81	28.842	-33.176	-42.669	1.00	0.00	C
ATOM	1252	O PRO A	81	28.701	-32.248	-41.878	1.00	0.00	O
ATOM	1253	CB PRO A	81	30.966	-34.435	-42.125	1.00	0.00	C
ATOM	1254	CG PRO A	81	31.396	-34.856	-43.528	1.00	0.00	C
ATOM	1255	CD PRO A	81	30.382	-35.955	-43.846	1.00	0.00	C
ATOM	1256	HA PRO A	81	29.050	-34.711	-41.185	1.00	0.00	H
ATOM	1257	HB2 PRO A	81	31.305	-35.187	-41.416	1.00	0.00	H
ATOM	1258	HB3 PRO A	81	31.335	-33.447	-41.851	1.00	0.00	H
ATOM	1259	HG2 PRO A	81	31.279	-34.026	-44.224	1.00	0.00	H
ATOM	1260	HG3 PRO A	81	32.418	-35.233	-43.547	1.00	0.00	H
ATOM	1261	HD2 PRO A	81	30.777	-36.920	-43.522	1.00	0.00	H

ATOM	1262	HD3 PRO A 81	30.174	-35.972	-44.917	1.00	0.00	H
ATOM	1263	N SER A 82	28.540	-33.051	-43.965	1.00	0.00	N
ATOM	1264	CA SER A 82	28.065	-31.816	-44.599	1.00	0.00	C
ATOM	1265	C SER A 82	26.572	-31.547	-44.395	1.00	0.00	C
ATOM	1266	O SER A 82	26.124	-30.445	-44.696	1.00	0.00	O
ATOM	1267	CB SER A 82	28.344	-31.869	-46.106	1.00	0.00	C
ATOM	1268	OG SER A 82	29.722	-32.086	-46.353	1.00	0.00	O
ATOM	1269	H SER A 82	28.644	-33.861	-44.569	1.00	0.00	H
ATOM	1270	HA SER A 82	28.606	-30.970	-44.175	1.00	0.00	H
ATOM	1271	HB2 SER A 82	28.038	-30.929	-46.568	1.00	0.00	H
ATOM	1272	HB3 SER A 82	27.768	-32.679	-46.554	1.00	0.00	H
ATOM	1273	HG SER A 82	30.202	-31.285	-46.139	1.00	0.00	H
ATOM	1274	N THR A 83	25.807	-32.544	-43.940	1.00	0.00	N
ATOM	1275	CA THR A 83	24.331	-32.536	-43.904	1.00	0.00	C
ATOM	1276	C THR A 83	23.748	-32.495	-42.483	1.00	0.00	C
ATOM	1277	O THR A 83	22.591	-32.871	-42.299	1.00	0.00	O
ATOM	1278	CB THR A 83	23.777	-33.749	-44.679	1.00	0.00	C
ATOM	1279	OG1 THR A 83	24.192	-34.950	-44.067	1.00	0.00	O
ATOM	1280	CG2 THR A 83	24.235	-33.792	-46.137	1.00	0.00	C
ATOM	1281	H THR A 83	26.250	-33.443	-43.801	1.00	0.00	H
ATOM	1282	HA THR A 83	23.966	-31.639	-44.405	1.00	0.00	H
ATOM	1283	HB THR A 83	22.688	-33.719	-44.667	1.00	0.00	H
ATOM	1284	HG21 THR A 83	23.740	-34.620	-46.644	1.00	0.00	H
ATOM	1285	HG22 THR A 83	25.313	-33.932	-46.196	1.00	0.00	H
ATOM	1286	HG23 THR A 83	23.966	-32.859	-46.633	1.00	0.00	H
ATOM	1287	HG1 THR A 83	23.721	-35.017	-43.231	1.00	0.00	H
ATOM	1288	N ILE A 84	24.568	-32.200	-41.464	1.00	0.00	N
ATOM	1289	CA ILE A 84	24.195	-32.190	-40.036	1.00	0.00	C
ATOM	1290	C ILE A 84	24.608	-30.855	-39.401	1.00	0.00	C
ATOM	1291	O ILE A 84	25.792	-30.503	-39.420	1.00	0.00	O

ATOM	1292	CB	ILE A	84	24.820	-33.401	-39.299	1.00	0.00	C
ATOM	1293	CG1	ILE A	84	24.274	-34.758	-39.803	1.00	0.00	C
ATOM	1294	CG2	ILE A	84	24.653	-33.303	-37.770	1.00	0.00	C
ATOM	1295	CD1	ILE A	84	22.788	-35.029	-39.526	1.00	0.00	C
ATOM	1296	H	ILE A	84	25.499	-31.887	-41.700	1.00	0.00	H
ATOM	1297	HA	ILE A	84	23.113	-32.261	-39.952	1.00	0.00	H
ATOM	1298	HB	ILE A	84	25.892	-33.394	-39.503	1.00	0.00	H
ATOM	1299	HG12	ILE A	84	24.846	-35.554	-39.329	1.00	0.00	H
ATOM	1300	HG13	ILE A	84	24.449	-34.840	-40.876	1.00	0.00	H
ATOM	1301	HG21	ILE A	84	25.232	-32.469	-37.371	1.00	0.00	H
ATOM	1302	HG22	ILE A	84	23.604	-33.154	-37.515	1.00	0.00	H
ATOM	1303	HG23	ILE A	84	25.006	-34.218	-37.294	1.00	0.00	H
ATOM	1304	HD11	ILE A	84	22.513	-35.993	-39.954	1.00	0.00	H
ATOM	1305	HD12	ILE A	84	22.171	-34.255	-39.981	1.00	0.00	H
ATOM	1306	HD13	ILE A	84	22.598	-35.060	-38.453	1.00	0.00	H
ATOM	1307	N	HIS A	85	23.664	-30.163	-38.755	1.00	0.00	N
ATOM	1308	CA	HIS A	85	23.795	-28.751	-38.366	1.00	0.00	C
ATOM	1309	C	HIS A	85	23.184	-28.450	-36.986	1.00	0.00	C
ATOM	1310	O	HIS A	85	22.183	-29.059	-36.604	1.00	0.00	O
ATOM	1311	CB	HIS A	85	23.124	-27.860	-39.432	1.00	0.00	C
ATOM	1312	CG	HIS A	85	23.448	-28.223	-40.858	1.00	0.00	C
ATOM	1313	ND1	HIS A	85	24.583	-27.875	-41.551	1.00	0.00	N
ATOM	1314	CD2	HIS A	85	22.744	-29.094	-41.645	1.00	0.00	C
ATOM	1315	CE1	HIS A	85	24.558	-28.511	-42.733	1.00	0.00	C
ATOM	1316	NE2	HIS A	85	23.461	-29.275	-42.830	1.00	0.00	N
ATOM	1317	H	HIS A	85	22.721	-30.544	-38.758	1.00	0.00	H
ATOM	1318	HA	HIS A	85	24.851	-28.486	-38.326	1.00	0.00	H
ATOM	1319	HB2	HIS A	85	22.043	-27.908	-39.311	1.00	0.00	H
ATOM	1320	HB3	HIS A	85	23.430	-26.828	-39.265	1.00	0.00	H
ATOM	1321	HD2	HIS A	85	21.832	-29.605	-41.366	1.00	0.00	H

ATOM	1322	HE1	HIS	A	85	25.318	-28.433	-43.500	1.00	0.00	H
ATOM	1323	HD1	HIS	A	85	25.298	-27.238	-41.235	1.00	0.00	H
ATOM	1324	N	HIS	A	86	23.709	-27.410	-36.324	1.00	0.00	N
ATOM	1325	CA	HIS	A	86	23.065	-26.677	-35.219	1.00	0.00	C
ATOM	1326	C	HIS	A	86	22.537	-27.561	-34.072	1.00	0.00	C
ATOM	1327	O	HIS	A	86	21.420	-27.382	-33.588	1.00	0.00	O
ATOM	1328	CB	HIS	A	86	22.010	-25.694	-35.756	1.00	0.00	C
ATOM	1329	CG	HIS	A	86	22.453	-24.893	-36.956	1.00	0.00	C
ATOM	1330	ND1	HIS	A	86	23.614	-24.157	-37.090	1.00	0.00	N
ATOM	1331	CD2	HIS	A	86	21.812	-24.856	-38.164	1.00	0.00	C
ATOM	1332	CE1	HIS	A	86	23.649	-23.667	-38.343	1.00	0.00	C
ATOM	1333	NE2	HIS	A	86	22.577	-24.080	-39.036	1.00	0.00	N
ATOM	1334	H	HIS	A	86	24.543	-26.980	-36.704	1.00	0.00	H
ATOM	1335	HA	HIS	A	86	23.850	-26.068	-34.769	1.00	0.00	H
ATOM	1336	HB2	HIS	A	86	21.117	-26.258	-36.032	1.00	0.00	H
ATOM	1337	HB3	HIS	A	86	21.729	-25.004	-34.960	1.00	0.00	H
ATOM	1338	HD2	HIS	A	86	20.892	-25.367	-38.409	1.00	0.00	H
ATOM	1339	HE1	HIS	A	86	24.437	-23.046	-38.753	1.00	0.00	H
ATOM	1340	HD1	HIS	A	86	24.350	-24.049	-36.403	1.00	0.00	H
ATOM	1341	N	CYS	A	87	23.316	-28.577	-33.692	1.00	0.00	N
ATOM	1342	CA	CYS	A	87	22.938	-29.526	-32.649	1.00	0.00	C
ATOM	1343	C	CYS	A	87	22.659	-28.844	-31.295	1.00	0.00	C
ATOM	1344	O	CYS	A	87	23.218	-27.791	-30.989	1.00	0.00	O
ATOM	1345	CB	CYS	A	87	24.023	-30.599	-32.526	1.00	0.00	C
ATOM	1346	SG	CYS	A	87	24.293	-31.608	-34.012	1.00	0.00	S
ATOM	1347	H	CYS	A	87	24.207	-28.690	-34.146	1.00	0.00	H
ATOM	1348	HA	CYS	A	87	22.022	-30.012	-32.969	1.00	0.00	H
ATOM	1349	HB2	CYS	A	87	23.763	-31.270	-31.705	1.00	0.00	H
ATOM	1350	HB3	CYS	A	87	24.961	-30.107	-32.267	1.00	0.00	H
ATOM	1351	N	SER	A	88	21.868	-29.506	-30.449	1.00	0.00	N



ATOM	1352	CA	SER A 88	21.390	-28.989	-29.164	1.00	0.00	C
ATOM	1353	C	SER A 88	21.182	-30.116	-28.155	1.00	0.00	C
ATOM	1354	O	SER A 88	20.615	-31.137	-28.526	1.00	0.00	O
ATOM	1355	CB	SER A 88	20.058	-28.282	-29.403	1.00	0.00	C
ATOM	1356	OG	SER A 88	19.662	-27.658	-28.205	1.00	0.00	O
ATOM	1357	H	SER A 88	21.394	-30.334	-30.803	1.00	0.00	H
ATOM	1358	HA	SER A 88	22.121	-28.294	-28.760	1.00	0.00	H
ATOM	1359	HB2	SER A 88	20.176	-27.522	-30.177	1.00	0.00	H
ATOM	1360	HB3	SER A 88	19.301	-29.000	-29.711	1.00	0.00	H
ATOM	1361	HG	SER A 88	20.285	-26.913	-28.103	1.00	0.00	H
ATOM	1362	N	SER A 89	21.634	-29.979	-26.904	1.00	0.00	N
ATOM	1363	CA	SER A 89	21.833	-31.136	-26.010	1.00	0.00	C
ATOM	1364	C	SER A 89	21.270	-30.982	-24.589	1.00	0.00	C
ATOM	1365	O	SER A 89	20.991	-29.875	-24.131	1.00	0.00	O
ATOM	1366	CB	SER A 89	23.321	-31.493	-25.993	1.00	0.00	C
ATOM	1367	OG	SER A 89	24.068	-30.503	-25.323	1.00	0.00	O
ATOM	1368	H	SER A 89	22.062	-29.099	-26.636	1.00	0.00	H
ATOM	1369	HA	SER A 89	21.318	-31.991	-26.438	1.00	0.00	H
ATOM	1370	HB2	SER A 89	23.459	-32.446	-25.482	1.00	0.00	H
ATOM	1371	HB3	SER A 89	23.684	-31.593	-27.016	1.00	0.00	H
ATOM	1372	HG	SER A 89	23.939	-29.631	-25.743	1.00	0.00	H
ATOM	1373	N	THR A 90	20.986	-32.108	-23.922	1.00	0.00	N
ATOM	1374	CA	THR A 90	20.414	-32.200	-22.558	1.00	0.00	C
ATOM	1375	C	THR A 90	20.697	-33.580	-21.939	1.00	0.00	C
ATOM	1376	O	THR A 90	20.427	-34.594	-22.583	1.00	0.00	O
ATOM	1377	CB	THR A 90	18.891	-31.980	-22.630	1.00	0.00	C
ATOM	1378	OG1	THR A 90	18.615	-30.636	-22.942	1.00	0.00	O
ATOM	1379	CG2	THR A 90	18.153	-32.261	-21.325	1.00	0.00	C
ATOM	1380	H	THR A 90	21.140	-32.989	-24.406	1.00	0.00	H
ATOM	1381	HA	THR A 90	20.850	-31.433	-21.915	1.00	0.00	H

ATOM	1382	HB	THR	A	90	18.473	-32.618	-23.410	1.00	0.00	H
ATOM	1383	HG1	THR	A	90	19.369	-30.297	-23.452	1.00	0.00	H
ATOM	1384	HG21	THR	A	90	18.583	-31.657	-20.526	1.00	0.00	H
ATOM	1385	HG22	THR	A	90	18.222	-33.316	-21.064	1.00	0.00	H
ATOM	1386	HG23	THR	A	90	17.100	-32.011	-21.456	1.00	0.00	H
ATOM	1387	N	TYR	A	91	21.145	-33.650	-20.677	1.00	0.00	N
ATOM	1388	CA	TYR	A	91	21.287	-34.919	-19.944	1.00	0.00	C
ATOM	1389	C	TYR	A	91	19.981	-35.370	-19.275	1.00	0.00	C
ATOM	1390	O	TYR	A	91	19.447	-34.636	-18.437	1.00	0.00	O
ATOM	1391	CB	TYR	A	91	22.385	-34.801	-18.881	1.00	0.00	C
ATOM	1392	CG	TYR	A	91	22.529	-36.011	-17.974	1.00	0.00	C
ATOM	1393	CD1	TYR	A	91	23.097	-37.195	-18.477	1.00	0.00	C
ATOM	1394	CD2	TYR	A	91	22.058	-35.969	-16.646	1.00	0.00	C
ATOM	1395	CE1	TYR	A	91	23.179	-38.337	-17.660	1.00	0.00	C
ATOM	1396	CE2	TYR	A	91	22.133	-37.110	-15.827	1.00	0.00	C
ATOM	1397	CZ	TYR	A	91	22.692	-38.299	-16.337	1.00	0.00	C
ATOM	1398	OH	TYR	A	91	22.755	-39.405	-15.553	1.00	0.00	O
ATOM	1399	H	TYR	A	91	21.417	-32.791	-20.195	1.00	0.00	H
ATOM	1400	HA	TYR	A	91	21.592	-35.697	-20.640	1.00	0.00	H
ATOM	1401	HB2	TYR	A	91	22.147	-33.946	-18.261	1.00	0.00	H
ATOM	1402	HB3	TYR	A	91	23.336	-34.614	-19.371	1.00	0.00	H
ATOM	1403	HD1	TYR	A	91	23.459	-37.228	-19.496	1.00	0.00	H
ATOM	1404	HD2	TYR	A	91	21.632	-35.066	-16.248	1.00	0.00	H
ATOM	1405	HE1	TYR	A	91	23.618	-39.245	-18.038	1.00	0.00	H
ATOM	1406	HE2	TYR	A	91	21.757	-37.080	-14.816	1.00	0.00	H
ATOM	1407	HH	TYR	A	91	22.729	-39.202	-14.618	1.00	0.00	H
ATOM	1408	N	HIS	A	92	19.656	-36.657	-19.398	1.00	0.00	N
ATOM	1409	CA	HIS	A	92	18.632	-37.365	-18.623	1.00	0.00	C
ATOM	1410	C	HIS	A	92	19.028	-38.845	-18.440	1.00	0.00	C
ATOM	1411	O	HIS	A	92	19.458	-39.490	-19.390	1.00	0.00	O

ATOM	1412	CB	HIS	A	92	17.262	-37.163	-19.304	1.00	0.00	C
ATOM	1413	CG	HIS	A	92	16.217	-38.180	-18.927	1.00	0.00	C
ATOM	1414	ND1	HIS	A	92	16.001	-39.401	-19.576	1.00	0.00	N
ATOM	1415	CD2	HIS	A	92	15.449	-38.127	-17.804	1.00	0.00	C
ATOM	1416	CE1	HIS	A	92	15.092	-40.046	-18.822	1.00	0.00	C
ATOM	1417	NE2	HIS	A	92	14.749	-39.308	-17.754	1.00	0.00	N
ATOM	1418	H	HIS	A	92	20.220	-37.236	-20.017	1.00	0.00	H
ATOM	1419	HA	HIS	A	92	18.572	-36.925	-17.630	1.00	0.00	H
ATOM	1420	HB2	HIS	A	92	16.889	-36.171	-19.051	1.00	0.00	H
ATOM	1421	HB3	HIS	A	92	17.380	-37.188	-20.384	1.00	0.00	H
ATOM	1422	HD2	HIS	A	92	15.440	-37.346	-17.059	1.00	0.00	H
ATOM	1423	HE1	HIS	A	92	14.743	-41.056	-18.995	1.00	0.00	H
ATOM	1424	HE2	HIS	A	92	14.274	-39.680	-16.923	1.00	0.00	H
ATOM	1425	N	GLU	A	93	19.054	-39.300	-17.181	1.00	0.00	N
ATOM	1426	CA	GLU	A	93	19.219	-40.703	-16.737	1.00	0.00	C
ATOM	1427	C	GLU	A	93	20.207	-41.561	-17.562	1.00	0.00	C
ATOM	1428	O	GLU	A	93	19.822	-42.365	-18.404	1.00	0.00	O
ATOM	1429	CB	GLU	A	93	17.835	-41.356	-16.555	1.00	0.00	C
ATOM	1430	CG	GLU	A	93	17.053	-40.651	-15.429	1.00	0.00	C
ATOM	1431	CD	GLU	A	93	15.624	-41.183	-15.266	1.00	0.00	C
ATOM	1432	OE1	GLU	A	93	15.458	-42.420	-15.209	1.00	0.00	O
ATOM	1433	OE2	GLU	A	93	14.707	-40.332	-15.183	1.00	0.00	O
ATOM	1434	H	GLU	A	93	18.656	-38.687	-16.491	1.00	0.00	H
ATOM	1435	HA	GLU	A	93	19.656	-40.670	-15.740	1.00	0.00	H
ATOM	1436	HB2	GLU	A	93	17.277	-41.300	-17.490	1.00	0.00	H
ATOM	1437	HB3	GLU	A	93	17.970	-42.404	-16.287	1.00	0.00	H
ATOM	1438	HG2	GLU	A	93	17.010	-39.577	-15.630	1.00	0.00	H
ATOM	1439	HG3	GLU	A	93	17.596	-40.782	-14.490	1.00	0.00	H
ATOM	1440	N	ASP	A	94	21.507	-41.383	-17.299	1.00	0.00	N
ATOM	1441	CA	ASP	A	94	22.657	-41.976	-18.005	1.00	0.00	C

ATOM	1442	C	ASP	A	94	22.823	-41.631	-19.496	1.00	0.00	C
ATOM	1443	O	ASP	A	94	23.880	-41.936	-20.052	1.00	0.00	O
ATOM	1444	CB	ASP	A	94	22.789	-43.492	-17.757	1.00	0.00	C
ATOM	1445	CG	ASP	A	94	23.340	-43.884	-16.386	1.00	0.00	C
ATOM	1446	OD1	ASP	A	94	24.017	-43.046	-15.742	1.00	0.00	O
ATOM	1447	OD2	ASP	A	94	23.561	-45.104	-16.227	1.00	0.00	O
ATOM	1448	H	ASP	A	94	21.744	-40.704	-16.588	1.00	0.00	H
ATOM	1449	HA	ASP	A	94	23.536	-41.525	-17.548	1.00	0.00	H
ATOM	1450	HB2	ASP	A	94	23.474	-43.906	-18.496	1.00	0.00	H
ATOM	1451	HB3	ASP	A	94	21.826	-43.980	-17.911	1.00	0.00	H
ATOM	1452	N	PHE	A	95	21.958	-40.813	-20.098	1.00	0.00	N
ATOM	1453	CA	PHE	A	95	22.097	-40.379	-21.491	1.00	0.00	C
ATOM	1454	C	PHE	A	95	22.221	-38.860	-21.615	1.00	0.00	C
ATOM	1455	O	PHE	A	95	21.340	-38.113	-21.195	1.00	0.00	O
ATOM	1456	CB	PHE	A	95	20.932	-40.910	-22.336	1.00	0.00	C
ATOM	1457	CG	PHE	A	95	20.602	-42.374	-22.111	1.00	0.00	C
ATOM	1458	CD1	PHE	A	95	21.484	-43.379	-22.547	1.00	0.00	C
ATOM	1459	CD2	PHE	A	95	19.443	-42.725	-21.395	1.00	0.00	C
ATOM	1460	CE1	PHE	A	95	21.209	-44.728	-22.267	1.00	0.00	C
ATOM	1461	CE2	PHE	A	95	19.175	-44.073	-21.102	1.00	0.00	C
ATOM	1462	CZ	PHE	A	95	20.058	-45.076	-21.538	1.00	0.00	C
ATOM	1463	H	PHE	A	95	21.096	-40.573	-19.613	1.00	0.00	H
ATOM	1464	HA	PHE	A	95	23.004	-40.810	-21.909	1.00	0.00	H
ATOM	1465	HB2	PHE	A	95	20.048	-40.322	-22.102	1.00	0.00	H
ATOM	1466	HB3	PHE	A	95	21.163	-40.751	-23.390	1.00	0.00	H
ATOM	1467	HD1	PHE	A	95	22.389	-43.114	-23.070	1.00	0.00	H
ATOM	1468	HD2	PHE	A	95	18.802	-41.953	-20.986	1.00	0.00	H
ATOM	1469	HE1	PHE	A	95	21.910	-45.489	-22.576	1.00	0.00	H
ATOM	1470	HE2	PHE	A	95	18.329	-44.319	-20.474	1.00	0.00	H
ATOM	1471	HZ	PHE	A	95	19.870	-46.104	-21.269	1.00	0.00	H

ATOM	1472	N	TYR A 96	23.187	-38.399	-22.409	1.00	0.00	N
ATOM	1473	CA	TYR A 96	23.070	-37.093	-23.052	1.00	0.00	C
ATOM	1474	C	TYR A 96	22.317	-37.261	-24.378	1.00	0.00	C
ATOM	1475	O	TYR A 96	22.768	-37.948	-25.301	1.00	0.00	O
ATOM	1476	CB	TYR A 96	24.439	-36.415	-23.192	1.00	0.00	C
ATOM	1477	CG	TYR A 96	24.534	-35.090	-22.456	1.00	0.00	C
ATOM	1478	CD1	TYR A 96	25.375	-34.950	-21.333	1.00	0.00	C
ATOM	1479	CD2	TYR A 96	23.805	-33.983	-22.933	1.00	0.00	C
ATOM	1480	CE1	TYR A 96	25.460	-33.709	-20.669	1.00	0.00	C
ATOM	1481	CE2	TYR A 96	23.900	-32.742	-22.276	1.00	0.00	C
ATOM	1482	CZ	TYR A 96	24.709	-32.609	-21.131	1.00	0.00	C
ATOM	1483	OH	TYR A 96	24.703	-31.442	-20.444	1.00	0.00	O
ATOM	1484	H	TYR A 96	23.824	-39.070	-22.826	1.00	0.00	H
ATOM	1485	HA	TYR A 96	22.469	-36.437	-22.424	1.00	0.00	H
ATOM	1486	HB2	TYR A 96	25.216	-37.080	-22.816	1.00	0.00	H
ATOM	1487	HB3	TYR A 96	24.639	-36.225	-24.248	1.00	0.00	H
ATOM	1488	HD1	TYR A 96	25.954	-35.788	-20.974	1.00	0.00	H
ATOM	1489	HD2	TYR A 96	23.179	-34.087	-23.807	1.00	0.00	H
ATOM	1490	HE1	TYR A 96	26.068	-33.594	-19.784	1.00	0.00	H
ATOM	1491	HE2	TYR A 96	23.364	-31.877	-22.634	1.00	0.00	H
ATOM	1492	HH	TYR A 96	23.810	-31.267	-20.096	1.00	0.00	H
ATOM	1493	N	TYR A 97	21.108	-36.709	-24.428	1.00	0.00	N
ATOM	1494	CA	TYR A 97	20.309	-36.566	-25.640	1.00	0.00	C
ATOM	1495	C	TYR A 97	20.795	-35.330	-26.407	1.00	0.00	C
ATOM	1496	O	TYR A 97	21.166	-34.322	-25.800	1.00	0.00	O
ATOM	1497	CB	TYR A 97	18.822	-36.437	-25.275	1.00	0.00	C
ATOM	1498	CG	TYR A 97	18.215	-37.618	-24.529	1.00	0.00	C
ATOM	1499	CD1	TYR A 97	17.333	-38.505	-25.182	1.00	0.00	C
ATOM	1500	CD2	TYR A 97	18.480	-37.796	-23.156	1.00	0.00	C
ATOM	1501	CE1	TYR A 97	16.731	-39.566	-24.473	1.00	0.00	C

ATOM	1502	CE2 TYR A 97	17.884	-38.857	-22.451	1.00	0.00	C
ATOM	1503	CZ TYR A 97	17.000	-39.736	-23.099	1.00	0.00	C
ATOM	1504	OH TYR A 97	16.403	-40.728	-22.390	1.00	0.00	O
ATOM	1505	H TYR A 97	20.815	-36.155	-23.629	1.00	0.00	H
ATOM	1506	HA TYR A 97	20.436	-37.446	-26.270	1.00	0.00	H
ATOM	1507	HB2 TYR A 97	18.692	-35.542	-24.663	1.00	0.00	H
ATOM	1508	HB3 TYR A 97	18.261	-36.281	-26.194	1.00	0.00	H
ATOM	1509	HD1 TYR A 97	17.082	-38.350	-26.218	1.00	0.00	H
ATOM	1510	HD2 TYR A 97	19.132	-37.114	-22.625	1.00	0.00	H
ATOM	1511	HE1 TYR A 97	16.030	-40.230	-24.953	1.00	0.00	H
ATOM	1512	HE2 TYR A 97	18.101	-39.007	-21.404	1.00	0.00	H
ATOM	1513	HH TYR A 97	16.318	-40.466	-21.459	1.00	0.00	H
ATOM	1514	N THR A 98	20.795	-35.383	-27.739	1.00	0.00	N
ATOM	1515	CA THR A 98	21.269	-34.285	-28.588	1.00	0.00	C
ATOM	1516	C THR A 98	20.570	-34.264	-29.951	1.00	0.00	C
ATOM	1517	O THR A 98	20.570	-35.240	-30.698	1.00	0.00	O
ATOM	1518	CB THR A 98	22.803	-34.281	-28.676	1.00	0.00	C
ATOM	1519	OG1 THR A 98	23.254	-33.191	-29.446	1.00	0.00	O
ATOM	1520	CG2 THR A 98	23.419	-35.541	-29.275	1.00	0.00	C
ATOM	1521	H THR A 98	20.556	-36.259	-28.196	1.00	0.00	H
ATOM	1522	HA THR A 98	21.000	-33.368	-28.083	1.00	0.00	H
ATOM	1523	HB THR A 98	23.195	-34.164	-27.665	1.00	0.00	H
ATOM	1524	HG1 THR A 98	24.213	-33.218	-29.435	1.00	0.00	H
ATOM	1525	HG21 THR A 98	24.487	-35.544	-29.073	1.00	0.00	H
ATOM	1526	HG22 THR A 98	23.238	-35.572	-30.349	1.00	0.00	H
ATOM	1527	HG23 THR A 98	22.994	-36.428	-28.807	1.00	0.00	H
ATOM	1528	N LEU A 99	19.791	-33.206	-30.167	1.00	0.00	N
ATOM	1529	CA LEU A 99	18.923	-32.956	-31.312	1.00	0.00	C
ATOM	1530	C LEU A 99	19.660	-32.108	-32.361	1.00	0.00	C
ATOM	1531	O LEU A 99	20.055	-30.983	-32.065	1.00	0.00	O

ATOM	1532	CB	LEU	A	99	17.666	-32.258	-30.755	1.00	0.00	C
ATOM	1533	CG	LEU	A	99	16.650	-31.785	-31.805	1.00	0.00	C
ATOM	1534	CD1	LEU	A	99	16.073	-32.946	-32.608	1.00	0.00	C
ATOM	1535	CD2	LEU	A	99	15.499	-31.051	-31.120	1.00	0.00	C
ATOM	1536	H	LEU	A	99	19.866	-32.450	-29.494	1.00	0.00	H
ATOM	1537	HA	LEU	A	99	18.635	-33.903	-31.766	1.00	0.00	H
ATOM	1538	HB2	LEU	A	99	17.166	-32.935	-30.061	1.00	0.00	H
ATOM	1539	HB3	LEU	A	99	17.985	-31.383	-30.184	1.00	0.00	H
ATOM	1540	HG	LEU	A	99	17.130	-31.099	-32.495	1.00	0.00	H
ATOM	1541	HD11	LEU	A	99	16.861	-33.447	-33.164	1.00	0.00	H
ATOM	1542	HD12	LEU	A	99	15.591	-33.654	-31.935	1.00	0.00	H
ATOM	1543	HD13	LEU	A	99	15.348	-32.563	-33.320	1.00	0.00	H
ATOM	1544	HD21	LEU	A	99	15.886	-30.192	-30.570	1.00	0.00	H
ATOM	1545	HD22	LEU	A	99	14.788	-30.701	-31.865	1.00	0.00	H
ATOM	1546	HD23	LEU	A	99	14.996	-31.718	-30.420	1.00	0.00	H
ATOM	1547	N	CYS	A	100	19.743	-32.584	-33.603	1.00	0.00	N
ATOM	1548	CA	CYS	A	100	20.414	-31.916	-34.724	1.00	0.00	C
ATOM	1549	C	CYS	A	100	19.472	-31.741	-35.927	1.00	0.00	C
ATOM	1550	O	CYS	A	100	18.683	-32.636	-36.255	1.00	0.00	O
ATOM	1551	CB	CYS	A	100	21.642	-32.731	-35.147	1.00	0.00	C
ATOM	1552	SG	CYS	A	100	22.896	-33.093	-33.884	1.00	0.00	S
ATOM	1553	H	CYS	A	100	19.356	-33.504	-33.785	1.00	0.00	H
ATOM	1554	HA	CYS	A	100	20.748	-30.924	-34.419	1.00	0.00	H
ATOM	1555	HB2	CYS	A	100	21.282	-33.691	-35.523	1.00	0.00	H
ATOM	1556	HB3	CYS	A	100	22.131	-32.215	-35.973	1.00	0.00	H
ATOM	1557	N	ALA	A	101	19.672	-30.665	-36.687	1.00	0.00	N
ATOM	1558	CA	ALA	A	101	19.045	-30.474	-37.993	1.00	0.00	C
ATOM	1559	C	ALA	A	101	19.756	-31.302	-39.077	1.00	0.00	C
ATOM	1560	O	ALA	A	101	20.987	-31.284	-39.165	1.00	0.00	O
ATOM	1561	CB	ALA	A	101	19.064	-28.979	-38.318	1.00	0.00	C

ATOM	1562	H	ALA A 101	20.419	-30.022	-36.439	1.00	0.00	H
ATOM	1563	HA	ALA A 101	18.005	-30.799	-37.937	1.00	0.00	H
ATOM	1564	HB1	ALA A 101	20.088	-28.641	-38.460	1.00	0.00	H
ATOM	1565	HB2	ALA A 101	18.632	-28.425	-37.488	1.00	0.00	H
ATOM	1566	HB3	ALA A 101	18.491	-28.784	-39.225	1.00	0.00	H
ATOM	1567	N	VAL A 102	18.984	-31.951	-39.952	1.00	0.00	N
ATOM	1568	CA	VAL A 102	19.468	-32.679	-41.135	1.00	0.00	C
ATOM	1569	C	VAL A 102	19.127	-31.875	-42.390	1.00	0.00	C
ATOM	1570	O	VAL A 102	18.004	-31.390	-42.515	1.00	0.00	O
ATOM	1571	CB	VAL A 102	18.851	-34.090	-41.228	1.00	0.00	C
ATOM	1572	CG1	VAL A 102	19.548	-34.932	-42.305	1.00	0.00	C
ATOM	1573	CG2	VAL A 102	18.906	-34.861	-39.904	1.00	0.00	C
ATOM	1574	H	VAL A 102	17.974	-31.892	-39.849	1.00	0.00	H
ATOM	1575	HA	VAL A 102	20.547	-32.785	-41.066	1.00	0.00	H
ATOM	1576	HB	VAL A 102	17.804	-33.996	-41.505	1.00	0.00	H
ATOM	1577	HG11	VAL A 102	19.419	-34.475	-43.285	1.00	0.00	H
ATOM	1578	HG12	VAL A 102	20.613	-35.014	-42.082	1.00	0.00	H
ATOM	1579	HG13	VAL A 102	19.112	-35.929	-42.333	1.00	0.00	H
ATOM	1580	HG21	VAL A 102	18.294	-34.358	-39.155	1.00	0.00	H
ATOM	1581	HG22	VAL A 102	18.506	-35.865	-40.042	1.00	0.00	H
ATOM	1582	HG23	VAL A 102	19.933	-34.928	-39.548	1.00	0.00	H
ATOM	1583	N	SER A 103	20.038	-31.756	-43.361	1.00	0.00	N
ATOM	1584	CA	SER A 103	19.801	-30.930	-44.556	1.00	0.00	C
ATOM	1585	C	SER A 103	20.377	-31.517	-45.842	1.00	0.00	C
ATOM	1586	O	SER A 103	21.553	-31.866	-45.909	1.00	0.00	O
ATOM	1587	CB	SER A 103	20.364	-29.529	-44.337	1.00	0.00	C
ATOM	1588	OG	SER A 103	20.047	-28.697	-45.429	1.00	0.00	O
ATOM	1589	H	SER A 103	20.962	-32.151	-43.212	1.00	0.00	H
ATOM	1590	HA	SER A 103	18.727	-30.823	-44.707	1.00	0.00	H
ATOM	1591	HB2	SER A 103	19.955	-29.104	-43.421	1.00	0.00	H



ATOM	1592	HB3	SER A 103	21.444	-29.596	-44.254	1.00	0.00	H
ATOM	1593	HG	SER A 103	20.532	-27.860	-45.253	1.00	0.00	H
ATOM	1594	N	HIS A 104	19.592	-31.448	-46.923	1.00	0.00	N
ATOM	1595	CA	HIS A 104	20.047	-31.680	-48.303	1.00	0.00	C
ATOM	1596	C	HIS A 104	20.580	-30.412	-48.995	1.00	0.00	C
ATOM	1597	O	HIS A 104	21.123	-30.503	-50.091	1.00	0.00	O
ATOM	1598	CB	HIS A 104	18.896	-32.315	-49.116	1.00	0.00	C
ATOM	1599	CG	HIS A 104	19.210	-33.639	-49.769	1.00	0.00	C
ATOM	1600	ND1	HIS A 104	18.514	-34.157	-50.861	1.00	0.00	N
ATOM	1601	CD2	HIS A 104	20.090	-34.589	-49.328	1.00	0.00	C
ATOM	1602	CE1	HIS A 104	19.014	-35.380	-51.082	1.00	0.00	C
ATOM	1603	NE2	HIS A 104	19.964	-35.666	-50.177	1.00	0.00	N
ATOM	1604	H	HIS A 104	18.648	-31.116	-46.794	1.00	0.00	H
ATOM	1605	HA	HIS A 104	20.896	-32.362	-48.281	1.00	0.00	H
ATOM	1606	HB2	HIS A 104	18.031	-32.474	-48.472	1.00	0.00	H
ATOM	1607	HB3	HIS A 104	18.579	-31.622	-49.895	1.00	0.00	H
ATOM	1608	HD2	HIS A 104	20.733	-34.519	-48.463	1.00	0.00	H
ATOM	1609	HE1	HIS A 104	18.682	-36.042	-51.872	1.00	0.00	H
ATOM	1610	HE2	HIS A 104	20.477	-36.535	-50.124	1.00	0.00	H
ATOM	1611	N	VAL A 105	20.430	-29.234	-48.374	1.00	0.00	N
ATOM	1612	CA	VAL A 105	20.701	-27.912	-48.983	1.00	0.00	C
ATOM	1613	C	VAL A 105	21.814	-27.133	-48.266	1.00	0.00	C
ATOM	1614	O	VAL A 105	22.018	-25.951	-48.527	1.00	0.00	O
ATOM	1615	CB	VAL A 105	19.407	-27.081	-49.114	1.00	0.00	C
ATOM	1616	CG1	VAL A 105	18.363	-27.818	-49.964	1.00	0.00	C
ATOM	1617	CG2	VAL A 105	18.773	-26.731	-47.761	1.00	0.00	C
ATOM	1618	H	VAL A 105	20.024	-29.237	-47.447	1.00	0.00	H
ATOM	1619	HA	VAL A 105	21.073	-28.069	-49.995	1.00	0.00	H
ATOM	1620	HB	VAL A 105	19.642	-26.149	-49.626	1.00	0.00	H
ATOM	1621	HG11	VAL A 105	18.790	-28.068	-50.935	1.00	0.00	H

ATOM	1622	HG12	VAL A 105	17.494	-27.184	-50.118	1.00	0.00	H
ATOM	1623	HG13	VAL A 105	18.036	-28.734	-49.472	1.00	0.00	H
ATOM	1624	HG21	VAL A 105	19.497	-26.221	-47.124	1.00	0.00	H
ATOM	1625	HG22	VAL A 105	18.422	-27.632	-47.261	1.00	0.00	H
ATOM	1626	HG23	VAL A 105	17.929	-26.063	-47.917	1.00	0.00	H
ATOM	1627	N	GLY A 106	22.529	-27.778	-47.341	1.00	0.00	N
ATOM	1628	CA	GLY A 106	23.466	-27.114	-46.437	1.00	0.00	C
ATOM	1629	C	GLY A 106	22.743	-26.305	-45.354	1.00	0.00	C
ATOM	1630	O	GLY A 106	21.701	-26.724	-44.861	1.00	0.00	O
ATOM	1631	H	GLY A 106	22.290	-28.738	-47.150	1.00	0.00	H
ATOM	1632	HA2	GLY A 106	24.106	-26.445	-47.009	1.00	0.00	H
ATOM	1633	HA3	GLY A 106	24.092	-27.856	-45.945	1.00	0.00	H
ATOM	1634	N	ASP A 107	23.335	-25.183	-44.949	1.00	0.00	N
ATOM	1635	CA	ASP A 107	22.908	-24.343	-43.821	1.00	0.00	C
ATOM	1636	C	ASP A 107	21.398	-23.977	-43.870	1.00	0.00	C
ATOM	1637	O	ASP A 107	20.968	-23.246	-44.770	1.00	0.00	O
ATOM	1638	CB	ASP A 107	23.832	-23.116	-43.789	1.00	0.00	C
ATOM	1639	CG	ASP A 107	23.573	-22.135	-42.639	1.00	0.00	C
ATOM	1640	OD1	ASP A 107	22.392	-21.792	-42.418	1.00	0.00	O
ATOM	1641	OD2	ASP A 107	24.564	-21.501	-42.229	1.00	0.00	O
ATOM	1642	H	ASP A 107	24.144	-24.864	-45.456	1.00	0.00	H
ATOM	1643	HA	ASP A 107	23.109	-24.885	-42.898	1.00	0.00	H
ATOM	1644	HB2	ASP A 107	24.861	-23.470	-43.713	1.00	0.00	H
ATOM	1645	HB3	ASP A 107	23.740	-22.579	-44.733	1.00	0.00	H
ATOM	1646	N	PRO A 108	20.582	-24.454	-42.905	1.00	0.00	N
ATOM	1647	CA	PRO A 108	19.149	-24.176	-42.858	1.00	0.00	C
ATOM	1648	C	PRO A 108	18.764	-22.710	-42.664	1.00	0.00	C
ATOM	1649	O	PRO A 108	17.672	-22.324	-43.072	1.00	0.00	O
ATOM	1650	CB	PRO A 108	18.629	-24.989	-41.675	1.00	0.00	C
ATOM	1651	CG	PRO A 108	19.568	-26.185	-41.627	1.00	0.00	C

ATOM	1652	CD	PRO A 108	20.900	-25.519	-41.956	1.00	0.00	C
ATOM	1653	HA	PRO A 108	18.693	-24.544	-43.778	1.00	0.00	H
ATOM	1654	HB2	PRO A 108	17.594	-25.279	-41.810	1.00	0.00	H
ATOM	1655	HB3	PRO A 108	18.742	-24.404	-40.765	1.00	0.00	H
ATOM	1656	HG2	PRO A 108	19.581	-26.661	-40.648	1.00	0.00	H
ATOM	1657	HG3	PRO A 108	19.306	-26.898	-42.409	1.00	0.00	H
ATOM	1658	HD2	PRO A 108	21.581	-26.261	-42.372	1.00	0.00	H
ATOM	1659	HD3	PRO A 108	21.327	-25.081	-41.055	1.00	0.00	H
ATOM	1660	N	ILE A 109	19.603	-21.880	-42.039	1.00	0.00	N
ATOM	1661	CA	ILE A 109	19.321	-20.449	-41.843	1.00	0.00	C
ATOM	1662	C	ILE A 109	19.552	-19.687	-43.150	1.00	0.00	C
ATOM	1663	O	ILE A 109	18.659	-18.987	-43.635	1.00	0.00	O
ATOM	1664	CB	ILE A 109	20.190	-19.891	-40.690	1.00	0.00	C
ATOM	1665	CG1	ILE A 109	19.950	-20.631	-39.355	1.00	0.00	C
ATOM	1666	CG2	ILE A 109	19.987	-18.375	-40.511	1.00	0.00	C
ATOM	1667	CD1	ILE A 109	18.536	-20.497	-38.769	1.00	0.00	C
ATOM	1668	H	ILE A 109	20.554	-22.197	-41.857	1.00	0.00	H
ATOM	1669	HA	ILE A 109	18.272	-20.326	-41.581	1.00	0.00	H
ATOM	1670	HB	ILE A 109	21.239	-20.039	-40.949	1.00	0.00	H
ATOM	1671	HG12	ILE A 109	20.172	-21.691	-39.483	1.00	0.00	H
ATOM	1672	HG13	ILE A 109	20.664	-20.252	-38.627	1.00	0.00	H
ATOM	1673	HG21	ILE A 109	20.393	-17.839	-41.368	1.00	0.00	H
ATOM	1674	HG22	ILE A 109	20.519	-18.039	-39.621	1.00	0.00	H
ATOM	1675	HG23	ILE A 109	18.928	-18.141	-40.410	1.00	0.00	H
ATOM	1676	HD11	ILE A 109	18.476	-21.052	-37.834	1.00	0.00	H
ATOM	1677	HD12	ILE A 109	18.302	-19.453	-38.565	1.00	0.00	H
ATOM	1678	HD13	ILE A 109	17.805	-20.906	-39.462	1.00	0.00	H
ATOM	1679	N	LEU A 110	20.673	-19.970	-43.820	1.00	0.00	N
ATOM	1680	CA	LEU A 110	21.036	-19.400	-45.119	1.00	0.00	C
ATOM	1681	C	LEU A 110	20.267	-20.019	-46.304	1.00	0.00	C

ATOM	1682	O	LEU A 110	20.334	-19.488	-47.415	1.00	0.00	O
ATOM	1683	CB	LEU A 110	22.561	-19.507	-45.307	1.00	0.00	C
ATOM	1684	CG	LEU A 110	23.409	-18.823	-44.212	1.00	0.00	C
ATOM	1685	CD1	LEU A 110	24.893	-19.021	-44.522	1.00	0.00	C
ATOM	1686	CD2	LEU A 110	23.146	-17.316	-44.123	1.00	0.00	C
ATOM	1687	H	LEU A 110	21.330	-20.614	-43.371	1.00	0.00	H
ATOM	1688	HA	LEU A 110	20.767	-18.344	-45.112	1.00	0.00	H
ATOM	1689	HB2	LEU A 110	22.823	-19.070	-46.271	1.00	0.00	H
ATOM	1690	HB3	LEU A 110	22.824	-20.564	-45.340	1.00	0.00	H
ATOM	1691	HG	LEU A 110	23.195	-19.266	-43.241	1.00	0.00	H
ATOM	1692	HD11	LEU A 110	25.489	-18.585	-43.721	1.00	0.00	H
ATOM	1693	HD12	LEU A 110	25.110	-20.089	-44.552	1.00	0.00	H
ATOM	1694	HD13	LEU A 110	25.151	-18.562	-45.475	1.00	0.00	H
ATOM	1695	HD21	LEU A 110	22.127	-17.140	-43.782	1.00	0.00	H
ATOM	1696	HD22	LEU A 110	23.825	-16.874	-43.394	1.00	0.00	H
ATOM	1697	HD23	LEU A 110	23.299	-16.849	-45.095	1.00	0.00	H
ATOM	1698	N	ASN A 111	19.490	-21.088	-46.093	1.00	0.00	N
ATOM	1699	CA	ASN A 111	18.670	-21.736	-47.126	1.00	0.00	C
ATOM	1700	C	ASN A 111	17.295	-22.229	-46.622	1.00	0.00	C
ATOM	1701	O	ASN A 111	16.687	-23.113	-47.224	1.00	0.00	O
ATOM	1702	CB	ASN A 111	19.506	-22.812	-47.862	1.00	0.00	C
ATOM	1703	CG	ASN A 111	19.685	-22.480	-49.332	1.00	0.00	C
ATOM	1704	OD1	ASN A 111	19.054	-23.053	-50.205	1.00	0.00	O
ATOM	1705	ND2	ASN A 111	20.260	-21.338	-49.630	1.00	0.00	N
ATOM	1706	H	ASN A 111	19.628	-21.581	-45.215	1.00	0.00	H
ATOM	1707	HA	ASN A 111	18.409	-20.965	-47.852	1.00	0.00	H
ATOM	1708	HB2	ASN A 111	20.498	-22.897	-47.416	1.00	0.00	H
ATOM	1709	HB3	ASN A 111	19.039	-23.791	-47.781	1.00	0.00	H
ATOM	1710	HD21	ASN A 111	20.570	-20.723	-48.884	1.00	0.00	H
ATOM	1711	HD22	ASN A 111	20.264	-21.069	-50.594	1.00	0.00	H

ATOM	1712	N	SER A 112	16.679	-21.504	-45.681	1.00	0.00	N
ATOM	1713	CA	SER A 112	15.384	-21.867	-45.068	1.00	0.00	C
ATOM	1714	C	SER A 112	14.205	-22.026	-46.045	1.00	0.00	C
ATOM	1715	O	SER A 112	13.201	-22.648	-45.696	1.00	0.00	O
ATOM	1716	CB	SER A 112	15.010	-20.798	-44.037	1.00	0.00	C
ATOM	1717	OG	SER A 112	13.794	-21.127	-43.400	1.00	0.00	O
ATOM	1718	H	SER A 112	17.258	-20.848	-45.168	1.00	0.00	H
ATOM	1719	HA	SER A 112	15.509	-22.813	-44.538	1.00	0.00	H
ATOM	1720	HB2	SER A 112	15.794	-20.708	-43.285	1.00	0.00	H
ATOM	1721	HB3	SER A 112	14.899	-19.837	-44.539	1.00	0.00	H
ATOM	1722	HG	SER A 112	13.181	-21.505	-44.044	1.00	0.00	H
ATOM	1723	N	THR A 113	14.250	-21.373	-47.212	1.00	0.00	N
ATOM	1724	CA	THR A 113	13.223	-21.512	-48.268	1.00	0.00	C
ATOM	1725	C	THR A 113	13.362	-22.796	-49.095	1.00	0.00	C
ATOM	1726	O	THR A 113	12.437	-23.143	-49.824	1.00	0.00	O
ATOM	1727	CB	THR A 113	13.214	-20.278	-49.184	1.00	0.00	C
ATOM	1728	OG1	THR A 113	12.090	-20.308	-50.027	1.00	0.00	O
ATOM	1729	CG2	THR A 113	14.452	-20.149	-50.075	1.00	0.00	C
ATOM	1730	H	THR A 113	15.103	-20.884	-47.435	1.00	0.00	H
ATOM	1731	HA	THR A 113	12.242	-21.563	-47.795	1.00	0.00	H
ATOM	1732	HB	THR A 113	13.144	-19.386	-48.561	1.00	0.00	H
ATOM	1733	HG1	THR A 113	11.995	-21.216	-50.355	1.00	0.00	H
ATOM	1734	HG21	THR A 113	14.380	-19.230	-50.655	1.00	0.00	H
ATOM	1735	HG22	THR A 113	14.520	-20.993	-50.764	1.00	0.00	H
ATOM	1736	HG23	THR A 113	15.354	-20.111	-49.465	1.00	0.00	H
ATOM	1737	N	SER A 114	14.512	-23.465	-49.008	1.00	0.00	N
ATOM	1738	CA	SER A 114	14.844	-24.720	-49.695	1.00	0.00	C
ATOM	1739	C	SER A 114	14.860	-25.911	-48.726	1.00	0.00	C
ATOM	1740	O	SER A 114	14.755	-27.060	-49.147	1.00	0.00	O
ATOM	1741	CB	SER A 114	16.241	-24.607	-50.323	1.00	0.00	C

ATOM	1742	OG	SER A 114	16.469	-23.358	-50.948	1.00	0.00	O
ATOM	1743	H	SER A 114	15.252	-23.065	-48.446	1.00	0.00	H
ATOM	1744	HA	SER A 114	14.119	-24.921	-50.484	1.00	0.00	H
ATOM	1745	HB2	SER A 114	16.989	-24.726	-49.538	1.00	0.00	H
ATOM	1746	HB3	SER A 114	16.375	-25.406	-51.053	1.00	0.00	H
ATOM	1747	HG	SER A 114	17.429	-23.190	-50.864	1.00	0.00	H
ATOM	1748	N	TRP A 115	15.109	-25.654	-47.437	1.00	0.00	N
ATOM	1749	CA	TRP A 115	15.312	-26.683	-46.417	1.00	0.00	C
ATOM	1750	C	TRP A 115	14.010	-27.414	-46.049	1.00	0.00	C
ATOM	1751	O	TRP A 115	13.085	-26.836	-45.479	1.00	0.00	O
ATOM	1752	CB	TRP A 115	15.995	-26.054	-45.191	1.00	0.00	C
ATOM	1753	CG	TRP A 115	16.273	-26.997	-44.059	1.00	0.00	C
ATOM	1754	CD1	TRP A 115	17.028	-28.116	-44.137	1.00	0.00	C
ATOM	1755	CD2	TRP A 115	15.765	-26.965	-42.688	1.00	0.00	C
ATOM	1756	NE1	TRP A 115	17.006	-28.780	-42.927	1.00	0.00	N
ATOM	1757	CE2	TRP A 115	16.231	-28.124	-41.999	1.00	0.00	C
ATOM	1758	CE3	TRP A 115	14.969	-26.065	-41.948	1.00	0.00	C
ATOM	1759	CZ2	TRP A 115	15.877	-28.414	-40.675	1.00	0.00	C
ATOM	1760	CZ3	TRP A 115	14.600	-26.343	-40.618	1.00	0.00	C
ATOM	1761	CH2	TRP A 115	15.039	-27.521	-39.986	1.00	0.00	C
ATOM	1762	H	TRP A 115	15.291	-24.696	-47.175	1.00	0.00	H
ATOM	1763	HA	TRP A 115	15.998	-27.425	-46.824	1.00	0.00	H
ATOM	1764	HB2	TRP A 115	15.360	-25.250	-44.816	1.00	0.00	H
ATOM	1765	HB3	TRP A 115	16.940	-25.607	-45.502	1.00	0.00	H
ATOM	1766	HD1	TRP A 115	17.539	-28.457	-45.027	1.00	0.00	H
ATOM	1767	HE3	TRP A 115	14.664	-25.144	-42.416	1.00	0.00	H
ATOM	1768	HZ2	TRP A 115	16.220	-29.325	-40.208	1.00	0.00	H
ATOM	1769	HZ3	TRP A 115	13.974	-25.650	-40.071	1.00	0.00	H
ATOM	1770	HH2	TRP A 115	14.726	-27.735	-38.974	1.00	0.00	H
ATOM	1771	HE1	TRP A 115	17.381	-29.718	-42.788	1.00	0.00	H

ATOM	1772	N	THR A 116	13.988	-28.730	-46.260	1.00	0.00	N
ATOM	1773	CA	THR A 116	13.044	-29.659	-45.621	1.00	0.00	C
ATOM	1774	C	THR A 116	13.395	-29.802	-44.138	1.00	0.00	C
ATOM	1775	O	THR A 116	14.513	-30.224	-43.849	1.00	0.00	O
ATOM	1776	CB	THR A 116	13.144	-31.044	-46.284	1.00	0.00	C
ATOM	1777	OG1	THR A 116	14.486	-31.488	-46.274	1.00	0.00	O
ATOM	1778	CG2	THR A 116	12.672	-31.044	-47.737	1.00	0.00	C
ATOM	1779	H	THR A 116	14.766	-29.147	-46.750	1.00	0.00	H
ATOM	1780	HA	THR A 116	12.026	-29.282	-45.719	1.00	0.00	H
ATOM	1781	HB	THR A 116	12.533	-31.750	-45.720	1.00	0.00	H
ATOM	1782	HG1	THR A 116	14.822	-31.302	-45.383	1.00	0.00	H
ATOM	1783	HG21	THR A 116	12.747	-32.054	-48.139	1.00	0.00	H
ATOM	1784	HG22	THR A 116	11.634	-30.717	-47.789	1.00	0.00	H
ATOM	1785	HG23	THR A 116	13.292	-30.378	-48.338	1.00	0.00	H
ATOM	1786	N	GLU A 117	12.437	-29.637	-43.216	1.00	0.00	N
ATOM	1787	CA	GLU A 117	12.686	-29.657	-41.755	1.00	0.00	C
ATOM	1788	C	GLU A 117	12.916	-31.057	-41.138	1.00	0.00	C
ATOM	1789	O	GLU A 117	12.334	-31.429	-40.121	1.00	0.00	O
ATOM	1790	CB	GLU A 117	11.648	-28.810	-40.997	1.00	0.00	C
ATOM	1791	CG	GLU A 117	10.209	-29.360	-40.956	1.00	0.00	C
ATOM	1792	CD	GLU A 117	9.523	-29.123	-39.597	1.00	0.00	C
ATOM	1793	OE1	GLU A 117	8.442	-29.735	-39.428	1.00	0.00	O
ATOM	1794	OE2	GLU A 117	9.649	-27.990	-39.088	1.00	0.00	O
ATOM	1795	H	GLU A 117	11.525	-29.334	-43.515	1.00	0.00	H
ATOM	1796	HA	GLU A 117	13.629	-29.137	-41.609	1.00	0.00	H
ATOM	1797	HB2	GLU A 117	11.627	-27.825	-41.456	1.00	0.00	H
ATOM	1798	HB3	GLU A 117	12.018	-28.690	-39.977	1.00	0.00	H
ATOM	1799	HG2	GLU A 117	9.628	-28.887	-41.755	1.00	0.00	H
ATOM	1800	HG3	GLU A 117	10.212	-30.430	-41.164	1.00	0.00	H
ATOM	1801	N	SER A 118	13.772	-31.860	-41.769	1.00	0.00	N

ATOM	1802	CA	SER A 118	14.220	-33.148	-41.248	1.00	0.00	C
ATOM	1803	C	SER A 118	15.060	-32.944	-39.984	1.00	0.00	C
ATOM	1804	O	SER A 118	16.156	-32.380	-40.027	1.00	0.00	O
ATOM	1805	CB	SER A 118	15.004	-33.892	-42.328	1.00	0.00	C
ATOM	1806	OG	SER A 118	15.368	-35.179	-41.872	1.00	0.00	O
ATOM	1807	H	SER A 118	14.290	-31.451	-42.537	1.00	0.00	H
ATOM	1808	HA	SER A 118	13.345	-33.746	-40.994	1.00	0.00	H
ATOM	1809	HB2	SER A 118	14.379	-33.993	-43.217	1.00	0.00	H
ATOM	1810	HB3	SER A 118	15.897	-33.322	-42.589	1.00	0.00	H
ATOM	1811	HG	SER A 118	15.892	-35.609	-42.552	1.00	0.00	H
ATOM	1812	N	LEU A 119	14.518	-33.353	-38.839	1.00	0.00	N
ATOM	1813	CA	LEU A 119	15.201	-33.325	-37.548	1.00	0.00	C
ATOM	1814	C	LEU A 119	15.597	-34.743	-37.130	1.00	0.00	C
ATOM	1815	O	LEU A 119	14.848	-35.703	-37.335	1.00	0.00	O
ATOM	1816	CB	LEU A 119	14.324	-32.623	-36.494	1.00	0.00	C
ATOM	1817	CG	LEU A 119	13.955	-31.160	-36.823	1.00	0.00	C
ATOM	1818	CD1	LEU A 119	13.219	-30.532	-35.637	1.00	0.00	C
ATOM	1819	CD2	LEU A 119	15.189	-30.304	-37.114	1.00	0.00	C
ATOM	1820	H	LEU A 119	13.597	-33.764	-38.875	1.00	0.00	H
ATOM	1821	HA	LEU A 119	16.129	-32.761	-37.641	1.00	0.00	H
ATOM	1822	HB2	LEU A 119	14.862	-32.639	-35.548	1.00	0.00	H
ATOM	1823	HB3	LEU A 119	13.402	-33.191	-36.364	1.00	0.00	H
ATOM	1824	HG	LEU A 119	13.294	-31.134	-37.686	1.00	0.00	H
ATOM	1825	HD21	LEU A 119	14.894	-29.258	-37.186	1.00	0.00	H
ATOM	1826	HD22	LEU A 119	15.931	-30.436	-36.330	1.00	0.00	H
ATOM	1827	HD23	LEU A 119	15.611	-30.593	-38.075	1.00	0.00	H
ATOM	1828	HD11	LEU A 119	12.928	-29.512	-35.890	1.00	0.00	H
ATOM	1829	HD12	LEU A 119	12.313	-31.102	-35.435	1.00	0.00	H
ATOM	1830	HD13	LEU A 119	13.855	-30.525	-34.753	1.00	0.00	H
ATOM	1831	N	SER A 120	16.735	-34.867	-36.449	1.00	0.00	N



ATOM	1832	CA	SER A 120	17.180	-36.145	-35.891	1.00	0.00	C
ATOM	1833	C	SER A 120	17.784	-35.980	-34.505	1.00	0.00	C
ATOM	1834	O	SER A 120	18.568	-35.063	-34.266	1.00	0.00	O
ATOM	1835	CB	SER A 120	18.134	-36.857	-36.847	1.00	0.00	C
ATOM	1836	OG	SER A 120	19.362	-36.163	-37.000	1.00	0.00	O
ATOM	1837	H	SER A 120	17.292	-34.038	-36.257	1.00	0.00	H
ATOM	1838	HA	SER A 120	16.309	-36.787	-35.782	1.00	0.00	H
ATOM	1839	HB2	SER A 120	18.336	-37.857	-36.459	1.00	0.00	H
ATOM	1840	HB3	SER A 120	17.651	-36.957	-37.820	1.00	0.00	H
ATOM	1841	HG	SER A 120	19.170	-35.218	-36.926	1.00	0.00	H
ATOM	1842	N	LEU A 121	17.384	-36.852	-33.584	1.00	0.00	N
ATOM	1843	CA	LEU A 121	17.939	-36.929	-32.241	1.00	0.00	C
ATOM	1844	C	LEU A 121	18.898	-38.115	-32.152	1.00	0.00	C
ATOM	1845	O	LEU A 121	18.556	-39.241	-32.514	1.00	0.00	O
ATOM	1846	CB	LEU A 121	16.792	-36.955	-31.215	1.00	0.00	C
ATOM	1847	CG	LEU A 121	17.273	-36.979	-29.751	1.00	0.00	C
ATOM	1848	CD1	LEU A 121	16.301	-36.197	-28.866	1.00	0.00	C
ATOM	1849	CD2	LEU A 121	17.364	-38.404	-29.198	1.00	0.00	C
ATOM	1850	H	LEU A 121	16.810	-37.630	-33.894	1.00	0.00	H
ATOM	1851	HA	LEU A 121	18.523	-36.029	-32.046	1.00	0.00	H
ATOM	1852	HB2	LEU A 121	16.207	-36.048	-31.371	1.00	0.00	H
ATOM	1853	HB3	LEU A 121	16.138	-37.808	-31.404	1.00	0.00	H
ATOM	1854	HG	LEU A 121	18.250	-36.502	-29.678	1.00	0.00	H
ATOM	1855	HD21	LEU A 121	17.910	-39.049	-29.882	1.00	0.00	H
ATOM	1856	HD22	LEU A 121	17.906	-38.383	-28.255	1.00	0.00	H
ATOM	1857	HD23	LEU A 121	16.366	-38.815	-29.050	1.00	0.00	H
ATOM	1858	HD11	LEU A 121	16.600	-36.268	-27.822	1.00	0.00	H
ATOM	1859	HD12	LEU A 121	15.292	-36.594	-28.977	1.00	0.00	H
ATOM	1860	HD13	LEU A 121	16.302	-35.147	-29.157	1.00	0.00	H
ATOM	1861	N	ILE A 122	20.070	-37.873	-31.583	1.00	0.00	N

ATOM	1862	CA	ILE A 122	20.992	-38.899	-31.110	1.00	0.00	C
ATOM	1863	C	ILE A 122	20.883	-38.946	-29.584	1.00	0.00	C
ATOM	1864	O	ILE A 122	20.764	-37.905	-28.940	1.00	0.00	O
ATOM	1865	CB	ILE A 122	22.433	-38.619	-31.602	1.00	0.00	C
ATOM	1866	CG1	ILE A 122	22.492	-38.331	-33.123	1.00	0.00	C
ATOM	1867	CG2	ILE A 122	23.350	-39.815	-31.289	1.00	0.00	C
ATOM	1868	CD1	ILE A 122	22.469	-36.837	-33.475	1.00	0.00	C
ATOM	1869	H	ILE A 122	20.258	-36.921	-31.279	1.00	0.00	H
ATOM	1870	HA	ILE A 122	20.682	-39.862	-31.509	1.00	0.00	H
ATOM	1871	HB	ILE A 122	22.827	-37.756	-31.067	1.00	0.00	H
ATOM	1872	HG12	ILE A 122	23.413	-38.741	-33.537	1.00	0.00	H
ATOM	1873	HG13	ILE A 122	21.658	-38.825	-33.618	1.00	0.00	H
ATOM	1874	HG21	ILE A 122	24.365	-39.605	-31.630	1.00	0.00	H
ATOM	1875	HG22	ILE A 122	22.987	-40.711	-31.794	1.00	0.00	H
ATOM	1876	HG23	ILE A 122	23.393	-39.998	-30.217	1.00	0.00	H
ATOM	1877	HD11	ILE A 122	22.604	-36.718	-34.550	1.00	0.00	H
ATOM	1878	HD12	ILE A 122	21.519	-36.385	-33.194	1.00	0.00	H
ATOM	1879	HD13	ILE A 122	23.276	-36.321	-32.957	1.00	0.00	H
ATOM	1880	N	ARG A 123	20.995	-40.127	-28.978	1.00	0.00	N
ATOM	1881	CA	ARG A 123	21.327	-40.252	-27.551	1.00	0.00	C
ATOM	1882	C	ARG A 123	22.633	-41.013	-27.394	1.00	0.00	C
ATOM	1883	O	ARG A 123	22.848	-42.007	-28.090	1.00	0.00	O
ATOM	1884	CB	ARG A 123	20.135	-40.800	-26.743	1.00	0.00	C
ATOM	1885	CG	ARG A 123	19.896	-42.319	-26.839	1.00	0.00	C
ATOM	1886	CD	ARG A 123	20.722	-43.108	-25.810	1.00	0.00	C
ATOM	1887	NE	ARG A 123	20.310	-44.520	-25.709	1.00	0.00	N
ATOM	1888	CZ	ARG A 123	19.320	-44.996	-24.976	1.00	0.00	C
ATOM	1889	NH1	ARG A 123	18.534	-44.232	-24.270	1.00	0.00	N
ATOM	1890	NH2	ARG A 123	19.083	-46.274	-24.973	1.00	0.00	N
ATOM	1891	H	ARG A 123	21.082	-40.948	-29.571	1.00	0.00	H

ATOM	1892	HA	ARG A 123	21.525	-39.254	-27.156	1.00	0.00	H
ATOM	1893	HB2	ARG A 123	20.263	-40.524	-25.695	1.00	0.00	H
ATOM	1894	HB3	ARG A 123	19.234	-40.291	-27.089	1.00	0.00	H
ATOM	1895	HG2	ARG A 123	20.127	-42.665	-27.845	1.00	0.00	H
ATOM	1896	HG3	ARG A 123	18.838	-42.502	-26.646	1.00	0.00	H
ATOM	1897	HD2	ARG A 123	20.610	-42.626	-24.841	1.00	0.00	H
ATOM	1898	HD3	ARG A 123	21.779	-43.078	-26.070	1.00	0.00	H
ATOM	1899	HE	ARG A 123	20.950	-45.212	-26.079	1.00	0.00	H
ATOM	1900	HH11	ARG A 123	18.831	-43.285	-24.107	1.00	0.00	H
ATOM	1901	HH12	ARG A 123	17.925	-44.635	-23.583	1.00	0.00	H
ATOM	1902	HH21	ARG A 123	19.667	-46.871	-25.557	1.00	0.00	H
ATOM	1903	HH22	ARG A 123	18.344	-46.658	-24.419	1.00	0.00	H
ATOM	1904	N	LEU A 124	23.464	-40.577	-26.456	1.00	0.00	N
ATOM	1905	CA	LEU A 124	24.765	-41.167	-26.145	1.00	0.00	C
ATOM	1906	C	LEU A 124	24.841	-41.405	-24.633	1.00	0.00	C
ATOM	1907	O	LEU A 124	24.603	-40.486	-23.850	1.00	0.00	O
ATOM	1908	CB	LEU A 124	25.889	-40.228	-26.633	1.00	0.00	C
ATOM	1909	CG	LEU A 124	25.898	-39.898	-28.140	1.00	0.00	C
ATOM	1910	CD1	LEU A 124	26.962	-38.845	-28.450	1.00	0.00	C
ATOM	1911	CD2	LEU A 124	26.195	-41.125	-29.000	1.00	0.00	C
ATOM	1912	H	LEU A 124	23.208	-39.736	-25.943	1.00	0.00	H
ATOM	1913	HA	LEU A 124	24.871	-42.129	-26.645	1.00	0.00	H
ATOM	1914	HB2	LEU A 124	25.795	-39.289	-26.088	1.00	0.00	H
ATOM	1915	HB3	LEU A 124	26.849	-40.670	-26.369	1.00	0.00	H
ATOM	1916	HG	LEU A 124	24.931	-39.489	-28.431	1.00	0.00	H
ATOM	1917	HD11	LEU A 124	26.989	-38.646	-29.522	1.00	0.00	H
ATOM	1918	HD12	LEU A 124	26.719	-37.918	-27.933	1.00	0.00	H
ATOM	1919	HD13	LEU A 124	27.944	-39.195	-28.128	1.00	0.00	H
ATOM	1920	HD21	LEU A 124	27.173	-41.531	-28.740	1.00	0.00	H
ATOM	1921	HD22	LEU A 124	26.193	-40.846	-30.052	1.00	0.00	H

ATOM	1922	HD23	LEU	A	124	25.428	-41.880	-28.847	1.00	0.00	H
ATOM	1923	N	ALA	A	125	25.099	-42.645	-24.214	1.00	0.00	N
ATOM	1924	CA	ALA	A	125	25.290	-42.965	-22.801	1.00	0.00	C
ATOM	1925	C	ALA	A	125	26.560	-42.286	-22.264	1.00	0.00	C
ATOM	1926	O	ALA	A	125	27.632	-42.451	-22.848	1.00	0.00	O
ATOM	1927	CB	ALA	A	125	25.332	-44.485	-22.613	1.00	0.00	C
ATOM	1928	H	ALA	A	125	25.276	-43.368	-24.899	1.00	0.00	H
ATOM	1929	HA	ALA	A	125	24.434	-42.584	-22.252	1.00	0.00	H
ATOM	1930	HB1	ALA	A	125	25.383	-44.716	-21.547	1.00	0.00	H
ATOM	1931	HB2	ALA	A	125	24.429	-44.938	-23.020	1.00	0.00	H
ATOM	1932	HB3	ALA	A	125	26.209	-44.897	-23.110	1.00	0.00	H
ATOM	1933	N	VAL	A	126	26.457	-41.559	-21.151	1.00	0.00	N
ATOM	1934	CA	VAL	A	126	27.574	-40.805	-20.544	1.00	0.00	C
ATOM	1935	C	VAL	A	126	28.640	-41.715	-19.926	1.00	0.00	C
ATOM	1936	O	VAL	A	126	29.812	-41.351	-19.890	1.00	0.00	O
ATOM	1937	CB	VAL	A	126	27.066	-39.795	-19.494	1.00	0.00	C
ATOM	1938	CG1	VAL	A	126	26.022	-38.847	-20.098	1.00	0.00	C
ATOM	1939	CG2	VAL	A	126	26.477	-40.468	-18.244	1.00	0.00	C
ATOM	1940	H	VAL	A	126	25.541	-41.497	-20.711	1.00	0.00	H
ATOM	1941	HA	VAL	A	126	28.072	-40.236	-21.326	1.00	0.00	H
ATOM	1942	HB	VAL	A	126	27.913	-39.186	-19.179	1.00	0.00	H
ATOM	1943	HG11	VAL	A	126	25.795	-38.059	-19.381	1.00	0.00	H
ATOM	1944	HG12	VAL	A	126	26.421	-38.392	-21.003	1.00	0.00	H
ATOM	1945	HG13	VAL	A	126	25.104	-39.385	-20.333	1.00	0.00	H
ATOM	1946	HG21	VAL	A	126	25.731	-41.211	-18.511	1.00	0.00	H
ATOM	1947	HG22	VAL	A	126	26.014	-39.720	-17.601	1.00	0.00	H
ATOM	1948	HG23	VAL	A	126	27.271	-40.947	-17.675	1.00	0.00	H
ATOM	1949	N	ARG	A	127	28.264	-42.957	-19.596	1.00	0.00	N
ATOM	1950	CA	ARG	A	127	29.091	-43.949	-18.894	1.00	0.00	C
ATOM	1951	C	ARG	A	127	28.913	-45.341	-19.537	1.00	0.00	C

ATOM	1952	O	ARG A 127	28.294	-46.226	-18.950	1.00	0.00	O
ATOM	1953	CB	ARG A 127	28.709	-43.859	-17.410	1.00	0.00	C
ATOM	1954	CG	ARG A 127	29.694	-44.532	-16.445	1.00	0.00	C
ATOM	1955	CD	ARG A 127	29.337	-44.218	-14.981	1.00	0.00	C
ATOM	1956	NE	ARG A 127	28.027	-44.785	-14.591	1.00	0.00	N
ATOM	1957	CZ	ARG A 127	26.842	-44.205	-14.700	1.00	0.00	C
ATOM	1958	NH1	ARG A 127	26.672	-42.965	-15.050	1.00	0.00	N
ATOM	1959	NH2	ARG A 127	25.764	-44.905	-14.536	1.00	0.00	N
ATOM	1960	H	ARG A 127	27.278	-43.157	-19.683	1.00	0.00	H
ATOM	1961	HA	ARG A 127	30.140	-43.665	-18.979	1.00	0.00	H
ATOM	1962	HB2	ARG A 127	27.711	-44.281	-17.284	1.00	0.00	H
ATOM	1963	HB3	ARG A 127	28.670	-42.803	-17.136	1.00	0.00	H
ATOM	1964	HG2	ARG A 127	29.689	-45.610	-16.603	1.00	0.00	H
ATOM	1965	HG3	ARG A 127	30.698	-44.151	-16.642	1.00	0.00	H
ATOM	1966	HD2	ARG A 127	30.114	-44.641	-14.341	1.00	0.00	H
ATOM	1967	HD3	ARG A 127	29.346	-43.139	-14.828	1.00	0.00	H
ATOM	1968	HE	ARG A 127	28.020	-45.746	-14.308	1.00	0.00	H
ATOM	1969	HH11	ARG A 127	27.463	-42.388	-15.274	1.00	0.00	H
ATOM	1970	HH12	ARG A 127	25.712	-42.688	-15.276	1.00	0.00	H
ATOM	1971	HH21	ARG A 127	25.793	-45.900	-14.511	1.00	0.00	H
ATOM	1972	HH22	ARG A 127	24.901	-44.499	-14.924	1.00	0.00	H
ATOM	1973	N	PRO A 128	29.234	-45.478	-20.837	1.00	0.00	N
ATOM	1974	CA	PRO A 128	28.738	-46.535	-21.723	1.00	0.00	C
ATOM	1975	C	PRO A 128	29.149	-47.935	-21.238	1.00	0.00	C
ATOM	1976	O	PRO A 128	29.228	-48.879	-22.029	1.00	0.00	O
ATOM	1977	CB	PRO A 128	29.303	-46.175	-23.105	1.00	0.00	C
ATOM	1978	CG	PRO A 128	30.610	-45.470	-22.761	1.00	0.00	C
ATOM	1979	CD	PRO A 128	30.194	-44.647	-21.547	1.00	0.00	C
ATOM	1980	HA	PRO A 128	27.650	-46.498	-21.756	1.00	0.00	H
ATOM	1981	HB2	PRO A 128	29.484	-47.038	-23.740	1.00	0.00	H

ATOM	1982	HB3 PRO A 128	28.632	-45.474	-23.607	1.00	0.00	H
ATOM	1983	HG2 PRO A 128	31.365	-46.203	-22.473	1.00	0.00	H
ATOM	1984	HG3 PRO A 128	30.969	-44.856	-23.581	1.00	0.00	H
ATOM	1985	HD2 PRO A 128	29.721	-43.719	-21.871	1.00	0.00	H
ATOM	1986	HD3 PRO A 128	31.060	-44.436	-20.922	1.00	0.00	H
ATOM	1987	H PRO A 128	29.373	-48.095	-20.184	1.00	0.00	H
ATOM	1988	N ASP A 129	22.436	-50.640	-28.124	1.00	0.00	N
ATOM	1989	CA ASP A 129	21.606	-49.436	-28.177	1.00	0.00	C
ATOM	1990	C ASP A 129	21.352	-48.782	-26.806	1.00	0.00	C
ATOM	1991	O ASP A 129	20.647	-47.771	-26.712	1.00	0.00	O
ATOM	1992	CB ASP A 129	20.295	-49.717	-28.923	1.00	0.00	C
ATOM	1993	CG ASP A 129	20.503	-49.899	-30.428	1.00	0.00	C
ATOM	1994	OD1 ASP A 129	21.168	-50.881	-30.805	1.00	0.00	O
ATOM	1995	OD2 ASP A 129	19.705	-49.263	-31.161	1.00	0.00	O
ATOM	1996	HA ASP A 129	22.156	-48.706	-28.763	1.00	0.00	H
ATOM	1997	HB2 ASP A 129	19.829	-50.611	-28.505	1.00	0.00	H
ATOM	1998	HB3 ASP A 129	19.606	-48.885	-28.765	1.00	0.00	H
ATOM	1999	H ASP A 129	22.454	-51.206	-28.976	1.00	0.00	H
ATOM	2000	H ASP A 129	22.090	-51.224	-27.369	1.00	0.00	H
ATOM	2001	N TYR A 130	21.992	-49.277	-25.741	1.00	0.00	N
ATOM	2002	CA TYR A 130	22.263	-48.464	-24.547	1.00	0.00	C
ATOM	2003	C TYR A 130	23.263	-47.350	-24.887	1.00	0.00	C
ATOM	2004	O TYR A 130	22.895	-46.176	-24.920	1.00	0.00	O
ATOM	2005	CB TYR A 130	22.771	-49.347	-23.391	1.00	0.00	C
ATOM	2006	CG TYR A 130	23.259	-48.569	-22.172	1.00	0.00	C
ATOM	2007	CD1 TYR A 130	22.338	-47.886	-21.352	1.00	0.00	C
ATOM	2008	CD2 TYR A 130	24.634	-48.510	-21.866	1.00	0.00	C
ATOM	2009	CE1 TYR A 130	22.785	-47.123	-20.250	1.00	0.00	C
ATOM	2010	CE2 TYR A 130	25.080	-47.762	-20.758	1.00	0.00	C
ATOM	2011	CZ TYR A 130	24.162	-47.061	-19.948	1.00	0.00	C

ATOM	2012	OH	TYR A 130	24.632	-46.335	-18.897	1.00	0.00	O
ATOM	2013	H	TYR A 130	22.543	-50.110	-25.901	1.00	0.00	H
ATOM	2014	HA	TYR A 130	21.342	-47.983	-24.217	1.00	0.00	H
ATOM	2015	HB2	TYR A 130	21.965	-50.014	-23.078	1.00	0.00	H
ATOM	2016	HB3	TYR A 130	23.587	-49.975	-23.755	1.00	0.00	H
ATOM	2017	HD1	TYR A 130	21.283	-47.942	-21.570	1.00	0.00	H
ATOM	2018	HD2	TYR A 130	25.352	-49.052	-22.468	1.00	0.00	H
ATOM	2019	HE1	TYR A 130	22.081	-46.579	-19.636	1.00	0.00	H
ATOM	2020	HE2	TYR A 130	26.126	-47.727	-20.497	1.00	0.00	H
ATOM	2021	HH	TYR A 130	23.968	-46.063	-18.248	1.00	0.00	H
ATOM	2022	N	ASN A 131	24.436	-47.753	-25.384	1.00	0.00	N
ATOM	2023	CA	ASN A 131	25.605	-46.901	-25.602	1.00	0.00	C
ATOM	2024	C	ASN A 131	25.331	-45.726	-26.552	1.00	0.00	C
ATOM	2025	O	ASN A 131	25.723	-44.598	-26.259	1.00	0.00	O
ATOM	2026	CB	ASN A 131	26.769	-47.771	-26.131	1.00	0.00	C
ATOM	2027	CG	ASN A 131	27.141	-48.939	-25.225	1.00	0.00	C
ATOM	2028	OD1	ASN A 131	26.299	-49.682	-24.752	1.00	0.00	O
ATOM	2029	ND2	ASN A 131	28.402	-49.105	-24.912	1.00	0.00	N
ATOM	2030	H	ASN A 131	24.631	-48.747	-25.325	1.00	0.00	H
ATOM	2031	HA	ASN A 131	25.902	-46.481	-24.641	1.00	0.00	H
ATOM	2032	HB2	ASN A 131	27.643	-47.132	-26.259	1.00	0.00	H
ATOM	2033	HB3	ASN A 131	26.512	-48.180	-27.108	1.00	0.00	H
ATOM	2034	HD21	ASN A 131	29.108	-48.482	-25.253	1.00	0.00	H
ATOM	2035	HD22	ASN A 131	28.594	-49.730	-24.141	1.00	0.00	H
ATOM	2036	N	GLN A 132	24.650	-45.977	-27.672	1.00	0.00	N
ATOM	2037	CA	GLN A 132	24.299	-44.979	-28.686	1.00	0.00	C
ATOM	2038	C	GLN A 132	22.949	-45.342	-29.317	1.00	0.00	C
ATOM	2039	O	GLN A 132	22.684	-46.522	-29.536	1.00	0.00	O
ATOM	2040	CB	GLN A 132	25.379	-44.902	-29.787	1.00	0.00	C
ATOM	2041	CG	GLN A 132	26.811	-44.675	-29.271	1.00	0.00	C

ATOM	2042	CD	GLN A 132	27.807	-44.298	-30.364	1.00	0.00	C
ATOM	2043	OE1	GLN A 132	27.565	-44.420	-31.554	1.00	0.00	O
ATOM	2044	NE2	GLN A 132	28.975	-43.842	-29.978	1.00	0.00	N
ATOM	2045	H	GLN A 132	24.312	-46.916	-27.827	1.00	0.00	H
ATOM	2046	HA	GLN A 132	24.215	-44.004	-28.212	1.00	0.00	H
ATOM	2047	HB2	GLN A 132	25.115	-44.077	-30.452	1.00	0.00	H
ATOM	2048	HB3	GLN A 132	25.366	-45.824	-30.371	1.00	0.00	H
ATOM	2049	HG2	GLN A 132	27.173	-45.578	-28.781	1.00	0.00	H
ATOM	2050	HG3	GLN A 132	26.801	-43.873	-28.536	1.00	0.00	H
ATOM	2051	HE21	GLN A 132	29.169	-43.718	-28.989	1.00	0.00	H
ATOM	2052	HE22	GLN A 132	29.648	-43.550	-30.675	1.00	0.00	H
ATOM	2053	N	LYS A 133	22.153	-44.352	-29.736	1.00	0.00	N
ATOM	2054	CA	LYS A 133	21.011	-44.567	-30.645	1.00	0.00	C
ATOM	2055	C	LYS A 133	20.738	-43.321	-31.484	1.00	0.00	C
ATOM	2056	O	LYS A 133	20.755	-42.215	-30.952	1.00	0.00	O
ATOM	2057	CB	LYS A 133	19.764	-45.009	-29.854	1.00	0.00	C
ATOM	2058	CG	LYS A 133	18.697	-45.632	-30.765	1.00	0.00	C
ATOM	2059	CD	LYS A 133	17.467	-46.066	-29.954	1.00	0.00	C
ATOM	2060	CE	LYS A 133	16.652	-47.133	-30.698	1.00	0.00	C
ATOM	2061	NZ	LYS A 133	17.302	-48.464	-30.638	1.00	0.00	N
ATOM	2062	H	LYS A 133	22.411	-43.397	-29.494	1.00	0.00	H
ATOM	2063	HA	LYS A 133	21.283	-45.377	-31.326	1.00	0.00	H
ATOM	2064	HB2	LYS A 133	19.338	-44.155	-29.327	1.00	0.00	H
ATOM	2065	HB3	LYS A 133	20.060	-45.760	-29.119	1.00	0.00	H
ATOM	2066	HG2	LYS A 133	18.376	-44.909	-31.516	1.00	0.00	H
ATOM	2067	HG3	LYS A 133	19.136	-46.490	-31.276	1.00	0.00	H
ATOM	2068	HD2	LYS A 133	16.839	-45.187	-29.795	1.00	0.00	H
ATOM	2069	HD3	LYS A 133	17.773	-46.449	-28.977	1.00	0.00	H
ATOM	2070	HE2	LYS A 133	15.658	-47.188	-30.249	1.00	0.00	H
ATOM	2071	HE3	LYS A 133	16.541	-46.820	-31.741	1.00	0.00	H



ATOM	2072	HZ1	LYS	A	133	16.801	-49.178	-31.143	1.00	0.00	H
ATOM	2073	HZ2	LYS	A	133	17.484	-48.776	-29.693	1.00	0.00	H
ATOM	2074	HZ3	LYS	A	133	18.233	-48.448	-31.073	1.00	0.00	H
ATOM	2075	N	TYR	A	134	20.411	-43.516	-32.760	1.00	0.00	N
ATOM	2076	CA	TYR	A	134	19.962	-42.474	-33.692	1.00	0.00	C
ATOM	2077	C	TYR	A	134	18.449	-42.582	-33.945	1.00	0.00	C
ATOM	2078	O	TYR	A	134	17.930	-43.688	-34.102	1.00	0.00	O
ATOM	2079	CB	TYR	A	134	20.763	-42.612	-34.997	1.00	0.00	C
ATOM	2080	CG	TYR	A	134	20.545	-41.495	-36.000	1.00	0.00	C
ATOM	2081	CD1	TYR	A	134	19.536	-41.594	-36.980	1.00	0.00	C
ATOM	2082	CD2	TYR	A	134	21.367	-40.354	-35.955	1.00	0.00	C
ATOM	2083	CE1	TYR	A	134	19.352	-40.551	-37.911	1.00	0.00	C
ATOM	2084	CE2	TYR	A	134	21.163	-39.295	-36.859	1.00	0.00	C
ATOM	2085	CZ	TYR	A	134	20.167	-39.401	-37.851	1.00	0.00	C
ATOM	2086	OH	TYR	A	134	19.969	-38.379	-38.723	1.00	0.00	O
ATOM	2087	H	TYR	A	134	20.363	-44.465	-33.092	1.00	0.00	H
ATOM	2088	HA	TYR	A	134	20.168	-41.489	-33.270	1.00	0.00	H
ATOM	2089	HB2	TYR	A	134	20.511	-43.563	-35.470	1.00	0.00	H
ATOM	2090	HB3	TYR	A	134	21.825	-42.646	-34.753	1.00	0.00	H
ATOM	2091	HD1	TYR	A	134	18.906	-42.472	-37.022	1.00	0.00	H
ATOM	2092	HD2	TYR	A	134	22.161	-40.291	-35.224	1.00	0.00	H
ATOM	2093	HE1	TYR	A	134	18.586	-40.614	-38.668	1.00	0.00	H
ATOM	2094	HE2	TYR	A	134	21.772	-38.405	-36.805	1.00	0.00	H
ATOM	2095	HH	TYR	A	134	20.019	-37.528	-38.263	1.00	0.00	H
ATOM	2096	N	ILE	A	135	17.752	-41.449	-34.045	1.00	0.00	N
ATOM	2097	CA	ILE	A	135	16.310	-41.346	-34.315	1.00	0.00	C
ATOM	2098	C	ILE	A	135	16.084	-40.234	-35.346	1.00	0.00	C
ATOM	2099	O	ILE	A	135	16.319	-39.065	-35.051	1.00	0.00	O
ATOM	2100	CB	ILE	A	135	15.519	-41.072	-33.005	1.00	0.00	C
ATOM	2101	CG1	ILE	A	135	15.700	-42.219	-31.981	1.00	0.00	C

ATOM	2102	CG2 ILE A 135	14.023	-40.840	-33.305	1.00	0.00	C
ATOM	2103	CD1 ILE A 135	15.024	-41.976	-30.624	1.00	0.00	C
ATOM	2104	H ILE A 135	18.227	-40.579	-33.816	1.00	0.00	H
ATOM	2105	HA ILE A 135	15.952	-42.285	-34.738	1.00	0.00	H
ATOM	2106	HB ILE A 135	15.911	-40.157	-32.556	1.00	0.00	H
ATOM	2107	HG12 ILE A 135	15.318	-43.148	-32.406	1.00	0.00	H
ATOM	2108	HG13 ILE A 135	16.762	-42.351	-31.778	1.00	0.00	H
ATOM	2109	HD11 ILE A 135	15.334	-42.751	-29.924	1.00	0.00	H
ATOM	2110	HD12 ILE A 135	13.939	-42.017	-30.722	1.00	0.00	H
ATOM	2111	HD13 ILE A 135	15.320	-41.003	-30.230	1.00	0.00	H
ATOM	2112	HG21 ILE A 135	13.889	-39.995	-33.979	1.00	0.00	H
ATOM	2113	HG22 ILE A 135	13.483	-40.591	-32.392	1.00	0.00	H
ATOM	2114	HG23 ILE A 135	13.582	-41.730	-33.755	1.00	0.00	H
ATOM	2115	N ALA A 136	15.507	-40.564	-36.504	1.00	0.00	N
ATOM	2116	CA ALA A 136	14.855	-39.575	-37.366	1.00	0.00	C
ATOM	2117	C ALA A 136	13.444	-39.277	-36.826	1.00	0.00	C
ATOM	2118	O ALA A 136	12.671	-40.205	-36.577	1.00	0.00	O
ATOM	2119	CB ALA A 136	14.820	-40.109	-38.802	1.00	0.00	C
ATOM	2120	H ALA A 136	15.260	-41.529	-36.651	1.00	0.00	H
ATOM	2121	HA ALA A 136	15.431	-38.647	-37.364	1.00	0.00	H
ATOM	2122	HB1 ALA A 136	14.353	-39.370	-39.454	1.00	0.00	H
ATOM	2123	HB2 ALA A 136	15.836	-40.298	-39.152	1.00	0.00	H
ATOM	2124	HB3 ALA A 136	14.243	-41.034	-38.845	1.00	0.00	H
ATOM	2125	N ILE A 137	13.132	-38.008	-36.556	1.00	0.00	N
ATOM	2126	CA ILE A 137	11.854	-37.620	-35.944	1.00	0.00	C
ATOM	2127	C ILE A 137	10.745	-37.585	-37.000	1.00	0.00	C
ATOM	2128	O ILE A 137	10.852	-36.910	-38.018	1.00	0.00	O
ATOM	2129	CB ILE A 137	12.017	-36.292	-35.178	1.00	0.00	C
ATOM	2130	CG1 ILE A 137	12.875	-36.523	-33.909	1.00	0.00	C
ATOM	2131	CG2 ILE A 137	10.665	-35.691	-34.762	1.00	0.00	C

ATOM	2132	CD1 ILE A 137	13.977	-35.475	-33.773	1.00	0.00	C
ATOM	2133	H ILE A 137	13.774	-37.268	-36.828	1.00	0.00	H
ATOM	2134	HA ILE A 137	11.579	-38.379	-35.211	1.00	0.00	H
ATOM	2135	HB ILE A 137	12.512	-35.577	-35.839	1.00	0.00	H
ATOM	2136	HG12 ILE A 137	13.355	-37.502	-33.931	1.00	0.00	H
ATOM	2137	HG13 ILE A 137	12.246	-36.494	-33.016	1.00	0.00	H
ATOM	2138	HD11 ILE A 137	14.423	-35.551	-32.784	1.00	0.00	H
ATOM	2139	HD12 ILE A 137	14.739	-35.651	-34.526	1.00	0.00	H
ATOM	2140	HD13 ILE A 137	13.564	-34.483	-33.918	1.00	0.00	H
ATOM	2141	HG21 ILE A 137	10.103	-35.377	-35.642	1.00	0.00	H
ATOM	2142	HG22 ILE A 137	10.829	-34.807	-34.146	1.00	0.00	H
ATOM	2143	HG23 ILE A 137	10.085	-36.411	-34.182	1.00	0.00	H
ATOM	2144	N THR A 138	9.645	-38.290	-36.726	1.00	0.00	N
ATOM	2145	CA THR A 138	8.498	-38.440	-37.644	1.00	0.00	C
ATOM	2146	C THR A 138	7.315	-37.520	-37.324	1.00	0.00	C
ATOM	2147	O THR A 138	6.333	-37.513	-38.065	1.00	0.00	O
ATOM	2148	CB THR A 138	8.022	-39.900	-37.684	1.00	0.00	C
ATOM	2149	OG1 THR A 138	7.709	-40.357	-36.387	1.00	0.00	O
ATOM	2150	CG2 THR A 138	9.081	-40.845	-38.253	1.00	0.00	C
ATOM	2151	H THR A 138	9.632	-38.831	-35.875	1.00	0.00	H
ATOM	2152	HA THR A 138	8.816	-38.175	-38.653	1.00	0.00	H
ATOM	2153	HB THR A 138	7.132	-39.969	-38.309	1.00	0.00	H
ATOM	2154	HG21 THR A 138	8.679	-41.857	-38.302	1.00	0.00	H
ATOM	2155	HG22 THR A 138	9.346	-40.526	-39.261	1.00	0.00	H
ATOM	2156	HG23 THR A 138	9.980	-40.840	-37.635	1.00	0.00	H
ATOM	2157	HG1 THR A 138	8.436	-40.916	-36.102	1.00	0.00	H
ATOM	2158	N LYS A 139	7.394	-36.724	-36.247	1.00	0.00	N
ATOM	2159	CA LYS A 139	6.368	-35.755	-35.831	1.00	0.00	C
ATOM	2160	C LYS A 139	7.001	-34.519	-35.196	1.00	0.00	C
ATOM	2161	O LYS A 139	7.706	-34.636	-34.194	1.00	0.00	O

ATOM	2162	CB	LYS A 139	5.399	-36.390	-34.824	1.00	0.00	C
ATOM	2163	CG	LYS A 139	4.450	-37.429	-35.435	1.00	0.00	C
ATOM	2164	CD	LYS A 139	3.465	-37.888	-34.357	1.00	0.00	C
ATOM	2165	CE	LYS A 139	2.395	-38.813	-34.930	1.00	0.00	C
ATOM	2166	NZ	LYS A 139	1.403	-39.149	-33.879	1.00	0.00	N
ATOM	2167	H	LYS A 139	8.243	-36.764	-35.700	1.00	0.00	H
ATOM	2168	HA	LYS A 139	5.802	-35.432	-36.707	1.00	0.00	H
ATOM	2169	HB2	LYS A 139	5.976	-36.851	-34.021	1.00	0.00	H
ATOM	2170	HB3	LYS A 139	4.792	-35.590	-34.392	1.00	0.00	H
ATOM	2171	HG2	LYS A 139	3.903	-36.977	-36.263	1.00	0.00	H
ATOM	2172	HG3	LYS A 139	5.015	-38.289	-35.797	1.00	0.00	H
ATOM	2173	HD2	LYS A 139	4.016	-38.421	-33.582	1.00	0.00	H
ATOM	2174	HD3	LYS A 139	2.983	-37.010	-33.920	1.00	0.00	H
ATOM	2175	HE2	LYS A 139	1.906	-38.303	-35.766	1.00	0.00	H
ATOM	2176	HE3	LYS A 139	2.879	-39.716	-35.316	1.00	0.00	H
ATOM	2177	HZ1	LYS A 139	0.676	-39.746	-34.248	1.00	0.00	H
ATOM	2178	HZ2	LYS A 139	0.983	-38.298	-33.521	1.00	0.00	H
ATOM	2179	HZ3	LYS A 139	1.858	-39.619	-33.107	1.00	0.00	H
ATOM	2180	N	VAL A 140	6.590	-33.344	-35.672	1.00	0.00	N
ATOM	2181	CA	VAL A 140	6.974	-32.042	-35.118	1.00	0.00	C
ATOM	2182	C	VAL A 140	5.751	-31.125	-35.115	1.00	0.00	C
ATOM	2183	O	VAL A 140	5.136	-30.895	-36.155	1.00	0.00	O
ATOM	2184	CB	VAL A 140	8.144	-31.406	-35.897	1.00	0.00	C
ATOM	2185	CG1	VAL A 140	8.675	-30.189	-35.138	1.00	0.00	C
ATOM	2186	CG2	VAL A 140	9.329	-32.359	-36.109	1.00	0.00	C
ATOM	2187	H	VAL A 140	5.960	-33.334	-36.459	1.00	0.00	H
ATOM	2188	HA	VAL A 140	7.300	-32.185	-34.091	1.00	0.00	H
ATOM	2189	HB	VAL A 140	7.791	-31.083	-36.876	1.00	0.00	H
ATOM	2190	HG11	VAL A 140	9.022	-30.476	-34.147	1.00	0.00	H
ATOM	2191	HG12	VAL A 140	7.900	-29.432	-35.038	1.00	0.00	H

ATOM	2192	HG13	VAL A 140	9.506	-29.769	-35.702	1.00	0.00	H
ATOM	2193	HG21	VAL A 140	9.035	-33.188	-36.753	1.00	0.00	H
ATOM	2194	HG22	VAL A 140	10.142	-31.831	-36.607	1.00	0.00	H
ATOM	2195	HG23	VAL A 140	9.677	-32.746	-35.152	1.00	0.00	H
ATOM	2196	N	GLU A 141	5.341	-30.653	-33.942	1.00	0.00	N
ATOM	2197	CA	GLU A 141	4.078	-29.939	-33.729	1.00	0.00	C
ATOM	2198	C	GLU A 141	4.362	-28.475	-33.356	1.00	0.00	C
ATOM	2199	O	GLU A 141	4.981	-28.189	-32.332	1.00	0.00	O
ATOM	2200	CB	GLU A 141	3.234	-30.676	-32.673	1.00	0.00	C
ATOM	2201	CG	GLU A 141	2.808	-32.075	-33.166	1.00	0.00	C
ATOM	2202	CD	GLU A 141	2.043	-32.922	-32.135	1.00	0.00	C
ATOM	2203	OE1	GLU A 141	2.082	-32.580	-30.929	1.00	0.00	O
ATOM	2204	OE2	GLU A 141	1.618	-34.032	-32.535	1.00	0.00	O
ATOM	2205	H	GLU A 141	5.866	-30.921	-33.112	1.00	0.00	H
ATOM	2206	HA	GLU A 141	3.498	-29.941	-34.652	1.00	0.00	H
ATOM	2207	HB2	GLU A 141	3.821	-30.764	-31.762	1.00	0.00	H
ATOM	2208	HB3	GLU A 141	2.340	-30.087	-32.460	1.00	0.00	H
ATOM	2209	HG2	GLU A 141	2.183	-31.945	-34.053	1.00	0.00	H
ATOM	2210	HG3	GLU A 141	3.694	-32.638	-33.465	1.00	0.00	H
ATOM	2211	N	ARG A 142	4.044	-27.543	-34.268	1.00	0.00	N
ATOM	2212	CA	ARG A 142	4.571	-26.161	-34.235	1.00	0.00	C
ATOM	2213	C	ARG A 142	3.576	-25.054	-34.610	1.00	0.00	C
ATOM	2214	O	ARG A 142	3.972	-23.962	-35.010	1.00	0.00	O
ATOM	2215	CB	ARG A 142	5.925	-26.076	-34.971	1.00	0.00	C
ATOM	2216	CG	ARG A 142	5.940	-26.320	-36.490	1.00	0.00	C
ATOM	2217	CD	ARG A 142	5.754	-27.792	-36.899	1.00	0.00	C
ATOM	2218	NE	ARG A 142	6.327	-28.106	-38.221	1.00	0.00	N
ATOM	2219	CZ	ARG A 142	6.017	-27.592	-39.395	1.00	0.00	C
ATOM	2220	NH1	ARG A 142	5.168	-26.627	-39.572	1.00	0.00	N
ATOM	2221	NH2	ARG A 142	6.628	-27.982	-40.457	1.00	0.00	N

ATOM	2222	H	ARG A 142	3.613	-27.868	-35.120	1.00	0.00	H
ATOM	2223	HA	ARG A 142	4.797	-25.935	-33.190	1.00	0.00	H
ATOM	2224	HB2	ARG A 142	6.324	-25.079	-34.802	1.00	0.00	H
ATOM	2225	HB3	ARG A 142	6.623	-26.772	-34.506	1.00	0.00	H
ATOM	2226	HG2	ARG A 142	6.910	-25.996	-36.868	1.00	0.00	H
ATOM	2227	HG3	ARG A 142	5.173	-25.709	-36.964	1.00	0.00	H
ATOM	2228	HD2	ARG A 142	6.254	-28.422	-36.168	1.00	0.00	H
ATOM	2229	HD3	ARG A 142	4.697	-28.053	-36.888	1.00	0.00	H
ATOM	2230	HE	ARG A 142	7.083	-28.795	-38.268	1.00	0.00	H
ATOM	2231	HH11	ARG A 142	4.839	-26.086	-38.799	1.00	0.00	H
ATOM	2232	HH12	ARG A 142	5.221	-26.165	-40.462	1.00	0.00	H
ATOM	2233	HH21	ARG A 142	7.363	-28.665	-40.273	1.00	0.00	H
ATOM	2234	HH22	ARG A 142	6.716	-27.339	-41.232	1.00	0.00	H
ATOM	2235	N	GLY A 143	2.279	-25.299	-34.425	1.00	0.00	N
ATOM	2236	CA	GLY A 143	1.241	-24.266	-34.534	1.00	0.00	C
ATOM	2237	C	GLY A 143	1.241	-23.542	-35.888	1.00	0.00	C
ATOM	2238	O	GLY A 143	1.014	-24.167	-36.921	1.00	0.00	O
ATOM	2239	H	GLY A 143	2.026	-26.199	-34.050	1.00	0.00	H
ATOM	2240	HA2	GLY A 143	0.262	-24.725	-34.403	1.00	0.00	H
ATOM	2241	HA3	GLY A 143	1.380	-23.537	-33.736	1.00	0.00	H
ATOM	2242	N	LYS A 144	1.447	-22.216	-35.879	1.00	0.00	N
ATOM	2243	CA	LYS A 144	1.487	-21.372	-37.091	1.00	0.00	C
ATOM	2244	C	LYS A 144	2.871	-21.250	-37.750	1.00	0.00	C
ATOM	2245	O	LYS A 144	2.976	-20.586	-38.779	1.00	0.00	O
ATOM	2246	CB	LYS A 144	0.877	-19.984	-36.784	1.00	0.00	C
ATOM	2247	CG	LYS A 144	-0.319	-19.627	-37.686	1.00	0.00	C
ATOM	2248	CD	LYS A 144	0.033	-19.432	-39.171	1.00	0.00	C
ATOM	2249	CE	LYS A 144	-1.245	-19.149	-39.970	1.00	0.00	C
ATOM	2250	NZ	LYS A 144	-0.968	-18.970	-41.415	1.00	0.00	N
ATOM	2251	H	LYS A 144	1.653	-21.781	-34.990	1.00	0.00	H

ATOM	2252	HA	LYS A 144	0.868	-21.864	-37.838	1.00	0.00	H
ATOM	2253	HB2	LYS A 144	0.523	-19.957	-35.750	1.00	0.00	H
ATOM	2254	HB3	LYS A 144	1.640	-19.206	-36.875	1.00	0.00	H
ATOM	2255	HG2	LYS A 144	-1.067	-20.415	-37.597	1.00	0.00	H
ATOM	2256	HG3	LYS A 144	-0.761	-18.701	-37.314	1.00	0.00	H
ATOM	2257	HD2	LYS A 144	0.732	-18.598	-39.273	1.00	0.00	H
ATOM	2258	HD3	LYS A 144	0.501	-20.337	-39.561	1.00	0.00	H
ATOM	2259	HE2	LYS A 144	-1.932	-19.987	-39.826	1.00	0.00	H
ATOM	2260	HE3	LYS A 144	-1.719	-18.246	-39.573	1.00	0.00	H
ATOM	2261	HZ1	LYS A 144	-0.380	-19.695	-41.794	1.00	0.00	H
ATOM	2262	HZ2	LYS A 144	-0.503	-18.074	-41.592	1.00	0.00	H
ATOM	2263	HZ3	LYS A 144	-1.813	-18.886	-41.959	1.00	0.00	H
ATOM	2264	N	TYR A 145	3.925	-21.834	-37.176	1.00	0.00	N
ATOM	2265	CA	TYR A 145	5.253	-21.852	-37.800	1.00	0.00	C
ATOM	2266	C	TYR A 145	5.272	-22.804	-38.999	1.00	0.00	C
ATOM	2267	O	TYR A 145	4.770	-23.925	-38.927	1.00	0.00	O
ATOM	2268	CB	TYR A 145	6.342	-22.182	-36.769	1.00	0.00	C
ATOM	2269	CG	TYR A 145	6.509	-21.056	-35.773	1.00	0.00	C
ATOM	2270	CD1	TYR A 145	5.715	-21.007	-34.613	1.00	0.00	C
ATOM	2271	CD2	TYR A 145	7.365	-19.982	-36.079	1.00	0.00	C
ATOM	2272	CE1	TYR A 145	5.729	-19.858	-33.800	1.00	0.00	C
ATOM	2273	CE2	TYR A 145	7.389	-18.837	-35.265	1.00	0.00	C
ATOM	2274	CZ	TYR A 145	6.543	-18.758	-34.145	1.00	0.00	C
ATOM	2275	OH	TYR A 145	6.492	-17.603	-33.440	1.00	0.00	O
ATOM	2276	H	TYR A 145	3.782	-22.425	-36.368	1.00	0.00	H
ATOM	2277	HA	TYR A 145	5.461	-20.851	-38.182	1.00	0.00	H
ATOM	2278	HB2	TYR A 145	6.094	-23.104	-36.249	1.00	0.00	H
ATOM	2279	HB3	TYR A 145	7.288	-22.332	-37.288	1.00	0.00	H
ATOM	2280	HD1	TYR A 145	5.060	-21.831	-34.367	1.00	0.00	H
ATOM	2281	HD2	TYR A 145	7.955	-20.007	-36.979	1.00	0.00	H

ATOM	2282	HE1 TYR A 145	5.096	-19.805	-32.928	1.00	0.00	H
ATOM	2283	HE2 TYR A 145	8.007	-17.991	-35.517	1.00	0.00	H
ATOM	2284	HH TYR A 145	5.833	-17.687	-32.700	1.00	0.00	H
ATOM	2285	N ASP A 146	5.869	-22.350	-40.102	1.00	0.00	N
ATOM	2286	CA ASP A 146	6.030	-23.118	-41.346	1.00	0.00	C
ATOM	2287	C ASP A 146	6.996	-24.298	-41.150	1.00	0.00	C
ATOM	2288	O ASP A 146	6.691	-25.415	-41.581	1.00	0.00	O
ATOM	2289	CB ASP A 146	6.495	-22.127	-42.428	1.00	0.00	C
ATOM	2290	CG ASP A 146	6.955	-22.724	-43.769	1.00	0.00	C
ATOM	2291	OD1 ASP A 146	7.858	-23.583	-43.718	1.00	0.00	O
ATOM	2292	OD2 ASP A 146	6.922	-21.945	-44.747	1.00	0.00	O
ATOM	2293	H ASP A 146	6.360	-21.466	-40.035	1.00	0.00	H
ATOM	2294	HA ASP A 146	5.067	-23.530	-41.647	1.00	0.00	H
ATOM	2295	HB2 ASP A 146	5.683	-21.425	-42.616	1.00	0.00	H
ATOM	2296	HB3 ASP A 146	7.331	-21.560	-42.018	1.00	0.00	H
ATOM	2297	N LYS A 147	8.019	-24.088	-40.310	1.00	0.00	N
ATOM	2298	CA LYS A 147	9.024	-25.069	-39.881	1.00	0.00	C
ATOM	2299	C LYS A 147	9.731	-24.635	-38.586	1.00	0.00	C
ATOM	2300	O LYS A 147	9.635	-23.466	-38.202	1.00	0.00	O
ATOM	2301	CB LYS A 147	10.021	-25.317	-41.030	1.00	0.00	C
ATOM	2302	CG LYS A 147	10.678	-24.031	-41.555	1.00	0.00	C
ATOM	2303	CD LYS A 147	11.762	-24.261	-42.610	1.00	0.00	C
ATOM	2304	CE LYS A 147	11.314	-24.966	-43.894	1.00	0.00	C
ATOM	2305	NZ LYS A 147	10.284	-24.214	-44.643	1.00	0.00	N
ATOM	2306	H LYS A 147	8.125	-23.148	-39.944	1.00	0.00	H
ATOM	2307	HA LYS A 147	8.518	-26.008	-39.661	1.00	0.00	H
ATOM	2308	HB2 LYS A 147	9.499	-25.817	-41.847	1.00	0.00	H
ATOM	2309	HB3 LYS A 147	10.803	-25.979	-40.663	1.00	0.00	H
ATOM	2310	HG2 LYS A 147	9.925	-23.356	-41.962	1.00	0.00	H
ATOM	2311	HG3 LYS A 147	11.161	-23.550	-40.713	1.00	0.00	H



ATOM	2312	HD2 LYS A 147	12.206	-23.300	-42.868	1.00	0.00	H
ATOM	2313	HD3 LYS A 147	12.532	-24.871	-42.149	1.00	0.00	H
ATOM	2314	HE2 LYS A 147	12.195	-25.084	-44.529	1.00	0.00	H
ATOM	2315	HE3 LYS A 147	10.945	-25.964	-43.643	1.00	0.00	H
ATOM	2316	HZ1 LYS A 147	10.019	-24.687	-45.491	1.00	0.00	H
ATOM	2317	HZ2 LYS A 147	10.584	-23.277	-44.886	1.00	0.00	H
ATOM	2318	HZ3 LYS A 147	9.424	-24.097	-44.098	1.00	0.00	H
ATOM	2319	N VAL A 148	10.462	-25.542	-37.933	1.00	0.00	N
ATOM	2320	CA VAL A 148	11.216	-25.325	-36.673	1.00	0.00	C
ATOM	2321	C VAL A 148	12.532	-26.126	-36.630	1.00	0.00	C
ATOM	2322	O VAL A 148	12.715	-27.076	-37.388	1.00	0.00	O
ATOM	2323	CB VAL A 148	10.369	-25.668	-35.428	1.00	0.00	C
ATOM	2324	CG1 VAL A 148	9.206	-24.701	-35.199	1.00	0.00	C
ATOM	2325	CG2 VAL A 148	9.812	-27.091	-35.480	1.00	0.00	C
ATOM	2326	H VAL A 148	10.440	-26.496	-38.303	1.00	0.00	H
ATOM	2327	HA VAL A 148	11.491	-24.275	-36.608	1.00	0.00	H
ATOM	2328	HB VAL A 148	11.008	-25.600	-34.548	1.00	0.00	H
ATOM	2329	HG11 VAL A 148	9.588	-23.726	-34.915	1.00	0.00	H
ATOM	2330	HG12 VAL A 148	8.584	-24.612	-36.085	1.00	0.00	H
ATOM	2331	HG13 VAL A 148	8.597	-25.057	-34.376	1.00	0.00	H
ATOM	2332	HG21 VAL A 148	9.257	-27.310	-34.569	1.00	0.00	H
ATOM	2333	HG22 VAL A 148	10.636	-27.800	-35.566	1.00	0.00	H
ATOM	2334	HG23 VAL A 148	9.150	-27.217	-36.338	1.00	0.00	H
ATOM	2335	N MET A 149	13.474	-25.744	-35.757	1.00	0.00	N
ATOM	2336	CA MET A 149	14.831	-26.317	-35.710	1.00	0.00	C
ATOM	2337	C MET A 149	15.505	-26.168	-34.325	1.00	0.00	C
ATOM	2338	O MET A 149	15.299	-25.136	-33.683	1.00	0.00	O
ATOM	2339	CB MET A 149	15.657	-25.606	-36.796	1.00	0.00	C
ATOM	2340	CG MET A 149	16.999	-26.261	-37.104	1.00	0.00	C
ATOM	2341	SD MET A 149	18.024	-25.355	-38.283	1.00	0.00	S

ATOM	2342	CE	MET A 149	18.574	-23.966	-37.257	1.00	0.00	C
ATOM	2343	H	MET A 149	13.302	-24.907	-35.208	1.00	0.00	H
ATOM	2344	HA	MET A 149	14.758	-27.374	-35.956	1.00	0.00	H
ATOM	2345	HB2	MET A 149	15.092	-25.600	-37.727	1.00	0.00	H
ATOM	2346	HB3	MET A 149	15.822	-24.574	-36.492	1.00	0.00	H
ATOM	2347	HG2	MET A 149	16.790	-27.244	-37.525	1.00	0.00	H
ATOM	2348	HG3	MET A 149	17.573	-26.388	-36.191	1.00	0.00	H
ATOM	2349	HE1	MET A 149	19.254	-23.339	-37.832	1.00	0.00	H
ATOM	2350	HE2	MET A 149	19.097	-24.346	-36.381	1.00	0.00	H
ATOM	2351	HE3	MET A 149	17.719	-23.370	-36.939	1.00	0.00	H
ATOM	2352	N	PRO A 150	16.368	-27.107	-33.872	1.00	0.00	N
ATOM	2353	CA	PRO A 150	17.294	-26.876	-32.751	1.00	0.00	C
ATOM	2354	C	PRO A 150	18.264	-25.722	-33.045	1.00	0.00	C
ATOM	2355	O	PRO A 150	18.670	-25.519	-34.189	1.00	0.00	O
ATOM	2356	CB	PRO A 150	18.069	-28.187	-32.574	1.00	0.00	C
ATOM	2357	CG	PRO A 150	18.061	-28.772	-33.985	1.00	0.00	C
ATOM	2358	CD	PRO A 150	16.663	-28.402	-34.473	1.00	0.00	C
ATOM	2359	HA	PRO A 150	16.737	-26.654	-31.840	1.00	0.00	H
ATOM	2360	HB2	PRO A 150	19.085	-28.025	-32.216	1.00	0.00	H
ATOM	2361	HB3	PRO A 150	17.527	-28.841	-31.893	1.00	0.00	H
ATOM	2362	HG2	PRO A 150	18.223	-29.849	-33.990	1.00	0.00	H
ATOM	2363	HG3	PRO A 150	18.813	-28.274	-34.600	1.00	0.00	H
ATOM	2364	HD2	PRO A 150	16.654	-28.371	-35.559	1.00	0.00	H
ATOM	2365	HD3	PRO A 150	15.941	-29.136	-34.113	1.00	0.00	H
ATOM	2366	N	TYR A 151	18.590	-24.917	-32.031	1.00	0.00	N
ATOM	2367	CA	TYR A 151	19.341	-23.674	-32.233	1.00	0.00	C
ATOM	2368	C	TYR A 151	20.016	-23.186	-30.941	1.00	0.00	C
ATOM	2369	O	TYR A 151	19.713	-22.114	-30.419	1.00	0.00	O
ATOM	2370	CB	TYR A 151	18.403	-22.623	-32.868	1.00	0.00	C
ATOM	2371	CG	TYR A 151	19.048	-21.560	-33.743	1.00	0.00	C

ATOM	2372	CD1 TYR A 151	18.568	-20.241	-33.676	1.00	0.00	C
ATOM	2373	CD2 TYR A 151	19.979	-21.910	-34.745	1.00	0.00	C
ATOM	2374	CE1 TYR A 151	18.960	-19.297	-34.640	1.00	0.00	C
ATOM	2375	CE2 TYR A 151	20.447	-20.939	-35.653	1.00	0.00	C
ATOM	2376	CZ TYR A 151	19.924	-19.630	-35.610	1.00	0.00	C
ATOM	2377	OH TYR A 151	20.328	-18.683	-36.497	1.00	0.00	O
ATOM	2378	H TYR A 151	18.203	-25.107	-31.111	1.00	0.00	H
ATOM	2379	HA TYR A 151	20.143	-23.896	-32.934	1.00	0.00	H
ATOM	2380	HB2 TYR A 151	17.689	-23.134	-33.513	1.00	0.00	H
ATOM	2381	HB3 TYR A 151	17.809	-22.150	-32.085	1.00	0.00	H
ATOM	2382	HD1 TYR A 151	17.850	-19.967	-32.915	1.00	0.00	H
ATOM	2383	HD2 TYR A 151	20.312	-22.934	-34.848	1.00	0.00	H
ATOM	2384	HE1 TYR A 151	18.510	-18.323	-34.653	1.00	0.00	H
ATOM	2385	HE2 TYR A 151	21.162	-21.202	-36.419	1.00	0.00	H
ATOM	2386	HH TYR A 151	19.667	-17.995	-36.601	1.00	0.00	H
ATOM	2387	N GLY A 152	20.890	-24.009	-30.359	1.00	0.00	N
ATOM	2388	CA GLY A 152	21.552	-23.673	-29.097	1.00	0.00	C
ATOM	2389	C GLY A 152	22.239	-24.860	-28.426	1.00	0.00	C
ATOM	2390	O GLY A 152	21.687	-25.952	-28.480	1.00	0.00	O
ATOM	2391	H GLY A 152	21.040	-24.929	-30.754	1.00	0.00	H
ATOM	2392	HA2 GLY A 152	22.258	-22.859	-29.262	1.00	0.00	H
ATOM	2393	HA3 GLY A 152	20.781	-23.339	-28.416	1.00	0.00	H
ATOM	2394	N PRO A 153	23.405	-24.702	-27.776	1.00	0.00	N
ATOM	2395	CA PRO A 153	24.228	-25.843	-27.369	1.00	0.00	C
ATOM	2396	C PRO A 153	23.640	-26.672	-26.212	1.00	0.00	C
ATOM	2397	O PRO A 153	23.677	-27.905	-26.268	1.00	0.00	O
ATOM	2398	CB PRO A 153	25.579	-25.225	-27.000	1.00	0.00	C
ATOM	2399	CG PRO A 153	25.225	-23.812	-26.537	1.00	0.00	C
ATOM	2400	CD PRO A 153	24.061	-23.444	-27.457	1.00	0.00	C
ATOM	2401	HA PRO A 153	24.365	-26.512	-28.219	1.00	0.00	H

ATOM	2402	HB2 PRO A 153	26.205	-25.169	-27.891	1.00	0.00	H
ATOM	2403	HB3 PRO A 153	26.083	-25.789	-26.220	1.00	0.00	H
ATOM	2404	HG2 PRO A 153	24.885	-23.833	-25.499	1.00	0.00	H
ATOM	2405	HG3 PRO A 153	26.064	-23.127	-26.650	1.00	0.00	H
ATOM	2406	HD2 PRO A 153	24.442	-22.986	-28.370	1.00	0.00	H
ATOM	2407	HD3 PRO A 153	23.379	-22.762	-26.948	1.00	0.00	H
ATOM	2408	N SER A 154	23.019	-26.020	-25.223	1.00	0.00	N
ATOM	2409	CA SER A 154	22.569	-26.648	-23.975	1.00	0.00	C
ATOM	2410	C SER A 154	21.151	-26.224	-23.568	1.00	0.00	C
ATOM	2411	O SER A 154	20.751	-25.060	-23.687	1.00	0.00	O
ATOM	2412	CB SER A 154	23.597	-26.414	-22.855	1.00	0.00	C
ATOM	2413	OG SER A 154	23.932	-25.055	-22.654	1.00	0.00	O
ATOM	2414	H SER A 154	23.007	-25.012	-25.238	1.00	0.00	H
ATOM	2415	HA SER A 154	22.538	-27.727	-24.127	1.00	0.00	H
ATOM	2416	HB2 SER A 154	23.223	-26.842	-21.924	1.00	0.00	H
ATOM	2417	HB3 SER A 154	24.514	-26.929	-23.128	1.00	0.00	H
ATOM	2418	HG SER A 154	24.684	-25.048	-22.044	1.00	0.00	H
ATOM	2419	N GLY A 155	20.356	-27.239	-23.228	1.00	0.00	N
ATOM	2420	CA GLY A 155	18.976	-27.155	-22.759	1.00	0.00	C
ATOM	2421	C GLY A 155	18.775	-27.849	-21.409	1.00	0.00	C
ATOM	2422	O GLY A 155	19.743	-28.164	-20.717	1.00	0.00	O
ATOM	2423	H GLY A 155	20.767	-28.166	-23.215	1.00	0.00	H
ATOM	2424	HA2 GLY A 155	18.323	-27.627	-23.491	1.00	0.00	H
ATOM	2425	HA3 GLY A 155	18.692	-26.115	-22.651	1.00	0.00	H
ATOM	2426	N ILE A 156	17.518	-28.117	-21.035	1.00	0.00	N
ATOM	2427	CA ILE A 156	17.182	-28.738	-19.741	1.00	0.00	C
ATOM	2428	C ILE A 156	16.191	-29.894	-19.860	1.00	0.00	C
ATOM	2429	O ILE A 156	15.198	-29.823	-20.575	1.00	0.00	O
ATOM	2430	CB ILE A 156	16.704	-27.705	-18.693	1.00	0.00	C
ATOM	2431	CG1 ILE A 156	15.406	-26.972	-19.102	1.00	0.00	C

ATOM	2432	CG2 ILE A 156	17.847	-26.733	-18.368	1.00	0.00	C
ATOM	2433	CD1 ILE A 156	14.821	-26.095	-17.991	1.00	0.00	C
ATOM	2434	H ILE A 156	16.773	-27.945	-21.701	1.00	0.00	H
ATOM	2435	HA ILE A 156	18.095	-29.181	-19.343	1.00	0.00	H
ATOM	2436	HB ILE A 156	16.488	-28.256	-17.778	1.00	0.00	H
ATOM	2437	HG12 ILE A 156	14.640	-27.700	-19.360	1.00	0.00	H
ATOM	2438	HG13 ILE A 156	15.593	-26.353	-19.980	1.00	0.00	H
ATOM	2439	HD11 ILE A 156	14.602	-26.705	-17.115	1.00	0.00	H
ATOM	2440	HD12 ILE A 156	15.524	-25.312	-17.721	1.00	0.00	H
ATOM	2441	HD13 ILE A 156	13.904	-25.628	-18.349	1.00	0.00	H
ATOM	2442	HG21 ILE A 156	18.759	-27.288	-18.143	1.00	0.00	H
ATOM	2443	HG22 ILE A 156	17.595	-26.106	-17.516	1.00	0.00	H
ATOM	2444	HG23 ILE A 156	18.029	-26.098	-19.230	1.00	0.00	H
ATOM	2445	N LYS A 157	16.353	-30.863	-18.959	1.00	0.00	N
ATOM	2446	CA LYS A 157	15.305	-31.793	-18.525	1.00	0.00	C
ATOM	2447	C LYS A 157	14.466	-31.186	-17.398	1.00	0.00	C
ATOM	2448	O LYS A 157	15.002	-30.494	-16.528	1.00	0.00	O
ATOM	2449	CB LYS A 157	15.896	-33.169	-18.159	1.00	0.00	C
ATOM	2450	CG LYS A 157	16.745	-33.254	-16.876	1.00	0.00	C
ATOM	2451	CD LYS A 157	18.001	-32.367	-16.897	1.00	0.00	C
ATOM	2452	CE LYS A 157	19.039	-32.862	-15.886	1.00	0.00	C
ATOM	2453	NZ LYS A 157	20.409	-32.719	-16.420	1.00	0.00	N
ATOM	2454	H LYS A 157	17.180	-30.805	-18.389	1.00	0.00	H
ATOM	2455	HA LYS A 157	14.626	-31.954	-19.365	1.00	0.00	H
ATOM	2456	HB2 LYS A 157	15.068	-33.871	-18.050	1.00	0.00	H
ATOM	2457	HB3 LYS A 157	16.497	-33.526	-18.997	1.00	0.00	H
ATOM	2458	HG2 LYS A 157	17.052	-34.294	-16.767	1.00	0.00	H
ATOM	2459	HG3 LYS A 157	16.136	-32.996	-16.010	1.00	0.00	H
ATOM	2460	HD2 LYS A 157	18.429	-32.395	-17.900	1.00	0.00	H
ATOM	2461	HD3 LYS A 157	17.737	-31.337	-16.660	1.00	0.00	H

ATOM	2462	HE2	LYS A 157	18.929	-32.313	-14.948	1.00	0.00	H
ATOM	2463	HE3	LYS A 157	18.856	-33.922	-15.690	1.00	0.00	H
ATOM	2464	HZ1	LYS A 157	21.110	-32.990	-15.734	1.00	0.00	H
ATOM	2465	HZ2	LYS A 157	20.655	-31.761	-16.687	1.00	0.00	H
ATOM	2466	HZ3	LYS A 157	20.513	-33.278	-17.262	1.00	0.00	H
ATOM	2467	N	GLN A 158	13.197	-31.573	-17.347	1.00	0.00	N
ATOM	2468	CA	GLN A 158	12.217	-31.262	-16.303	1.00	0.00	C
ATOM	2469	C	GLN A 158	11.470	-32.550	-15.928	1.00	0.00	C
ATOM	2470	O	GLN A 158	10.349	-32.794	-16.373	1.00	0.00	O
ATOM	2471	CB	GLN A 158	11.275	-30.136	-16.765	1.00	0.00	C
ATOM	2472	CG	GLN A 158	12.010	-28.797	-16.962	1.00	0.00	C
ATOM	2473	CD	GLN A 158	11.070	-27.595	-17.027	1.00	0.00	C
ATOM	2474	OE1	GLN A 158	9.859	-27.693	-17.077	1.00	0.00	O
ATOM	2475	NE2	GLN A 158	11.590	-26.390	-16.974	1.00	0.00	N
ATOM	2476	H	GLN A 158	12.863	-32.133	-18.128	1.00	0.00	H
ATOM	2477	HA	GLN A 158	12.734	-30.924	-15.405	1.00	0.00	H
ATOM	2478	HB2	GLN A 158	10.513	-30.006	-15.996	1.00	0.00	H
ATOM	2479	HB3	GLN A 158	10.781	-30.421	-17.696	1.00	0.00	H
ATOM	2480	HG2	GLN A 158	12.691	-28.641	-16.125	1.00	0.00	H
ATOM	2481	HG3	GLN A 158	12.600	-28.835	-17.878	1.00	0.00	H
ATOM	2482	HE21	GLN A 158	12.582	-26.256	-16.929	1.00	0.00	H
ATOM	2483	HE22	GLN A 158	10.924	-25.639	-17.010	1.00	0.00	H
ATOM	2484	N	GLY A 159	12.221	-33.490	-15.345	1.00	0.00	N
ATOM	2485	CA	GLY A 159	11.855	-34.907	-15.367	1.00	0.00	C
ATOM	2486	C	GLY A 159	11.900	-35.471	-16.789	1.00	0.00	C
ATOM	2487	O	GLY A 159	12.805	-35.151	-17.557	1.00	0.00	O
ATOM	2488	H	GLY A 159	13.179	-33.263	-15.148	1.00	0.00	H
ATOM	2489	HA2	GLY A 159	12.547	-35.481	-14.755	1.00	0.00	H
ATOM	2490	HA3	GLY A 159	10.849	-35.029	-14.962	1.00	0.00	H
ATOM	2491	N	ASP A 160	10.856	-36.212	-17.148	1.00	0.00	N

ATOM	2492	CA	ASP A 160	10.718	-36.950	-18.411	1.00	0.00	C
ATOM	2493	C	ASP A 160	10.544	-36.057	-19.669	1.00	0.00	C
ATOM	2494	O	ASP A 160	10.648	-36.533	-20.801	1.00	0.00	O
ATOM	2495	CB	ASP A 160	9.501	-37.876	-18.246	1.00	0.00	C
ATOM	2496	CG	ASP A 160	9.617	-39.195	-19.005	1.00	0.00	C
ATOM	2497	OD1	ASP A 160	10.722	-39.773	-19.040	1.00	0.00	O
ATOM	2498	OD2	ASP A 160	8.542	-39.697	-19.403	1.00	0.00	O
ATOM	2499	H	ASP A 160	10.151	-36.391	-16.452	1.00	0.00	H
ATOM	2500	HA	ASP A 160	11.619	-37.554	-18.538	1.00	0.00	H
ATOM	2501	HB2	ASP A 160	9.380	-38.139	-17.193	1.00	0.00	H
ATOM	2502	HB3	ASP A 160	8.599	-37.340	-18.550	1.00	0.00	H
ATOM	2503	N	THR A 161	10.279	-34.752	-19.499	1.00	0.00	N
ATOM	2504	CA	THR A 161	10.316	-33.761	-20.587	1.00	0.00	C
ATOM	2505	C	THR A 161	11.706	-33.151	-20.735	1.00	0.00	C
ATOM	2506	O	THR A 161	12.170	-32.458	-19.831	1.00	0.00	O
ATOM	2507	CB	THR A 161	9.261	-32.660	-20.394	1.00	0.00	C
ATOM	2508	OG1	THR A 161	7.967	-33.191	-20.555	1.00	0.00	O
ATOM	2509	CG2	THR A 161	9.338	-31.581	-21.477	1.00	0.00	C
ATOM	2510	H	THR A 161	10.264	-34.401	-18.550	1.00	0.00	H
ATOM	2511	HA	THR A 161	10.092	-34.261	-21.522	1.00	0.00	H
ATOM	2512	HB	THR A 161	9.364	-32.202	-19.404	1.00	0.00	H
ATOM	2513	HG1	THR A 161	7.968	-34.123	-20.262	1.00	0.00	H
ATOM	2514	HG21	THR A 161	8.545	-30.852	-21.325	1.00	0.00	H
ATOM	2515	HG22	THR A 161	10.278	-31.046	-21.398	1.00	0.00	H
ATOM	2516	HG23	THR A 161	9.261	-32.014	-22.477	1.00	0.00	H
ATOM	2517	N	LEU A 162	12.286	-33.230	-21.938	1.00	0.00	N
ATOM	2518	CA	LEU A 162	13.448	-32.434	-22.352	1.00	0.00	C
ATOM	2519	C	LEU A 162	12.988	-31.128	-23.029	1.00	0.00	C
ATOM	2520	O	LEU A 162	11.986	-31.130	-23.745	1.00	0.00	O
ATOM	2521	CB	LEU A 162	14.363	-33.255	-23.287	1.00	0.00	C

ATOM	2522	CG	LEU	A	162	14.598	-34.727	-22.894	1.00	0.00	C
ATOM	2523	CD1	LEU	A	162	15.581	-35.352	-23.883	1.00	0.00	C
ATOM	2524	CD2	LEU	A	162	15.179	-34.897	-21.490	1.00	0.00	C
ATOM	2525	H	LEU	A	162	11.832	-33.794	-22.648	1.00	0.00	H
ATOM	2526	HA	LEU	A	162	14.035	-32.169	-21.474	1.00	0.00	H
ATOM	2527	HB2	LEU	A	162	13.923	-33.245	-24.282	1.00	0.00	H
ATOM	2528	HB3	LEU	A	162	15.327	-32.746	-23.358	1.00	0.00	H
ATOM	2529	HG	LEU	A	162	13.660	-35.276	-22.958	1.00	0.00	H
ATOM	2530	HD11	LEU	A	162	15.705	-36.409	-23.648	1.00	0.00	H
ATOM	2531	HD12	LEU	A	162	16.545	-34.850	-23.808	1.00	0.00	H
ATOM	2532	HD13	LEU	A	162	15.199	-35.254	-24.898	1.00	0.00	H
ATOM	2533	HD21	LEU	A	162	15.324	-35.958	-21.287	1.00	0.00	H
ATOM	2534	HD22	LEU	A	162	14.485	-34.508	-20.744	1.00	0.00	H
ATOM	2535	HD23	LEU	A	162	16.132	-34.380	-21.410	1.00	0.00	H
ATOM	2536	N	TYR	A	163	13.800	-30.073	-22.944	1.00	0.00	N
ATOM	2537	CA	TYR	A	163	13.611	-28.778	-23.602	1.00	0.00	C
ATOM	2538	C	TYR	A	163	14.925	-28.317	-24.241	1.00	0.00	C
ATOM	2539	O	TYR	A	163	15.799	-27.756	-23.573	1.00	0.00	O
ATOM	2540	CB	TYR	A	163	13.137	-27.738	-22.581	1.00	0.00	C
ATOM	2541	CG	TYR	A	163	11.701	-27.871	-22.128	1.00	0.00	C
ATOM	2542	CD1	TYR	A	163	10.684	-27.299	-22.913	1.00	0.00	C
ATOM	2543	CD2	TYR	A	163	11.393	-28.466	-20.890	1.00	0.00	C
ATOM	2544	CE1	TYR	A	163	9.363	-27.265	-22.439	1.00	0.00	C
ATOM	2545	CE2	TYR	A	163	10.066	-28.449	-20.419	1.00	0.00	C
ATOM	2546	CZ	TYR	A	163	9.057	-27.832	-21.188	1.00	0.00	C
ATOM	2547	OH	TYR	A	163	7.783	-27.790	-20.733	1.00	0.00	O
ATOM	2548	H	TYR	A	163	14.566	-30.127	-22.282	1.00	0.00	H
ATOM	2549	HA	TYR	A	163	12.860	-28.859	-24.390	1.00	0.00	H
ATOM	2550	HB2	TYR	A	163	13.794	-27.766	-21.709	1.00	0.00	H
ATOM	2551	HB3	TYR	A	163	13.248	-26.747	-23.023	1.00	0.00	H



ATOM	2552	HD1 TYR A 163	10.921	-26.844	-23.861	1.00	0.00	H
ATOM	2553	HD2 TYR A 163	12.176	-28.920	-20.297	1.00	0.00	H
ATOM	2554	HE1 TYR A 163	8.586	-26.780	-23.015	1.00	0.00	H
ATOM	2555	HE2 TYR A 163	9.808	-28.883	-19.465	1.00	0.00	H
ATOM	2556	HH TYR A 163	7.313	-27.014	-21.131	1.00	0.00	H
ATOM	2557	N PHE A 164	15.043	-28.501	-25.555	1.00	0.00	N
ATOM	2558	CA PHE A 164	16.165	-28.004	-26.353	1.00	0.00	C
ATOM	2559	C PHE A 164	15.931	-26.532	-26.753	1.00	0.00	C
ATOM	2560	O PHE A 164	14.851	-26.237	-27.271	1.00	0.00	O
ATOM	2561	CB PHE A 164	16.309	-28.888	-27.602	1.00	0.00	C
ATOM	2562	CG PHE A 164	16.519	-30.365	-27.309	1.00	0.00	C
ATOM	2563	CD1 PHE A 164	17.792	-30.828	-26.931	1.00	0.00	C
ATOM	2564	CD2 PHE A 164	15.443	-31.272	-27.393	1.00	0.00	C
ATOM	2565	CE1 PHE A 164	17.994	-32.191	-26.645	1.00	0.00	C
ATOM	2566	CE2 PHE A 164	15.644	-32.635	-27.105	1.00	0.00	C
ATOM	2567	CZ PHE A 164	16.919	-33.093	-26.730	1.00	0.00	C
ATOM	2568	H PHE A 164	14.272	-28.939	-26.050	1.00	0.00	H
ATOM	2569	HA PHE A 164	17.080	-28.090	-25.768	1.00	0.00	H
ATOM	2570	HB2 PHE A 164	15.414	-28.777	-28.215	1.00	0.00	H
ATOM	2571	HB3 PHE A 164	17.149	-28.529	-28.195	1.00	0.00	H
ATOM	2572	HD1 PHE A 164	18.615	-30.133	-26.855	1.00	0.00	H
ATOM	2573	HD2 PHE A 164	14.458	-30.922	-27.667	1.00	0.00	H
ATOM	2574	HE1 PHE A 164	18.973	-32.541	-26.355	1.00	0.00	H
ATOM	2575	HE2 PHE A 164	14.815	-33.327	-27.162	1.00	0.00	H
ATOM	2576	HZ PHE A 164	17.071	-34.136	-26.499	1.00	0.00	H
ATOM	2577	N PRO A 165	16.905	-25.607	-26.631	1.00	0.00	N
ATOM	2578	CA PRO A 165	16.816	-24.278	-27.248	1.00	0.00	C
ATOM	2579	C PRO A 165	16.688	-24.370	-28.777	1.00	0.00	C
ATOM	2580	O PRO A 165	17.375	-25.156	-29.434	1.00	0.00	O
ATOM	2581	CB PRO A 165	18.091	-23.538	-26.832	1.00	0.00	C

ATOM	2582	CG	PRO A 165	19.075	-24.682	-26.614	1.00	0.00	C
ATOM	2583	CD	PRO A 165	18.198	-25.757	-25.982	1.00	0.00	C
ATOM	2584	HA	PRO A 165	15.949	-23.748	-26.855	1.00	0.00	H
ATOM	2585	HB2	PRO A 165	17.924	-23.011	-25.891	1.00	0.00	H
ATOM	2586	HB3	PRO A 165	18.442	-22.853	-27.604	1.00	0.00	H
ATOM	2587	HG2	PRO A 165	19.432	-25.033	-27.580	1.00	0.00	H
ATOM	2588	HG3	PRO A 165	19.908	-24.392	-25.979	1.00	0.00	H
ATOM	2589	HD2	PRO A 165	18.085	-25.562	-24.916	1.00	0.00	H
ATOM	2590	HD3	PRO A 165	18.635	-26.741	-26.138	1.00	0.00	H
ATOM	2591	N	ALA A 166	15.809	-23.551	-29.352	1.00	0.00	N
ATOM	2592	CA	ALA A 166	15.298	-23.750	-30.706	1.00	0.00	C
ATOM	2593	C	ALA A 166	14.928	-22.440	-31.420	1.00	0.00	C
ATOM	2594	O	ALA A 166	14.850	-21.373	-30.810	1.00	0.00	O
ATOM	2595	CB	ALA A 166	14.084	-24.678	-30.595	1.00	0.00	C
ATOM	2596	H	ALA A 166	15.276	-22.924	-28.757	1.00	0.00	H
ATOM	2597	HA	ALA A 166	16.053	-24.246	-31.316	1.00	0.00	H
ATOM	2598	HB1	ALA A 166	13.307	-24.201	-29.999	1.00	0.00	H
ATOM	2599	HB2	ALA A 166	13.688	-24.895	-31.586	1.00	0.00	H
ATOM	2600	HB3	ALA A 166	14.379	-25.615	-30.120	1.00	0.00	H
ATOM	2601	N	VAL A 167	14.563	-22.559	-32.699	1.00	0.00	N
ATOM	2602	CA	VAL A 167	14.020	-21.481	-33.530	1.00	0.00	C
ATOM	2603	C	VAL A 167	12.843	-21.965	-34.377	1.00	0.00	C
ATOM	2604	O	VAL A 167	12.872	-23.062	-34.934	1.00	0.00	O
ATOM	2605	CB	VAL A 167	15.137	-20.835	-34.373	1.00	0.00	C
ATOM	2606	CG1	VAL A 167	15.714	-21.752	-35.457	1.00	0.00	C
ATOM	2607	CG2	VAL A 167	14.710	-19.527	-35.044	1.00	0.00	C
ATOM	2608	H	VAL A 167	14.650	-23.477	-33.128	1.00	0.00	H
ATOM	2609	HA	VAL A 167	13.643	-20.715	-32.858	1.00	0.00	H
ATOM	2610	HB	VAL A 167	15.935	-20.585	-33.682	1.00	0.00	H
ATOM	2611	HG21	VAL A 167	14.352	-18.832	-34.289	1.00	0.00	H

ATOM	2612	HG22	VAL A 167	13.928	-19.710	-35.781	1.00	0.00	H
ATOM	2613	HG23	VAL A 167	15.573	-19.087	-35.544	1.00	0.00	H
ATOM	2614	HG11	VAL A 167	16.595	-21.289	-35.901	1.00	0.00	H
ATOM	2615	HG12	VAL A 167	16.007	-22.706	-35.021	1.00	0.00	H
ATOM	2616	HG13	VAL A 167	14.975	-21.931	-36.235	1.00	0.00	H
ATOM	2617	N	GLY A 168	11.819	-21.123	-34.499	1.00	0.00	N
ATOM	2618	CA	GLY A 168	10.718	-21.270	-35.445	1.00	0.00	C
ATOM	2619	C	GLY A 168	10.811	-20.262	-36.584	1.00	0.00	C
ATOM	2620	O	GLY A 168	11.202	-19.110	-36.383	1.00	0.00	O
ATOM	2621	H	GLY A 168	11.868	-20.253	-33.981	1.00	0.00	H
ATOM	2622	HA2	GLY A 168	10.741	-22.264	-35.883	1.00	0.00	H
ATOM	2623	HA3	GLY A 168	9.767	-21.137	-34.930	1.00	0.00	H
ATOM	2624	N	PHE A 169	10.417	-20.698	-37.779	1.00	0.00	N
ATOM	2625	CA	PHE A 169	10.414	-19.909	-39.007	1.00	0.00	C
ATOM	2626	C	PHE A 169	8.964	-19.639	-39.429	1.00	0.00	C
ATOM	2627	O	PHE A 169	8.154	-20.566	-39.541	1.00	0.00	O
ATOM	2628	CB	PHE A 169	11.165	-20.655	-40.117	1.00	0.00	C
ATOM	2629	CG	PHE A 169	12.571	-21.156	-39.803	1.00	0.00	C
ATOM	2630	CD1	PHE A 169	13.682	-20.589	-40.452	1.00	0.00	C
ATOM	2631	CD2	PHE A 169	12.778	-22.253	-38.943	1.00	0.00	C
ATOM	2632	CE1	PHE A 169	14.973	-21.115	-40.257	1.00	0.00	C
ATOM	2633	CE2	PHE A 169	14.065	-22.768	-38.733	1.00	0.00	C
ATOM	2634	CZ	PHE A 169	15.166	-22.208	-39.397	1.00	0.00	C
ATOM	2635	H	PHE A 169	10.095	-21.659	-37.855	1.00	0.00	H
ATOM	2636	HA	PHE A 169	10.919	-18.958	-38.836	1.00	0.00	H
ATOM	2637	HB2	PHE A 169	10.556	-21.505	-40.411	1.00	0.00	H
ATOM	2638	HB3	PHE A 169	11.219	-20.000	-40.985	1.00	0.00	H
ATOM	2639	HD1	PHE A 169	13.542	-19.771	-41.143	1.00	0.00	H
ATOM	2640	HD2	PHE A 169	11.947	-22.725	-38.451	1.00	0.00	H
ATOM	2641	HE1	PHE A 169	15.812	-20.696	-40.794	1.00	0.00	H

ATOM	2642	HE2 PHE A 169	14.200	-23.606	-38.070	1.00	0.00	H
ATOM	2643	HZ PHE A 169	16.153	-22.628	-39.257	1.00	0.00	H
ATOM	2644	N LEU A 170	8.610	-18.370	-39.631	1.00	0.00	N
ATOM	2645	CA LEU A 170	7.235	-17.944	-39.911	1.00	0.00	C
ATOM	2646	C LEU A 170	7.226	-16.895	-41.036	1.00	0.00	C
ATOM	2647	O LEU A 170	7.999	-15.938	-40.953	1.00	0.00	O
ATOM	2648	CB LEU A 170	6.611	-17.465	-38.587	1.00	0.00	C
ATOM	2649	CG LEU A 170	5.220	-16.811	-38.689	1.00	0.00	C
ATOM	2650	CD1 LEU A 170	4.343	-17.228	-37.507	1.00	0.00	C
ATOM	2651	CD2 LEU A 170	5.334	-15.287	-38.658	1.00	0.00	C
ATOM	2652	H LEU A 170	9.313	-17.648	-39.494	1.00	0.00	H
ATOM	2653	HA LEU A 170	6.657	-18.807	-40.236	1.00	0.00	H
ATOM	2654	HB2 LEU A 170	6.520	-18.348	-37.960	1.00	0.00	H
ATOM	2655	HB3 LEU A 170	7.298	-16.784	-38.084	1.00	0.00	H
ATOM	2656	HG LEU A 170	4.725	-17.125	-39.609	1.00	0.00	H
ATOM	2657	HD21 LEU A 170	5.849	-14.965	-37.754	1.00	0.00	H
ATOM	2658	HD22 LEU A 170	5.882	-14.941	-39.532	1.00	0.00	H
ATOM	2659	HD23 LEU A 170	4.342	-14.844	-38.668	1.00	0.00	H
ATOM	2660	HD11 LEU A 170	3.366	-16.751	-37.582	1.00	0.00	H
ATOM	2661	HD12 LEU A 170	4.815	-16.940	-36.567	1.00	0.00	H
ATOM	2662	HD13 LEU A 170	4.204	-18.310	-37.517	1.00	0.00	H
ATOM	2663	N PRO A 171	6.494	-17.104	-42.149	1.00	0.00	N
ATOM	2664	CA PRO A 171	6.512	-16.161	-43.262	1.00	0.00	C
ATOM	2665	C PRO A 171	6.012	-14.780	-42.819	1.00	0.00	C
ATOM	2666	O PRO A 171	5.013	-14.667	-42.111	1.00	0.00	O
ATOM	2667	CB PRO A 171	5.670	-16.776	-44.383	1.00	0.00	C
ATOM	2668	CG PRO A 171	4.951	-17.976	-43.765	1.00	0.00	C
ATOM	2669	CD PRO A 171	5.685	-18.272	-42.458	1.00	0.00	C
ATOM	2670	HA PRO A 171	7.535	-16.066	-43.621	1.00	0.00	H
ATOM	2671	HB2 PRO A 171	4.954	-16.063	-44.792	1.00	0.00	H

ATOM	2672	HB3 PRO A 171	6.330	-17.119	-45.175	1.00	0.00	H
ATOM	2673	HG2 PRO A 171	3.916	-17.719	-43.554	1.00	0.00	H
ATOM	2674	HG3 PRO A 171	4.983	-18.839	-44.432	1.00	0.00	H
ATOM	2675	HD2 PRO A 171	6.336	-19.136	-42.594	1.00	0.00	H
ATOM	2676	HD3 PRO A 171	4.961	-18.470	-41.667	1.00	0.00	H
ATOM	2677	N ARG A 172	6.701	-13.705	-43.221	1.00	0.00	N
ATOM	2678	CA ARG A 172	6.431	-12.338	-42.734	1.00	0.00	C
ATOM	2679	C ARG A 172	5.151	-11.691	-43.289	1.00	0.00	C
ATOM	2680	O ARG A 172	4.867	-10.549	-42.949	1.00	0.00	O
ATOM	2681	CB ARG A 172	7.687	-11.449	-42.829	1.00	0.00	C
ATOM	2682	CG ARG A 172	8.079	-10.972	-44.233	1.00	0.00	C
ATOM	2683	CD ARG A 172	9.132	-9.846	-44.201	1.00	0.00	C
ATOM	2684	NE ARG A 172	10.407	-10.198	-43.527	1.00	0.00	N
ATOM	2685	CZ ARG A 172	10.953	-9.577	-42.489	1.00	0.00	C
ATOM	2686	NH1 ARG A 172	10.243	-8.821	-41.699	1.00	0.00	N
ATOM	2687	NH2 ARG A 172	12.215	-9.714	-42.204	1.00	0.00	N
ATOM	2688	H ARG A 172	7.532	-13.866	-43.784	1.00	0.00	H
ATOM	2689	HA ARG A 172	6.223	-12.440	-41.669	1.00	0.00	H
ATOM	2690	HB2 ARG A 172	7.526	-10.575	-42.195	1.00	0.00	H
ATOM	2691	HB3 ARG A 172	8.530	-12.009	-42.430	1.00	0.00	H
ATOM	2692	HG2 ARG A 172	8.455	-11.814	-44.808	1.00	0.00	H
ATOM	2693	HG3 ARG A 172	7.197	-10.585	-44.742	1.00	0.00	H
ATOM	2694	HD2 ARG A 172	8.684	-8.965	-43.741	1.00	0.00	H
ATOM	2695	HD3 ARG A 172	9.363	-9.581	-45.234	1.00	0.00	H
ATOM	2696	HE ARG A 172	11.009	-10.840	-44.031	1.00	0.00	H
ATOM	2697	HH11 ARG A 172	9.255	-8.798	-41.837	1.00	0.00	H
ATOM	2698	HH12 ARG A 172	10.639	-8.449	-40.841	1.00	0.00	H
ATOM	2699	HH21 ARG A 172	12.810	-10.224	-42.850	1.00	0.00	H
ATOM	2700	HH22 ARG A 172	12.662	-9.093	-41.539	1.00	0.00	H
ATOM	2701	N THR A 173	4.352	-12.439	-44.050	1.00	0.00	N

ATOM	2702	CA	THR A 173	2.921	-12.186	-44.302	1.00	0.00	C
ATOM	2703	C	THR A 173	2.055	-12.459	-43.067	1.00	0.00	C
ATOM	2704	O	THR A 173	1.123	-11.712	-42.792	1.00	0.00	O
ATOM	2705	CB	THR A 173	2.430	-13.098	-45.441	1.00	0.00	C
ATOM	2706	OG1	THR A 173	2.840	-14.431	-45.221	1.00	0.00	O
ATOM	2707	CG2	THR A 173	3.014	-12.677	-46.789	1.00	0.00	C
ATOM	2708	H	THR A 173	4.659	-13.378	-44.258	1.00	0.00	H
ATOM	2709	HA	THR A 173	2.769	-11.146	-44.586	1.00	0.00	H
ATOM	2710	HB	THR A 173	1.341	-13.057	-45.503	1.00	0.00	H
ATOM	2711	HG21	THR A 173	2.618	-13.329	-47.568	1.00	0.00	H
ATOM	2712	HG22	THR A 173	2.727	-11.649	-47.009	1.00	0.00	H
ATOM	2713	HG23	THR A 173	4.100	-12.759	-46.774	1.00	0.00	H
ATOM	2714	HG1	THR A 173	2.075	-14.915	-44.813	1.00	0.00	H
ATOM	2715	N	GLU A 174	2.429	-13.447	-42.252	1.00	0.00	N
ATOM	2716	CA	GLU A 174	1.701	-13.846	-41.041	1.00	0.00	C
ATOM	2717	C	GLU A 174	2.125	-13.032	-39.809	1.00	0.00	C
ATOM	2718	O	GLU A 174	1.435	-13.051	-38.789	1.00	0.00	O
ATOM	2719	CB	GLU A 174	1.941	-15.341	-40.750	1.00	0.00	C
ATOM	2720	CG	GLU A 174	1.946	-16.266	-41.972	1.00	0.00	C
ATOM	2721	CD	GLU A 174	0.715	-16.072	-42.854	1.00	0.00	C
ATOM	2722	OE1	GLU A 174	-0.327	-16.638	-42.451	1.00	0.00	O
ATOM	2723	OE2	GLU A 174	0.905	-15.677	-44.024	1.00	0.00	O
ATOM	2724	H	GLU A 174	3.217	-14.023	-42.529	1.00	0.00	H
ATOM	2725	HA	GLU A 174	0.632	-13.687	-41.199	1.00	0.00	H
ATOM	2726	HB2	GLU A 174	1.175	-15.685	-40.053	1.00	0.00	H
ATOM	2727	HB3	GLU A 174	2.906	-15.458	-40.263	1.00	0.00	H
ATOM	2728	HG2	GLU A 174	2.846	-16.071	-42.554	1.00	0.00	H
ATOM	2729	HG3	GLU A 174	1.994	-17.303	-41.628	1.00	0.00	H
ATOM	2730	N	PHE A 175	3.310	-12.413	-39.855	1.00	0.00	N
ATOM	2731	CA	PHE A 175	3.981	-11.826	-38.696	1.00	0.00	C

ATOM	2732	C	PHE A 175	3.301	-10.538	-38.209	1.00	0.00	C
ATOM	2733	O	PHE A 175	3.645	-9.430	-38.621	1.00	0.00	O
ATOM	2734	CB	PHE A 175	5.469	-11.610	-39.010	1.00	0.00	C
ATOM	2735	CG	PHE A 175	6.268	-11.037	-37.851	1.00	0.00	C
ATOM	2736	CD1	PHE A 175	6.228	-11.653	-36.583	1.00	0.00	C
ATOM	2737	CD2	PHE A 175	7.054	-9.884	-38.037	1.00	0.00	C
ATOM	2738	CE1	PHE A 175	6.949	-11.107	-35.507	1.00	0.00	C
ATOM	2739	CE2	PHE A 175	7.789	-9.350	-36.965	1.00	0.00	C
ATOM	2740	CZ	PHE A 175	7.728	-9.954	-35.697	1.00	0.00	C
ATOM	2741	H	PHE A 175	3.806	-12.439	-40.732	1.00	0.00	H
ATOM	2742	HA	PHE A 175	3.919	-12.549	-37.882	1.00	0.00	H
ATOM	2743	HB2	PHE A 175	5.917	-12.562	-39.292	1.00	0.00	H
ATOM	2744	HB3	PHE A 175	5.549	-10.940	-39.867	1.00	0.00	H
ATOM	2745	HD1	PHE A 175	5.634	-12.541	-36.423	1.00	0.00	H
ATOM	2746	HD2	PHE A 175	7.080	-9.401	-39.002	1.00	0.00	H
ATOM	2747	HE1	PHE A 175	6.891	-11.566	-34.530	1.00	0.00	H
ATOM	2748	HE2	PHE A 175	8.382	-8.462	-37.108	1.00	0.00	H
ATOM	2749	HZ	PHE A 175	8.261	-9.521	-34.863	1.00	0.00	H
ATOM	2750	N	GLN A 176	2.383	-10.694	-37.256	1.00	0.00	N
ATOM	2751	CA	GLN A 176	1.738	-9.579	-36.567	1.00	0.00	C
ATOM	2752	C	GLN A 176	2.737	-8.891	-35.625	1.00	0.00	C
ATOM	2753	O	GLN A 176	3.091	-9.432	-34.579	1.00	0.00	O
ATOM	2754	CB	GLN A 176	0.488	-10.068	-35.806	1.00	0.00	C
ATOM	2755	CG	GLN A 176	-0.487	-10.906	-36.653	1.00	0.00	C
ATOM	2756	CD	GLN A 176	-0.809	-10.270	-38.002	1.00	0.00	C
ATOM	2757	OE1	GLN A 176	-1.278	-9.150	-38.092	1.00	0.00	O
ATOM	2758	NE2	GLN A 176	-0.492	-10.926	-39.095	1.00	0.00	N
ATOM	2759	H	GLN A 176	2.120	-11.633	-36.997	1.00	0.00	H
ATOM	2760	HA	GLN A 176	1.414	-8.850	-37.313	1.00	0.00	H
ATOM	2761	HB2	GLN A 176	0.797	-10.674	-34.952	1.00	0.00	H

ATOM	2762	HB3 GLN A 176	-0.042	-9.195	-35.424	1.00	0.00	H
ATOM	2763	HG2 GLN A 176	-0.061	-11.897	-36.809	1.00	0.00	H
ATOM	2764	HG3 GLN A 176	-1.416	-11.035	-36.098	1.00	0.00	H
ATOM	2765	HE21 GLN A 176	0.033	-11.789	-39.025	1.00	0.00	H
ATOM	2766	HE22 GLN A 176	-0.625	-10.447	-39.967	1.00	0.00	H
ATOM	2767	N TYR A 177	3.134	-7.664	-35.963	1.00	0.00	N
ATOM	2768	CA TYR A 177	3.960	-6.806	-35.116	1.00	0.00	C
ATOM	2769	C TYR A 177	3.527	-5.347	-35.267	1.00	0.00	C
ATOM	2770	O TYR A 177	3.466	-4.825	-36.379	1.00	0.00	O
ATOM	2771	CB TYR A 177	5.446	-6.992	-35.456	1.00	0.00	C
ATOM	2772	CG TYR A 177	6.376	-6.200	-34.552	1.00	0.00	C
ATOM	2773	CD1 TYR A 177	6.861	-6.783	-33.363	1.00	0.00	C
ATOM	2774	CD2 TYR A 177	6.705	-4.865	-34.863	1.00	0.00	C
ATOM	2775	CE1 TYR A 177	7.661	-6.029	-32.482	1.00	0.00	C
ATOM	2776	CE2 TYR A 177	7.506	-4.112	-33.984	1.00	0.00	C
ATOM	2777	CZ TYR A 177	7.970	-4.687	-32.784	1.00	0.00	C
ATOM	2778	OH TYR A 177	8.698	-3.943	-31.913	1.00	0.00	O
ATOM	2779	H TYR A 177	2.846	-7.297	-36.858	1.00	0.00	H
ATOM	2780	HA TYR A 177	3.819	-7.097	-34.074	1.00	0.00	H
ATOM	2781	HB2 TYR A 177	5.691	-8.051	-35.367	1.00	0.00	H
ATOM	2782	HB3 TYR A 177	5.621	-6.698	-36.493	1.00	0.00	H
ATOM	2783	HD1 TYR A 177	6.594	-7.803	-33.115	1.00	0.00	H
ATOM	2784	HD2 TYR A 177	6.310	-4.399	-35.760	1.00	0.00	H
ATOM	2785	HE1 TYR A 177	8.015	-6.457	-31.555	1.00	0.00	H
ATOM	2786	HE2 TYR A 177	7.732	-3.084	-34.212	1.00	0.00	H
ATOM	2787	HH TYR A 177	8.548	-3.005	-32.037	1.00	0.00	H
ATOM	2788	N ASN A 178	3.233	-4.682	-34.149	1.00	0.00	N
ATOM	2789	CA ASN A 178	2.982	-3.245	-34.128	1.00	0.00	C
ATOM	2790	C ASN A 178	4.315	-2.486	-34.128	1.00	0.00	C
ATOM	2791	O ASN A 178	4.971	-2.394	-33.091	1.00	0.00	O



ATOM	2792	CB	ASN A 178	2.116	-2.907	-32.903	1.00	0.00	C
ATOM	2793	CG	ASN A 178	1.811	-1.422	-32.771	1.00	0.00	C
ATOM	2794	OD1	ASN A 178	1.848	-0.646	-33.716	1.00	0.00	O
ATOM	2795	ND2	ASN A 178	1.605	-0.944	-31.571	1.00	0.00	N
ATOM	2796	H	ASN A 178	3.358	-5.150	-33.266	1.00	0.00	H
ATOM	2797	HA	ASN A 178	2.428	-2.958	-35.024	1.00	0.00	H
ATOM	2798	HB2	ASN A 178	1.168	-3.440	-32.970	1.00	0.00	H
ATOM	2799	HB3	ASN A 178	2.627	-3.238	-32.000	1.00	0.00	H
ATOM	2800	HD21	ASN A 178	1.918	-1.486	-30.769	1.00	0.00	H
ATOM	2801	HD22	ASN A 178	1.418	0.036	-31.483	1.00	0.00	H
ATOM	2802	N	ASP A 179	4.616	-1.790	-35.224	1.00	0.00	N
ATOM	2803	CA	ASP A 179	5.781	-0.901	-35.332	1.00	0.00	C
ATOM	2804	C	ASP A 179	5.823	0.182	-34.234	1.00	0.00	C
ATOM	2805	O	ASP A 179	6.901	0.489	-33.732	1.00	0.00	O
ATOM	2806	CB	ASP A 179	5.811	-0.257	-36.723	1.00	0.00	C
ATOM	2807	CG	ASP A 179	6.158	-1.207	-37.861	1.00	0.00	C
ATOM	2808	OD1	ASP A 179	6.438	-2.407	-37.647	1.00	0.00	O
ATOM	2809	OD2	ASP A 179	6.246	-0.712	-39.003	1.00	0.00	O
ATOM	2810	H	ASP A 179	4.087	-1.975	-36.064	1.00	0.00	H
ATOM	2811	HA	ASP A 179	6.691	-1.491	-35.234	1.00	0.00	H
ATOM	2812	HB2	ASP A 179	4.842	0.196	-36.931	1.00	0.00	H
ATOM	2813	HB3	ASP A 179	6.553	0.537	-36.728	1.00	0.00	H
ATOM	2814	N	SER A 180	4.669	0.594	-33.692	1.00	0.00	N
ATOM	2815	CA	SER A 180	4.578	1.555	-32.575	1.00	0.00	C
ATOM	2816	C	SER A 180	5.143	1.023	-31.245	1.00	0.00	C
ATOM	2817	O	SER A 180	5.414	1.814	-30.346	1.00	0.00	O
ATOM	2818	CB	SER A 180	3.135	2.033	-32.337	1.00	0.00	C
ATOM	2819	OG	SER A 180	2.353	2.057	-33.519	1.00	0.00	O
ATOM	2820	H	SER A 180	3.809	0.241	-34.087	1.00	0.00	H
ATOM	2821	HA	SER A 180	5.170	2.433	-32.838	1.00	0.00	H

ATOM	2822	HB2 SER A 180	2.651	1.389	-31.608	1.00	0.00	H
ATOM	2823	HB3 SER A 180	3.166	3.037	-31.912	1.00	0.00	H
ATOM	2824	HG SER A 180	2.073	1.147	-33.727	1.00	0.00	H
ATOM	2825	N ASN A 181	5.360	-0.294	-31.110	1.00	0.00	N
ATOM	2826	CA ASN A 181	6.080	-0.889	-29.977	1.00	0.00	C
ATOM	2827	C ASN A 181	7.609	-0.696	-30.074	1.00	0.00	C
ATOM	2828	O ASN A 181	8.325	-1.043	-29.136	1.00	0.00	O
ATOM	2829	CB ASN A 181	5.755	-2.398	-29.866	1.00	0.00	C
ATOM	2830	CG ASN A 181	4.333	-2.748	-29.453	1.00	0.00	C
ATOM	2831	OD1 ASN A 181	3.362	-2.050	-29.695	1.00	0.00	O
ATOM	2832	ND2 ASN A 181	4.150	-3.883	-28.819	1.00	0.00	N
ATOM	2833	H ASN A 181	5.129	-0.897	-31.892	1.00	0.00	H
ATOM	2834	HA ASN A 181	5.759	-0.398	-29.057	1.00	0.00	H
ATOM	2835	HB2 ASN A 181	5.977	-2.900	-30.806	1.00	0.00	H
ATOM	2836	HB3 ASN A 181	6.419	-2.825	-29.114	1.00	0.00	H
ATOM	2837	HD21 ASN A 181	4.931	-4.471	-28.585	1.00	0.00	H
ATOM	2838	HD22 ASN A 181	3.217	-4.090	-28.514	1.00	0.00	H
ATOM	2839	N CYS A 182	8.142	-0.330	-31.246	1.00	0.00	N
ATOM	2840	CA CYS A 182	9.580	-0.286	-31.497	1.00	0.00	C
ATOM	2841	C CYS A 182	10.253	0.877	-30.720	1.00	0.00	C
ATOM	2842	O CYS A 182	9.856	2.022	-30.940	1.00	0.00	O
ATOM	2843	CB CYS A 182	9.796	-0.203	-33.014	1.00	0.00	C
ATOM	2844	SG CYS A 182	11.476	-0.555	-33.576	1.00	0.00	S
ATOM	2845	H CYS A 182	7.524	-0.020	-31.990	1.00	0.00	H
ATOM	2846	HA CYS A 182	9.986	-1.241	-31.181	1.00	0.00	H
ATOM	2847	HB2 CYS A 182	9.129	-0.910	-33.509	1.00	0.00	H
ATOM	2848	HB3 CYS A 182	9.515	0.795	-33.352	1.00	0.00	H
ATOM	2849	N PRO A 183	11.278	0.652	-29.860	1.00	0.00	N
ATOM	2850	CA PRO A 183	11.807	1.655	-28.904	1.00	0.00	C
ATOM	2851	C PRO A 183	12.537	2.911	-29.444	1.00	0.00	C

ATOM	2852	O	PRO A 183	13.381	3.477	-28.752	1.00	0.00	O
ATOM	2853	CB	PRO A 183	12.718	0.874	-27.945	1.00	0.00	C
ATOM	2854	CG	PRO A 183	12.134	-0.530	-27.966	1.00	0.00	C
ATOM	2855	CD	PRO A 183	11.715	-0.676	-29.423	1.00	0.00	C
ATOM	2856	HA	PRO A 183	10.952	2.016	-28.331	1.00	0.00	H
ATOM	2857	HB2	PRO A 183	12.705	1.300	-26.940	1.00	0.00	H
ATOM	2858	HB3	PRO A 183	13.737	0.842	-28.334	1.00	0.00	H
ATOM	2859	HG2	PRO A 183	12.869	-1.283	-27.677	1.00	0.00	H
ATOM	2860	HG3	PRO A 183	11.253	-0.576	-27.323	1.00	0.00	H
ATOM	2861	HD2	PRO A 183	10.923	-1.421	-29.462	1.00	0.00	H
ATOM	2862	HD3	PRO A 183	12.563	-1.002	-30.024	1.00	0.00	H
ATOM	2863	N	ILE A 184	12.220	3.398	-30.643	1.00	0.00	N
ATOM	2864	CA	ILE A 184	12.958	4.432	-31.395	1.00	0.00	C
ATOM	2865	C	ILE A 184	12.998	5.847	-30.775	1.00	0.00	C
ATOM	2866	O	ILE A 184	13.517	6.759	-31.408	1.00	0.00	O
ATOM	2867	CB	ILE A 184	12.403	4.515	-32.837	1.00	0.00	C
ATOM	2868	CG1	ILE A 184	10.954	5.064	-32.857	1.00	0.00	C
ATOM	2869	CG2	ILE A 184	12.518	3.153	-33.545	1.00	0.00	C
ATOM	2870	CD1	ILE A 184	10.458	5.442	-34.253	1.00	0.00	C
ATOM	2871	H	ILE A 184	11.435	2.960	-31.114	1.00	0.00	H
ATOM	2872	HA	ILE A 184	13.996	4.105	-31.458	1.00	0.00	H
ATOM	2873	HB	ILE A 184	13.034	5.212	-33.393	1.00	0.00	H
ATOM	2874	HG12	ILE A 184	10.274	4.326	-32.431	1.00	0.00	H
ATOM	2875	HG13	ILE A 184	10.891	5.966	-32.249	1.00	0.00	H
ATOM	2876	HD11	ILE A 184	9.459	5.873	-34.178	1.00	0.00	H
ATOM	2877	HD12	ILE A 184	11.129	6.174	-34.703	1.00	0.00	H
ATOM	2878	HD13	ILE A 184	10.410	4.556	-34.877	1.00	0.00	H
ATOM	2879	HG21	ILE A 184	13.522	2.749	-33.417	1.00	0.00	H
ATOM	2880	HG22	ILE A 184	12.348	3.284	-34.610	1.00	0.00	H
ATOM	2881	HG23	ILE A 184	11.787	2.448	-33.152	1.00	0.00	H

ATOM	2882	N	ILE A 185	12.392	6.090	-29.610	1.00	0.00	N
ATOM	2883	CA	ILE A 185	12.001	7.441	-29.146	1.00	0.00	C
ATOM	2884	C	ILE A 185	13.188	8.421	-29.028	1.00	0.00	C
ATOM	2885	O	ILE A 185	13.058	9.583	-29.403	1.00	0.00	O
ATOM	2886	CB	ILE A 185	11.196	7.326	-27.825	1.00	0.00	C
ATOM	2887	CG1	ILE A 185	9.871	6.565	-28.090	1.00	0.00	C
ATOM	2888	CG2	ILE A 185	10.911	8.706	-27.199	1.00	0.00	C
ATOM	2889	CD1	ILE A 185	9.036	6.268	-26.837	1.00	0.00	C
ATOM	2890	H	ILE A 185	12.039	5.288	-29.108	1.00	0.00	H
ATOM	2891	HA	ILE A 185	11.339	7.873	-29.898	1.00	0.00	H
ATOM	2892	HB	ILE A 185	11.790	6.753	-27.111	1.00	0.00	H
ATOM	2893	HG12	ILE A 185	9.260	7.138	-28.789	1.00	0.00	H
ATOM	2894	HG13	ILE A 185	10.092	5.604	-28.554	1.00	0.00	H
ATOM	2895	HG21	ILE A 185	11.843	9.214	-26.946	1.00	0.00	H
ATOM	2896	HG22	ILE A 185	10.346	8.603	-26.275	1.00	0.00	H
ATOM	2897	HG23	ILE A 185	10.349	9.326	-27.899	1.00	0.00	H
ATOM	2898	HD11	ILE A 185	8.212	5.606	-27.106	1.00	0.00	H
ATOM	2899	HD12	ILE A 185	8.616	7.187	-26.429	1.00	0.00	H
ATOM	2900	HD13	ILE A 185	9.654	5.778	-26.084	1.00	0.00	H
ATOM	2901	N	HIS A 186	14.368	7.941	-28.626	1.00	0.00	N
ATOM	2902	CA	HIS A 186	15.611	8.740	-28.572	1.00	0.00	C
ATOM	2903	C	HIS A 186	16.465	8.635	-29.852	1.00	0.00	C
ATOM	2904	O	HIS A 186	17.497	9.294	-29.995	1.00	0.00	O
ATOM	2905	CB	HIS A 186	16.415	8.312	-27.335	1.00	0.00	C
ATOM	2906	CG	HIS A 186	15.611	8.358	-26.059	1.00	0.00	C
ATOM	2907	ND1	HIS A 186	15.133	9.520	-25.452	1.00	0.00	N
ATOM	2908	CD2	HIS A 186	15.178	7.278	-25.345	1.00	0.00	C
ATOM	2909	CE1	HIS A 186	14.431	9.118	-24.384	1.00	0.00	C
ATOM	2910	NE2	HIS A 186	14.440	7.776	-24.293	1.00	0.00	N
ATOM	2911	H	HIS A 186	14.411	6.969	-28.363	1.00	0.00	H

ATOM	2912	HA	HIS A 186	15.350	9.793	-28.449	1.00	0.00	H
ATOM	2913	HB2	HIS A 186	17.275	8.974	-27.222	1.00	0.00	H
ATOM	2914	HB3	HIS A 186	16.787	7.297	-27.482	1.00	0.00	H
ATOM	2915	HD2	HIS A 186	15.374	6.240	-25.575	1.00	0.00	H
ATOM	2916	HE1	HIS A 186	13.930	9.786	-23.696	1.00	0.00	H
ATOM	2917	HE2	HIS A 186	13.986	7.236	-23.571	1.00	0.00	H
ATOM	2918	N	CYS A 187	16.106	7.719	-30.747	1.00	0.00	N
ATOM	2919	CA	CYS A 187	16.943	7.215	-31.828	1.00	0.00	C
ATOM	2920	C	CYS A 187	16.730	8.024	-33.110	1.00	0.00	C
ATOM	2921	O	CYS A 187	15.987	7.623	-33.999	1.00	0.00	O
ATOM	2922	CB	CYS A 187	16.640	5.727	-31.996	1.00	0.00	C
ATOM	2923	SG	CYS A 187	16.989	4.785	-30.494	1.00	0.00	S
ATOM	2924	H	CYS A 187	15.189	7.300	-30.651	1.00	0.00	H
ATOM	2925	HA	CYS A 187	17.992	7.304	-31.539	1.00	0.00	H
ATOM	2926	HB2	CYS A 187	15.593	5.603	-32.266	1.00	0.00	H
ATOM	2927	HB3	CYS A 187	17.245	5.326	-32.810	1.00	0.00	H
ATOM	2928	N	LYS A 188	17.468	9.137	-33.223	1.00	0.00	N
ATOM	2929	CA	LYS A 188	17.288	10.247	-34.190	1.00	0.00	C
ATOM	2930	C	LYS A 188	17.003	9.892	-35.669	1.00	0.00	C
ATOM	2931	O	LYS A 188	16.627	10.788	-36.419	1.00	0.00	O
ATOM	2932	CB	LYS A 188	18.555	11.125	-34.132	1.00	0.00	C
ATOM	2933	CG	LYS A 188	18.271	12.622	-34.346	1.00	0.00	C
ATOM	2934	CD	LYS A 188	19.472	13.439	-34.854	1.00	0.00	C
ATOM	2935	CE	LYS A 188	20.773	13.279	-34.050	1.00	0.00	C
ATOM	2936	NZ	LYS A 188	21.578	12.114	-34.501	1.00	0.00	N
ATOM	2937	H	LYS A 188	17.979	9.359	-32.377	1.00	0.00	H
ATOM	2938	HA	LYS A 188	16.429	10.831	-33.854	1.00	0.00	H
ATOM	2939	HB2	LYS A 188	19.038	11.019	-33.158	1.00	0.00	H
ATOM	2940	HB3	LYS A 188	19.246	10.766	-34.897	1.00	0.00	H
ATOM	2941	HG2	LYS A 188	17.929	13.045	-33.400	1.00	0.00	H

ATOM	2942	HG3 LYS A 188	17.465	12.750	-35.067	1.00	0.00	H
ATOM	2943	HD2 LYS A 188	19.654	13.195	-35.900	1.00	0.00	H
ATOM	2944	HD3 LYS A 188	19.182	14.490	-34.821	1.00	0.00	H
ATOM	2945	HE2 LYS A 188	21.364	14.190	-34.184	1.00	0.00	H
ATOM	2946	HE3 LYS A 188	20.525	13.196	-32.987	1.00	0.00	H
ATOM	2947	HZ1 LYS A 188	22.433	12.032	-33.968	1.00	0.00	H
ATOM	2948	HZ2 LYS A 188	21.825	12.216	-35.484	1.00	0.00	H
ATOM	2949	HZ3 LYS A 188	21.054	11.254	-34.408	1.00	0.00	H
ATOM	2950	N TYR A 189	17.363	8.693	-36.128	1.00	0.00	N
ATOM	2951	CA TYR A 189	17.205	8.242	-37.521	1.00	0.00	C
ATOM	2952	C TYR A 189	16.382	6.947	-37.672	1.00	0.00	C
ATOM	2953	O TYR A 189	16.008	6.594	-38.790	1.00	0.00	O
ATOM	2954	CB TYR A 189	18.598	8.056	-38.152	1.00	0.00	C
ATOM	2955	CG TYR A 189	19.576	9.209	-37.974	1.00	0.00	C
ATOM	2956	CD1 TYR A 189	19.188	10.530	-38.274	1.00	0.00	C
ATOM	2957	CD2 TYR A 189	20.883	8.952	-37.514	1.00	0.00	C
ATOM	2958	CE1 TYR A 189	20.093	11.594	-38.094	1.00	0.00	C
ATOM	2959	CE2 TYR A 189	21.793	10.011	-37.333	1.00	0.00	C
ATOM	2960	CZ TYR A 189	21.396	11.331	-37.625	1.00	0.00	C
ATOM	2961	OH TYR A 189	22.249	12.355	-37.364	1.00	0.00	O
ATOM	2962	H TYR A 189	17.625	8.005	-35.441	1.00	0.00	H
ATOM	2963	HA TYR A 189	16.673	9.004	-38.090	1.00	0.00	H
ATOM	2964	HB2 TYR A 189	18.473	7.878	-39.221	1.00	0.00	H
ATOM	2965	HB3 TYR A 189	19.041	7.153	-37.726	1.00	0.00	H
ATOM	2966	HD1 TYR A 189	18.185	10.729	-38.630	1.00	0.00	H
ATOM	2967	HD2 TYR A 189	21.192	7.932	-37.316	1.00	0.00	H
ATOM	2968	HE1 TYR A 189	19.784	12.605	-38.316	1.00	0.00	H
ATOM	2969	HE2 TYR A 189	22.800	9.806	-36.999	1.00	0.00	H
ATOM	2970	HH TYR A 189	22.741	12.588	-38.161	1.00	0.00	H
ATOM	2971	N SER A 190	16.131	6.226	-36.577	1.00	0.00	N

ATOM	2972	CA	SER A 190	15.590	4.867	-36.598	1.00	0.00	C
ATOM	2973	C	SER A 190	14.095	4.848	-36.899	1.00	0.00	C
ATOM	2974	O	SER A 190	13.304	5.553	-36.271	1.00	0.00	O
ATOM	2975	CB	SER A 190	15.873	4.168	-35.269	1.00	0.00	C
ATOM	2976	OG	SER A 190	17.270	4.118	-35.054	1.00	0.00	O
ATOM	2977	H	SER A 190	16.345	6.610	-35.667	1.00	0.00	H
ATOM	2978	HA	SER A 190	16.098	4.310	-37.385	1.00	0.00	H
ATOM	2979	HB2	SER A 190	15.464	3.160	-35.295	1.00	0.00	H
ATOM	2980	HB3	SER A 190	15.396	4.719	-34.458	1.00	0.00	H
ATOM	2981	HG	SER A 190	17.654	3.627	-35.827	1.00	0.00	H
ATOM	2982	N	LYS A 191	13.677	3.990	-37.833	1.00	0.00	N
ATOM	2983	CA	LYS A 191	12.264	3.831	-38.199	1.00	0.00	C
ATOM	2984	C	LYS A 191	11.568	2.893	-37.218	1.00	0.00	C
ATOM	2985	O	LYS A 191	12.111	1.845	-36.884	1.00	0.00	O
ATOM	2986	CB	LYS A 191	12.112	3.321	-39.641	1.00	0.00	C
ATOM	2987	CG	LYS A 191	12.939	4.121	-40.664	1.00	0.00	C
ATOM	2988	CD	LYS A 191	12.654	3.665	-42.100	1.00	0.00	C
ATOM	2989	CE	LYS A 191	11.297	4.189	-42.585	1.00	0.00	C
ATOM	2990	NZ	LYS A 191	10.905	3.574	-43.874	1.00	0.00	N
ATOM	2991	H	LYS A 191	14.360	3.343	-38.215	1.00	0.00	H
ATOM	2992	HA	LYS A 191	11.787	4.810	-38.122	1.00	0.00	H
ATOM	2993	HB2	LYS A 191	12.415	2.276	-39.685	1.00	0.00	H
ATOM	2994	HB3	LYS A 191	11.056	3.371	-39.905	1.00	0.00	H
ATOM	2995	HG2	LYS A 191	12.722	5.186	-40.566	1.00	0.00	H
ATOM	2996	HG3	LYS A 191	14.001	3.964	-40.464	1.00	0.00	H
ATOM	2997	HD2	LYS A 191	13.442	4.051	-42.750	1.00	0.00	H
ATOM	2998	HD3	LYS A 191	12.676	2.573	-42.138	1.00	0.00	H
ATOM	2999	HE2	LYS A 191	11.359	5.277	-42.679	1.00	0.00	H
ATOM	3000	HE3	LYS A 191	10.535	3.954	-41.836	1.00	0.00	H
ATOM	3001	HZ1	LYS A 191	10.055	3.980	-44.235	1.00	0.00	H

ATOM	3002	HZ2	LYS A 191	11.641	3.610	-44.560	1.00	0.00	H
ATOM	3003	HZ3	LYS A 191	10.650	2.590	-43.717	1.00	0.00	H
ATOM	3004	N	ALA A 192	10.265	3.094	-37.037	1.00	0.00	N
ATOM	3005	CA	ALA A 192	9.406	2.165	-36.295	1.00	0.00	C
ATOM	3006	C	ALA A 192	9.332	0.763	-36.950	1.00	0.00	C
ATOM	3007	O	ALA A 192	9.303	-0.252	-36.257	1.00	0.00	O
ATOM	3008	CB	ALA A 192	8.033	2.837	-36.171	1.00	0.00	C
ATOM	3009	H	ALA A 192	9.870	3.969	-37.335	1.00	0.00	H
ATOM	3010	HA	ALA A 192	9.817	2.033	-35.292	1.00	0.00	H
ATOM	3011	HB1	ALA A 192	7.403	2.260	-35.498	1.00	0.00	H
ATOM	3012	HB2	ALA A 192	7.551	2.900	-37.148	1.00	0.00	H
ATOM	3013	HB3	ALA A 192	8.141	3.838	-35.753	1.00	0.00	H
ATOM	3014	N	GLU A 193	9.560	0.701	-38.268	1.00	0.00	N
ATOM	3015	CA	GLU A 193	9.720	-0.543	-39.030	1.00	0.00	C
ATOM	3016	C	GLU A 193	10.927	-1.393	-38.602	1.00	0.00	C
ATOM	3017	O	GLU A 193	10.941	-2.596	-38.856	1.00	0.00	O
ATOM	3018	CB	GLU A 193	9.937	-0.226	-40.517	1.00	0.00	C
ATOM	3019	CG	GLU A 193	8.928	0.727	-41.166	1.00	0.00	C
ATOM	3020	CD	GLU A 193	8.927	0.524	-42.686	1.00	0.00	C
ATOM	3021	OE1	GLU A 193	8.488	-0.569	-43.126	1.00	0.00	O
ATOM	3022	OE2	GLU A 193	9.553	1.363	-43.372	1.00	0.00	O
ATOM	3023	H	GLU A 193	9.592	1.566	-38.777	1.00	0.00	H
ATOM	3024	HA	GLU A 193	8.822	-1.152	-38.918	1.00	0.00	H
ATOM	3025	HB2	GLU A 193	10.934	0.198	-40.655	1.00	0.00	H
ATOM	3026	HB3	GLU A 193	9.908	-1.178	-41.047	1.00	0.00	H
ATOM	3027	HG2	GLU A 193	7.929	0.531	-40.779	1.00	0.00	H
ATOM	3028	HG3	GLU A 193	9.188	1.760	-40.914	1.00	0.00	H
ATOM	3029	N	ASN A 194	11.999	-0.778	-38.088	1.00	0.00	N
ATOM	3030	CA	ASN A 194	13.317	-1.412	-37.983	1.00	0.00	C
ATOM	3031	C	ASN A 194	13.295	-2.685	-37.127	1.00	0.00	C



ATOM	3032	O	ASN A 194	13.847	-3.702	-37.548	1.00	0.00	O
ATOM	3033	CB	ASN A 194	14.334	-0.401	-37.432	1.00	0.00	C
ATOM	3034	CG	ASN A 194	14.736	0.694	-38.409	1.00	0.00	C
ATOM	3035	OD1	ASN A 194	14.377	0.694	-39.578	1.00	0.00	O
ATOM	3036	ND2	ASN A 194	15.578	1.597	-37.972	1.00	0.00	N
ATOM	3037	H	ASN A 194	11.936	0.209	-37.867	1.00	0.00	H
ATOM	3038	HA	ASN A 194	13.638	-1.712	-38.981	1.00	0.00	H
ATOM	3039	HB2	ASN A 194	13.953	0.057	-36.520	1.00	0.00	H
ATOM	3040	HB3	ASN A 194	15.240	-0.942	-37.171	1.00	0.00	H
ATOM	3041	HD21	ASN A 194	15.926	1.499	-37.019	1.00	0.00	H
ATOM	3042	HD22	ASN A 194	16.283	1.933	-38.624	1.00	0.00	H
ATOM	3043	N	CYS A 195	12.455	-2.704	-36.085	1.00	0.00	N
ATOM	3044	CA	CYS A 195	12.134	-3.904	-35.319	1.00	0.00	C
ATOM	3045	C	CYS A 195	11.551	-5.013	-36.213	1.00	0.00	C
ATOM	3046	O	CYS A 195	12.182	-6.054	-36.388	1.00	0.00	O
ATOM	3047	CB	CYS A 195	11.164	-3.548	-34.183	1.00	0.00	C
ATOM	3048	SG	CYS A 195	11.826	-2.451	-32.905	1.00	0.00	S
ATOM	3049	H	CYS A 195	11.987	-1.841	-35.844	1.00	0.00	H
ATOM	3050	HA	CYS A 195	13.053	-4.289	-34.877	1.00	0.00	H
ATOM	3051	HB2	CYS A 195	10.872	-4.475	-33.688	1.00	0.00	H
ATOM	3052	HB3	CYS A 195	10.262	-3.095	-34.596	1.00	0.00	H
ATOM	3053	N	ARG A 196	10.420	-4.751	-36.883	1.00	0.00	N
ATOM	3054	CA	ARG A 196	9.716	-5.702	-37.764	1.00	0.00	C
ATOM	3055	C	ARG A 196	10.585	-6.213	-38.916	1.00	0.00	C
ATOM	3056	O	ARG A 196	10.500	-7.387	-39.285	1.00	0.00	O
ATOM	3057	CB	ARG A 196	8.444	-5.004	-38.282	1.00	0.00	C
ATOM	3058	CG	ARG A 196	7.640	-5.814	-39.317	1.00	0.00	C
ATOM	3059	CD	ARG A 196	6.301	-5.154	-39.682	1.00	0.00	C
ATOM	3060	NE	ARG A 196	6.446	-3.741	-40.066	1.00	0.00	N
ATOM	3061	CZ	ARG A 196	6.895	-3.205	-41.180	1.00	0.00	C

ATOM	3062	NH1	ARG	A	196	7.261	-3.903	-42.213	1.00	0.00	N
ATOM	3063	NH2	ARG	A	196	6.977	-1.924	-41.282	1.00	0.00	N
ATOM	3064	H	ARG	A	196	10.031	-3.820	-36.799	1.00	0.00	H
ATOM	3065	HA	ARG	A	196	9.426	-6.570	-37.175	1.00	0.00	H
ATOM	3066	HB2	ARG	A	196	7.798	-4.790	-37.432	1.00	0.00	H
ATOM	3067	HB3	ARG	A	196	8.725	-4.051	-38.733	1.00	0.00	H
ATOM	3068	HG2	ARG	A	196	8.229	-5.930	-40.227	1.00	0.00	H
ATOM	3069	HG3	ARG	A	196	7.429	-6.803	-38.911	1.00	0.00	H
ATOM	3070	HD2	ARG	A	196	5.648	-5.189	-38.807	1.00	0.00	H
ATOM	3071	HD3	ARG	A	196	5.813	-5.714	-40.481	1.00	0.00	H
ATOM	3072	HE	ARG	A	196	6.292	-3.071	-39.305	1.00	0.00	H
ATOM	3073	HH11	ARG	A	196	7.090	-4.884	-42.204	1.00	0.00	H
ATOM	3074	HH12	ARG	A	196	7.563	-3.401	-43.028	1.00	0.00	H
ATOM	3075	HH21	ARG	A	196	6.688	-1.368	-40.472	1.00	0.00	H
ATOM	3076	HH22	ARG	A	196	7.436	-1.455	-42.062	1.00	0.00	H
ATOM	3077	N	LEU	A	197	11.412	-5.347	-39.496	1.00	0.00	N
ATOM	3078	CA	LEU	A	197	12.327	-5.696	-40.582	1.00	0.00	C
ATOM	3079	C	LEU	A	197	13.477	-6.595	-40.096	1.00	0.00	C
ATOM	3080	O	LEU	A	197	13.667	-7.663	-40.682	1.00	0.00	O
ATOM	3081	CB	LEU	A	197	12.843	-4.406	-41.246	1.00	0.00	C
ATOM	3082	CG	LEU	A	197	11.758	-3.560	-41.947	1.00	0.00	C
ATOM	3083	CD1	LEU	A	197	12.386	-2.273	-42.481	1.00	0.00	C
ATOM	3084	CD2	LEU	A	197	11.077	-4.288	-43.109	1.00	0.00	C
ATOM	3085	H	LEU	A	197	11.393	-4.387	-39.159	1.00	0.00	H
ATOM	3086	HA	LEU	A	197	11.783	-6.273	-41.329	1.00	0.00	H
ATOM	3087	HB2	LEU	A	197	13.316	-3.794	-40.478	1.00	0.00	H
ATOM	3088	HB3	LEU	A	197	13.605	-4.671	-41.978	1.00	0.00	H
ATOM	3089	HG	LEU	A	197	10.983	-3.293	-41.236	1.00	0.00	H
ATOM	3090	HD11	LEU	A	197	13.163	-2.500	-43.210	1.00	0.00	H
ATOM	3091	HD12	LEU	A	197	12.819	-1.708	-41.654	1.00	0.00	H

ATOM	3092	HD13	LEU	A	197	11.617	-1.656	-42.948	1.00	0.00	H
ATOM	3093	HD21	LEU	A	197	10.374	-3.608	-43.592	1.00	0.00	H
ATOM	3094	HD22	LEU	A	197	11.810	-4.619	-43.839	1.00	0.00	H
ATOM	3095	HD23	LEU	A	197	10.518	-5.145	-42.739	1.00	0.00	H
ATOM	3096	N	SER	A	198	14.107	-6.260	-38.961	1.00	0.00	N
ATOM	3097	CA	SER	A	198	15.251	-6.986	-38.379	1.00	0.00	C
ATOM	3098	C	SER	A	198	14.941	-8.426	-37.955	1.00	0.00	C
ATOM	3099	O	SER	A	198	15.838	-9.256	-38.021	1.00	0.00	O
ATOM	3100	CB	SER	A	198	15.818	-6.197	-37.186	1.00	0.00	C
ATOM	3101	OG	SER	A	198	16.835	-6.905	-36.490	1.00	0.00	O
ATOM	3102	H	SER	A	198	13.827	-5.400	-38.495	1.00	0.00	H
ATOM	3103	HA	SER	A	198	16.036	-7.048	-39.133	1.00	0.00	H
ATOM	3104	HB2	SER	A	198	16.217	-5.248	-37.544	1.00	0.00	H
ATOM	3105	HB3	SER	A	198	15.008	-5.986	-36.485	1.00	0.00	H
ATOM	3106	HG	SER	A	198	17.565	-7.113	-37.108	1.00	0.00	H
ATOM	3107	N	MET	A	199	13.676	-8.795	-37.708	1.00	0.00	N
ATOM	3108	CA	MET	A	199	13.304	-10.161	-37.283	1.00	0.00	C
ATOM	3109	C	MET	A	199	13.583	-11.284	-38.309	1.00	0.00	C
ATOM	3110	O	MET	A	199	13.324	-12.448	-38.011	1.00	0.00	O
ATOM	3111	CB	MET	A	199	11.833	-10.229	-36.832	1.00	0.00	C
ATOM	3112	CG	MET	A	199	11.420	-9.198	-35.782	1.00	0.00	C
ATOM	3113	SD	MET	A	199	12.495	-9.055	-34.328	1.00	0.00	S
ATOM	3114	CE	MET	A	199	11.635	-7.723	-33.450	1.00	0.00	C
ATOM	3115	H	MET	A	199	12.984	-8.061	-37.633	1.00	0.00	H
ATOM	3116	HA	MET	A	199	13.914	-10.398	-36.413	1.00	0.00	H
ATOM	3117	HB2	MET	A	199	11.193	-10.096	-37.702	1.00	0.00	H
ATOM	3118	HB3	MET	A	199	11.643	-11.219	-36.413	1.00	0.00	H
ATOM	3119	HG2	MET	A	199	11.348	-8.232	-36.269	1.00	0.00	H
ATOM	3120	HG3	MET	A	199	10.423	-9.458	-35.435	1.00	0.00	H
ATOM	3121	HE1	MET	A	199	11.651	-6.816	-34.049	1.00	0.00	H

ATOM	3122	HE2 MET A 199	12.135	-7.528	-32.504	1.00	0.00	H
ATOM	3123	HE3 MET A 199	10.602	-8.010	-33.260	1.00	0.00	H
ATOM	3124	N GLY A 200	14.090	-10.986	-39.510	1.00	0.00	N
ATOM	3125	CA GLY A 200	14.535	-11.989	-40.483	1.00	0.00	C
ATOM	3126	C GLY A 200	15.872	-11.627	-41.135	1.00	0.00	C
ATOM	3127	O GLY A 200	16.190	-10.452	-41.289	1.00	0.00	O
ATOM	3128	H GLY A 200	14.437	-10.043	-39.638	1.00	0.00	H
ATOM	3129	HA2 GLY A 200	14.650	-12.957	-39.994	1.00	0.00	H
ATOM	3130	HA3 GLY A 200	13.784	-12.093	-41.264	1.00	0.00	H
ATOM	3131	N VAL A 201	16.570	-12.642	-41.661	1.00	0.00	N
ATOM	3132	CA VAL A 201	17.931	-12.569	-42.255	1.00	0.00	C
ATOM	3133	C VAL A 201	18.082	-11.520	-43.374	1.00	0.00	C
ATOM	3134	O VAL A 201	19.172	-11.009	-43.616	1.00	0.00	O
ATOM	3135	CB VAL A 201	18.325	-13.981	-42.756	1.00	0.00	C
ATOM	3136	CG1 VAL A 201	19.585	-14.037	-43.629	1.00	0.00	C
ATOM	3137	CG2 VAL A 201	18.532	-14.928	-41.567	1.00	0.00	C
ATOM	3138	H VAL A 201	16.219	-13.569	-41.474	1.00	0.00	H
ATOM	3139	HA VAL A 201	18.637	-12.280	-41.474	1.00	0.00	H
ATOM	3140	HB VAL A 201	17.502	-14.371	-43.357	1.00	0.00	H
ATOM	3141	HG11 VAL A 201	19.409	-13.547	-44.585	1.00	0.00	H
ATOM	3142	HG12 VAL A 201	19.862	-15.074	-43.823	1.00	0.00	H
ATOM	3143	HG13 VAL A 201	20.410	-13.540	-43.121	1.00	0.00	H
ATOM	3144	HG21 VAL A 201	18.754	-15.933	-41.929	1.00	0.00	H
ATOM	3145	HG22 VAL A 201	17.640	-14.978	-40.946	1.00	0.00	H
ATOM	3146	HG23 VAL A 201	19.370	-14.585	-40.957	1.00	0.00	H
ATOM	3147	N ASN A 202	16.979	-11.096	-43.994	1.00	0.00	N
ATOM	3148	CA ASN A 202	16.870	-9.793	-44.650	1.00	0.00	C
ATOM	3149	C ASN A 202	15.631	-9.063	-44.101	1.00	0.00	C
ATOM	3150	O ASN A 202	14.590	-9.697	-43.926	1.00	0.00	O
ATOM	3151	CB ASN A 202	16.735	-9.944	-46.180	1.00	0.00	C

ATOM	3152	CG	ASN A 202	17.873	-10.554	-46.983	1.00	0.00	C
ATOM	3153	OD1	ASN A 202	17.722	-10.733	-48.180	1.00	0.00	O
ATOM	3154	ND2	ASN A 202	19.032	-10.814	-46.431	1.00	0.00	N
ATOM	3155	H	ASN A 202	16.115	-11.462	-43.624	1.00	0.00	H
ATOM	3156	HA	ASN A 202	17.746	-9.182	-44.418	1.00	0.00	H
ATOM	3157	HB2	ASN A 202	16.587	-8.950	-46.595	1.00	0.00	H
ATOM	3158	HB3	ASN A 202	15.851	-10.539	-46.393	1.00	0.00	H
ATOM	3159	HD21	ASN A 202	19.178	-10.720	-45.429	1.00	0.00	H
ATOM	3160	HD22	ASN A 202	19.747	-11.200	-47.020	1.00	0.00	H
ATOM	3161	N	SER A 203	15.602	-7.739	-44.270	1.00	0.00	N
ATOM	3162	CA	SER A 203	14.370	-6.929	-44.221	1.00	0.00	C
ATOM	3163	C	SER A 203	13.289	-7.416	-45.203	1.00	0.00	C
ATOM	3164	O	SER A 203	12.124	-7.542	-44.834	1.00	0.00	O
ATOM	3165	CB	SER A 203	14.743	-5.479	-44.547	1.00	0.00	C
ATOM	3166	OG	SER A 203	15.415	-5.410	-45.796	1.00	0.00	O
ATOM	3167	H	SER A 203	16.455	-7.263	-44.525	1.00	0.00	H
ATOM	3168	HA	SER A 203	13.953	-6.970	-43.215	1.00	0.00	H
ATOM	3169	HB2	SER A 203	13.845	-4.863	-44.583	1.00	0.00	H
ATOM	3170	HB3	SER A 203	15.398	-5.100	-43.765	1.00	0.00	H
ATOM	3171	HG	SER A 203	15.723	-4.504	-45.924	1.00	0.00	H
ATOM	3172	N	LYS A 204	13.710	-7.847	-46.401	1.00	0.00	N
ATOM	3173	CA	LYS A 204	12.878	-8.440	-47.466	1.00	0.00	C
ATOM	3174	C	LYS A 204	12.785	-9.978	-47.449	1.00	0.00	C
ATOM	3175	O	LYS A 204	12.532	-10.576	-48.494	1.00	0.00	O
ATOM	3176	CB	LYS A 204	13.310	-7.858	-48.830	1.00	0.00	C
ATOM	3177	CG	LYS A 204	14.747	-8.213	-49.281	1.00	0.00	C
ATOM	3178	CD	LYS A 204	14.869	-9.300	-50.362	1.00	0.00	C
ATOM	3179	CE	LYS A 204	14.234	-8.861	-51.689	1.00	0.00	C
ATOM	3180	NZ	LYS A 204	14.296	-9.943	-52.702	1.00	0.00	N
ATOM	3181	H	LYS A 204	14.678	-7.649	-46.608	1.00	0.00	H

ATOM	3182	HA	LYS A 204	11.852	-8.109	-47.292	1.00	0.00	H
ATOM	3183	HB2	LYS A 204	12.588	-8.162	-49.587	1.00	0.00	H
ATOM	3184	HB3	LYS A 204	13.244	-6.770	-48.756	1.00	0.00	H
ATOM	3185	HG2	LYS A 204	15.217	-7.307	-49.666	1.00	0.00	H
ATOM	3186	HG3	LYS A 204	15.330	-8.531	-48.420	1.00	0.00	H
ATOM	3187	HD2	LYS A 204	14.407	-10.223	-50.016	1.00	0.00	H
ATOM	3188	HD3	LYS A 204	15.929	-9.503	-50.522	1.00	0.00	H
ATOM	3189	HE2	LYS A 204	13.191	-8.584	-51.508	1.00	0.00	H
ATOM	3190	HE3	LYS A 204	14.762	-7.971	-52.048	1.00	0.00	H
ATOM	3191	HZ1	LYS A 204	13.897	-9.633	-53.579	1.00	0.00	H
ATOM	3192	HZ2	LYS A 204	13.776	-10.749	-52.378	1.00	0.00	H
ATOM	3193	HZ3	LYS A 204	15.256	-10.223	-52.860	1.00	0.00	H
ATOM	3194	N	SER A 205	13.146	-10.635	-46.343	1.00	0.00	N
ATOM	3195	CA	SER A 205	13.092	-12.102	-46.226	1.00	0.00	C
ATOM	3196	C	SER A 205	11.665	-12.640	-46.381	1.00	0.00	C
ATOM	3197	O	SER A 205	10.704	-11.955	-46.042	1.00	0.00	O
ATOM	3198	CB	SER A 205	13.662	-12.563	-44.879	1.00	0.00	C
ATOM	3199	OG	SER A 205	12.888	-12.063	-43.807	1.00	0.00	O
ATOM	3200	H	SER A 205	13.349	-10.104	-45.505	1.00	0.00	H
ATOM	3201	HA	SER A 205	13.704	-12.532	-47.018	1.00	0.00	H
ATOM	3202	HB2	SER A 205	13.660	-13.654	-44.840	1.00	0.00	H
ATOM	3203	HB3	SER A 205	14.690	-12.219	-44.782	1.00	0.00	H
ATOM	3204	HG	SER A 205	12.640	-12.825	-43.234	1.00	0.00	H
ATOM	3205	N	HIS A 206	11.546	-13.915	-46.763	1.00	0.00	N
ATOM	3206	CA	HIS A 206	10.296	-14.679	-46.658	1.00	0.00	C
ATOM	3207	C	HIS A 206	9.943	-14.948	-45.185	1.00	0.00	C
ATOM	3208	O	HIS A 206	9.006	-14.345	-44.673	1.00	0.00	O
ATOM	3209	CB	HIS A 206	10.432	-15.959	-47.502	1.00	0.00	C
ATOM	3210	CG	HIS A 206	9.279	-16.924	-47.406	1.00	0.00	C
ATOM	3211	ND1	HIS A 206	8.969	-17.668	-46.273	1.00	0.00	N

ATOM	3212	CD2	HIS A 206	8.496	-17.350	-48.440	1.00	0.00	C
ATOM	3213	CE1	HIS A 206	8.020	-18.540	-46.645	1.00	0.00	C
ATOM	3214	NE2	HIS A 206	7.702	-18.357	-47.936	1.00	0.00	N
ATOM	3215	H	HIS A 206	12.379	-14.419	-47.020	1.00	0.00	H
ATOM	3216	HA	HIS A 206	9.473	-14.088	-47.064	1.00	0.00	H
ATOM	3217	HB2	HIS A 206	11.330	-16.496	-47.193	1.00	0.00	H
ATOM	3218	HB3	HIS A 206	10.561	-15.675	-48.547	1.00	0.00	H
ATOM	3219	HD2	HIS A 206	8.551	-17.017	-49.466	1.00	0.00	H
ATOM	3220	HE1	HIS A 206	7.586	-19.295	-45.999	1.00	0.00	H
ATOM	3221	HE2	HIS A 206	7.050	-18.931	-48.454	1.00	0.00	H
ATOM	3222	N	TYR A 207	10.840	-15.602	-44.442	1.00	0.00	N
ATOM	3223	CA	TYR A 207	10.692	-15.844	-43.003	1.00	0.00	C
ATOM	3224	C	TYR A 207	11.130	-14.660	-42.129	1.00	0.00	C
ATOM	3225	O	TYR A 207	12.218	-14.113	-42.339	1.00	0.00	O
ATOM	3226	CB	TYR A 207	11.478	-17.109	-42.625	1.00	0.00	C
ATOM	3227	CG	TYR A 207	10.986	-18.339	-43.353	1.00	0.00	C
ATOM	3228	CD1	TYR A 207	9.708	-18.833	-43.050	1.00	0.00	C
ATOM	3229	CD2	TYR A 207	11.751	-18.941	-44.370	1.00	0.00	C
ATOM	3230	CE1	TYR A 207	9.187	-19.924	-43.757	1.00	0.00	C
ATOM	3231	CE2	TYR A 207	11.227	-20.040	-45.081	1.00	0.00	C
ATOM	3232	CZ	TYR A 207	9.943	-20.535	-44.776	1.00	0.00	C
ATOM	3233	OH	TYR A 207	9.435	-21.585	-45.474	1.00	0.00	O
ATOM	3234	H	TYR A 207	11.551	-16.125	-44.923	1.00	0.00	H
ATOM	3235	HA	TYR A 207	9.640	-16.035	-42.799	1.00	0.00	H
ATOM	3236	HB2	TYR A 207	12.538	-16.955	-42.833	1.00	0.00	H
ATOM	3237	HB3	TYR A 207	11.375	-17.288	-41.555	1.00	0.00	H
ATOM	3238	HD1	TYR A 207	9.112	-18.356	-42.291	1.00	0.00	H
ATOM	3239	HD2	TYR A 207	12.734	-18.564	-44.607	1.00	0.00	H
ATOM	3240	HE1	TYR A 207	8.191	-20.264	-43.550	1.00	0.00	H
ATOM	3241	HE2	TYR A 207	11.780	-20.492	-45.882	1.00	0.00	H

ATOM	3242	HH	TYR	A 207	8.488	-21.742	-45.241	1.00	0.00	H
ATOM	3243	N	ILE	A 208	10.432	-14.453	-41.007	1.00	0.00	N
ATOM	3244	CA	ILE	A 208	11.074	-14.082	-39.736	1.00	0.00	C
ATOM	3245	C	ILE	A 208	11.494	-15.341	-38.971	1.00	0.00	C
ATOM	3246	O	ILE	A 208	10.919	-16.417	-39.155	1.00	0.00	O
ATOM	3247	CB	ILE	A 208	10.209	-13.143	-38.860	1.00	0.00	C
ATOM	3248	CG1	ILE	A 208	8.884	-13.727	-38.318	1.00	0.00	C
ATOM	3249	CG2	ILE	A 208	9.940	-11.835	-39.618	1.00	0.00	C
ATOM	3250	CD1	ILE	A 208	9.015	-14.513	-37.005	1.00	0.00	C
ATOM	3251	H	ILE	A 208	9.570	-14.983	-40.912	1.00	0.00	H
ATOM	3252	HA	ILE	A 208	11.991	-13.539	-39.960	1.00	0.00	H
ATOM	3253	HB	ILE	A 208	10.805	-12.866	-37.991	1.00	0.00	H
ATOM	3254	HG12	ILE	A 208	8.406	-14.345	-39.072	1.00	0.00	H
ATOM	3255	HG13	ILE	A 208	8.212	-12.899	-38.108	1.00	0.00	H
ATOM	3256	HG21	ILE	A 208	9.251	-12.027	-40.432	1.00	0.00	H
ATOM	3257	HG22	ILE	A 208	9.491	-11.105	-38.945	1.00	0.00	H
ATOM	3258	HG23	ILE	A 208	10.874	-11.432	-40.008	1.00	0.00	H
ATOM	3259	HD11	ILE	A 208	8.020	-14.728	-36.616	1.00	0.00	H
ATOM	3260	HD12	ILE	A 208	9.557	-13.921	-36.266	1.00	0.00	H
ATOM	3261	HD13	ILE	A 208	9.530	-15.457	-37.165	1.00	0.00	H
ATOM	3262	N	LEU	A 209	12.480	-15.180	-38.091	1.00	0.00	N
ATOM	3263	CA	LEU	A 209	12.918	-16.181	-37.124	1.00	0.00	C
ATOM	3264	C	LEU	A 209	12.405	-15.803	-35.725	1.00	0.00	C
ATOM	3265	O	LEU	A 209	12.503	-14.639	-35.334	1.00	0.00	O
ATOM	3266	CB	LEU	A 209	14.457	-16.280	-37.146	1.00	0.00	C
ATOM	3267	CG	LEU	A 209	15.110	-16.514	-38.520	1.00	0.00	C
ATOM	3268	CD1	LEU	A 209	16.625	-16.636	-38.357	1.00	0.00	C
ATOM	3269	CD2	LEU	A 209	14.604	-17.787	-39.190	1.00	0.00	C
ATOM	3270	H	LEU	A 209	12.833	-14.237	-37.958	1.00	0.00	H
ATOM	3271	HA	LEU	A 209	12.503	-17.155	-37.388	1.00	0.00	H



ATOM	3272	HB2 LEU A 209	14.866	-15.355	-36.745	1.00	0.00	H
ATOM	3273	HB3 LEU A 209	14.755	-17.089	-36.483	1.00	0.00	H
ATOM	3274	HG LEU A 209	14.906	-15.665	-39.175	1.00	0.00	H
ATOM	3275	HD11 LEU A 209	17.023	-15.726	-37.907	1.00	0.00	H
ATOM	3276	HD12 LEU A 209	16.863	-17.481	-37.710	1.00	0.00	H
ATOM	3277	HD13 LEU A 209	17.095	-16.786	-39.328	1.00	0.00	H
ATOM	3278	HD21 LEU A 209	15.135	-17.948	-40.127	1.00	0.00	H
ATOM	3279	HD22 LEU A 209	13.540	-17.702	-39.405	1.00	0.00	H
ATOM	3280	HD23 LEU A 209	14.770	-18.644	-38.536	1.00	0.00	H
ATOM	3281	N ARG A 210	12.060	-16.798	-34.904	1.00	0.00	N
ATOM	3282	CA ARG A 210	11.633	-16.638	-33.500	1.00	0.00	C
ATOM	3283	C ARG A 210	12.342	-17.667	-32.619	1.00	0.00	C
ATOM	3284	O ARG A 210	12.143	-18.859	-32.826	1.00	0.00	O
ATOM	3285	CB ARG A 210	10.104	-16.832	-33.448	1.00	0.00	C
ATOM	3286	CG ARG A 210	9.463	-16.556	-32.076	1.00	0.00	C
ATOM	3287	CD ARG A 210	9.222	-15.060	-31.838	1.00	0.00	C
ATOM	3288	NE ARG A 210	8.336	-14.813	-30.683	1.00	0.00	N
ATOM	3289	CZ ARG A 210	7.015	-14.863	-30.657	1.00	0.00	C
ATOM	3290	NH1 ARG A 210	6.290	-15.248	-31.660	1.00	0.00	N
ATOM	3291	NH2 ARG A 210	6.388	-14.676	-29.542	1.00	0.00	N
ATOM	3292	H ARG A 210	11.967	-17.724	-35.319	1.00	0.00	H
ATOM	3293	HA ARG A 210	11.884	-15.636	-33.148	1.00	0.00	H
ATOM	3294	HB2 ARG A 210	9.630	-16.192	-34.195	1.00	0.00	H
ATOM	3295	HB3 ARG A 210	9.878	-17.864	-33.725	1.00	0.00	H
ATOM	3296	HG2 ARG A 210	8.511	-17.078	-32.040	1.00	0.00	H
ATOM	3297	HG3 ARG A 210	10.081	-16.959	-31.276	1.00	0.00	H
ATOM	3298	HD2 ARG A 210	10.185	-14.583	-31.657	1.00	0.00	H
ATOM	3299	HD3 ARG A 210	8.781	-14.613	-32.731	1.00	0.00	H
ATOM	3300	HE ARG A 210	8.762	-14.671	-29.774	1.00	0.00	H
ATOM	3301	HH11 ARG A 210	6.741	-15.705	-32.431	1.00	0.00	H

ATOM	3302	HH12	ARG A 210	5.372	-15.615	-31.394	1.00	0.00	H
ATOM	3303	HH21	ARG A 210	6.952	-14.687	-28.703	1.00	0.00	H
ATOM	3304	HH22	ARG A 210	5.451	-15.085	-29.499	1.00	0.00	H
ATOM	3305	N	SER A 211	13.165	-17.241	-31.657	1.00	0.00	N
ATOM	3306	CA	SER A 211	13.763	-18.166	-30.675	1.00	0.00	C
ATOM	3307	C	SER A 211	12.689	-18.807	-29.785	1.00	0.00	C
ATOM	3308	O	SER A 211	11.583	-18.282	-29.644	1.00	0.00	O
ATOM	3309	CB	SER A 211	14.818	-17.475	-29.800	1.00	0.00	C
ATOM	3310	OG	SER A 211	15.889	-16.997	-30.591	1.00	0.00	O
ATOM	3311	H	SER A 211	13.305	-16.253	-31.526	1.00	0.00	H
ATOM	3312	HA	SER A 211	14.262	-18.969	-31.217	1.00	0.00	H
ATOM	3313	HB2	SER A 211	14.359	-16.639	-29.271	1.00	0.00	H
ATOM	3314	HB3	SER A 211	15.208	-18.183	-29.066	1.00	0.00	H
ATOM	3315	HG	SER A 211	16.656	-17.591	-30.483	1.00	0.00	H
ATOM	3316	N	GLY A 212	13.016	-19.934	-29.161	1.00	0.00	N
ATOM	3317	CA	GLY A 212	12.067	-20.702	-28.366	1.00	0.00	C
ATOM	3318	C	GLY A 212	12.660	-21.996	-27.816	1.00	0.00	C
ATOM	3319	O	GLY A 212	13.880	-22.133	-27.699	1.00	0.00	O
ATOM	3320	H	GLY A 212	13.903	-20.379	-29.383	1.00	0.00	H
ATOM	3321	HA2	GLY A 212	11.697	-20.105	-27.533	1.00	0.00	H
ATOM	3322	HA3	GLY A 212	11.225	-20.953	-29.009	1.00	0.00	H
ATOM	3323	N	LEU A 213	11.789	-22.969	-27.559	1.00	0.00	N
ATOM	3324	CA	LEU A 213	12.137	-24.318	-27.114	1.00	0.00	C
ATOM	3325	C	LEU A 213	11.505	-25.368	-28.033	1.00	0.00	C
ATOM	3326	O	LEU A 213	10.344	-25.238	-28.416	1.00	0.00	O
ATOM	3327	CB	LEU A 213	11.678	-24.547	-25.660	1.00	0.00	C
ATOM	3328	CG	LEU A 213	12.202	-23.538	-24.625	1.00	0.00	C
ATOM	3329	CD1	LEU A 213	11.518	-23.746	-23.275	1.00	0.00	C
ATOM	3330	CD2	LEU A 213	13.712	-23.665	-24.418	1.00	0.00	C
ATOM	3331	H	LEU A 213	10.806	-22.779	-27.742	1.00	0.00	H

ATOM	3332	HA	LEU A 213	13.218	-24.440	-27.158	1.00	0.00	H
ATOM	3333	HB2	LEU A 213	10.588	-24.518	-25.642	1.00	0.00	H
ATOM	3334	HB3	LEU A 213	11.989	-25.547	-25.360	1.00	0.00	H
ATOM	3335	HG	LEU A 213	11.971	-22.530	-24.959	1.00	0.00	H
ATOM	3336	HD11	LEU A 213	11.852	-22.985	-22.572	1.00	0.00	H
ATOM	3337	HD12	LEU A 213	11.757	-24.728	-22.872	1.00	0.00	H
ATOM	3338	HD13	LEU A 213	10.435	-23.658	-23.387	1.00	0.00	H
ATOM	3339	HD21	LEU A 213	14.231	-23.387	-25.332	1.00	0.00	H
ATOM	3340	HD22	LEU A 213	13.969	-24.692	-24.157	1.00	0.00	H
ATOM	3341	HD23	LEU A 213	14.029	-23.001	-23.616	1.00	0.00	H
ATOM	3342	N	LEU A 214	12.201	-26.486	-28.235	1.00	0.00	N
ATOM	3343	CA	LEU A 214	11.608	-27.748	-28.674	1.00	0.00	C
ATOM	3344	C	LEU A 214	11.495	-28.692	-27.470	1.00	0.00	C
ATOM	3345	O	LEU A 214	12.492	-29.215	-26.969	1.00	0.00	O
ATOM	3346	CB	LEU A 214	12.415	-28.337	-29.844	1.00	0.00	C
ATOM	3347	CG	LEU A 214	12.166	-27.599	-31.172	1.00	0.00	C
ATOM	3348	CD1	LEU A 214	13.267	-27.907	-32.187	1.00	0.00	C
ATOM	3349	CD2	LEU A 214	10.832	-27.982	-31.814	1.00	0.00	C
ATOM	3350	H	LEU A 214	13.141	-26.525	-27.851	1.00	0.00	H
ATOM	3351	HA	LEU A 214	10.595	-27.567	-29.029	1.00	0.00	H
ATOM	3352	HB2	LEU A 214	12.132	-29.377	-29.972	1.00	0.00	H
ATOM	3353	HB3	LEU A 214	13.476	-28.301	-29.593	1.00	0.00	H
ATOM	3354	HG	LEU A 214	12.156	-26.528	-30.990	1.00	0.00	H
ATOM	3355	HD11	LEU A 214	13.274	-28.970	-32.419	1.00	0.00	H
ATOM	3356	HD12	LEU A 214	13.088	-27.340	-33.100	1.00	0.00	H
ATOM	3357	HD13	LEU A 214	14.235	-27.618	-31.776	1.00	0.00	H
ATOM	3358	HD21	LEU A 214	10.012	-27.833	-31.113	1.00	0.00	H
ATOM	3359	HD22	LEU A 214	10.852	-29.023	-32.129	1.00	0.00	H
ATOM	3360	HD23	LEU A 214	10.662	-27.352	-32.684	1.00	0.00	H
ATOM	3361	N	LYS A 215	10.266	-28.811	-26.967	1.00	0.00	N

ATOM	3362	CA	LYS A 215	9.820	-29.747	-25.930	1.00	0.00	C
ATOM	3363	C	LYS A 215	9.801	-31.174	-26.493	1.00	0.00	C
ATOM	3364	O	LYS A 215	9.338	-31.381	-27.615	1.00	0.00	O
ATOM	3365	CB	LYS A 215	8.419	-29.274	-25.499	1.00	0.00	C
ATOM	3366	CG	LYS A 215	7.795	-30.022	-24.315	1.00	0.00	C
ATOM	3367	CD	LYS A 215	6.318	-29.619	-24.171	1.00	0.00	C
ATOM	3368	CE	LYS A 215	5.649	-30.297	-22.970	1.00	0.00	C
ATOM	3369	NZ	LYS A 215	5.777	-29.485	-21.736	1.00	0.00	N
ATOM	3370	H	LYS A 215	9.527	-28.344	-27.486	1.00	0.00	H
ATOM	3371	HA	LYS A 215	10.500	-29.701	-25.078	1.00	0.00	H
ATOM	3372	HB2	LYS A 215	8.469	-28.215	-25.238	1.00	0.00	H
ATOM	3373	HB3	LYS A 215	7.754	-29.368	-26.356	1.00	0.00	H
ATOM	3374	HG2	LYS A 215	7.851	-31.098	-24.481	1.00	0.00	H
ATOM	3375	HG3	LYS A 215	8.341	-29.765	-23.409	1.00	0.00	H
ATOM	3376	HD2	LYS A 215	6.227	-28.533	-24.085	1.00	0.00	H
ATOM	3377	HD3	LYS A 215	5.788	-29.930	-25.072	1.00	0.00	H
ATOM	3378	HE2	LYS A 215	6.085	-31.290	-22.828	1.00	0.00	H
ATOM	3379	HE3	LYS A 215	4.587	-30.421	-23.203	1.00	0.00	H
ATOM	3380	HZ1	LYS A 215	5.371	-29.936	-20.933	1.00	0.00	H
ATOM	3381	HZ2	LYS A 215	6.738	-29.237	-21.523	1.00	0.00	H
ATOM	3382	HZ3	LYS A 215	5.300	-28.584	-21.849	1.00	0.00	H
ATOM	3383	N	TYR A 216	10.211	-32.163	-25.703	1.00	0.00	N
ATOM	3384	CA	TYR A 216	10.307	-33.574	-26.106	1.00	0.00	C
ATOM	3385	C	TYR A 216	10.047	-34.480	-24.896	1.00	0.00	C
ATOM	3386	O	TYR A 216	10.918	-34.632	-24.041	1.00	0.00	O
ATOM	3387	CB	TYR A 216	11.706	-33.807	-26.698	1.00	0.00	C
ATOM	3388	CG	TYR A 216	11.950	-35.166	-27.331	1.00	0.00	C
ATOM	3389	CD1	TYR A 216	11.496	-35.426	-28.639	1.00	0.00	C
ATOM	3390	CD2	TYR A 216	12.696	-36.143	-26.644	1.00	0.00	C
ATOM	3391	CE1	TYR A 216	11.835	-36.632	-29.285	1.00	0.00	C

ATOM	3392	CE2 TYR A 216	13.027	-37.356	-27.279	1.00	0.00	C
ATOM	3393	CZ TYR A 216	12.609	-37.596	-28.606	1.00	0.00	C
ATOM	3394	OH TYR A 216	12.942	-38.761	-29.220	1.00	0.00	O
ATOM	3395	H TYR A 216	10.663	-31.897	-24.833	1.00	0.00	H
ATOM	3396	HA TYR A 216	9.565	-33.794	-26.877	1.00	0.00	H
ATOM	3397	HB2 TYR A 216	11.902	-33.045	-27.449	1.00	0.00	H
ATOM	3398	HB3 TYR A 216	12.448	-33.645	-25.918	1.00	0.00	H
ATOM	3399	HD1 TYR A 216	10.881	-34.700	-29.150	1.00	0.00	H
ATOM	3400	HD2 TYR A 216	13.019	-35.959	-25.627	1.00	0.00	H
ATOM	3401	HE1 TYR A 216	11.491	-36.834	-30.288	1.00	0.00	H
ATOM	3402	HE2 TYR A 216	13.614	-38.094	-26.756	1.00	0.00	H
ATOM	3403	HH TYR A 216	13.212	-39.420	-28.580	1.00	0.00	H
ATOM	3404	N ASN A 217	8.797	-34.913	-24.708	1.00	0.00	N
ATOM	3405	CA ASN A 217	8.398	-35.717	-23.546	1.00	0.00	C
ATOM	3406	C ASN A 217	8.552	-37.221	-23.814	1.00	0.00	C
ATOM	3407	O ASN A 217	7.847	-37.780	-24.657	1.00	0.00	O
ATOM	3408	CB ASN A 217	6.977	-35.331	-23.115	1.00	0.00	C
ATOM	3409	CG ASN A 217	6.643	-35.996	-21.793	1.00	0.00	C
ATOM	3410	OD1 ASN A 217	7.339	-35.828	-20.808	1.00	0.00	O
ATOM	3411	ND2 ASN A 217	5.697	-36.901	-21.776	1.00	0.00	N
ATOM	3412	H ASN A 217	8.115	-34.752	-25.432	1.00	0.00	H
ATOM	3413	HA ASN A 217	9.056	-35.486	-22.711	1.00	0.00	H
ATOM	3414	HB2 ASN A 217	6.912	-34.252	-22.971	1.00	0.00	H
ATOM	3415	HB3 ASN A 217	6.260	-35.630	-23.878	1.00	0.00	H
ATOM	3416	HD21 ASN A 217	5.228	-37.169	-22.616	1.00	0.00	H
ATOM	3417	HD22 ASN A 217	5.710	-37.505	-20.954	1.00	0.00	H
ATOM	3418	N LEU A 218	9.434	-37.880	-23.063	1.00	0.00	N
ATOM	3419	CA LEU A 218	9.832	-39.273	-23.281	1.00	0.00	C
ATOM	3420	C LEU A 218	8.716	-40.293	-22.977	1.00	0.00	C
ATOM	3421	O LEU A 218	8.602	-41.267	-23.723	1.00	0.00	O

ATOM	3422	CB	LEU A 218	11.102	-39.547	-22.456	1.00	0.00	C
ATOM	3423	CG	LEU A 218	12.344	-38.735	-22.875	1.00	0.00	C
ATOM	3424	CD1	LEU A 218	13.437	-38.838	-21.816	1.00	0.00	C
ATOM	3425	CD2	LEU A 218	12.925	-39.242	-24.199	1.00	0.00	C
ATOM	3426	H	LEU A 218	9.926	-37.370	-22.331	1.00	0.00	H
ATOM	3427	HA	LEU A 218	10.072	-39.399	-24.335	1.00	0.00	H
ATOM	3428	HB2	LEU A 218	11.339	-40.610	-22.494	1.00	0.00	H
ATOM	3429	HB3	LEU A 218	10.878	-39.301	-21.424	1.00	0.00	H
ATOM	3430	HG	LEU A 218	12.085	-37.682	-22.993	1.00	0.00	H
ATOM	3431	HD21	LEU A 218	12.190	-39.122	-24.992	1.00	0.00	H
ATOM	3432	HD22	LEU A 218	13.816	-38.665	-24.440	1.00	0.00	H
ATOM	3433	HD23	LEU A 218	13.191	-40.294	-24.099	1.00	0.00	H
ATOM	3434	HD11	LEU A 218	14.313	-38.263	-22.113	1.00	0.00	H
ATOM	3435	HD12	LEU A 218	13.717	-39.879	-21.662	1.00	0.00	H
ATOM	3436	HD13	LEU A 218	13.064	-38.438	-20.871	1.00	0.00	H
ATOM	3437	N	SER A 219	7.728	-39.936	-22.142	1.00	0.00	N
ATOM	3438	CA	SER A 219	6.552	-40.782	-21.839	1.00	0.00	C
ATOM	3439	C	SER A 219	5.671	-41.085	-23.058	1.00	0.00	C
ATOM	3440	O	SER A 219	4.808	-41.958	-23.002	1.00	0.00	O
ATOM	3441	CB	SER A 219	5.637	-40.178	-20.752	1.00	0.00	C
ATOM	3442	OG	SER A 219	6.194	-39.092	-20.043	1.00	0.00	O
ATOM	3443	H	SER A 219	7.941	-39.201	-21.477	1.00	0.00	H
ATOM	3444	HA	SER A 219	6.925	-41.734	-21.462	1.00	0.00	H
ATOM	3445	HB2	SER A 219	5.363	-40.963	-20.044	1.00	0.00	H
ATOM	3446	HB3	SER A 219	4.719	-39.814	-21.215	1.00	0.00	H
ATOM	3447	HG	SER A 219	7.087	-39.380	-19.692	1.00	0.00	H
ATOM	3448	N	LEU A 220	5.814	-40.321	-24.148	1.00	0.00	N
ATOM	3449	CA	LEU A 220	5.107	-40.551	-25.407	1.00	0.00	C
ATOM	3450	C	LEU A 220	5.605	-41.847	-26.065	1.00	0.00	C
ATOM	3451	O	LEU A 220	5.358	-42.083	-27.251	1.00	0.00	O

ATOM	3452	CB	LEU A 220	5.281	-39.321	-26.318	1.00	0.00	C
ATOM	3453	CG	LEU A 220	4.695	-38.007	-25.766	1.00	0.00	C
ATOM	3454	CD1	LEU A 220	5.059	-36.857	-26.705	1.00	0.00	C
ATOM	3455	CD2	LEU A 220	3.170	-38.064	-25.653	1.00	0.00	C
ATOM	3456	H	LEU A 220	6.579	-39.655	-24.143	1.00	0.00	H
ATOM	3457	HA	LEU A 220	4.048	-40.699	-25.193	1.00	0.00	H
ATOM	3458	HB2	LEU A 220	6.347	-39.181	-26.481	1.00	0.00	H
ATOM	3459	HB3	LEU A 220	4.818	-39.526	-27.284	1.00	0.00	H
ATOM	3460	HG	LEU A 220	5.110	-37.793	-24.781	1.00	0.00	H
ATOM	3461	HD11	LEU A 220	4.649	-35.922	-26.324	1.00	0.00	H
ATOM	3462	HD12	LEU A 220	4.655	-37.047	-27.698	1.00	0.00	H
ATOM	3463	HD13	LEU A 220	6.143	-36.760	-26.761	1.00	0.00	H
ATOM	3464	HD21	LEU A 220	2.879	-38.806	-24.911	1.00	0.00	H
ATOM	3465	HD22	LEU A 220	2.789	-37.094	-25.333	1.00	0.00	H
ATOM	3466	HD23	LEU A 220	2.732	-38.321	-26.617	1.00	0.00	H
ATOM	3467	H	LEU A 220	6.181	-42.563	-25.480	1.00	0.00	H
ATOM	3468	N	ILE A 221	9.238	-40.378	-30.930	1.00	0.00	N
ATOM	3469	CA	ILE A 221	8.601	-39.460	-29.982	1.00	0.00	C
ATOM	3470	C	ILE A 221	8.507	-38.058	-30.614	1.00	0.00	C
ATOM	3471	O	ILE A 221	9.183	-37.754	-31.600	1.00	0.00	O
ATOM	3472	CB	ILE A 221	9.332	-39.510	-28.611	1.00	0.00	C
ATOM	3473	CG1	ILE A 221	8.897	-40.727	-27.757	1.00	0.00	C
ATOM	3474	CG2	ILE A 221	9.106	-38.265	-27.731	1.00	0.00	C
ATOM	3475	CD1	ILE A 221	9.225	-42.107	-28.341	1.00	0.00	C
ATOM	3476	HA	ILE A 221	7.578	-39.802	-29.821	1.00	0.00	H
ATOM	3477	HB	ILE A 221	10.404	-39.583	-28.794	1.00	0.00	H
ATOM	3478	HG12	ILE A 221	9.390	-40.667	-26.785	1.00	0.00	H
ATOM	3479	HG13	ILE A 221	7.822	-40.677	-27.586	1.00	0.00	H
ATOM	3480	HG21	ILE A 221	9.468	-37.365	-28.224	1.00	0.00	H
ATOM	3481	HG22	ILE A 221	9.656	-38.365	-26.794	1.00	0.00	H

ATOM	3482	HG23	ILE A 221	8.051	-38.142	-27.500	1.00	0.00	H
ATOM	3483	HD11	ILE A 221	9.016	-42.871	-27.591	1.00	0.00	H
ATOM	3484	HD12	ILE A 221	8.602	-42.307	-29.212	1.00	0.00	H
ATOM	3485	HD13	ILE A 221	10.278	-42.155	-28.618	1.00	0.00	H
ATOM	3486	H	ILE A 221	9.789	-39.946	-31.664	1.00	0.00	H
ATOM	3487	H	ILE A 221	8.507	-40.925	-31.372	1.00	0.00	H
ATOM	3488	N	ILE A 222	7.499	-37.295	-30.186	1.00	0.00	N
ATOM	3489	CA	ILE A 222	7.091	-36.014	-30.780	1.00	0.00	C
ATOM	3490	C	ILE A 222	7.971	-34.871	-30.258	1.00	0.00	C
ATOM	3491	O	ILE A 222	8.118	-34.718	-29.045	1.00	0.00	O
ATOM	3492	CB	ILE A 222	5.590	-35.754	-30.493	1.00	0.00	C
ATOM	3493	CG1	ILE A 222	4.731	-36.970	-30.920	1.00	0.00	C
ATOM	3494	CG2	ILE A 222	5.124	-34.465	-31.186	1.00	0.00	C
ATOM	3495	CD1	ILE A 222	3.213	-36.800	-30.784	1.00	0.00	C
ATOM	3496	H	ILE A 222	7.020	-37.586	-29.349	1.00	0.00	H
ATOM	3497	HA	ILE A 222	7.225	-36.075	-31.862	1.00	0.00	H
ATOM	3498	HB	ILE A 222	5.463	-35.611	-29.420	1.00	0.00	H
ATOM	3499	HG12	ILE A 222	4.963	-37.211	-31.953	1.00	0.00	H
ATOM	3500	HG13	ILE A 222	5.002	-37.830	-30.307	1.00	0.00	H
ATOM	3501	HD11	ILE A 222	2.725	-37.760	-30.948	1.00	0.00	H
ATOM	3502	HD12	ILE A 222	2.965	-36.438	-29.786	1.00	0.00	H
ATOM	3503	HD13	ILE A 222	2.844	-36.096	-31.530	1.00	0.00	H
ATOM	3504	HG21	ILE A 222	5.672	-33.608	-30.803	1.00	0.00	H
ATOM	3505	HG22	ILE A 222	4.077	-34.276	-30.958	1.00	0.00	H
ATOM	3506	HG23	ILE A 222	5.256	-34.528	-32.265	1.00	0.00	H
ATOM	3507	N	LEU A 223	8.415	-33.980	-31.152	1.00	0.00	N
ATOM	3508	CA	LEU A 223	8.852	-32.629	-30.778	1.00	0.00	C
ATOM	3509	C	LEU A 223	7.671	-31.651	-30.800	1.00	0.00	C
ATOM	3510	O	LEU A 223	6.949	-31.593	-31.793	1.00	0.00	O
ATOM	3511	CB	LEU A 223	9.948	-32.132	-31.734	1.00	0.00	C



ATOM	3512	CG	LEU A 223	11.311	-32.821	-31.586	1.00	0.00	C
ATOM	3513	CD1	LEU A 223	12.212	-32.365	-32.730	1.00	0.00	C
ATOM	3514	CD2	LEU A 223	12.032	-32.444	-30.292	1.00	0.00	C
ATOM	3515	H	LEU A 223	8.192	-34.144	-32.128	1.00	0.00	H
ATOM	3516	HA	LEU A 223	9.242	-32.647	-29.762	1.00	0.00	H
ATOM	3517	HB2	LEU A 223	10.087	-31.064	-31.568	1.00	0.00	H
ATOM	3518	HB3	LEU A 223	9.593	-32.270	-32.755	1.00	0.00	H
ATOM	3519	HG	LEU A 223	11.188	-33.903	-31.633	1.00	0.00	H
ATOM	3520	HD11	LEU A 223	12.268	-31.278	-32.755	1.00	0.00	H
ATOM	3521	HD12	LEU A 223	13.209	-32.767	-32.573	1.00	0.00	H
ATOM	3522	HD13	LEU A 223	11.818	-32.727	-33.678	1.00	0.00	H
ATOM	3523	HD21	LEU A 223	12.466	-31.453	-30.370	1.00	0.00	H
ATOM	3524	HD22	LEU A 223	11.339	-32.449	-29.457	1.00	0.00	H
ATOM	3525	HD23	LEU A 223	12.832	-33.160	-30.099	1.00	0.00	H
ATOM	3526	N	GLN A 224	7.596	-30.752	-29.820	1.00	0.00	N
ATOM	3527	CA	GLN A 224	6.581	-29.692	-29.748	1.00	0.00	C
ATOM	3528	C	GLN A 224	7.254	-28.324	-29.547	1.00	0.00	C
ATOM	3529	O	GLN A 224	8.116	-28.184	-28.680	1.00	0.00	O
ATOM	3530	CB	GLN A 224	5.561	-30.008	-28.638	1.00	0.00	C
ATOM	3531	CG	GLN A 224	4.902	-31.390	-28.796	1.00	0.00	C
ATOM	3532	CD	GLN A 224	3.775	-31.615	-27.796	1.00	0.00	C
ATOM	3533	OE1	GLN A 224	3.917	-31.395	-26.601	1.00	0.00	O
ATOM	3534	NE2	GLN A 224	2.643	-32.127	-28.223	1.00	0.00	N
ATOM	3535	H	GLN A 224	8.243	-30.836	-29.041	1.00	0.00	H
ATOM	3536	HA	GLN A 224	6.032	-29.657	-30.686	1.00	0.00	H
ATOM	3537	HB2	GLN A 224	4.782	-29.244	-28.660	1.00	0.00	H
ATOM	3538	HB3	GLN A 224	6.052	-29.965	-27.667	1.00	0.00	H
ATOM	3539	HG2	GLN A 224	4.504	-31.483	-29.803	1.00	0.00	H
ATOM	3540	HG3	GLN A 224	5.641	-32.178	-28.650	1.00	0.00	H
ATOM	3541	HE21	GLN A 224	2.484	-32.304	-29.226	1.00	0.00	H

ATOM	3542	HE22	GLN A 224	1.918	-32.267	-27.551	1.00	0.00	H
ATOM	3543	N	PHE A 225	6.965	-27.338	-30.401	1.00	0.00	N
ATOM	3544	CA	PHE A 225	7.614	-26.020	-30.343	1.00	0.00	C
ATOM	3545	C	PHE A 225	6.866	-25.024	-29.446	1.00	0.00	C
ATOM	3546	O	PHE A 225	5.677	-24.774	-29.647	1.00	0.00	O
ATOM	3547	CB	PHE A 225	7.821	-25.455	-31.751	1.00	0.00	C
ATOM	3548	CG	PHE A 225	8.544	-24.116	-31.779	1.00	0.00	C
ATOM	3549	CD1	PHE A 225	9.917	-24.045	-31.475	1.00	0.00	C
ATOM	3550	CD2	PHE A 225	7.844	-22.933	-32.088	1.00	0.00	C
ATOM	3551	CE1	PHE A 225	10.584	-22.806	-31.473	1.00	0.00	C
ATOM	3552	CE2	PHE A 225	8.512	-21.694	-32.093	1.00	0.00	C
ATOM	3553	CZ	PHE A 225	9.881	-21.629	-31.782	1.00	0.00	C
ATOM	3554	H	PHE A 225	6.244	-27.497	-31.099	1.00	0.00	H
ATOM	3555	HA	PHE A 225	8.607	-26.151	-29.916	1.00	0.00	H
ATOM	3556	HB2	PHE A 225	6.849	-25.344	-32.229	1.00	0.00	H
ATOM	3557	HB3	PHE A 225	8.398	-26.175	-32.331	1.00	0.00	H
ATOM	3558	HD1	PHE A 225	10.458	-24.943	-31.217	1.00	0.00	H
ATOM	3559	HD2	PHE A 225	6.787	-22.970	-32.308	1.00	0.00	H
ATOM	3560	HE1	PHE A 225	11.634	-22.756	-31.222	1.00	0.00	H
ATOM	3561	HE2	PHE A 225	7.968	-20.790	-32.325	1.00	0.00	H
ATOM	3562	HZ	PHE A 225	10.390	-20.675	-31.772	1.00	0.00	H
ATOM	3563	N	ILE A 226	7.625	-24.304	-28.618	1.00	0.00	N
ATOM	3564	CA	ILE A 226	7.180	-23.154	-27.828	1.00	0.00	C
ATOM	3565	C	ILE A 226	7.976	-21.914	-28.254	1.00	0.00	C
ATOM	3566	O	ILE A 226	9.201	-21.909	-28.168	1.00	0.00	O
ATOM	3567	CB	ILE A 226	7.353	-23.469	-26.324	1.00	0.00	C
ATOM	3568	CG1	ILE A 226	6.435	-24.610	-25.818	1.00	0.00	C
ATOM	3569	CG2	ILE A 226	7.161	-22.206	-25.477	1.00	0.00	C
ATOM	3570	CD1	ILE A 226	4.926	-24.325	-25.867	1.00	0.00	C
ATOM	3571	H	ILE A 226	8.612	-24.539	-28.562	1.00	0.00	H

ATOM	3572	HA	ILE A 226	6.127	-22.956	-28.024	1.00	0.00	H
ATOM	3573	HB	ILE A 226	8.382	-23.801	-26.171	1.00	0.00	H
ATOM	3574	HG12	ILE A 226	6.634	-25.513	-26.396	1.00	0.00	H
ATOM	3575	HG13	ILE A 226	6.700	-24.830	-24.782	1.00	0.00	H
ATOM	3576	HG21	ILE A 226	6.226	-21.710	-25.735	1.00	0.00	H
ATOM	3577	HG22	ILE A 226	7.161	-22.483	-24.425	1.00	0.00	H
ATOM	3578	HG23	ILE A 226	7.990	-21.516	-25.638	1.00	0.00	H
ATOM	3579	HD11	ILE A 226	4.386	-25.191	-25.486	1.00	0.00	H
ATOM	3580	HD12	ILE A 226	4.608	-24.141	-26.893	1.00	0.00	H
ATOM	3581	HD13	ILE A 226	4.680	-23.463	-25.247	1.00	0.00	H
ATOM	3582	N	GLU A 227	7.288	-20.835	-28.626	1.00	0.00	N
ATOM	3583	CA	GLU A 227	7.908	-19.535	-28.907	1.00	0.00	C
ATOM	3584	C	GLU A 227	8.277	-18.760	-27.628	1.00	0.00	C
ATOM	3585	O	GLU A 227	7.578	-18.840	-26.617	1.00	0.00	O
ATOM	3586	CB	GLU A 227	6.991	-18.713	-29.825	1.00	0.00	C
ATOM	3587	CG	GLU A 227	5.584	-18.406	-29.270	1.00	0.00	C
ATOM	3588	CD	GLU A 227	4.750	-17.576	-30.263	1.00	0.00	C
ATOM	3589	OE1	GLU A 227	4.931	-17.794	-31.481	1.00	0.00	O
ATOM	3590	OE2	GLU A 227	4.396	-16.433	-29.902	1.00	0.00	O
ATOM	3591	H	GLU A 227	6.282	-20.874	-28.594	1.00	0.00	H
ATOM	3592	HA	GLU A 227	8.835	-19.710	-29.456	1.00	0.00	H
ATOM	3593	HB2	GLU A 227	7.484	-17.766	-30.045	1.00	0.00	H
ATOM	3594	HB3	GLU A 227	6.886	-19.263	-30.760	1.00	0.00	H
ATOM	3595	HG2	GLU A 227	5.060	-19.342	-29.061	1.00	0.00	H
ATOM	3596	HG3	GLU A 227	5.681	-17.858	-28.330	1.00	0.00	H
ATOM	3597	N	ILE A 228	9.330	-17.936	-27.700	1.00	0.00	N
ATOM	3598	CA	ILE A 228	9.667	-16.948	-26.661	1.00	0.00	C
ATOM	3599	C	ILE A 228	8.743	-15.723	-26.719	1.00	0.00	C
ATOM	3600	O	ILE A 228	8.392	-15.267	-27.809	1.00	0.00	O
ATOM	3601	CB	ILE A 228	11.162	-16.557	-26.753	1.00	0.00	C

ATOM	3602	CG1	ILE A 228	11.657	-15.952	-25.422	1.00	0.00	C
ATOM	3603	CG2	ILE A 228	11.480	-15.590	-27.913	1.00	0.00	C
ATOM	3604	CD1	ILE A 228	13.176	-16.067	-25.260	1.00	0.00	C
ATOM	3605	H	ILE A 228	9.904	-17.948	-28.535	1.00	0.00	H
ATOM	3606	HA	ILE A 228	9.504	-17.430	-25.697	1.00	0.00	H
ATOM	3607	HB	ILE A 228	11.717	-17.482	-26.922	1.00	0.00	H
ATOM	3608	HG12	ILE A 228	11.200	-16.487	-24.591	1.00	0.00	H
ATOM	3609	HG13	ILE A 228	11.361	-14.905	-25.346	1.00	0.00	H
ATOM	3610	HG21	ILE A 228	11.091	-14.594	-27.697	1.00	0.00	H
ATOM	3611	HG22	ILE A 228	12.557	-15.524	-28.056	1.00	0.00	H
ATOM	3612	HG23	ILE A 228	11.025	-15.946	-28.835	1.00	0.00	H
ATOM	3613	HD11	ILE A 228	13.481	-17.105	-25.380	1.00	0.00	H
ATOM	3614	HD12	ILE A 228	13.688	-15.457	-26.004	1.00	0.00	H
ATOM	3615	HD13	ILE A 228	13.458	-15.730	-24.262	1.00	0.00	H
ATOM	3616	N	ALA A 229	8.451	-15.112	-25.569	1.00	0.00	N
ATOM	3617	CA	ALA A 229	7.614	-13.914	-25.441	1.00	0.00	C
ATOM	3618	C	ALA A 229	8.048	-12.710	-26.315	1.00	0.00	C
ATOM	3619	O	ALA A 229	9.199	-12.581	-26.734	1.00	0.00	O
ATOM	3620	CB	ALA A 229	7.552	-13.532	-23.955	1.00	0.00	C
ATOM	3621	H	ALA A 229	8.679	-15.614	-24.717	1.00	0.00	H
ATOM	3622	HA	ALA A 229	6.605	-14.188	-25.754	1.00	0.00	H
ATOM	3623	HB1	ALA A 229	6.865	-12.696	-23.817	1.00	0.00	H
ATOM	3624	HB2	ALA A 229	8.544	-13.245	-23.605	1.00	0.00	H
ATOM	3625	HB3	ALA A 229	7.192	-14.381	-23.373	1.00	0.00	H
ATOM	3626	N	ASP A 230	7.120	-11.771	-26.517	1.00	0.00	N
ATOM	3627	CA	ASP A 230	7.316	-10.492	-27.218	1.00	0.00	C
ATOM	3628	C	ASP A 230	8.240	-9.513	-26.462	1.00	0.00	C
ATOM	3629	O	ASP A 230	8.782	-8.571	-27.045	1.00	0.00	O
ATOM	3630	CB	ASP A 230	5.942	-9.817	-27.387	1.00	0.00	C
ATOM	3631	CG	ASP A 230	5.325	-9.431	-26.033	1.00	0.00	C

ATOM	3632	OD1 ASP A 230	5.072	-10.388	-25.267	1.00	0.00	O
ATOM	3633	OD2 ASP A 230	5.645	-8.305	-25.587	1.00	0.00	O
ATOM	3634	H ASP A 230	6.227	-11.859	-26.036	1.00	0.00	H
ATOM	3635	HA ASP A 230	7.739	-10.686	-28.202	1.00	0.00	H
ATOM	3636	HB2 ASP A 230	5.267	-10.496	-27.912	1.00	0.00	H
ATOM	3637	HB3 ASP A 230	6.057	-8.923	-28.003	1.00	0.00	H
ATOM	3638	N ASN A 231	8.360	-9.683	-25.142	1.00	0.00	N
ATOM	3639	CA ASN A 231	9.047	-8.740	-24.267	1.00	0.00	C
ATOM	3640	C ASN A 231	10.544	-8.696	-24.639	1.00	0.00	C
ATOM	3641	O ASN A 231	11.232	-9.709	-24.520	1.00	0.00	O
ATOM	3642	CB ASN A 231	8.842	-9.156	-22.794	1.00	0.00	C
ATOM	3643	CG ASN A 231	7.414	-9.377	-22.302	1.00	0.00	C
ATOM	3644	OD1 ASN A 231	7.223	-9.968	-21.250	1.00	0.00	O
ATOM	3645	ND2 ASN A 231	6.375	-8.931	-22.964	1.00	0.00	N
ATOM	3646	H ASN A 231	7.796	-10.411	-24.730	1.00	0.00	H
ATOM	3647	HA ASN A 231	8.612	-7.751	-24.418	1.00	0.00	H
ATOM	3648	HB2 ASN A 231	9.383	-10.086	-22.616	1.00	0.00	H
ATOM	3649	HB3 ASN A 231	9.282	-8.389	-22.157	1.00	0.00	H
ATOM	3650	HD21 ASN A 231	6.424	-8.600	-23.933	1.00	0.00	H
ATOM	3651	HD22 ASN A 231	5.475	-9.282	-22.691	1.00	0.00	H
ATOM	3652	N ARG A 232	11.042	-7.553	-25.144	1.00	0.00	N
ATOM	3653	CA ARG A 232	12.352	-7.442	-25.837	1.00	0.00	C
ATOM	3654	C ARG A 232	12.522	-8.508	-26.936	1.00	0.00	C
ATOM	3655	O ARG A 232	13.543	-9.192	-27.007	1.00	0.00	O
ATOM	3656	CB ARG A 232	13.546	-7.390	-24.850	1.00	0.00	C
ATOM	3657	CG ARG A 232	13.652	-6.054	-24.097	1.00	0.00	C
ATOM	3658	CD ARG A 232	14.786	-6.038	-23.058	1.00	0.00	C
ATOM	3659	NE ARG A 232	16.146	-6.118	-23.637	1.00	0.00	N
ATOM	3660	CZ ARG A 232	17.259	-6.313	-22.953	1.00	0.00	C
ATOM	3661	NH1 ARG A 232	18.393	-6.455	-23.566	1.00	0.00	N

ATOM	3662	NH2	ARG A 232	17.264	-6.371	-21.650	1.00	0.00	N
ATOM	3663	H	ARG A 232	10.377	-6.805	-25.281	1.00	0.00	H
ATOM	3664	HA	ARG A 232	12.359	-6.502	-26.389	1.00	0.00	H
ATOM	3665	HB2	ARG A 232	14.476	-7.514	-25.408	1.00	0.00	H
ATOM	3666	HB3	ARG A 232	13.469	-8.211	-24.138	1.00	0.00	H
ATOM	3667	HG2	ARG A 232	13.809	-5.245	-24.812	1.00	0.00	H
ATOM	3668	HG3	ARG A 232	12.713	-5.873	-23.573	1.00	0.00	H
ATOM	3669	HD2	ARG A 232	14.639	-6.878	-22.375	1.00	0.00	H
ATOM	3670	HD3	ARG A 232	14.707	-5.115	-22.480	1.00	0.00	H
ATOM	3671	HE	ARG A 232	16.274	-6.116	-24.653	1.00	0.00	H
ATOM	3672	HH11	ARG A 232	18.430	-6.224	-24.572	1.00	0.00	H
ATOM	3673	HH12	ARG A 232	19.255	-6.499	-23.067	1.00	0.00	H
ATOM	3674	HH21	ARG A 232	16.464	-6.020	-21.136	1.00	0.00	H
ATOM	3675	HH22	ARG A 232	18.084	-6.677	-21.145	1.00	0.00	H
ATOM	3676	N	LEU A 233	11.526	-8.657	-27.811	1.00	0.00	N
ATOM	3677	CA	LEU A 233	11.640	-9.473	-29.019	1.00	0.00	C
ATOM	3678	C	LEU A 233	12.813	-8.994	-29.889	1.00	0.00	C
ATOM	3679	O	LEU A 233	12.936	-7.812	-30.199	1.00	0.00	O
ATOM	3680	CB	LEU A 233	10.307	-9.446	-29.792	1.00	0.00	C
ATOM	3681	CG	LEU A 233	10.280	-10.286	-31.081	1.00	0.00	C
ATOM	3682	CD1	LEU A 233	10.450	-11.781	-30.806	1.00	0.00	C
ATOM	3683	CD2	LEU A 233	8.944	-10.092	-31.801	1.00	0.00	C
ATOM	3684	H	LEU A 233	10.642	-8.197	-27.629	1.00	0.00	H
ATOM	3685	HA	LEU A 233	11.834	-10.499	-28.703	1.00	0.00	H
ATOM	3686	HB2	LEU A 233	9.520	-9.812	-29.137	1.00	0.00	H
ATOM	3687	HB3	LEU A 233	10.080	-8.410	-30.047	1.00	0.00	H
ATOM	3688	HG	LEU A 233	11.076	-9.963	-31.748	1.00	0.00	H
ATOM	3689	HD11	LEU A 233	10.381	-12.324	-31.747	1.00	0.00	H
ATOM	3690	HD12	LEU A 233	9.674	-12.125	-30.120	1.00	0.00	H
ATOM	3691	HD13	LEU A 233	11.427	-11.980	-30.372	1.00	0.00	H

ATOM	3692	HD21	LEU	A	233	8.804	-9.037	-32.036	1.00	0.00	H
ATOM	3693	HD22	LEU	A	233	8.124	-10.427	-31.165	1.00	0.00	H
ATOM	3694	HD23	LEU	A	233	8.940	-10.665	-32.727	1.00	0.00	H
ATOM	3695	N	THR	A	234	13.595	-9.950	-30.380	1.00	0.00	N
ATOM	3696	CA	THR	A	234	14.648	-9.774	-31.390	1.00	0.00	C
ATOM	3697	C	THR	A	234	14.591	-10.953	-32.357	1.00	0.00	C
ATOM	3698	O	THR	A	234	13.956	-11.966	-32.048	1.00	0.00	O
ATOM	3699	CB	THR	A	234	16.049	-9.672	-30.755	1.00	0.00	C
ATOM	3700	OG1	THR	A	234	16.340	-10.798	-29.952	1.00	0.00	O
ATOM	3701	CG2	THR	A	234	16.215	-8.444	-29.867	1.00	0.00	C
ATOM	3702	H	THR	A	234	13.367	-10.906	-30.153	1.00	0.00	H
ATOM	3703	HA	THR	A	234	14.462	-8.862	-31.958	1.00	0.00	H
ATOM	3704	HB	THR	A	234	16.794	-9.612	-31.549	1.00	0.00	H
ATOM	3705	HG1	THR	A	234	16.567	-11.540	-30.532	1.00	0.00	H
ATOM	3706	HG21	THR	A	234	16.038	-7.539	-30.451	1.00	0.00	H
ATOM	3707	HG22	THR	A	234	15.518	-8.465	-29.030	1.00	0.00	H
ATOM	3708	HG23	THR	A	234	17.233	-8.423	-29.485	1.00	0.00	H
ATOM	3709	N	ILE	A	235	15.323	-10.871	-33.474	1.00	0.00	N
ATOM	3710	CA	ILE	A	235	15.451	-11.970	-34.441	1.00	0.00	C
ATOM	3711	C	ILE	A	235	15.783	-13.296	-33.752	1.00	0.00	C
ATOM	3712	O	ILE	A	235	16.641	-13.347	-32.869	1.00	0.00	O
ATOM	3713	CB	ILE	A	235	16.486	-11.627	-35.539	1.00	0.00	C
ATOM	3714	CG1	ILE	A	235	16.565	-12.770	-36.578	1.00	0.00	C
ATOM	3715	CG2	ILE	A	235	17.888	-11.313	-34.978	1.00	0.00	C
ATOM	3716	CD1	ILE	A	235	17.174	-12.369	-37.923	1.00	0.00	C
ATOM	3717	H	ILE	A	235	15.847	-10.028	-33.654	1.00	0.00	H
ATOM	3718	HA	ILE	A	235	14.480	-12.089	-34.924	1.00	0.00	H
ATOM	3719	HB	ILE	A	235	16.127	-10.730	-36.038	1.00	0.00	H
ATOM	3720	HG12	ILE	A	235	15.559	-13.135	-36.779	1.00	0.00	H
ATOM	3721	HG13	ILE	A	235	17.147	-13.596	-36.169	1.00	0.00	H

ATOM	3722	HG21	ILE A 235	18.510	-10.894	-35.766	1.00	0.00	H
ATOM	3723	HG22	ILE A 235	17.834	-10.575	-34.180	1.00	0.00	H
ATOM	3724	HG23	ILE A 235	18.358	-12.217	-34.590	1.00	0.00	H
ATOM	3725	HD11	ILE A 235	18.155	-11.930	-37.781	1.00	0.00	H
ATOM	3726	HD12	ILE A 235	16.539	-11.639	-38.411	1.00	0.00	H
ATOM	3727	HD13	ILE A 235	17.263	-13.247	-38.562	1.00	0.00	H
ATOM	3728	N	GLY A 236	15.112	-14.368	-34.178	1.00	0.00	N
ATOM	3729	CA	GLY A 236	15.406	-15.726	-33.742	1.00	0.00	C
ATOM	3730	C	GLY A 236	16.870	-16.076	-33.984	1.00	0.00	C
ATOM	3731	O	GLY A 236	17.353	-16.100	-35.115	1.00	0.00	O
ATOM	3732	H	GLY A 236	14.345	-14.232	-34.828	1.00	0.00	H
ATOM	3733	HA2	GLY A 236	14.783	-16.441	-34.274	1.00	0.00	H
ATOM	3734	HA3	GLY A 236	15.188	-15.800	-32.680	1.00	0.00	H
ATOM	3735	N	SER A 237	17.580	-16.295	-32.888	1.00	0.00	N
ATOM	3736	CA	SER A 237	19.033	-16.396	-32.801	1.00	0.00	C
ATOM	3737	C	SER A 237	19.416	-17.476	-31.783	1.00	0.00	C
ATOM	3738	O	SER A 237	18.564	-17.853	-30.967	1.00	0.00	O
ATOM	3739	CB	SER A 237	19.610	-15.037	-32.419	1.00	0.00	C
ATOM	3740	OG	SER A 237	19.157	-14.633	-31.146	1.00	0.00	O
ATOM	3741	H	SER A 237	17.090	-16.249	-32.002	1.00	0.00	H
ATOM	3742	HA	SER A 237	19.436	-16.655	-33.776	1.00	0.00	H
ATOM	3743	HB2	SER A 237	19.318	-14.298	-33.167	1.00	0.00	H
ATOM	3744	HB3	SER A 237	20.696	-15.110	-32.400	1.00	0.00	H
ATOM	3745	HG	SER A 237	19.886	-14.136	-30.719	1.00	0.00	H
ATOM	3746	N	PRO A 238	20.635	-18.048	-31.853	1.00	0.00	N
ATOM	3747	CA	PRO A 238	20.950	-19.217	-31.049	1.00	0.00	C
ATOM	3748	C	PRO A 238	20.926	-18.900	-29.551	1.00	0.00	C
ATOM	3749	O	PRO A 238	21.413	-17.858	-29.106	1.00	0.00	O
ATOM	3750	CB	PRO A 238	22.297	-19.750	-31.538	1.00	0.00	C
ATOM	3751	CG	PRO A 238	22.463	-19.121	-32.921	1.00	0.00	C



ATOM	3752	CD	PRO A 238	21.701	-17.800	-32.813	1.00	0.00	C
ATOM	3753	HA	PRO A 238	20.189	-19.960	-31.269	1.00	0.00	H
ATOM	3754	HB2	PRO A 238	22.300	-20.840	-31.592	1.00	0.00	H
ATOM	3755	HB3	PRO A 238	23.095	-19.408	-30.888	1.00	0.00	H
ATOM	3756	HG2	PRO A 238	23.513	-18.963	-33.175	1.00	0.00	H
ATOM	3757	HG3	PRO A 238	21.986	-19.759	-33.664	1.00	0.00	H
ATOM	3758	HD2	PRO A 238	21.328	-17.518	-33.798	1.00	0.00	H
ATOM	3759	HD3	PRO A 238	22.364	-17.025	-32.426	1.00	0.00	H
ATOM	3760	N	SER A 239	20.348	-19.803	-28.769	1.00	0.00	N
ATOM	3761	CA	SER A 239	19.942	-19.567	-27.378	1.00	0.00	C
ATOM	3762	C	SER A 239	20.324	-20.732	-26.459	1.00	0.00	C
ATOM	3763	O	SER A 239	20.978	-21.674	-26.889	1.00	0.00	O
ATOM	3764	CB	SER A 239	18.436	-19.250	-27.353	1.00	0.00	C
ATOM	3765	OG	SER A 239	17.650	-20.206	-28.044	1.00	0.00	O
ATOM	3766	H	SER A 239	19.967	-20.631	-29.220	1.00	0.00	H
ATOM	3767	HA	SER A 239	20.461	-18.690	-26.992	1.00	0.00	H
ATOM	3768	HB2	SER A 239	18.088	-19.188	-26.323	1.00	0.00	H
ATOM	3769	HB3	SER A 239	18.277	-18.276	-27.822	1.00	0.00	H
ATOM	3770	HG	SER A 239	17.740	-21.064	-27.624	1.00	0.00	H
ATOM	3771	N	LYS A 240	20.030	-20.626	-25.164	1.00	0.00	N
ATOM	3772	CA	LYS A 240	20.440	-21.590	-24.133	1.00	0.00	C
ATOM	3773	C	LYS A 240	19.489	-21.507	-22.945	1.00	0.00	C
ATOM	3774	O	LYS A 240	19.059	-20.413	-22.584	1.00	0.00	O
ATOM	3775	CB	LYS A 240	21.907	-21.288	-23.771	1.00	0.00	C
ATOM	3776	CG	LYS A 240	22.463	-21.918	-22.488	1.00	0.00	C
ATOM	3777	CD	LYS A 240	23.974	-21.646	-22.418	1.00	0.00	C
ATOM	3778	CE	LYS A 240	24.557	-21.807	-21.009	1.00	0.00	C
ATOM	3779	NZ	LYS A 240	26.030	-21.700	-21.040	1.00	0.00	N
ATOM	3780	H	LYS A 240	19.565	-19.778	-24.849	1.00	0.00	H
ATOM	3781	HA	LYS A 240	20.393	-22.605	-24.527	1.00	0.00	H

ATOM	3782	HB2 LYS A 240	22.018	-20.212	-23.652	1.00	0.00	H
ATOM	3783	HB3 LYS A 240	22.535	-21.600	-24.611	1.00	0.00	H
ATOM	3784	HG2 LYS A 240	22.269	-22.989	-22.470	1.00	0.00	H
ATOM	3785	HG3 LYS A 240	21.980	-21.444	-21.640	1.00	0.00	H
ATOM	3786	HD2 LYS A 240	24.486	-22.318	-23.105	1.00	0.00	H
ATOM	3787	HD3 LYS A 240	24.160	-20.619	-22.730	1.00	0.00	H
ATOM	3788	HE2 LYS A 240	24.265	-22.783	-20.599	1.00	0.00	H
ATOM	3789	HE3 LYS A 240	24.130	-21.027	-20.368	1.00	0.00	H
ATOM	3790	HZ1 LYS A 240	26.447	-22.624	-21.122	1.00	0.00	H
ATOM	3791	HZ2 LYS A 240	26.382	-21.071	-21.756	1.00	0.00	H
ATOM	3792	HZ3 LYS A 240	26.420	-21.388	-20.160	1.00	0.00	H
ATOM	3793	N ILE A 241	19.182	-22.642	-22.323	1.00	0.00	N
ATOM	3794	CA ILE A 241	18.385	-22.719	-21.090	1.00	0.00	C
ATOM	3795	C ILE A 241	19.063	-23.682	-20.113	1.00	0.00	C
ATOM	3796	O ILE A 241	19.596	-24.700	-20.544	1.00	0.00	O
ATOM	3797	CB ILE A 241	16.902	-23.058	-21.381	1.00	0.00	C
ATOM	3798	CG1 ILE A 241	16.067	-22.967	-20.081	1.00	0.00	C
ATOM	3799	CG2 ILE A 241	16.719	-24.417	-22.073	1.00	0.00	C
ATOM	3800	CD1 ILE A 241	14.549	-23.078	-20.279	1.00	0.00	C
ATOM	3801	H ILE A 241	19.635	-23.499	-22.633	1.00	0.00	H
ATOM	3802	HA ILE A 241	18.400	-21.736	-20.625	1.00	0.00	H
ATOM	3803	HB ILE A 241	16.535	-22.304	-22.072	1.00	0.00	H
ATOM	3804	HG12 ILE A 241	16.382	-23.749	-19.390	1.00	0.00	H
ATOM	3805	HG13 ILE A 241	16.264	-22.003	-19.610	1.00	0.00	H
ATOM	3806	HG21 ILE A 241	17.289	-24.439	-22.999	1.00	0.00	H
ATOM	3807	HG22 ILE A 241	15.674	-24.584	-22.326	1.00	0.00	H
ATOM	3808	HG23 ILE A 241	17.053	-25.219	-21.418	1.00	0.00	H
ATOM	3809	HD11 ILE A 241	14.208	-22.338	-21.003	1.00	0.00	H
ATOM	3810	HD12 ILE A 241	14.050	-22.899	-19.328	1.00	0.00	H
ATOM	3811	HD13 ILE A 241	14.279	-24.076	-20.624	1.00	0.00	H

ATOM	3812	N	TYR A 242	19.190	-23.295	-18.840	1.00	0.00	N
ATOM	3813	CA	TYR A 242	20.089	-23.972	-17.897	1.00	0.00	C
ATOM	3814	C	TYR A 242	19.654	-23.806	-16.429	1.00	0.00	C
ATOM	3815	O	TYR A 242	19.313	-22.713	-15.976	1.00	0.00	O
ATOM	3816	CB	TYR A 242	21.533	-23.505	-18.147	1.00	0.00	C
ATOM	3817	CG	TYR A 242	21.815	-22.020	-17.985	1.00	0.00	C
ATOM	3818	CD1	TYR A 242	22.528	-21.574	-16.862	1.00	0.00	C
ATOM	3819	CD2	TYR A 242	21.433	-21.089	-18.973	1.00	0.00	C
ATOM	3820	CE1	TYR A 242	22.873	-20.219	-16.732	1.00	0.00	C
ATOM	3821	CE2	TYR A 242	21.788	-19.730	-18.857	1.00	0.00	C
ATOM	3822	CZ	TYR A 242	22.519	-19.293	-17.733	1.00	0.00	C
ATOM	3823	OH	TYR A 242	22.879	-17.990	-17.604	1.00	0.00	O
ATOM	3824	H	TYR A 242	18.831	-22.380	-18.577	1.00	0.00	H
ATOM	3825	HA	TYR A 242	20.063	-25.040	-18.120	1.00	0.00	H
ATOM	3826	HB2	TYR A 242	22.188	-24.065	-17.480	1.00	0.00	H
ATOM	3827	HB3	TYR A 242	21.816	-23.789	-19.162	1.00	0.00	H
ATOM	3828	HD1	TYR A 242	22.830	-22.274	-16.096	1.00	0.00	H
ATOM	3829	HD2	TYR A 242	20.851	-21.414	-19.820	1.00	0.00	H
ATOM	3830	HE1	TYR A 242	23.421	-19.895	-15.865	1.00	0.00	H
ATOM	3831	HE2	TYR A 242	21.488	-19.015	-19.608	1.00	0.00	H
ATOM	3832	HH	TYR A 242	23.598	-17.760	-18.221	1.00	0.00	H
ATOM	3833	N	ASN A 243	19.658	-24.910	-15.672	1.00	0.00	N
ATOM	3834	CA	ASN A 243	19.094	-25.023	-14.315	1.00	0.00	C
ATOM	3835	C	ASN A 243	19.984	-24.412	-13.205	1.00	0.00	C
ATOM	3836	O	ASN A 243	20.363	-25.095	-12.251	1.00	0.00	O
ATOM	3837	CB	ASN A 243	18.737	-26.503	-14.042	1.00	0.00	C
ATOM	3838	CG	ASN A 243	17.537	-27.004	-14.826	1.00	0.00	C
ATOM	3839	OD1	ASN A 243	16.602	-26.276	-15.103	1.00	0.00	O
ATOM	3840	ND2	ASN A 243	17.488	-28.277	-15.142	1.00	0.00	N
ATOM	3841	H	ASN A 243	19.974	-25.762	-16.111	1.00	0.00	H

ATOM	3842	HA	ASN A 243	18.165	-24.451	-14.285	1.00	0.00	H
ATOM	3843	HB2	ASN A 243	19.605	-27.129	-14.253	1.00	0.00	H
ATOM	3844	HB3	ASN A 243	18.484	-26.627	-12.989	1.00	0.00	H
ATOM	3845	HD21	ASN A 243	18.243	-28.889	-14.904	1.00	0.00	H
ATOM	3846	HD22	ASN A 243	16.638	-28.603	-15.579	1.00	0.00	H
ATOM	3847	N	SER A 244	20.320	-23.122	-13.300	1.00	0.00	N
ATOM	3848	CA	SER A 244	21.146	-22.438	-12.292	1.00	0.00	C
ATOM	3849	C	SER A 244	20.483	-22.451	-10.914	1.00	0.00	C
ATOM	3850	O	SER A 244	19.441	-21.827	-10.715	1.00	0.00	O
ATOM	3851	CB	SER A 244	21.423	-20.979	-12.658	1.00	0.00	C
ATOM	3852	OG	SER A 244	22.041	-20.887	-13.917	1.00	0.00	O
ATOM	3853	H	SER A 244	19.959	-22.596	-14.087	1.00	0.00	H
ATOM	3854	HA	SER A 244	22.107	-22.949	-12.227	1.00	0.00	H
ATOM	3855	HB2	SER A 244	20.494	-20.412	-12.658	1.00	0.00	H
ATOM	3856	HB3	SER A 244	22.090	-20.547	-11.909	1.00	0.00	H
ATOM	3857	HG	SER A 244	21.383	-20.965	-14.616	1.00	0.00	H
ATOM	3858	N	LEU A 245	21.168	-23.003	-9.908	1.00	0.00	N
ATOM	3859	CA	LEU A 245	20.837	-22.810	-8.487	1.00	0.00	C
ATOM	3860	C	LEU A 245	19.348	-23.088	-8.158	1.00	0.00	C
ATOM	3861	O	LEU A 245	18.684	-22.270	-7.524	1.00	0.00	O
ATOM	3862	CB	LEU A 245	21.321	-21.415	-8.024	1.00	0.00	C
ATOM	3863	CG	LEU A 245	22.781	-21.057	-8.365	1.00	0.00	C
ATOM	3864	CD1	LEU A 245	23.047	-19.604	-7.985	1.00	0.00	C
ATOM	3865	CD2	LEU A 245	23.780	-21.952	-7.631	1.00	0.00	C
ATOM	3866	H	LEU A 245	22.026	-23.483	-10.137	1.00	0.00	H
ATOM	3867	HA	LEU A 245	21.401	-23.552	-7.921	1.00	0.00	H
ATOM	3868	HB2	LEU A 245	20.684	-20.665	-8.488	1.00	0.00	H
ATOM	3869	HB3	LEU A 245	21.185	-21.338	-6.944	1.00	0.00	H
ATOM	3870	HG	LEU A 245	22.946	-21.153	-9.438	1.00	0.00	H
ATOM	3871	HD11	LEU A 245	22.375	-18.949	-8.539	1.00	0.00	H

ATOM	3872	HD12	LEU A 245	22.911	-19.460	-6.913	1.00	0.00	H
ATOM	3873	HD13	LEU A 245	24.072	-19.352	-8.256	1.00	0.00	H
ATOM	3874	HD21	LEU A 245	24.795	-21.631	-7.869	1.00	0.00	H
ATOM	3875	HD22	LEU A 245	23.663	-22.987	-7.948	1.00	0.00	H
ATOM	3876	HD23	LEU A 245	23.628	-21.878	-6.554	1.00	0.00	H
ATOM	3877	N	GLY A 246	18.781	-24.152	-8.742	1.00	0.00	N
ATOM	3878	CA	GLY A 246	17.403	-24.604	-8.489	1.00	0.00	C
ATOM	3879	C	GLY A 246	16.291	-23.976	-9.343	1.00	0.00	C
ATOM	3880	O	GLY A 246	15.135	-24.330	-9.145	1.00	0.00	O
ATOM	3881	H	GLY A 246	19.359	-24.719	-9.345	1.00	0.00	H
ATOM	3882	HA2	GLY A 246	17.357	-25.681	-8.640	1.00	0.00	H
ATOM	3883	HA3	GLY A 246	17.154	-24.406	-7.445	1.00	0.00	H
ATOM	3884	N	GLN A 247	16.608	-23.114	-10.314	1.00	0.00	N
ATOM	3885	CA	GLN A 247	15.624	-22.408	-11.156	1.00	0.00	C
ATOM	3886	C	GLN A 247	16.215	-22.161	-12.562	1.00	0.00	C
ATOM	3887	O	GLN A 247	17.385	-21.771	-12.643	1.00	0.00	O
ATOM	3888	CB	GLN A 247	15.210	-21.115	-10.416	1.00	0.00	C
ATOM	3889	CG	GLN A 247	14.780	-19.906	-11.266	1.00	0.00	C
ATOM	3890	CD	GLN A 247	13.436	-20.042	-11.966	1.00	0.00	C
ATOM	3891	OE1	GLN A 247	12.672	-20.968	-11.755	1.00	0.00	O
ATOM	3892	NE2	GLN A 247	13.119	-19.091	-12.809	1.00	0.00	N
ATOM	3893	H	GLN A 247	17.581	-22.865	-10.440	1.00	0.00	H
ATOM	3894	HA	GLN A 247	14.731	-23.023	-11.250	1.00	0.00	H
ATOM	3895	HB2	GLN A 247	14.413	-21.356	-9.710	1.00	0.00	H
ATOM	3896	HB3	GLN A 247	16.051	-20.782	-9.814	1.00	0.00	H
ATOM	3897	HG2	GLN A 247	14.719	-19.035	-10.613	1.00	0.00	H
ATOM	3898	HG3	GLN A 247	15.536	-19.686	-12.017	1.00	0.00	H
ATOM	3899	HE21	GLN A 247	13.765	-18.350	-13.000	1.00	0.00	H
ATOM	3900	HE22	GLN A 247	12.212	-19.109	-13.265	1.00	0.00	H
ATOM	3901	N	PRO A 248	15.478	-22.358	-13.675	1.00	0.00	N

ATOM	3902	CA	PRO A 248	16.040	-22.151	-15.006	1.00	0.00	C
ATOM	3903	C	PRO A 248	16.356	-20.681	-15.306	1.00	0.00	C
ATOM	3904	O	PRO A 248	15.513	-19.795	-15.154	1.00	0.00	O
ATOM	3905	CB	PRO A 248	15.046	-22.736	-16.012	1.00	0.00	C
ATOM	3906	CG	PRO A 248	14.166	-23.658	-15.169	1.00	0.00	C
ATOM	3907	CD	PRO A 248	14.169	-22.986	-13.798	1.00	0.00	C
ATOM	3908	HA	PRO A 248	16.958	-22.731	-15.071	1.00	0.00	H
ATOM	3909	HB2	PRO A 248	15.565	-23.279	-16.800	1.00	0.00	H
ATOM	3910	HB3	PRO A 248	14.441	-21.947	-16.452	1.00	0.00	H
ATOM	3911	HG2	PRO A 248	14.627	-24.641	-15.092	1.00	0.00	H
ATOM	3912	HG3	PRO A 248	13.159	-23.740	-15.577	1.00	0.00	H
ATOM	3913	HD2	PRO A 248	13.394	-22.221	-13.776	1.00	0.00	H
ATOM	3914	HD3	PRO A 248	13.987	-23.734	-13.027	1.00	0.00	H
ATOM	3915	N	VAL A 249	17.515	-20.472	-15.924	1.00	0.00	N
ATOM	3916	CA	VAL A 249	17.921	-19.226	-16.585	1.00	0.00	C
ATOM	3917	C	VAL A 249	17.888	-19.452	-18.093	1.00	0.00	C
ATOM	3918	O	VAL A 249	18.285	-20.518	-18.568	1.00	0.00	O
ATOM	3919	CB	VAL A 249	19.322	-18.783	-16.121	1.00	0.00	C
ATOM	3920	CG1	VAL A 249	19.739	-17.423	-16.695	1.00	0.00	C
ATOM	3921	CG2	VAL A 249	19.403	-18.657	-14.599	1.00	0.00	C
ATOM	3922	H	VAL A 249	18.123	-21.272	-16.060	1.00	0.00	H
ATOM	3923	HA	VAL A 249	17.215	-18.434	-16.338	1.00	0.00	H
ATOM	3924	HB	VAL A 249	20.043	-19.537	-16.433	1.00	0.00	H
ATOM	3925	HG11	VAL A 249	20.722	-17.148	-16.312	1.00	0.00	H
ATOM	3926	HG12	VAL A 249	19.796	-17.466	-17.781	1.00	0.00	H
ATOM	3927	HG13	VAL A 249	19.028	-16.658	-16.392	1.00	0.00	H
ATOM	3928	HG21	VAL A 249	20.424	-18.423	-14.308	1.00	0.00	H
ATOM	3929	HG22	VAL A 249	18.742	-17.861	-14.261	1.00	0.00	H
ATOM	3930	HG23	VAL A 249	19.108	-19.590	-14.126	1.00	0.00	H
ATOM	3931	N	PHE A 250	17.418	-18.464	-18.848	1.00	0.00	N

ATOM	3932	CA	PHE A 250	17.481	-18.426	-20.305	1.00	0.00	C
ATOM	3933	C	PHE A 250	18.518	-17.397	-20.779	1.00	0.00	C
ATOM	3934	O	PHE A 250	18.691	-16.342	-20.166	1.00	0.00	O
ATOM	3935	CB	PHE A 250	16.084	-18.132	-20.869	1.00	0.00	C
ATOM	3936	CG	PHE A 250	15.937	-18.457	-22.345	1.00	0.00	C
ATOM	3937	CD1	PHE A 250	15.575	-19.760	-22.729	1.00	0.00	C
ATOM	3938	CD2	PHE A 250	16.180	-17.485	-23.334	1.00	0.00	C
ATOM	3939	CE1	PHE A 250	15.489	-20.107	-24.089	1.00	0.00	C
ATOM	3940	CE2	PHE A 250	16.076	-17.827	-24.695	1.00	0.00	C
ATOM	3941	CZ	PHE A 250	15.729	-19.136	-25.073	1.00	0.00	C
ATOM	3942	H	PHE A 250	17.135	-17.608	-18.380	1.00	0.00	H
ATOM	3943	HA	PHE A 250	17.786	-19.405	-20.674	1.00	0.00	H
ATOM	3944	HB2	PHE A 250	15.351	-18.725	-20.320	1.00	0.00	H
ATOM	3945	HB3	PHE A 250	15.848	-17.082	-20.700	1.00	0.00	H
ATOM	3946	HD1	PHE A 250	15.354	-20.492	-21.968	1.00	0.00	H
ATOM	3947	HD2	PHE A 250	16.450	-16.480	-23.047	1.00	0.00	H
ATOM	3948	HE1	PHE A 250	15.211	-21.109	-24.379	1.00	0.00	H
ATOM	3949	HE2	PHE A 250	16.257	-17.083	-25.454	1.00	0.00	H
ATOM	3950	HZ	PHE A 250	15.637	-19.396	-26.119	1.00	0.00	H
ATOM	3951	N	TYR A 251	19.100	-17.638	-21.951	1.00	0.00	N
ATOM	3952	CA	TYR A 251	19.944	-16.706	-22.695	1.00	0.00	C
ATOM	3953	C	TYR A 251	19.599	-16.759	-24.190	1.00	0.00	C
ATOM	3954	O	TYR A 251	19.381	-17.837	-24.745	1.00	0.00	O
ATOM	3955	CB	TYR A 251	21.429	-17.005	-22.416	1.00	0.00	C
ATOM	3956	CG	TYR A 251	22.399	-16.590	-23.512	1.00	0.00	C
ATOM	3957	CD1	TYR A 251	23.106	-15.372	-23.450	1.00	0.00	C
ATOM	3958	CD2	TYR A 251	22.575	-17.439	-24.620	1.00	0.00	C
ATOM	3959	CE1	TYR A 251	24.017	-15.034	-24.474	1.00	0.00	C
ATOM	3960	CE2	TYR A 251	23.468	-17.100	-25.644	1.00	0.00	C
ATOM	3961	CZ	TYR A 251	24.214	-15.911	-25.563	1.00	0.00	C

ATOM	3962	OH	TYR A 251	25.143	-15.666	-26.523	1.00	0.00	O
ATOM	3963	H	TYR A 251	18.900	-18.531	-22.395	1.00	0.00	H
ATOM	3964	HA	TYR A 251	19.740	-15.694	-22.355	1.00	0.00	H
ATOM	3965	HB2	TYR A 251	21.712	-16.524	-21.477	1.00	0.00	H
ATOM	3966	HB3	TYR A 251	21.548	-18.081	-22.270	1.00	0.00	H
ATOM	3967	HD1	TYR A 251	22.960	-14.702	-22.613	1.00	0.00	H
ATOM	3968	HD2	TYR A 251	22.009	-18.354	-24.696	1.00	0.00	H
ATOM	3969	HE1	TYR A 251	24.593	-14.122	-24.421	1.00	0.00	H
ATOM	3970	HE2	TYR A 251	23.586	-17.756	-26.487	1.00	0.00	H
ATOM	3971	HH	TYR A 251	25.031	-14.764	-26.830	1.00	0.00	H
ATOM	3972	N	GLN A 252	19.701	-15.618	-24.870	1.00	0.00	N
ATOM	3973	CA	GLN A 252	19.637	-15.494	-26.324	1.00	0.00	C
ATOM	3974	C	GLN A 252	20.860	-14.718	-26.823	1.00	0.00	C
ATOM	3975	O	GLN A 252	21.095	-13.594	-26.387	1.00	0.00	O
ATOM	3976	CB	GLN A 252	18.308	-14.816	-26.706	1.00	0.00	C
ATOM	3977	CG	GLN A 252	18.171	-14.571	-28.215	1.00	0.00	C
ATOM	3978	CD	GLN A 252	16.823	-13.982	-28.631	1.00	0.00	C
ATOM	3979	OE1	GLN A 252	16.031	-13.501	-27.830	1.00	0.00	O
ATOM	3980	NE2	GLN A 252	16.584	-13.846	-29.915	1.00	0.00	N
ATOM	3981	H	GLN A 252	19.973	-14.785	-24.353	1.00	0.00	H
ATOM	3982	HA	GLN A 252	19.660	-16.484	-26.781	1.00	0.00	H
ATOM	3983	HB2	GLN A 252	17.489	-15.456	-26.385	1.00	0.00	H
ATOM	3984	HB3	GLN A 252	18.229	-13.861	-26.185	1.00	0.00	H
ATOM	3985	HG2	GLN A 252	18.304	-15.520	-28.736	1.00	0.00	H
ATOM	3986	HG3	GLN A 252	18.948	-13.881	-28.541	1.00	0.00	H
ATOM	3987	HE21	GLN A 252	17.261	-14.193	-30.592	1.00	0.00	H
ATOM	3988	HE22	GLN A 252	15.667	-13.558	-30.206	1.00	0.00	H
ATOM	3989	N	ALA A 253	21.560	-15.232	-27.836	1.00	0.00	N
ATOM	3990	CA	ALA A 253	22.638	-14.482	-28.468	1.00	0.00	C
ATOM	3991	C	ALA A 253	22.082	-13.266	-29.226	1.00	0.00	C



ATOM	3992	O	ALA A 253	21.237	-13.405	-30.114	1.00	0.00	O
ATOM	3993	CB	ALA A 253	23.439	-15.415	-29.375	1.00	0.00	C
ATOM	3994	H	ALA A 253	21.343	-16.157	-28.193	1.00	0.00	H
ATOM	3995	HA	ALA A 253	23.306	-14.118	-27.685	1.00	0.00	H
ATOM	3996	HB1	ALA A 253	23.830	-16.240	-28.784	1.00	0.00	H
ATOM	3997	HB2	ALA A 253	24.269	-14.862	-29.814	1.00	0.00	H
ATOM	3998	HB3	ALA A 253	22.799	-15.816	-30.161	1.00	0.00	H
ATOM	3999	N	SER A 254	22.593	-12.080	-28.905	1.00	0.00	N
ATOM	4000	CA	SER A 254	22.084	-10.776	-29.349	1.00	0.00	C
ATOM	4001	C	SER A 254	22.418	-10.437	-30.816	1.00	0.00	C
ATOM	4002	O	SER A 254	23.145	-9.493	-31.105	1.00	0.00	O
ATOM	4003	CB	SER A 254	22.608	-9.713	-28.377	1.00	0.00	C
ATOM	4004	OG	SER A 254	22.256	-10.059	-27.050	1.00	0.00	O
ATOM	4005	H	SER A 254	23.167	-12.049	-28.074	1.00	0.00	H
ATOM	4006	HA	SER A 254	20.998	-10.782	-29.259	1.00	0.00	H
ATOM	4007	HB2	SER A 254	23.691	-9.663	-28.444	1.00	0.00	H
ATOM	4008	HB3	SER A 254	22.191	-8.747	-28.642	1.00	0.00	H
ATOM	4009	HG	SER A 254	22.183	-9.229	-26.530	1.00	0.00	H
ATOM	4010	N	TYR A 255	21.943	-11.249	-31.763	1.00	0.00	N
ATOM	4011	CA	TYR A 255	22.236	-11.165	-33.205	1.00	0.00	C
ATOM	4012	C	TYR A 255	21.496	-10.041	-33.969	1.00	0.00	C
ATOM	4013	O	TYR A 255	21.383	-10.106	-35.192	1.00	0.00	O
ATOM	4014	CB	TYR A 255	22.029	-12.550	-33.848	1.00	0.00	C
ATOM	4015	CG	TYR A 255	23.259	-13.434	-33.824	1.00	0.00	C
ATOM	4016	CD1	TYR A 255	24.161	-13.391	-34.905	1.00	0.00	C
ATOM	4017	CD2	TYR A 255	23.505	-14.296	-32.741	1.00	0.00	C
ATOM	4018	CE1	TYR A 255	25.306	-14.211	-34.904	1.00	0.00	C
ATOM	4019	CE2	TYR A 255	24.648	-15.120	-32.737	1.00	0.00	C
ATOM	4020	CZ	TYR A 255	25.552	-15.076	-33.818	1.00	0.00	C
ATOM	4021	OH	TYR A 255	26.658	-15.866	-33.802	1.00	0.00	O

ATOM	4022	H	TYR A 255	21.406	-12.045	-31.441	1.00	0.00	H
ATOM	4023	HA	TYR A 255	23.294	-10.924	-33.308	1.00	0.00	H
ATOM	4024	HB2	TYR A 255	21.740	-12.452	-34.891	1.00	0.00	H
ATOM	4025	HB3	TYR A 255	21.203	-13.052	-33.353	1.00	0.00	H
ATOM	4026	HD1	TYR A 255	23.979	-12.723	-35.738	1.00	0.00	H
ATOM	4027	HD2	TYR A 255	22.815	-14.320	-31.913	1.00	0.00	H
ATOM	4028	HE1	TYR A 255	26.004	-14.158	-35.727	1.00	0.00	H
ATOM	4029	HE2	TYR A 255	24.845	-15.789	-31.917	1.00	0.00	H
ATOM	4030	HH	TYR A 255	27.157	-15.771	-34.619	1.00	0.00	H
ATOM	4031	N	SER A 256	21.010	-8.994	-33.300	1.00	0.00	N
ATOM	4032	CA	SER A 256	20.677	-7.727	-33.972	1.00	0.00	C
ATOM	4033	C	SER A 256	20.798	-6.541	-33.004	1.00	0.00	C
ATOM	4034	O	SER A 256	21.832	-6.417	-32.354	1.00	0.00	O
ATOM	4035	CB	SER A 256	19.353	-7.796	-34.762	1.00	0.00	C
ATOM	4036	OG	SER A 256	18.171	-7.810	-33.983	1.00	0.00	O
ATOM	4037	H	SER A 256	21.242	-8.931	-32.319	1.00	0.00	H
ATOM	4038	HA	SER A 256	21.452	-7.552	-34.719	1.00	0.00	H
ATOM	4039	HB2	SER A 256	19.311	-6.919	-35.406	1.00	0.00	H
ATOM	4040	HB3	SER A 256	19.358	-8.668	-35.415	1.00	0.00	H
ATOM	4041	HG	SER A 256	17.454	-7.611	-34.607	1.00	0.00	H
ATOM	4042	N	TRP A 257	19.880	-5.576	-33.061	1.00	0.00	N
ATOM	4043	CA	TRP A 257	20.076	-4.195	-32.608	1.00	0.00	C
ATOM	4044	C	TRP A 257	20.078	-3.988	-31.083	1.00	0.00	C
ATOM	4045	O	TRP A 257	20.686	-3.028	-30.620	1.00	0.00	O
ATOM	4046	CB	TRP A 257	19.001	-3.336	-33.283	1.00	0.00	C
ATOM	4047	CG	TRP A 257	17.585	-3.776	-33.052	1.00	0.00	C
ATOM	4048	CD1	TRP A 257	16.830	-4.473	-33.931	1.00	0.00	C
ATOM	4049	CD2	TRP A 257	16.740	-3.570	-31.876	1.00	0.00	C
ATOM	4050	NE1	TRP A 257	15.603	-4.758	-33.364	1.00	0.00	N
ATOM	4051	CE2	TRP A 257	15.489	-4.219	-32.099	1.00	0.00	C

ATOM	4052	CE3 TRP A 257	16.891	-2.866	-30.660	1.00	0.00	C
ATOM	4053	CZ2 TRP A 257	14.461	-4.217	-31.145	1.00	0.00	C
ATOM	4054	CZ3 TRP A 257	15.861	-2.843	-29.702	1.00	0.00	C
ATOM	4055	CH2 TRP A 257	14.653	-3.525	-29.935	1.00	0.00	C
ATOM	4056	H TRP A 257	19.040	-5.767	-33.588	1.00	0.00	H
ATOM	4057	HA TRP A 257	21.049	-3.851	-32.960	1.00	0.00	H
ATOM	4058	HB2 TRP A 257	19.189	-3.326	-34.357	1.00	0.00	H
ATOM	4059	HB3 TRP A 257	19.109	-2.314	-32.930	1.00	0.00	H
ATOM	4060	HD1 TRP A 257	17.157	-4.774	-34.921	1.00	0.00	H
ATOM	4061	HE3 TRP A 257	17.813	-2.336	-30.461	1.00	0.00	H
ATOM	4062	HZ2 TRP A 257	13.537	-4.744	-31.331	1.00	0.00	H
ATOM	4063	HZ3 TRP A 257	16.011	-2.303	-28.776	1.00	0.00	H
ATOM	4064	HH2 TRP A 257	13.875	-3.518	-29.185	1.00	0.00	H
ATOM	4065	HE1 TRP A 257	14.892	-5.302	-33.829	1.00	0.00	H
ATOM	4066	N ASP A 258	19.457	-4.875	-30.303	1.00	0.00	N
ATOM	4067	CA ASP A 258	19.566	-4.928	-28.833	1.00	0.00	C
ATOM	4068	C ASP A 258	20.871	-5.653	-28.450	1.00	0.00	C
ATOM	4069	O ASP A 258	20.862	-6.870	-28.266	1.00	0.00	O
ATOM	4070	CB ASP A 258	18.299	-5.613	-28.266	1.00	0.00	C
ATOM	4071	CG ASP A 258	18.248	-5.793	-26.738	1.00	0.00	C
ATOM	4072	OD1 ASP A 258	19.117	-5.276	-26.005	1.00	0.00	O
ATOM	4073	OD2 ASP A 258	17.266	-6.389	-26.227	1.00	0.00	O
ATOM	4074	H ASP A 258	18.995	-5.644	-30.757	1.00	0.00	H
ATOM	4075	HA ASP A 258	19.613	-3.915	-28.429	1.00	0.00	H
ATOM	4076	HB2 ASP A 258	17.427	-5.031	-28.566	1.00	0.00	H
ATOM	4077	HB3 ASP A 258	18.211	-6.596	-28.723	1.00	0.00	H
ATOM	4078	N THR A 259	22.026	-4.993	-28.636	1.00	0.00	N
ATOM	4079	CA THR A 259	23.347	-5.671	-28.669	1.00	0.00	C
ATOM	4080	C THR A 259	23.848	-6.126	-27.297	1.00	0.00	C
ATOM	4081	O THR A 259	24.853	-6.842	-27.205	1.00	0.00	O

ATOM	4082	CB	THR A 259	24.438	-4.816	-29.336	1.00	0.00	C
ATOM	4083	OG1	THR A 259	24.910	-3.772	-28.516	1.00	0.00	O
ATOM	4084	CG2	THR A 259	23.978	-4.224	-30.663	1.00	0.00	C
ATOM	4085	H	THR A 259	21.989	-4.007	-28.886	1.00	0.00	H
ATOM	4086	HA	THR A 259	23.235	-6.569	-29.275	1.00	0.00	H
ATOM	4087	HB	THR A 259	25.286	-5.467	-29.530	1.00	0.00	H
ATOM	4088	HG1	THR A 259	25.388	-4.172	-27.777	1.00	0.00	H
ATOM	4089	HG21	THR A 259	23.209	-3.478	-30.490	1.00	0.00	H
ATOM	4090	HG22	THR A 259	23.583	-5.010	-31.298	1.00	0.00	H
ATOM	4091	HG23	THR A 259	24.817	-3.760	-31.169	1.00	0.00	H
ATOM	4092	N	MET A 260	23.191	-5.654	-26.237	1.00	0.00	N
ATOM	4093	CA	MET A 260	23.445	-6.013	-24.843	1.00	0.00	C
ATOM	4094	C	MET A 260	23.123	-7.489	-24.592	1.00	0.00	C
ATOM	4095	O	MET A 260	22.294	-8.077	-25.287	1.00	0.00	O
ATOM	4096	CB	MET A 260	22.605	-5.113	-23.918	1.00	0.00	C
ATOM	4097	CG	MET A 260	22.806	-3.613	-24.184	1.00	0.00	C
ATOM	4098	SD	MET A 260	24.529	-3.038	-24.210	1.00	0.00	S
ATOM	4099	CE	MET A 260	24.994	-3.363	-22.491	1.00	0.00	C
ATOM	4100	H	MET A 260	22.361	-5.113	-26.430	1.00	0.00	H
ATOM	4101	HA	MET A 260	24.500	-5.850	-24.627	1.00	0.00	H
ATOM	4102	HB2	MET A 260	21.548	-5.345	-24.058	1.00	0.00	H
ATOM	4103	HB3	MET A 260	22.862	-5.331	-22.881	1.00	0.00	H
ATOM	4104	HG2	MET A 260	22.357	-3.367	-25.147	1.00	0.00	H
ATOM	4105	HG3	MET A 260	22.265	-3.052	-23.421	1.00	0.00	H
ATOM	4106	HE1	MET A 260	24.352	-2.776	-21.840	1.00	0.00	H
ATOM	4107	HE2	MET A 260	24.873	-4.420	-22.259	1.00	0.00	H
ATOM	4108	HE3	MET A 260	26.031	-3.077	-22.328	1.00	0.00	H
ATOM	4109	N	ILE A 261	23.755	-8.113	-23.594	1.00	0.00	N
ATOM	4110	CA	ILE A 261	23.518	-9.533	-23.295	1.00	0.00	C
ATOM	4111	C	ILE A 261	22.059	-9.792	-22.872	1.00	0.00	C

ATOM	4112	O	ILE A 261	21.601	-9.360	-21.813	1.00	0.00	O
ATOM	4113	CB	ILE A 261	24.561	-10.088	-22.299	1.00	0.00	C
ATOM	4114	CG1	ILE A 261	24.378	-11.617	-22.165	1.00	0.00	C
ATOM	4115	CG2	ILE A 261	24.552	-9.373	-20.933	1.00	0.00	C
ATOM	4116	CD1	ILE A 261	25.534	-12.326	-21.448	1.00	0.00	C
ATOM	4117	H	ILE A 261	24.461	-7.605	-23.070	1.00	0.00	H
ATOM	4118	HA	ILE A 261	23.673	-10.072	-24.231	1.00	0.00	H
ATOM	4119	HB	ILE A 261	25.540	-9.919	-22.749	1.00	0.00	H
ATOM	4120	HG12	ILE A 261	23.449	-11.839	-21.640	1.00	0.00	H
ATOM	4121	HG13	ILE A 261	24.304	-12.046	-23.165	1.00	0.00	H
ATOM	4122	HG21	ILE A 261	25.359	-9.745	-20.307	1.00	0.00	H
ATOM	4123	HG22	ILE A 261	23.614	-9.531	-20.410	1.00	0.00	H
ATOM	4124	HG23	ILE A 261	24.685	-8.300	-21.073	1.00	0.00	H
ATOM	4125	HD11	ILE A 261	25.372	-13.404	-21.483	1.00	0.00	H
ATOM	4126	HD12	ILE A 261	26.477	-12.095	-21.945	1.00	0.00	H
ATOM	4127	HD13	ILE A 261	25.583	-12.015	-20.407	1.00	0.00	H
ATOM	4128	N	LYS A 262	21.324	-10.557	-23.686	1.00	0.00	N
ATOM	4129	CA	LYS A 262	19.965	-11.004	-23.363	1.00	0.00	C
ATOM	4130	C	LYS A 262	20.021	-12.295	-22.544	1.00	0.00	C
ATOM	4131	O	LYS A 262	20.094	-13.389	-23.098	1.00	0.00	O
ATOM	4132	CB	LYS A 262	19.143	-11.166	-24.648	1.00	0.00	C
ATOM	4133	CG	LYS A 262	18.958	-9.846	-25.415	1.00	0.00	C
ATOM	4134	CD	LYS A 262	18.036	-10.048	-26.622	1.00	0.00	C
ATOM	4135	CE	LYS A 262	16.576	-10.145	-26.168	1.00	0.00	C
ATOM	4136	NZ	LYS A 262	15.732	-10.797	-27.188	1.00	0.00	N
ATOM	4137	H	LYS A 262	21.719	-10.837	-24.576	1.00	0.00	H
ATOM	4138	HA	LYS A 262	19.473	-10.246	-22.752	1.00	0.00	H
ATOM	4139	HB2	LYS A 262	19.629	-11.887	-25.302	1.00	0.00	H
ATOM	4140	HB3	LYS A 262	18.166	-11.561	-24.377	1.00	0.00	H
ATOM	4141	HG2	LYS A 262	19.925	-9.497	-25.774	1.00	0.00	H

ATOM	4142	HG3 LYS A 262	18.538	-9.085	-24.756	1.00	0.00	H
ATOM	4143	HD2 LYS A 262	18.140	-9.192	-27.291	1.00	0.00	H
ATOM	4144	HD3 LYS A 262	18.337	-10.951	-27.157	1.00	0.00	H
ATOM	4145	HE2 LYS A 262	16.509	-10.706	-25.232	1.00	0.00	H
ATOM	4146	HE3 LYS A 262	16.216	-9.128	-25.979	1.00	0.00	H
ATOM	4147	HZ1 LYS A 262	15.982	-10.487	-28.123	1.00	0.00	H
ATOM	4148	HZ2 LYS A 262	15.824	-11.811	-27.178	1.00	0.00	H
ATOM	4149	HZ3 LYS A 262	14.760	-10.538	-27.038	1.00	0.00	H
ATOM	4150	N LEU A 263	19.926	-12.165	-21.223	1.00	0.00	N
ATOM	4151	CA LEU A 263	19.771	-13.278	-20.276	1.00	0.00	C
ATOM	4152	C LEU A 263	18.744	-12.944	-19.186	1.00	0.00	C
ATOM	4153	O LEU A 263	18.462	-11.769	-18.959	1.00	0.00	O
ATOM	4154	CB LEU A 263	21.144	-13.706	-19.709	1.00	0.00	C
ATOM	4155	CG LEU A 263	21.687	-12.914	-18.499	1.00	0.00	C
ATOM	4156	CD1 LEU A 263	23.035	-13.501	-18.074	1.00	0.00	C
ATOM	4157	CD2 LEU A 263	21.903	-11.426	-18.774	1.00	0.00	C
ATOM	4158	H LEU A 263	19.902	-11.228	-20.846	1.00	0.00	H
ATOM	4159	HA LEU A 263	19.369	-14.124	-20.829	1.00	0.00	H
ATOM	4160	HB2 LEU A 263	21.047	-14.746	-19.394	1.00	0.00	H
ATOM	4161	HB3 LEU A 263	21.881	-13.685	-20.514	1.00	0.00	H
ATOM	4162	HG LEU A 263	20.994	-13.011	-17.665	1.00	0.00	H
ATOM	4163	HD11 LEU A 263	23.756	-13.418	-18.886	1.00	0.00	H
ATOM	4164	HD12 LEU A 263	23.416	-12.972	-17.200	1.00	0.00	H
ATOM	4165	HD13 LEU A 263	22.912	-14.552	-17.808	1.00	0.00	H
ATOM	4166	HD21 LEU A 263	22.342	-10.946	-17.899	1.00	0.00	H
ATOM	4167	HD22 LEU A 263	22.568	-11.309	-19.624	1.00	0.00	H
ATOM	4168	HD23 LEU A 263	20.957	-10.937	-18.991	1.00	0.00	H
ATOM	4169	N GLY A 264	18.201	-13.947	-18.498	1.00	0.00	N
ATOM	4170	CA GLY A 264	17.263	-13.753	-17.386	1.00	0.00	C
ATOM	4171	C GLY A 264	16.701	-15.063	-16.836	1.00	0.00	C

ATOM	4172	O	GLY A 264	16.761	-16.093	-17.500	1.00	0.00	O
ATOM	4173	H	GLY A 264	18.392	-14.902	-18.793	1.00	0.00	H
ATOM	4174	HA2	GLY A 264	17.766	-13.220	-16.579	1.00	0.00	H
ATOM	4175	HA3	GLY A 264	16.425	-13.147	-17.725	1.00	0.00	H
ATOM	4176	N	ASP A 265	16.158	-15.038	-15.620	1.00	0.00	N
ATOM	4177	CA	ASP A 265	15.366	-16.158	-15.088	1.00	0.00	C
ATOM	4178	C	ASP A 265	14.077	-16.373	-15.905	1.00	0.00	C
ATOM	4179	O	ASP A 265	13.507	-15.413	-16.431	1.00	0.00	O
ATOM	4180	CB	ASP A 265	15.066	-15.909	-13.599	1.00	0.00	C
ATOM	4181	CG	ASP A 265	16.284	-16.202	-12.721	1.00	0.00	C
ATOM	4182	OD1	ASP A 265	16.769	-17.349	-12.790	1.00	0.00	O
ATOM	4183	OD2	ASP A 265	16.570	-15.445	-11.768	1.00	0.00	O
ATOM	4184	H	ASP A 265	16.061	-14.148	-15.159	1.00	0.00	H
ATOM	4185	HA	ASP A 265	15.950	-17.076	-15.165	1.00	0.00	H
ATOM	4186	HB2	ASP A 265	14.736	-14.879	-13.454	1.00	0.00	H
ATOM	4187	HB3	ASP A 265	14.256	-16.568	-13.285	1.00	0.00	H
ATOM	4188	N	VAL A 266	13.608	-17.621	-16.024	1.00	0.00	N
ATOM	4189	CA	VAL A 266	12.295	-17.905	-16.636	1.00	0.00	C
ATOM	4190	C	VAL A 266	11.166	-17.600	-15.648	1.00	0.00	C
ATOM	4191	O	VAL A 266	11.154	-18.108	-14.529	1.00	0.00	O
ATOM	4192	CB	VAL A 266	12.182	-19.337	-17.208	1.00	0.00	C
ATOM	4193	CG1	VAL A 266	13.321	-19.630	-18.194	1.00	0.00	C
ATOM	4194	CG2	VAL A 266	12.133	-20.456	-16.160	1.00	0.00	C
ATOM	4195	H	VAL A 266	14.120	-18.388	-15.598	1.00	0.00	H
ATOM	4196	HA	VAL A 266	12.171	-17.234	-17.484	1.00	0.00	H
ATOM	4197	HB	VAL A 266	11.250	-19.387	-17.773	1.00	0.00	H
ATOM	4198	HG11	VAL A 266	13.355	-18.847	-18.948	1.00	0.00	H
ATOM	4199	HG12	VAL A 266	13.141	-20.583	-18.690	1.00	0.00	H
ATOM	4200	HG13	VAL A 266	14.278	-19.670	-17.673	1.00	0.00	H
ATOM	4201	HG21	VAL A 266	11.198	-20.408	-15.604	1.00	0.00	H

ATOM	4202	HG22	VAL A 266	12.964	-20.359	-15.463	1.00	0.00	H
ATOM	4203	HG23	VAL A 266	12.178	-21.427	-16.649	1.00	0.00	H
ATOM	4204	N	ASP A 267	10.173	-16.818	-16.063	1.00	0.00	N
ATOM	4205	CA	ASP A 267	8.910	-16.665	-15.328	1.00	0.00	C
ATOM	4206	C	ASP A 267	7.862	-17.700	-15.777	1.00	0.00	C
ATOM	4207	O	ASP A 267	6.863	-17.916	-15.092	1.00	0.00	O
ATOM	4208	CB	ASP A 267	8.352	-15.234	-15.444	1.00	0.00	C
ATOM	4209	CG	ASP A 267	9.416	-14.160	-15.680	1.00	0.00	C
ATOM	4210	OD1	ASP A 267	9.761	-13.988	-16.869	1.00	0.00	O
ATOM	4211	OD2	ASP A 267	9.451	-13.186	-14.897	1.00	0.00	O
ATOM	4212	H	ASP A 267	10.232	-16.412	-16.993	1.00	0.00	H
ATOM	4213	HA	ASP A 267	9.098	-16.846	-14.268	1.00	0.00	H
ATOM	4214	HB2	ASP A 267	7.648	-15.202	-16.275	1.00	0.00	H
ATOM	4215	HB3	ASP A 267	7.787	-15.005	-14.540	1.00	0.00	H
ATOM	4216	N	THR A 268	8.035	-18.305	-16.959	1.00	0.00	N
ATOM	4217	CA	THR A 268	7.220	-19.432	-17.452	1.00	0.00	C
ATOM	4218	C	THR A 268	7.951	-20.164	-18.589	1.00	0.00	C
ATOM	4219	O	THR A 268	8.837	-19.582	-19.218	1.00	0.00	O
ATOM	4220	CB	THR A 268	5.803	-19.002	-17.913	1.00	0.00	C
ATOM	4221	OG1	THR A 268	5.441	-17.708	-17.480	1.00	0.00	O
ATOM	4222	CG2	THR A 268	4.748	-19.935	-17.320	1.00	0.00	C
ATOM	4223	H	THR A 268	8.834	-18.035	-17.523	1.00	0.00	H
ATOM	4224	HA	THR A 268	7.116	-20.137	-16.629	1.00	0.00	H
ATOM	4225	HB	THR A 268	5.735	-19.029	-18.997	1.00	0.00	H
ATOM	4226	HG21	THR A 268	3.760	-19.623	-17.658	1.00	0.00	H
ATOM	4227	HG22	THR A 268	4.920	-20.959	-17.647	1.00	0.00	H
ATOM	4228	HG23	THR A 268	4.779	-19.887	-16.230	1.00	0.00	H
ATOM	4229	HG1	THR A 268	5.708	-17.665	-16.547	1.00	0.00	H
ATOM	4230	N	VAL A 269	7.686	-21.466	-18.772	1.00	0.00	N
ATOM	4231	CA	VAL A 269	8.402	-22.337	-19.738	1.00	0.00	C



ATOM	4232	C	VAL A 269	7.494	-22.853	-20.860	1.00	0.00	C
ATOM	4233	O	VAL A 269	7.849	-22.692	-22.025	1.00	0.00	O
ATOM	4234	CB	VAL A 269	9.124	-23.493	-19.015	1.00	0.00	C
ATOM	4235	CG1	VAL A 269	9.828	-24.459	-19.977	1.00	0.00	C
ATOM	4236	CG2	VAL A 269	10.195	-22.941	-18.063	1.00	0.00	C
ATOM	4237	H	VAL A 269	6.951	-21.878	-18.221	1.00	0.00	H
ATOM	4238	HA	VAL A 269	9.172	-21.752	-20.241	1.00	0.00	H
ATOM	4239	HB	VAL A 269	8.396	-24.059	-18.432	1.00	0.00	H
ATOM	4240	HG11	VAL A 269	9.101	-24.923	-20.645	1.00	0.00	H
ATOM	4241	HG12	VAL A 269	10.318	-25.257	-19.421	1.00	0.00	H
ATOM	4242	HG13	VAL A 269	10.567	-23.924	-20.573	1.00	0.00	H
ATOM	4243	HG21	VAL A 269	9.732	-22.333	-17.286	1.00	0.00	H
ATOM	4244	HG22	VAL A 269	10.903	-22.327	-18.620	1.00	0.00	H
ATOM	4245	HG23	VAL A 269	10.730	-23.757	-17.584	1.00	0.00	H
ATOM	4246	N	ASP A 270	6.255	-23.232	-20.532	1.00	0.00	N
ATOM	4247	CA	ASP A 270	5.142	-23.327	-21.483	1.00	0.00	C
ATOM	4248	C	ASP A 270	4.130	-22.195	-21.183	1.00	0.00	C
ATOM	4249	O	ASP A 270	3.421	-22.291	-20.177	1.00	0.00	O
ATOM	4250	CB	ASP A 270	4.431	-24.700	-21.403	1.00	0.00	C
ATOM	4251	CG	ASP A 270	5.237	-25.949	-21.791	1.00	0.00	C
ATOM	4252	OD1	ASP A 270	6.480	-25.913	-21.897	1.00	0.00	O
ATOM	4253	OD2	ASP A 270	4.629	-27.043	-21.840	1.00	0.00	O
ATOM	4254	H	ASP A 270	6.017	-23.307	-19.561	1.00	0.00	H
ATOM	4255	HA	ASP A 270	5.515	-23.226	-22.500	1.00	0.00	H
ATOM	4256	HB2	ASP A 270	3.557	-24.658	-22.055	1.00	0.00	H
ATOM	4257	HB3	ASP A 270	4.072	-24.846	-20.383	1.00	0.00	H
ATOM	4258	N	PRO A 271	3.998	-21.149	-22.026	1.00	0.00	N
ATOM	4259	CA	PRO A 271	4.957	-20.696	-23.040	1.00	0.00	C
ATOM	4260	C	PRO A 271	6.233	-20.106	-22.406	1.00	0.00	C
ATOM	4261	O	PRO A 271	6.238	-19.761	-21.226	1.00	0.00	O

ATOM	4262	CB	PRO A 271	4.200	-19.625	-23.830	1.00	0.00	C
ATOM	4263	CG	PRO A 271	3.339	-18.966	-22.753	1.00	0.00	C
ATOM	4264	CD	PRO A 271	2.956	-20.143	-21.855	1.00	0.00	C
ATOM	4265	HA	PRO A 271	5.223	-21.511	-23.705	1.00	0.00	H
ATOM	4266	HB2	PRO A 271	3.557	-20.103	-24.571	1.00	0.00	H
ATOM	4267	HB3	PRO A 271	4.867	-18.908	-24.312	1.00	0.00	H
ATOM	4268	HG2	PRO A 271	3.937	-18.251	-22.185	1.00	0.00	H
ATOM	4269	HG3	PRO A 271	2.460	-18.479	-23.176	1.00	0.00	H
ATOM	4270	HD2	PRO A 271	2.000	-20.560	-22.174	1.00	0.00	H
ATOM	4271	HD3	PRO A 271	2.892	-19.816	-20.816	1.00	0.00	H
ATOM	4272	N	LEU A 272	7.292	-19.889	-23.194	1.00	0.00	N
ATOM	4273	CA	LEU A 272	8.548	-19.352	-22.669	1.00	0.00	C
ATOM	4274	C	LEU A 272	8.460	-17.831	-22.454	1.00	0.00	C
ATOM	4275	O	LEU A 272	8.470	-17.048	-23.410	1.00	0.00	O
ATOM	4276	CB	LEU A 272	9.727	-19.773	-23.563	1.00	0.00	C
ATOM	4277	CG	LEU A 272	11.075	-19.184	-23.099	1.00	0.00	C
ATOM	4278	CD1	LEU A 272	11.530	-19.709	-21.735	1.00	0.00	C
ATOM	4279	CD2	LEU A 272	12.164	-19.495	-24.118	1.00	0.00	C
ATOM	4280	H	LEU A 272	7.242	-20.124	-24.175	1.00	0.00	H
ATOM	4281	HA	LEU A 272	8.713	-19.815	-21.695	1.00	0.00	H
ATOM	4282	HB2	LEU A 272	9.794	-20.862	-23.574	1.00	0.00	H
ATOM	4283	HB3	LEU A 272	9.525	-19.437	-24.580	1.00	0.00	H
ATOM	4284	HG	LEU A 272	10.997	-18.101	-23.034	1.00	0.00	H
ATOM	4285	HD11	LEU A 272	12.528	-19.334	-21.509	1.00	0.00	H
ATOM	4286	HD12	LEU A 272	10.854	-19.362	-20.954	1.00	0.00	H
ATOM	4287	HD13	LEU A 272	11.542	-20.797	-21.735	1.00	0.00	H
ATOM	4288	HD21	LEU A 272	11.833	-19.220	-25.118	1.00	0.00	H
ATOM	4289	HD22	LEU A 272	13.051	-18.917	-23.868	1.00	0.00	H
ATOM	4290	HD23	LEU A 272	12.409	-20.553	-24.091	1.00	0.00	H
ATOM	4291	N	ARG A 273	8.621	-17.405	-21.201	1.00	0.00	N

ATOM	4292	CA	ARG A 273	8.668	-15.999	-20.776	1.00	0.00	C
ATOM	4293	C	ARG A 273	9.810	-15.802	-19.776	1.00	0.00	C
ATOM	4294	O	ARG A 273	10.035	-16.637	-18.903	1.00	0.00	O
ATOM	4295	CB	ARG A 273	7.262	-15.604	-20.275	1.00	0.00	C
ATOM	4296	CG	ARG A 273	7.163	-14.381	-19.355	1.00	0.00	C
ATOM	4297	CD	ARG A 273	7.777	-13.066	-19.871	1.00	0.00	C
ATOM	4298	NE	ARG A 273	8.600	-12.473	-18.803	1.00	0.00	N
ATOM	4299	CZ	ARG A 273	8.393	-11.370	-18.118	1.00	0.00	C
ATOM	4300	NH1	ARG A 273	7.639	-10.399	-18.545	1.00	0.00	N
ATOM	4301	NH2	ARG A 273	8.920	-11.253	-16.936	1.00	0.00	N
ATOM	4302	H	ARG A 273	8.672	-18.118	-20.474	1.00	0.00	H
ATOM	4303	HA	ARG A 273	8.896	-15.384	-21.647	1.00	0.00	H
ATOM	4304	HB2	ARG A 273	6.620	-15.443	-21.142	1.00	0.00	H
ATOM	4305	HB3	ARG A 273	6.844	-16.446	-19.718	1.00	0.00	H
ATOM	4306	HG2	ARG A 273	6.112	-14.202	-19.125	1.00	0.00	H
ATOM	4307	HG3	ARG A 273	7.644	-14.658	-18.418	1.00	0.00	H
ATOM	4308	HD2	ARG A 273	8.404	-13.255	-20.741	1.00	0.00	H
ATOM	4309	HD3	ARG A 273	6.973	-12.393	-20.174	1.00	0.00	H
ATOM	4310	HE	ARG A 273	9.198	-13.126	-18.294	1.00	0.00	H
ATOM	4311	HH11	ARG A 273	7.356	-10.416	-19.523	1.00	0.00	H
ATOM	4312	HH12	ARG A 273	7.552	-9.560	-18.016	1.00	0.00	H
ATOM	4313	HH21	ARG A 273	9.345	-12.100	-16.530	1.00	0.00	H
ATOM	4314	HH22	ARG A 273	8.623	-10.545	-16.303	1.00	0.00	H
ATOM	4315	N	VAL A 274	10.613	-14.763	-20.019	1.00	0.00	N
ATOM	4316	CA	VAL A 274	11.924	-14.529	-19.395	1.00	0.00	C
ATOM	4317	C	VAL A 274	11.989	-13.105	-18.848	1.00	0.00	C
ATOM	4318	O	VAL A 274	11.765	-12.147	-19.593	1.00	0.00	O
ATOM	4319	CB	VAL A 274	13.061	-14.764	-20.418	1.00	0.00	C
ATOM	4320	CG1	VAL A 274	14.453	-14.578	-19.799	1.00	0.00	C
ATOM	4321	CG2	VAL A 274	13.002	-16.166	-21.040	1.00	0.00	C

ATOM	4322	H	VAL A 274	10.353	-14.131	-20.758	1.00	0.00	H
ATOM	4323	HA	VAL A 274	12.061	-15.219	-18.561	1.00	0.00	H
ATOM	4324	HB	VAL A 274	12.955	-14.041	-21.227	1.00	0.00	H
ATOM	4325	HG11	VAL A 274	15.219	-14.748	-20.555	1.00	0.00	H
ATOM	4326	HG12	VAL A 274	14.573	-13.563	-19.427	1.00	0.00	H
ATOM	4327	HG13	VAL A 274	14.592	-15.285	-18.981	1.00	0.00	H
ATOM	4328	HG21	VAL A 274	13.822	-16.290	-21.746	1.00	0.00	H
ATOM	4329	HG22	VAL A 274	13.076	-16.921	-20.259	1.00	0.00	H
ATOM	4330	HG23	VAL A 274	12.071	-16.304	-21.587	1.00	0.00	H
ATOM	4331	N	GLN A 275	12.409	-12.939	-17.594	1.00	0.00	N
ATOM	4332	CA	GLN A 275	12.701	-11.630	-17.008	1.00	0.00	C
ATOM	4333	C	GLN A 275	14.114	-11.186	-17.397	1.00	0.00	C
ATOM	4334	O	GLN A 275	15.071	-11.307	-16.628	1.00	0.00	O
ATOM	4335	CB	GLN A 275	12.414	-11.589	-15.498	1.00	0.00	C
ATOM	4336	CG	GLN A 275	12.926	-12.780	-14.676	1.00	0.00	C
ATOM	4337	CD	GLN A 275	12.600	-12.608	-13.202	1.00	0.00	C
ATOM	4338	OE1	GLN A 275	13.440	-12.240	-12.394	1.00	0.00	O
ATOM	4339	NE2	GLN A 275	11.341	-12.699	-12.834	1.00	0.00	N
ATOM	4340	H	GLN A 275	12.590	-13.771	-17.037	1.00	0.00	H
ATOM	4341	HA	GLN A 275	12.022	-10.901	-17.453	1.00	0.00	H
ATOM	4342	HB2	GLN A 275	12.840	-10.672	-15.089	1.00	0.00	H
ATOM	4343	HB3	GLN A 275	11.336	-11.523	-15.370	1.00	0.00	H
ATOM	4344	HG2	GLN A 275	12.431	-13.688	-15.013	1.00	0.00	H
ATOM	4345	HG3	GLN A 275	14.003	-12.888	-14.798	1.00	0.00	H
ATOM	4346	HE21	GLN A 275	10.622	-12.923	-13.530	1.00	0.00	H
ATOM	4347	HE22	GLN A 275	11.133	-12.578	-11.863	1.00	0.00	H
ATOM	4348	N	TRP A 276	14.245	-10.732	-18.647	1.00	0.00	N
ATOM	4349	CA	TRP A 276	15.504	-10.239	-19.203	1.00	0.00	C
ATOM	4350	C	TRP A 276	16.131	-9.175	-18.297	1.00	0.00	C
ATOM	4351	O	TRP A 276	15.516	-8.140	-18.027	1.00	0.00	O

ATOM	4352	CB	TRP A 276	15.290	-9.624	-20.590	1.00	0.00	C
ATOM	4353	CG	TRP A 276	14.655	-10.480	-21.637	1.00	0.00	C
ATOM	4354	CD1	TRP A 276	13.444	-10.248	-22.186	1.00	0.00	C
ATOM	4355	CD2	TRP A 276	15.197	-11.638	-22.346	1.00	0.00	C
ATOM	4356	NE1	TRP A 276	13.223	-11.134	-23.215	1.00	0.00	N
ATOM	4357	CE2	TRP A 276	14.281	-11.998	-23.380	1.00	0.00	C
ATOM	4358	CE3	TRP A 276	16.379	-12.403	-22.246	1.00	0.00	C
ATOM	4359	CZ2	TRP A 276	14.544	-13.021	-24.298	1.00	0.00	C
ATOM	4360	CZ3	TRP A 276	16.636	-13.464	-23.137	1.00	0.00	C
ATOM	4361	CH2	TRP A 276	15.730	-13.761	-24.172	1.00	0.00	C
ATOM	4362	H	TRP A 276	13.437	-10.783	-19.256	1.00	0.00	H
ATOM	4363	HA	TRP A 276	16.185	-11.080	-19.297	1.00	0.00	H
ATOM	4364	HB2	TRP A 276	14.682	-8.725	-20.479	1.00	0.00	H
ATOM	4365	HB3	TRP A 276	16.261	-9.307	-20.971	1.00	0.00	H
ATOM	4366	HD1	TRP A 276	12.774	-9.445	-21.907	1.00	0.00	H
ATOM	4367	HE3	TRP A 276	17.082	-12.173	-21.461	1.00	0.00	H
ATOM	4368	HZ2	TRP A 276	13.826	-13.250	-25.071	1.00	0.00	H
ATOM	4369	HZ3	TRP A 276	17.540	-14.049	-23.034	1.00	0.00	H
ATOM	4370	HH2	TRP A 276	15.934	-14.572	-24.857	1.00	0.00	H
ATOM	4371	HE1	TRP A 276	12.414	-11.051	-23.833	1.00	0.00	H
ATOM	4372	N	ARG A 277	17.423	-9.323	-17.997	1.00	0.00	N
ATOM	4373	CA	ARG A 277	18.202	-8.260	-17.361	1.00	0.00	C
ATOM	4374	C	ARG A 277	18.344	-7.103	-18.347	1.00	0.00	C
ATOM	4375	O	ARG A 277	18.833	-7.284	-19.465	1.00	0.00	O
ATOM	4376	CB	ARG A 277	19.578	-8.760	-16.886	1.00	0.00	C
ATOM	4377	CG	ARG A 277	19.602	-10.100	-16.125	1.00	0.00	C
ATOM	4378	CD	ARG A 277	18.531	-10.307	-15.045	1.00	0.00	C
ATOM	4379	NE	ARG A 277	18.764	-9.476	-13.856	1.00	0.00	N
ATOM	4380	CZ	ARG A 277	18.156	-9.603	-12.693	1.00	0.00	C
ATOM	4381	NH1	ARG A 277	17.198	-10.467	-12.496	1.00	0.00	N

ATOM	4382	NH2	ARG A 277	18.486	-8.830	-11.706	1.00	0.00	N
ATOM	4383	H	ARG A 277	17.893	-10.170	-18.300	1.00	0.00	H
ATOM	4384	HA	ARG A 277	17.648	-7.904	-16.490	1.00	0.00	H
ATOM	4385	HB2	ARG A 277	20.235	-8.866	-17.751	1.00	0.00	H
ATOM	4386	HB3	ARG A 277	20.006	-7.987	-16.250	1.00	0.00	H
ATOM	4387	HG2	ARG A 277	19.491	-10.905	-16.846	1.00	0.00	H
ATOM	4388	HG3	ARG A 277	20.587	-10.215	-15.673	1.00	0.00	H
ATOM	4389	HD2	ARG A 277	17.540	-10.105	-15.453	1.00	0.00	H
ATOM	4390	HD3	ARG A 277	18.562	-11.356	-14.749	1.00	0.00	H
ATOM	4391	HE	ARG A 277	19.579	-8.856	-13.866	1.00	0.00	H
ATOM	4392	HH11	ARG A 277	16.963	-11.096	-13.240	1.00	0.00	H
ATOM	4393	HH12	ARG A 277	16.833	-10.625	-11.578	1.00	0.00	H
ATOM	4394	HH21	ARG A 277	19.139	-8.069	-11.927	1.00	0.00	H
ATOM	4395	HH22	ARG A 277	18.040	-8.887	-10.818	1.00	0.00	H
ATOM	4396	N	ASN A 278	18.054	-5.883	-17.907	1.00	0.00	N
ATOM	4397	CA	ASN A 278	18.405	-4.664	-18.644	1.00	0.00	C
ATOM	4398	C	ASN A 278	19.880	-4.295	-18.407	1.00	0.00	C
ATOM	4399	O	ASN A 278	20.185	-3.249	-17.843	1.00	0.00	O
ATOM	4400	CB	ASN A 278	17.381	-3.558	-18.338	1.00	0.00	C
ATOM	4401	CG	ASN A 278	15.995	-3.900	-18.867	1.00	0.00	C
ATOM	4402	OD1	ASN A 278	15.818	-4.607	-19.852	1.00	0.00	O
ATOM	4403	ND2	ASN A 278	14.959	-3.418	-18.221	1.00	0.00	N
ATOM	4404	H	ASN A 278	17.696	-5.791	-16.970	1.00	0.00	H
ATOM	4405	HA	ASN A 278	18.337	-4.861	-19.715	1.00	0.00	H
ATOM	4406	HB2	ASN A 278	17.339	-3.393	-17.262	1.00	0.00	H
ATOM	4407	HB3	ASN A 278	17.699	-2.629	-18.810	1.00	0.00	H
ATOM	4408	HD21	ASN A 278	15.089	-2.844	-17.409	1.00	0.00	H
ATOM	4409	HD22	ASN A 278	14.053	-3.684	-18.562	1.00	0.00	H
ATOM	4410	N	ASN A 279	20.765	-5.264	-18.670	1.00	0.00	N
ATOM	4411	CA	ASN A 279	22.193	-5.176	-18.399	1.00	0.00	C

ATOM	4412	C	ASN A 279	22.821	-4.008	-19.176	1.00	0.00	C
ATOM	4413	O	ASN A 279	22.593	-3.875	-20.378	1.00	0.00	O
ATOM	4414	CB	ASN A 279	22.844	-6.532	-18.740	1.00	0.00	C
ATOM	4415	CG	ASN A 279	24.335	-6.559	-18.440	1.00	0.00	C
ATOM	4416	OD1	ASN A 279	25.143	-5.925	-19.101	1.00	0.00	O
ATOM	4417	ND2	ASN A 279	24.755	-7.296	-17.440	1.00	0.00	N
ATOM	4418	H	ASN A 279	20.426	-6.101	-19.127	1.00	0.00	H
ATOM	4419	HA	ASN A 279	22.305	-4.981	-17.335	1.00	0.00	H
ATOM	4420	HB2	ASN A 279	22.351	-7.322	-18.176	1.00	0.00	H
ATOM	4421	HB3	ASN A 279	22.714	-6.741	-19.802	1.00	0.00	H
ATOM	4422	HD21	ASN A 279	24.094	-7.747	-16.838	1.00	0.00	H
ATOM	4423	HD22	ASN A 279	25.715	-7.166	-17.171	1.00	0.00	H
ATOM	4424	N	SER A 280	23.633	-3.194	-18.499	1.00	0.00	N
ATOM	4425	CA	SER A 280	24.206	-1.961	-19.055	1.00	0.00	C
ATOM	4426	C	SER A 280	25.717	-2.041	-19.328	1.00	0.00	C
ATOM	4427	O	SER A 280	26.358	-0.996	-19.424	1.00	0.00	O
ATOM	4428	CB	SER A 280	23.839	-0.764	-18.164	1.00	0.00	C
ATOM	4429	OG	SER A 280	24.672	-0.685	-17.025	1.00	0.00	O
ATOM	4430	H	SER A 280	23.784	-3.386	-17.512	1.00	0.00	H
ATOM	4431	HA	SER A 280	23.735	-1.770	-20.017	1.00	0.00	H
ATOM	4432	HB2	SER A 280	22.797	-0.850	-17.851	1.00	0.00	H
ATOM	4433	HB3	SER A 280	23.950	0.154	-18.743	1.00	0.00	H
ATOM	4434	HG	SER A 280	25.550	-0.433	-17.341	1.00	0.00	H
ATOM	4435	N	VAL A 281	26.322	-3.240	-19.299	1.00	0.00	N
ATOM	4436	CA	VAL A 281	27.792	-3.401	-19.235	1.00	0.00	C
ATOM	4437	C	VAL A 281	28.392	-4.503	-20.121	1.00	0.00	C
ATOM	4438	O	VAL A 281	29.519	-4.331	-20.576	1.00	0.00	O
ATOM	4439	CB	VAL A 281	28.276	-3.578	-17.780	1.00	0.00	C
ATOM	4440	CG1	VAL A 281	27.994	-2.347	-16.913	1.00	0.00	C
ATOM	4441	CG2	VAL A 281	27.683	-4.806	-17.074	1.00	0.00	C

ATOM	4442	H	VAL A 281	25.741	-4.058	-19.142	1.00	0.00	H
ATOM	4443	HA	VAL A 281	28.251	-2.481	-19.599	1.00	0.00	H
ATOM	4444	HB	VAL A 281	29.357	-3.692	-17.815	1.00	0.00	H
ATOM	4445	HG11	VAL A 281	28.360	-1.451	-17.414	1.00	0.00	H
ATOM	4446	HG12	VAL A 281	28.502	-2.446	-15.956	1.00	0.00	H
ATOM	4447	HG13	VAL A 281	26.924	-2.249	-16.735	1.00	0.00	H
ATOM	4448	HG21	VAL A 281	26.599	-4.719	-17.009	1.00	0.00	H
ATOM	4449	HG22	VAL A 281	28.083	-4.887	-16.065	1.00	0.00	H
ATOM	4450	HG23	VAL A 281	27.938	-5.710	-17.618	1.00	0.00	H
ATOM	4451	N	ILE A 282	27.653	-5.558	-20.483	1.00	0.00	N
ATOM	4452	CA	ILE A 282	28.118	-6.590	-21.430	1.00	0.00	C
ATOM	4453	C	ILE A 282	27.390	-6.438	-22.773	1.00	0.00	C
ATOM	4454	O	ILE A 282	26.171	-6.586	-22.852	1.00	0.00	O
ATOM	4455	CB	ILE A 282	27.965	-8.011	-20.837	1.00	0.00	C
ATOM	4456	CG1	ILE A 282	28.742	-8.247	-19.522	1.00	0.00	C
ATOM	4457	CG2	ILE A 282	28.343	-9.100	-21.863	1.00	0.00	C
ATOM	4458	CD1	ILE A 282	30.271	-8.168	-19.618	1.00	0.00	C
ATOM	4459	H	ILE A 282	26.713	-5.645	-20.108	1.00	0.00	H
ATOM	4460	HA	ILE A 282	29.181	-6.446	-21.624	1.00	0.00	H
ATOM	4461	HB	ILE A 282	26.915	-8.137	-20.596	1.00	0.00	H
ATOM	4462	HG12	ILE A 282	28.406	-7.530	-18.777	1.00	0.00	H
ATOM	4463	HG13	ILE A 282	28.481	-9.236	-19.142	1.00	0.00	H
ATOM	4464	HD11	ILE A 282	30.700	-8.300	-18.625	1.00	0.00	H
ATOM	4465	HD12	ILE A 282	30.575	-7.199	-20.009	1.00	0.00	H
ATOM	4466	HD13	ILE A 282	30.652	-8.958	-20.262	1.00	0.00	H
ATOM	4467	HG21	ILE A 282	28.257	-10.086	-21.404	1.00	0.00	H
ATOM	4468	HG22	ILE A 282	27.678	-9.069	-22.724	1.00	0.00	H
ATOM	4469	HG23	ILE A 282	29.367	-8.960	-22.206	1.00	0.00	H
ATOM	4470	N	SER A 283	28.164	-6.314	-23.856	1.00	0.00	N
ATOM	4471	CA	SER A 283	27.695	-6.274	-25.249	1.00	0.00	C



ATOM	4472	C	SER A 283	28.661	-7.033	-26.161	1.00	0.00	C
ATOM	4473	O	SER A 283	29.875	-6.905	-25.995	1.00	0.00	O
ATOM	4474	CB	SER A 283	27.566	-4.819	-25.716	1.00	0.00	C
ATOM	4475	OG	SER A 283	27.142	-4.757	-27.068	1.00	0.00	O
ATOM	4476	H	SER A 283	29.161	-6.257	-23.709	1.00	0.00	H
ATOM	4477	HA	SER A 283	26.713	-6.743	-25.315	1.00	0.00	H
ATOM	4478	HB2	SER A 283	26.842	-4.304	-25.087	1.00	0.00	H
ATOM	4479	HB3	SER A 283	28.530	-4.315	-25.618	1.00	0.00	H
ATOM	4480	HG	SER A 283	27.785	-5.220	-27.620	1.00	0.00	H
ATOM	4481	N	ARG A 284	28.136	-7.689	-27.207	1.00	0.00	N
ATOM	4482	CA	ARG A 284	28.914	-8.449	-28.215	1.00	0.00	C
ATOM	4483	C	ARG A 284	29.420	-7.589	-29.397	1.00	0.00	C
ATOM	4484	O	ARG A 284	28.713	-6.634	-29.742	1.00	0.00	O
ATOM	4485	CB	ARG A 284	28.085	-9.670	-28.681	1.00	0.00	C
ATOM	4486	CG	ARG A 284	27.147	-9.478	-29.889	1.00	0.00	C
ATOM	4487	CD	ARG A 284	26.108	-8.354	-29.782	1.00	0.00	C
ATOM	4488	NE	ARG A 284	25.513	-8.047	-31.097	1.00	0.00	N
ATOM	4489	CZ	ARG A 284	25.760	-7.007	-31.873	1.00	0.00	C
ATOM	4490	NH1	ARG A 284	26.658	-6.110	-31.603	1.00	0.00	N
ATOM	4491	NH2	ARG A 284	25.081	-6.808	-32.956	1.00	0.00	N
ATOM	4492	H	ARG A 284	27.124	-7.683	-27.287	1.00	0.00	H
ATOM	4493	HA	ARG A 284	29.803	-8.833	-27.707	1.00	0.00	H
ATOM	4494	HB2	ARG A 284	28.788	-10.450	-28.966	1.00	0.00	H
ATOM	4495	HB3	ARG A 284	27.508	-10.060	-27.840	1.00	0.00	H
ATOM	4496	HG2	ARG A 284	26.617	-10.415	-30.066	1.00	0.00	H
ATOM	4497	HG3	ARG A 284	27.763	-9.298	-30.761	1.00	0.00	H
ATOM	4498	HD2	ARG A 284	25.325	-8.667	-29.097	1.00	0.00	H
ATOM	4499	HD3	ARG A 284	26.544	-7.456	-29.357	1.00	0.00	H
ATOM	4500	HE	ARG A 284	24.695	-8.588	-31.360	1.00	0.00	H
ATOM	4501	HH11	ARG A 284	27.328	-6.265	-30.862	1.00	0.00	H

ATOM	4502	HH12	ARG A 284	26.705	-5.297	-32.204	1.00	0.00	H
ATOM	4503	HH21	ARG A 284	24.466	-7.528	-33.321	1.00	0.00	H
ATOM	4504	HH22	ARG A 284	25.262	-5.967	-33.488	1.00	0.00	H
ATOM	4505	N	PRO A 285	30.507	-7.957	-30.109	1.00	0.00	N
ATOM	4506	CA	PRO A 285	30.891	-7.349	-31.393	1.00	0.00	C
ATOM	4507	C	PRO A 285	29.763	-7.421	-32.424	1.00	0.00	C
ATOM	4508	O	PRO A 285	29.118	-8.457	-32.563	1.00	0.00	O
ATOM	4509	CB	PRO A 285	32.114	-8.123	-31.905	1.00	0.00	C
ATOM	4510	CG	PRO A 285	32.098	-9.419	-31.101	1.00	0.00	C
ATOM	4511	CD	PRO A 285	31.452	-9.011	-29.779	1.00	0.00	C
ATOM	4512	HA	PRO A 285	31.175	-6.309	-31.242	1.00	0.00	H
ATOM	4513	HB2	PRO A 285	32.062	-8.325	-32.977	1.00	0.00	H
ATOM	4514	HB3	PRO A 285	33.027	-7.574	-31.692	1.00	0.00	H
ATOM	4515	HG2	PRO A 285	31.467	-10.155	-31.602	1.00	0.00	H
ATOM	4516	HG3	PRO A 285	33.106	-9.808	-30.959	1.00	0.00	H
ATOM	4517	HD2	PRO A 285	32.214	-8.601	-29.113	1.00	0.00	H
ATOM	4518	HD3	PRO A 285	30.975	-9.875	-29.320	1.00	0.00	H
ATOM	4519	N	GLY A 286	29.500	-6.314	-33.119	1.00	0.00	N
ATOM	4520	CA	GLY A 286	28.614	-6.288	-34.289	1.00	0.00	C
ATOM	4521	C	GLY A 286	29.406	-6.298	-35.591	1.00	0.00	C
ATOM	4522	O	GLY A 286	30.530	-6.783	-35.618	1.00	0.00	O
ATOM	4523	H	GLY A 286	30.129	-5.528	-32.998	1.00	0.00	H
ATOM	4524	HA2	GLY A 286	27.933	-7.140	-34.290	1.00	0.00	H
ATOM	4525	HA3	GLY A 286	28.023	-5.378	-34.263	1.00	0.00	H
ATOM	4526	N	GLN A 287	28.922	-5.534	-36.565	1.00	0.00	N
ATOM	4527	CA	GLN A 287	29.726	-4.814	-37.553	1.00	0.00	C
ATOM	4528	C	GLN A 287	29.271	-3.339	-37.550	1.00	0.00	C
ATOM	4529	O	GLN A 287	28.921	-2.813	-36.493	1.00	0.00	O
ATOM	4530	CB	GLN A 287	29.648	-5.525	-38.920	1.00	0.00	C
ATOM	4531	CG	GLN A 287	30.257	-6.936	-38.841	1.00	0.00	C

ATOM	4532	CD	GLN A 287	30.789	-7.450	-40.172	1.00	0.00	C
ATOM	4533	OE1	GLN A 287	30.216	-7.275	-41.234	1.00	0.00	O
ATOM	4534	NE2	GLN A 287	31.918	-8.122	-40.165	1.00	0.00	N
ATOM	4535	H	GLN A 287	27.972	-5.177	-36.466	1.00	0.00	H
ATOM	4536	HA	GLN A 287	30.770	-4.811	-37.238	1.00	0.00	H
ATOM	4537	HB2	GLN A 287	30.224	-4.948	-39.644	1.00	0.00	H
ATOM	4538	HB3	GLN A 287	28.613	-5.585	-39.261	1.00	0.00	H
ATOM	4539	HG2	GLN A 287	31.097	-6.914	-38.148	1.00	0.00	H
ATOM	4540	HG3	GLN A 287	29.519	-7.639	-38.454	1.00	0.00	H
ATOM	4541	HE21	GLN A 287	32.434	-8.213	-39.305	1.00	0.00	H
ATOM	4542	HE22	GLN A 287	32.272	-8.410	-41.056	1.00	0.00	H
ATOM	4543	N	SER A 288	29.408	-2.608	-38.658	1.00	0.00	N
ATOM	4544	CA	SER A 288	29.243	-1.145	-38.701	1.00	0.00	C
ATOM	4545	C	SER A 288	27.787	-0.633	-38.694	1.00	0.00	C
ATOM	4546	O	SER A 288	27.565	0.519	-39.060	1.00	0.00	O
ATOM	4547	CB	SER A 288	30.008	-0.592	-39.908	1.00	0.00	C
ATOM	4548	OG	SER A 288	29.399	-1.019	-41.112	1.00	0.00	O
ATOM	4549	H	SER A 288	29.699	-3.063	-39.511	1.00	0.00	H
ATOM	4550	HA	SER A 288	29.711	-0.733	-37.806	1.00	0.00	H
ATOM	4551	HB2	SER A 288	30.015	0.498	-39.871	1.00	0.00	H
ATOM	4552	HB3	SER A 288	31.039	-0.945	-39.874	1.00	0.00	H
ATOM	4553	HG	SER A 288	28.564	-0.541	-41.193	1.00	0.00	H
ATOM	4554	N	GLN A 289	26.794	-1.485	-38.414	1.00	0.00	N
ATOM	4555	CA	GLN A 289	25.361	-1.137	-38.421	1.00	0.00	C
ATOM	4556	C	GLN A 289	24.715	-1.346	-37.037	1.00	0.00	C
ATOM	4557	O	GLN A 289	24.024	-0.459	-36.543	1.00	0.00	O
ATOM	4558	CB	GLN A 289	24.688	-1.946	-39.547	1.00	0.00	C
ATOM	4559	CG	GLN A 289	23.149	-1.946	-39.566	1.00	0.00	C
ATOM	4560	CD	GLN A 289	22.488	-0.656	-40.041	1.00	0.00	C
ATOM	4561	OE1	GLN A 289	23.092	0.389	-40.212	1.00	0.00	O

ATOM	4562	NE2	GLN A 289	21.204	-0.705	-40.325	1.00	0.00	N
ATOM	4563	H	GLN A 289	27.040	-2.430	-38.150	1.00	0.00	H
ATOM	4564	HA	GLN A 289	25.237	-0.079	-38.661	1.00	0.00	H
ATOM	4565	HB2	GLN A 289	25.054	-1.589	-40.511	1.00	0.00	H
ATOM	4566	HB3	GLN A 289	25.007	-2.982	-39.450	1.00	0.00	H
ATOM	4567	HG2	GLN A 289	22.769	-2.172	-38.573	1.00	0.00	H
ATOM	4568	HG3	GLN A 289	22.827	-2.748	-40.231	1.00	0.00	H
ATOM	4569	HE21	GLN A 289	20.720	-1.590	-40.283	1.00	0.00	H
ATOM	4570	HE22	GLN A 289	20.749	0.175	-40.494	1.00	0.00	H
ATOM	4571	N	CYS A 290	25.108	-2.403	-36.322	1.00	0.00	N
ATOM	4572	CA	CYS A 290	24.735	-2.694	-34.935	1.00	0.00	C
ATOM	4573	C	CYS A 290	25.978	-3.091	-34.092	1.00	0.00	C
ATOM	4574	O	CYS A 290	26.039	-4.225	-33.598	1.00	0.00	O
ATOM	4575	CB	CYS A 290	23.617	-3.757	-34.952	1.00	0.00	C
ATOM	4576	SG	CYS A 290	22.037	-3.172	-35.631	1.00	0.00	S
ATOM	4577	H	CYS A 290	25.664	-3.112	-36.797	1.00	0.00	H
ATOM	4578	HA	CYS A 290	24.319	-1.796	-34.477	1.00	0.00	H
ATOM	4579	HB2	CYS A 290	23.957	-4.601	-35.549	1.00	0.00	H
ATOM	4580	HB3	CYS A 290	23.438	-4.109	-33.936	1.00	0.00	H
ATOM	4581	N	PRO A 291	26.996	-2.210	-33.939	1.00	0.00	N
ATOM	4582	CA	PRO A 291	28.217	-2.450	-33.146	1.00	0.00	C
ATOM	4583	C	PRO A 291	27.943	-2.540	-31.630	1.00	0.00	C
ATOM	4584	O	PRO A 291	26.814	-2.340	-31.186	1.00	0.00	O
ATOM	4585	CB	PRO A 291	29.138	-1.266	-33.472	1.00	0.00	C
ATOM	4586	CG	PRO A 291	28.155	-0.132	-33.747	1.00	0.00	C
ATOM	4587	CD	PRO A 291	27.021	-0.852	-34.470	1.00	0.00	C
ATOM	4588	HA	PRO A 291	28.701	-3.370	-33.471	1.00	0.00	H
ATOM	4589	HB2	PRO A 291	29.820	-1.019	-32.658	1.00	0.00	H
ATOM	4590	HB3	PRO A 291	29.705	-1.479	-34.378	1.00	0.00	H
ATOM	4591	HG2	PRO A 291	28.599	0.648	-34.367	1.00	0.00	H

ATOM	4592	HG3 PRO A 291	27.791	0.281	-32.804	1.00	0.00	H
ATOM	4593	HD2 PRO A 291	26.078	-0.331	-34.299	1.00	0.00	H
ATOM	4594	HD3 PRO A 291	27.242	-0.885	-35.538	1.00	0.00	H
ATOM	4595	N ARG A 292	28.974	-2.818	-30.810	1.00	0.00	N
ATOM	4596	CA ARG A 292	28.834	-2.867	-29.334	1.00	0.00	C
ATOM	4597	C ARG A 292	28.155	-1.619	-28.757	1.00	0.00	C
ATOM	4598	O ARG A 292	28.538	-0.498	-29.079	1.00	0.00	O
ATOM	4599	CB ARG A 292	30.183	-3.090	-28.615	1.00	0.00	C
ATOM	4600	CG ARG A 292	30.550	-4.571	-28.567	1.00	0.00	C
ATOM	4601	CD ARG A 292	31.876	-4.925	-27.891	1.00	0.00	C
ATOM	4602	NE ARG A 292	31.867	-4.848	-26.423	1.00	0.00	N
ATOM	4603	CZ ARG A 292	32.892	-4.379	-25.733	1.00	0.00	C
ATOM	4604	NH1 ARG A 292	33.262	-4.972	-24.638	1.00	0.00	N
ATOM	4605	NH2 ARG A 292	33.638	-3.397	-26.146	1.00	0.00	N
ATOM	4606	H ARG A 292	29.881	-2.976	-31.229	1.00	0.00	H
ATOM	4607	HA ARG A 292	28.168	-3.697	-29.112	1.00	0.00	H
ATOM	4608	HB2 ARG A 292	30.111	-2.740	-27.586	1.00	0.00	H
ATOM	4609	HB3 ARG A 292	30.958	-2.517	-29.118	1.00	0.00	H
ATOM	4610	HG2 ARG A 292	29.759	-5.104	-28.048	1.00	0.00	H
ATOM	4611	HG3 ARG A 292	30.606	-4.923	-29.595	1.00	0.00	H
ATOM	4612	HD2 ARG A 292	32.087	-5.968	-28.133	1.00	0.00	H
ATOM	4613	HD3 ARG A 292	32.678	-4.326	-28.311	1.00	0.00	H
ATOM	4614	HE ARG A 292	31.346	-5.594	-25.980	1.00	0.00	H
ATOM	4615	HH11 ARG A 292	32.906	-5.888	-24.440	1.00	0.00	H
ATOM	4616	HH12 ARG A 292	34.176	-4.727	-24.261	1.00	0.00	H
ATOM	4617	HH21 ARG A 292	33.468	-3.022	-27.073	1.00	0.00	H
ATOM	4618	HH22 ARG A 292	34.607	-3.434	-25.862	1.00	0.00	H
ATOM	4619	N PHE A 293	27.319	-1.858	-27.746	1.00	0.00	N
ATOM	4620	CA PHE A 293	26.547	-0.867	-26.988	1.00	0.00	C
ATOM	4621	C PHE A 293	25.545	-0.047	-27.821	1.00	0.00	C

ATOM	4622	O	PHE A 293	25.055	0.979	-27.347	1.00	0.00	O
ATOM	4623	CB	PHE A 293	27.466	-0.017	-26.092	1.00	0.00	C
ATOM	4624	CG	PHE A 293	28.371	-0.830	-25.183	1.00	0.00	C
ATOM	4625	CD1	PHE A 293	27.847	-1.411	-24.014	1.00	0.00	C
ATOM	4626	CD2	PHE A 293	29.730	-1.010	-25.502	1.00	0.00	C
ATOM	4627	CE1	PHE A 293	28.674	-2.178	-23.174	1.00	0.00	C
ATOM	4628	CE2	PHE A 293	30.557	-1.778	-24.661	1.00	0.00	C
ATOM	4629	CZ	PHE A 293	30.027	-2.367	-23.499	1.00	0.00	C
ATOM	4630	H	PHE A 293	27.116	-2.826	-27.544	1.00	0.00	H
ATOM	4631	HA	PHE A 293	25.914	-1.441	-26.312	1.00	0.00	H
ATOM	4632	HB2	PHE A 293	26.846	0.625	-25.464	1.00	0.00	H
ATOM	4633	HB3	PHE A 293	28.073	0.638	-26.718	1.00	0.00	H
ATOM	4634	HD1	PHE A 293	26.811	-1.252	-23.754	1.00	0.00	H
ATOM	4635	HD2	PHE A 293	30.140	-0.552	-26.391	1.00	0.00	H
ATOM	4636	HE1	PHE A 293	28.276	-2.603	-22.265	1.00	0.00	H
ATOM	4637	HE2	PHE A 293	31.604	-1.898	-24.897	1.00	0.00	H
ATOM	4638	HZ	PHE A 293	30.664	-2.941	-22.837	1.00	0.00	H
ATOM	4639	N	ASN A 294	25.114	-0.550	-28.986	1.00	0.00	N
ATOM	4640	CA	ASN A 294	23.877	-0.066	-29.589	1.00	0.00	C
ATOM	4641	C	ASN A 294	22.645	-0.597	-28.831	1.00	0.00	C
ATOM	4642	O	ASN A 294	22.563	-1.768	-28.463	1.00	0.00	O
ATOM	4643	CB	ASN A 294	23.820	-0.390	-31.089	1.00	0.00	C
ATOM	4644	CG	ASN A 294	22.542	0.156	-31.708	1.00	0.00	C
ATOM	4645	OD1	ASN A 294	22.216	1.324	-31.546	1.00	0.00	O
ATOM	4646	ND2	ASN A 294	21.611	-0.706	-32.032	1.00	0.00	N
ATOM	4647	H	ASN A 294	25.459	-1.454	-29.284	1.00	0.00	H
ATOM	4648	HA	ASN A 294	23.868	1.023	-29.502	1.00	0.00	H
ATOM	4649	HB2	ASN A 294	24.668	0.067	-31.597	1.00	0.00	H
ATOM	4650	HB3	ASN A 294	23.876	-1.464	-31.242	1.00	0.00	H
ATOM	4651	HD21	ASN A 294	21.680	-1.666	-31.723	1.00	0.00	H

ATOM	4652	HD22	ASN	A 294	20.714	-0.331	-32.322	1.00	0.00	H
ATOM	4653	N	VAL	A 295	21.638	0.266	-28.711	1.00	0.00	N
ATOM	4654	CA	VAL	A 295	20.312	-0.046	-28.147	1.00	0.00	C
ATOM	4655	C	VAL	A 295	19.185	0.477	-29.057	1.00	0.00	C
ATOM	4656	O	VAL	A 295	18.021	0.120	-28.887	1.00	0.00	O
ATOM	4657	CB	VAL	A 295	20.211	0.502	-26.700	1.00	0.00	C
ATOM	4658	CG1	VAL	A 295	18.941	0.051	-25.965	1.00	0.00	C
ATOM	4659	CG2	VAL	A 295	21.400	0.070	-25.823	1.00	0.00	C
ATOM	4660	H	VAL	A 295	21.803	1.201	-29.053	1.00	0.00	H
ATOM	4661	HA	VAL	A 295	20.196	-1.130	-28.104	1.00	0.00	H
ATOM	4662	HB	VAL	A 295	20.209	1.592	-26.742	1.00	0.00	H
ATOM	4663	HG21	VAL	A 295	22.329	0.501	-26.197	1.00	0.00	H
ATOM	4664	HG22	VAL	A 295	21.489	-1.018	-25.825	1.00	0.00	H
ATOM	4665	HG23	VAL	A 295	21.265	0.419	-24.799	1.00	0.00	H
ATOM	4666	HG11	VAL	A 295	18.057	0.476	-26.437	1.00	0.00	H
ATOM	4667	HG12	VAL	A 295	18.871	-1.037	-25.979	1.00	0.00	H
ATOM	4668	HG13	VAL	A 295	18.963	0.396	-24.931	1.00	0.00	H
ATOM	4669	N	CYS	A 296	19.512	1.294	-30.066	1.00	0.00	N
ATOM	4670	CA	CYS	A 296	18.532	1.829	-31.004	1.00	0.00	C
ATOM	4671	C	CYS	A 296	18.097	0.776	-32.034	1.00	0.00	C
ATOM	4672	O	CYS	A 296	18.969	0.156	-32.645	1.00	0.00	O
ATOM	4673	CB	CYS	A 296	19.099	3.074	-31.688	1.00	0.00	C
ATOM	4674	SG	CYS	A 296	19.005	4.528	-30.616	1.00	0.00	S
ATOM	4675	H	CYS	A 296	20.487	1.419	-30.300	1.00	0.00	H
ATOM	4676	HA	CYS	A 296	17.668	2.139	-30.426	1.00	0.00	H
ATOM	4677	HB2	CYS	A 296	20.134	2.893	-31.983	1.00	0.00	H
ATOM	4678	HB3	CYS	A 296	18.525	3.278	-32.595	1.00	0.00	H
ATOM	4679	N	PRO	A 297	16.788	0.623	-32.317	1.00	0.00	N
ATOM	4680	CA	PRO	A 297	16.325	-0.359	-33.288	1.00	0.00	C
ATOM	4681	C	PRO	A 297	16.806	-0.068	-34.708	1.00	0.00	C

ATOM	4682	O	PRO A 297	16.348	0.886	-35.332	1.00	0.00	O
ATOM	4683	CB	PRO A 297	14.800	-0.382	-33.183	1.00	0.00	C
ATOM	4684	CG	PRO A 297	14.533	0.135	-31.773	1.00	0.00	C
ATOM	4685	CD	PRO A 297	15.657	1.141	-31.558	1.00	0.00	C
ATOM	4686	HA	PRO A 297	16.704	-1.326	-32.984	1.00	0.00	H
ATOM	4687	HB2	PRO A 297	14.349	0.302	-33.904	1.00	0.00	H
ATOM	4688	HB3	PRO A 297	14.423	-1.393	-33.325	1.00	0.00	H
ATOM	4689	HG2	PRO A 297	13.554	0.605	-31.688	1.00	0.00	H
ATOM	4690	HG3	PRO A 297	14.636	-0.682	-31.060	1.00	0.00	H
ATOM	4691	HD2	PRO A 297	15.868	1.204	-30.490	1.00	0.00	H
ATOM	4692	HD3	PRO A 297	15.372	2.117	-31.950	1.00	0.00	H
ATOM	4693	N	GLU A 298	17.544	-1.007	-35.297	1.00	0.00	N
ATOM	4694	CA	GLU A 298	18.062	-0.888	-36.661	1.00	0.00	C
ATOM	4695	C	GLU A 298	17.939	-2.165	-37.487	1.00	0.00	C
ATOM	4696	O	GLU A 298	17.790	-3.278	-36.973	1.00	0.00	O
ATOM	4697	CB	GLU A 298	19.510	-0.356	-36.672	1.00	0.00	C
ATOM	4698	CG	GLU A 298	19.604	1.177	-36.590	1.00	0.00	C
ATOM	4699	CD	GLU A 298	18.743	1.918	-37.633	1.00	0.00	C
ATOM	4700	OE1	GLU A 298	18.409	1.311	-38.684	1.00	0.00	O
ATOM	4701	OE2	GLU A 298	18.120	2.926	-37.224	1.00	0.00	O
ATOM	4702	H	GLU A 298	17.859	-1.792	-34.747	1.00	0.00	H
ATOM	4703	HA	GLU A 298	17.433	-0.179	-37.187	1.00	0.00	H
ATOM	4704	HB2	GLU A 298	20.069	-0.800	-35.847	1.00	0.00	H
ATOM	4705	HB3	GLU A 298	19.998	-0.664	-37.598	1.00	0.00	H
ATOM	4706	HG2	GLU A 298	19.304	1.484	-35.585	1.00	0.00	H
ATOM	4707	HG3	GLU A 298	20.648	1.466	-36.722	1.00	0.00	H
ATOM	4708	N	VAL A 299	17.913	-1.979	-38.808	1.00	0.00	N
ATOM	4709	CA	VAL A 299	17.830	-3.079	-39.773	1.00	0.00	C
ATOM	4710	C	VAL A 299	19.177	-3.800	-39.835	1.00	0.00	C
ATOM	4711	O	VAL A 299	20.052	-3.424	-40.612	1.00	0.00	O



ATOM	4712	CB	VAL A 299	17.370	-2.587	-41.161	1.00	0.00	C
ATOM	4713	CG1	VAL A 299	17.185	-3.761	-42.132	1.00	0.00	C
ATOM	4714	CG2	VAL A 299	16.025	-1.855	-41.073	1.00	0.00	C
ATOM	4715	H	VAL A 299	18.055	-1.030	-39.148	1.00	0.00	H
ATOM	4716	HA	VAL A 299	17.085	-3.790	-39.415	1.00	0.00	H
ATOM	4717	HB	VAL A 299	18.107	-1.898	-41.574	1.00	0.00	H
ATOM	4718	HG21	VAL A 299	16.152	-0.932	-40.508	1.00	0.00	H
ATOM	4719	HG22	VAL A 299	15.287	-2.480	-40.574	1.00	0.00	H
ATOM	4720	HG23	VAL A 299	15.672	-1.588	-42.068	1.00	0.00	H
ATOM	4721	HG11	VAL A 299	18.136	-4.269	-42.289	1.00	0.00	H
ATOM	4722	HG12	VAL A 299	16.843	-3.382	-43.095	1.00	0.00	H
ATOM	4723	HG13	VAL A 299	16.459	-4.467	-41.728	1.00	0.00	H
ATOM	4724	N	CYS A 300	19.344	-4.827	-39.004	1.00	0.00	N
ATOM	4725	CA	CYS A 300	20.543	-5.663	-38.949	1.00	0.00	C
ATOM	4726	C	CYS A 300	20.222	-7.121	-38.584	1.00	0.00	C
ATOM	4727	O	CYS A 300	19.201	-7.409	-37.948	1.00	0.00	O
ATOM	4728	CB	CYS A 300	21.556	-5.042	-37.976	1.00	0.00	C
ATOM	4729	SG	CYS A 300	21.033	-4.838	-36.252	1.00	0.00	S
ATOM	4730	H	CYS A 300	18.661	-4.951	-38.269	1.00	0.00	H
ATOM	4731	HA	CYS A 300	21.008	-5.672	-39.936	1.00	0.00	H
ATOM	4732	HB2	CYS A 300	22.462	-5.644	-37.980	1.00	0.00	H
ATOM	4733	HB3	CYS A 300	21.826	-4.063	-38.362	1.00	0.00	H
ATOM	4734	N	TRP A 301	21.155	-8.009	-38.940	1.00	0.00	N
ATOM	4735	CA	TRP A 301	21.322	-9.360	-38.400	1.00	0.00	C
ATOM	4736	C	TRP A 301	22.824	-9.643	-38.283	1.00	0.00	C
ATOM	4737	O	TRP A 301	23.486	-9.941	-39.274	1.00	0.00	O
ATOM	4738	CB	TRP A 301	20.620	-10.421	-39.260	1.00	0.00	C
ATOM	4739	CG	TRP A 301	20.896	-11.841	-38.840	1.00	0.00	C
ATOM	4740	CD1	TRP A 301	20.707	-12.337	-37.595	1.00	0.00	C
ATOM	4741	CD2	TRP A 301	21.484	-12.940	-39.606	1.00	0.00	C

ATOM	4742	NE1 TRP A 301	21.059	-13.669	-37.556	1.00	0.00	N
ATOM	4743	CE2 TRP A 301	21.547	-14.098	-38.771	1.00	0.00	C
ATOM	4744	CE3 TRP A 301	21.986	-13.083	-40.921	1.00	0.00	C
ATOM	4745	CZ2 TRP A 301	22.038	-15.331	-39.216	1.00	0.00	C
ATOM	4746	CZ3 TRP A 301	22.491	-14.317	-41.378	1.00	0.00	C
ATOM	4747	CH2 TRP A 301	22.510	-15.443	-40.535	1.00	0.00	C
ATOM	4748	H TRP A 301	21.952	-7.655	-39.452	1.00	0.00	H
ATOM	4749	HA TRP A 301	20.886	-9.402	-37.405	1.00	0.00	H
ATOM	4750	HB2 TRP A 301	19.544	-10.248	-39.221	1.00	0.00	H
ATOM	4751	HB3 TRP A 301	20.940	-10.301	-40.296	1.00	0.00	H
ATOM	4752	HD1 TRP A 301	20.323	-11.764	-36.761	1.00	0.00	H
ATOM	4753	HE3 TRP A 301	21.995	-12.218	-41.569	1.00	0.00	H
ATOM	4754	HZ2 TRP A 301	22.071	-16.182	-38.551	1.00	0.00	H
ATOM	4755	HZ3 TRP A 301	22.877	-14.399	-42.385	1.00	0.00	H
ATOM	4756	HH2 TRP A 301	22.905	-16.384	-40.892	1.00	0.00	H
ATOM	4757	HE1 TRP A 301	21.002	-14.237	-36.724	1.00	0.00	H
ATOM	4758	N GLU A 302	23.391	-9.299	-37.129	1.00	0.00	N
ATOM	4759	CA GLU A 302	24.831	-9.325	-36.871	1.00	0.00	C
ATOM	4760	C GLU A 302	25.118	-9.435	-35.369	1.00	0.00	C
ATOM	4761	O GLU A 302	24.330	-9.000	-34.522	1.00	0.00	O
ATOM	4762	CB GLU A 302	25.526	-8.089	-37.476	1.00	0.00	C
ATOM	4763	CG GLU A 302	25.227	-6.777	-36.738	1.00	0.00	C
ATOM	4764	CD GLU A 302	25.537	-5.563	-37.618	1.00	0.00	C
ATOM	4765	OE1 GLU A 302	24.724	-5.305	-38.528	1.00	0.00	O
ATOM	4766	OE2 GLU A 302	26.351	-4.724	-37.167	1.00	0.00	O
ATOM	4767	H GLU A 302	22.786	-9.091	-36.344	1.00	0.00	H
ATOM	4768	HA GLU A 302	25.246	-10.208	-37.359	1.00	0.00	H
ATOM	4769	HB2 GLU A 302	25.220	-7.997	-38.518	1.00	0.00	H
ATOM	4770	HB3 GLU A 302	26.604	-8.253	-37.464	1.00	0.00	H
ATOM	4771	HG2 GLU A 302	24.171	-6.748	-36.461	1.00	0.00	H

ATOM	4772	HG3	GLU	A 302	25.815	-6.739	-35.817	1.00	0.00	H
ATOM	4773	N	GLY	A 303	26.263	-10.021	-35.039	1.00	0.00	N
ATOM	4774	CA	GLY	A 303	26.666	-10.348	-33.677	1.00	0.00	C
ATOM	4775	C	GLY	A 303	27.616	-11.544	-33.669	1.00	0.00	C
ATOM	4776	O	GLY	A 303	27.719	-12.250	-34.674	1.00	0.00	O
ATOM	4777	H	GLY	A 303	26.848	-10.393	-35.775	1.00	0.00	H
ATOM	4778	HA2	GLY	A 303	27.147	-9.486	-33.229	1.00	0.00	H
ATOM	4779	HA3	GLY	A 303	25.790	-10.601	-33.081	1.00	0.00	H
ATOM	4780	N	THR	A 304	28.075	-11.935	-32.480	1.00	0.00	N
ATOM	4781	CA	THR	A 304	28.517	-13.313	-32.224	1.00	0.00	C
ATOM	4782	C	THR	A 304	27.970	-13.847	-30.900	1.00	0.00	C
ATOM	4783	O	THR	A 304	27.530	-13.095	-30.025	1.00	0.00	O
ATOM	4784	CB	THR	A 304	30.037	-13.532	-32.336	1.00	0.00	C
ATOM	4785	OG1	THR	A 304	30.704	-13.230	-31.140	1.00	0.00	O
ATOM	4786	CG2	THR	A 304	30.745	-12.780	-33.460	1.00	0.00	C
ATOM	4787	H	THR	A 304	27.949	-11.332	-31.683	1.00	0.00	H
ATOM	4788	HA	THR	A 304	28.084	-13.941	-32.998	1.00	0.00	H
ATOM	4789	HB	THR	A 304	30.173	-14.597	-32.521	1.00	0.00	H
ATOM	4790	HG21	THR	A 304	31.800	-13.058	-33.475	1.00	0.00	H
ATOM	4791	HG22	THR	A 304	30.300	-13.047	-34.418	1.00	0.00	H
ATOM	4792	HG23	THR	A 304	30.665	-11.704	-33.309	1.00	0.00	H
ATOM	4793	HG1	THR	A 304	30.636	-12.260	-31.068	1.00	0.00	H
ATOM	4794	N	TYR	A 305	27.905	-15.172	-30.780	1.00	0.00	N
ATOM	4795	CA	TYR	A 305	27.410	-15.864	-29.593	1.00	0.00	C
ATOM	4796	C	TYR	A 305	28.416	-15.743	-28.428	1.00	0.00	C
ATOM	4797	O	TYR	A 305	29.510	-16.304	-28.493	1.00	0.00	O
ATOM	4798	CB	TYR	A 305	27.116	-17.312	-30.015	1.00	0.00	C
ATOM	4799	CG	TYR	A 305	26.492	-18.197	-28.959	1.00	0.00	C
ATOM	4800	CD1	TYR	A 305	25.155	-18.618	-29.070	1.00	0.00	C
ATOM	4801	CD2	TYR	A 305	27.265	-18.636	-27.877	1.00	0.00	C

ATOM	4802	CE1 TYR A 305	24.593	-19.475	-28.100	1.00	0.00	C
ATOM	4803	CE2 TYR A 305	26.712	-19.482	-26.906	1.00	0.00	C
ATOM	4804	CZ TYR A 305	25.368	-19.888	-26.996	1.00	0.00	C
ATOM	4805	OH TYR A 305	24.827	-20.648	-26.016	1.00	0.00	O
ATOM	4806	H TYR A 305	28.273	-15.733	-31.532	1.00	0.00	H
ATOM	4807	HA TYR A 305	26.472	-15.403	-29.282	1.00	0.00	H
ATOM	4808	HB2 TYR A 305	28.045	-17.775	-30.347	1.00	0.00	H
ATOM	4809	HB3 TYR A 305	26.451	-17.289	-30.880	1.00	0.00	H
ATOM	4810	HD1 TYR A 305	24.548	-18.254	-29.885	1.00	0.00	H
ATOM	4811	HD2 TYR A 305	28.289	-18.311	-27.771	1.00	0.00	H
ATOM	4812	HE1 TYR A 305	23.555	-19.776	-28.156	1.00	0.00	H
ATOM	4813	HE2 TYR A 305	27.315	-19.797	-26.068	1.00	0.00	H
ATOM	4814	HH TYR A 305	24.069	-21.178	-26.360	1.00	0.00	H
ATOM	4815	N ASN A 306	28.004	-15.100	-27.330	1.00	0.00	N
ATOM	4816	CA ASN A 306	28.809	-14.855	-26.126	1.00	0.00	C
ATOM	4817	C ASN A 306	27.963	-15.148	-24.872	1.00	0.00	C
ATOM	4818	O ASN A 306	27.151	-14.301	-24.499	1.00	0.00	O
ATOM	4819	CB ASN A 306	29.293	-13.388	-26.116	1.00	0.00	C
ATOM	4820	CG ASN A 306	30.307	-13.048	-27.189	1.00	0.00	C
ATOM	4821	OD1 ASN A 306	31.470	-12.831	-26.911	1.00	0.00	O
ATOM	4822	ND2 ASN A 306	29.876	-12.792	-28.399	1.00	0.00	N
ATOM	4823	H ASN A 306	27.062	-14.731	-27.310	1.00	0.00	H
ATOM	4824	HA ASN A 306	29.679	-15.507	-26.121	1.00	0.00	H
ATOM	4825	HB2 ASN A 306	28.439	-12.718	-26.214	1.00	0.00	H
ATOM	4826	HB3 ASN A 306	29.761	-13.189	-25.151	1.00	0.00	H
ATOM	4827	HD21 ASN A 306	28.911	-12.939	-28.650	1.00	0.00	H
ATOM	4828	HD22 ASN A 306	30.567	-12.678	-29.128	1.00	0.00	H
ATOM	4829	N ASP A 307	28.012	-16.376	-24.334	1.00	0.00	N
ATOM	4830	CA ASP A 307	27.130	-16.788	-23.224	1.00	0.00	C
ATOM	4831	C ASP A 307	27.815	-16.835	-21.845	1.00	0.00	C

ATOM	4832	O	ASP A 307	29.041	-16.904	-21.711	1.00	0.00	O
ATOM	4833	CB	ASP A 307	26.279	-18.029	-23.577	1.00	0.00	C
ATOM	4834	CG	ASP A 307	26.884	-19.413	-23.321	1.00	0.00	C
ATOM	4835	OD1	ASP A 307	27.427	-19.634	-22.221	1.00	0.00	O
ATOM	4836	OD2	ASP A 307	26.378	-20.368	-23.948	1.00	0.00	O
ATOM	4837	H	ASP A 307	28.786	-16.979	-24.582	1.00	0.00	H
ATOM	4838	HA	ASP A 307	26.382	-16.002	-23.115	1.00	0.00	H
ATOM	4839	HB2	ASP A 307	25.990	-17.961	-24.626	1.00	0.00	H
ATOM	4840	HB3	ASP A 307	25.359	-17.971	-22.993	1.00	0.00	H
ATOM	4841	N	ALA A 308	26.976	-16.691	-20.817	1.00	0.00	N
ATOM	4842	CA	ALA A 308	27.347	-16.546	-19.416	1.00	0.00	C
ATOM	4843	C	ALA A 308	26.333	-17.265	-18.512	1.00	0.00	C
ATOM	4844	O	ALA A 308	25.180	-17.486	-18.898	1.00	0.00	O
ATOM	4845	CB	ALA A 308	27.440	-15.049	-19.092	1.00	0.00	C
ATOM	4846	H	ALA A 308	25.987	-16.711	-21.012	1.00	0.00	H
ATOM	4847	HA	ALA A 308	28.323	-17.006	-19.256	1.00	0.00	H
ATOM	4848	HB1	ALA A 308	27.742	-14.912	-18.052	1.00	0.00	H
ATOM	4849	HB2	ALA A 308	28.178	-14.575	-19.741	1.00	0.00	H
ATOM	4850	HB3	ALA A 308	26.469	-14.576	-19.246	1.00	0.00	H
ATOM	4851	N	PHE A 309	26.745	-17.555	-17.280	1.00	0.00	N
ATOM	4852	CA	PHE A 309	26.056	-18.434	-16.338	1.00	0.00	C
ATOM	4853	C	PHE A 309	25.835	-17.743	-14.986	1.00	0.00	C
ATOM	4854	O	PHE A 309	26.763	-17.145	-14.444	1.00	0.00	O
ATOM	4855	CB	PHE A 309	26.902	-19.701	-16.195	1.00	0.00	C
ATOM	4856	CG	PHE A 309	26.203	-20.909	-15.605	1.00	0.00	C
ATOM	4857	CD1	PHE A 309	25.847	-21.983	-16.442	1.00	0.00	C
ATOM	4858	CD2	PHE A 309	25.968	-20.999	-14.220	1.00	0.00	C
ATOM	4859	CE1	PHE A 309	25.321	-23.166	-15.894	1.00	0.00	C
ATOM	4860	CE2	PHE A 309	25.403	-22.166	-13.677	1.00	0.00	C
ATOM	4861	CZ	PHE A 309	25.095	-23.255	-14.510	1.00	0.00	C

ATOM	4862	H	PHE A 309	27.704	-17.317	-17.048	1.00	0.00	H
ATOM	4863	HA	PHE A 309	25.096	-18.721	-16.751	1.00	0.00	H
ATOM	4864	HB2	PHE A 309	27.277	-19.980	-17.178	1.00	0.00	H
ATOM	4865	HB3	PHE A 309	27.773	-19.463	-15.587	1.00	0.00	H
ATOM	4866	HD1	PHE A 309	26.003	-21.913	-17.510	1.00	0.00	H
ATOM	4867	HD2	PHE A 309	26.243	-20.185	-13.565	1.00	0.00	H
ATOM	4868	HE1	PHE A 309	25.084	-24.003	-16.540	1.00	0.00	H
ATOM	4869	HE2	PHE A 309	25.230	-22.232	-12.612	1.00	0.00	H
ATOM	4870	HZ	PHE A 309	24.698	-24.166	-14.085	1.00	0.00	H
ATOM	4871	N	LEU A 310	24.639	-17.861	-14.404	1.00	0.00	N
ATOM	4872	CA	LEU A 310	24.291	-17.278	-13.103	1.00	0.00	C
ATOM	4873	C	LEU A 310	24.958	-18.041	-11.939	1.00	0.00	C
ATOM	4874	O	LEU A 310	24.559	-19.159	-11.616	1.00	0.00	O
ATOM	4875	CB	LEU A 310	22.757	-17.266	-13.002	1.00	0.00	C
ATOM	4876	CG	LEU A 310	22.193	-16.566	-11.754	1.00	0.00	C
ATOM	4877	CD1	LEU A 310	22.444	-15.063	-11.800	1.00	0.00	C
ATOM	4878	CD2	LEU A 310	20.685	-16.796	-11.695	1.00	0.00	C
ATOM	4879	H	LEU A 310	23.916	-18.369	-14.889	1.00	0.00	H
ATOM	4880	HA	LEU A 310	24.640	-16.247	-13.086	1.00	0.00	H
ATOM	4881	HB2	LEU A 310	22.412	-18.299	-13.002	1.00	0.00	H
ATOM	4882	HB3	LEU A 310	22.348	-16.777	-13.888	1.00	0.00	H
ATOM	4883	HG	LEU A 310	22.643	-16.980	-10.851	1.00	0.00	H
ATOM	4884	HD11	LEU A 310	21.924	-14.577	-10.978	1.00	0.00	H
ATOM	4885	HD12	LEU A 310	22.079	-14.657	-12.742	1.00	0.00	H
ATOM	4886	HD13	LEU A 310	23.505	-14.857	-11.706	1.00	0.00	H
ATOM	4887	HD21	LEU A 310	20.487	-17.860	-11.590	1.00	0.00	H
ATOM	4888	HD22	LEU A 310	20.257	-16.264	-10.849	1.00	0.00	H
ATOM	4889	HD23	LEU A 310	20.213	-16.429	-12.607	1.00	0.00	H
ATOM	4890	N	ILE A 311	25.961	-17.432	-11.296	1.00	0.00	N
ATOM	4891	CA	ILE A 311	26.731	-18.035	-10.188	1.00	0.00	C

ATOM	4892	C	ILE A 311	26.261	-17.607	-8.787	1.00	0.00	C
ATOM	4893	O	ILE A 311	26.547	-18.307	-7.819	1.00	0.00	O
ATOM	4894	CB	ILE A 311	28.249	-17.820	-10.372	1.00	0.00	C
ATOM	4895	CG1	ILE A 311	28.657	-16.331	-10.332	1.00	0.00	C
ATOM	4896	CG2	ILE A 311	28.746	-18.514	-11.653	1.00	0.00	C
ATOM	4897	CD1	ILE A 311	30.156	-16.137	-10.082	1.00	0.00	C
ATOM	4898	H	ILE A 311	26.187	-16.482	-11.564	1.00	0.00	H
ATOM	4899	HA	ILE A 311	26.570	-19.113	-10.218	1.00	0.00	H
ATOM	4900	HB	ILE A 311	28.735	-18.320	-9.531	1.00	0.00	H
ATOM	4901	HG12	ILE A 311	28.127	-15.829	-9.523	1.00	0.00	H
ATOM	4902	HG13	ILE A 311	28.383	-15.847	-11.270	1.00	0.00	H
ATOM	4903	HG21	ILE A 311	29.834	-18.521	-11.688	1.00	0.00	H
ATOM	4904	HG22	ILE A 311	28.396	-19.547	-11.675	1.00	0.00	H
ATOM	4905	HG23	ILE A 311	28.367	-17.999	-12.536	1.00	0.00	H
ATOM	4906	HD11	ILE A 311	30.372	-15.074	-9.982	1.00	0.00	H
ATOM	4907	HD12	ILE A 311	30.440	-16.641	-9.161	1.00	0.00	H
ATOM	4908	HD13	ILE A 311	30.739	-16.544	-10.905	1.00	0.00	H
ATOM	4909	N	ASP A 312	25.427	-16.568	-8.688	1.00	0.00	N
ATOM	4910	CA	ASP A 312	24.532	-16.325	-7.549	1.00	0.00	C
ATOM	4911	C	ASP A 312	23.263	-15.601	-8.019	1.00	0.00	C
ATOM	4912	O	ASP A 312	23.348	-14.541	-8.635	1.00	0.00	O
ATOM	4913	CB	ASP A 312	25.229	-15.516	-6.443	1.00	0.00	C
ATOM	4914	CG	ASP A 312	24.283	-15.203	-5.274	1.00	0.00	C
ATOM	4915	OD1	ASP A 312	24.347	-14.050	-4.794	1.00	0.00	O
ATOM	4916	OD2	ASP A 312	23.290	-15.943	-5.090	1.00	0.00	O
ATOM	4917	H	ASP A 312	25.279	-16.001	-9.516	1.00	0.00	H
ATOM	4918	HA	ASP A 312	24.240	-17.282	-7.117	1.00	0.00	H
ATOM	4919	HB2	ASP A 312	26.080	-16.084	-6.063	1.00	0.00	H
ATOM	4920	HB3	ASP A 312	25.605	-14.582	-6.866	1.00	0.00	H
ATOM	4921	N	ARG A 313	22.081	-16.113	-7.654	1.00	0.00	N

ATOM	4922	CA	ARG A 313	20.793	-15.452	-7.915	1.00	0.00	C
ATOM	4923	C	ARG A 313	20.472	-14.332	-6.919	1.00	0.00	C
ATOM	4924	O	ARG A 313	19.787	-13.388	-7.299	1.00	0.00	O
ATOM	4925	CB	ARG A 313	19.680	-16.514	-7.971	1.00	0.00	C
ATOM	4926	CG	ARG A 313	18.327	-15.915	-8.402	1.00	0.00	C
ATOM	4927	CD	ARG A 313	17.270	-16.975	-8.732	1.00	0.00	C
ATOM	4928	NE	ARG A 313	17.539	-17.627	-10.024	1.00	0.00	N
ATOM	4929	CZ	ARG A 313	18.023	-18.831	-10.255	1.00	0.00	C
ATOM	4930	NH1	ARG A 313	18.361	-19.655	-9.309	1.00	0.00	N
ATOM	4931	NH2	ARG A 313	18.138	-19.257	-11.471	1.00	0.00	N
ATOM	4932	H	ARG A 313	22.112	-16.879	-6.994	1.00	0.00	H
ATOM	4933	HA	ARG A 313	20.846	-14.968	-8.892	1.00	0.00	H
ATOM	4934	HB2	ARG A 313	19.976	-17.280	-8.688	1.00	0.00	H
ATOM	4935	HB3	ARG A 313	19.570	-16.984	-6.992	1.00	0.00	H
ATOM	4936	HG2	ARG A 313	18.468	-15.281	-9.277	1.00	0.00	H
ATOM	4937	HG3	ARG A 313	17.940	-15.296	-7.592	1.00	0.00	H
ATOM	4938	HD2	ARG A 313	17.206	-17.702	-7.922	1.00	0.00	H
ATOM	4939	HD3	ARG A 313	16.304	-16.472	-8.810	1.00	0.00	H
ATOM	4940	HE	ARG A 313	17.274	-17.097	-10.861	1.00	0.00	H
ATOM	4941	HH11	ARG A 313	18.183	-19.434	-8.351	1.00	0.00	H
ATOM	4942	HH12	ARG A 313	18.696	-20.572	-9.578	1.00	0.00	H
ATOM	4943	HH21	ARG A 313	17.728	-18.651	-12.190	1.00	0.00	H
ATOM	4944	HH22	ARG A 313	18.273	-20.242	-11.664	1.00	0.00	H
ATOM	4945	N	LEU A 314	20.974	-14.388	-5.683	1.00	0.00	N
ATOM	4946	CA	LEU A 314	20.622	-13.433	-4.622	1.00	0.00	C
ATOM	4947	C	LEU A 314	21.212	-12.036	-4.872	1.00	0.00	C
ATOM	4948	O	LEU A 314	20.497	-11.042	-4.797	1.00	0.00	O
ATOM	4949	CB	LEU A 314	21.071	-13.986	-3.256	1.00	0.00	C
ATOM	4950	CG	LEU A 314	20.491	-15.365	-2.884	1.00	0.00	C
ATOM	4951	CD1	LEU A 314	21.051	-15.811	-1.532	1.00	0.00	C



ATOM	4952	CD2 LEU A 314	18.963	-15.344	-2.779	1.00	0.00	C
ATOM	4953	H LEU A 314	21.657	-15.113	-5.465	1.00	0.00	H
ATOM	4954	HA LEU A 314	19.539	-13.308	-4.610	1.00	0.00	H
ATOM	4955	HB2 LEU A 314	20.789	-13.268	-2.485	1.00	0.00	H
ATOM	4956	HB3 LEU A 314	22.159	-14.063	-3.254	1.00	0.00	H
ATOM	4957	HG LEU A 314	20.778	-16.104	-3.631	1.00	0.00	H
ATOM	4958	HD11 LEU A 314	22.138	-15.869	-1.597	1.00	0.00	H
ATOM	4959	HD12 LEU A 314	20.664	-16.798	-1.281	1.00	0.00	H
ATOM	4960	HD13 LEU A 314	20.770	-15.101	-0.755	1.00	0.00	H
ATOM	4961	HD21 LEU A 314	18.604	-16.319	-2.449	1.00	0.00	H
ATOM	4962	HD22 LEU A 314	18.647	-14.583	-2.065	1.00	0.00	H
ATOM	4963	HD23 LEU A 314	18.526	-15.131	-3.753	1.00	0.00	H
ATOM	4964	N ASN A 315	22.463	-11.975	-5.331	1.00	0.00	N
ATOM	4965	CA ASN A 315	23.101	-10.761	-5.855	1.00	0.00	C
ATOM	4966	C ASN A 315	22.906	-10.579	-7.379	1.00	0.00	C
ATOM	4967	O ASN A 315	23.472	-9.645	-7.946	1.00	0.00	O
ATOM	4968	CB ASN A 315	24.593	-10.786	-5.468	1.00	0.00	C
ATOM	4969	CG ASN A 315	24.816	-10.698	-3.971	1.00	0.00	C
ATOM	4970	OD1 ASN A 315	25.105	-9.644	-3.434	1.00	0.00	O
ATOM	4971	ND2 ASN A 315	24.794	-11.802	-3.267	1.00	0.00	N
ATOM	4972	H ASN A 315	23.014	-12.832	-5.309	1.00	0.00	H
ATOM	4973	HA ASN A 315	22.645	-9.889	-5.380	1.00	0.00	H
ATOM	4974	HB2 ASN A 315	25.059	-11.695	-5.849	1.00	0.00	H
ATOM	4975	HB3 ASN A 315	25.095	-9.931	-5.915	1.00	0.00	H
ATOM	4976	HD21 ASN A 315	24.602	-12.690	-3.739	1.00	0.00	H
ATOM	4977	HD22 ASN A 315	24.938	-11.733	-2.282	1.00	0.00	H
ATOM	4978	N TRP A 316	22.248	-11.541	-8.040	1.00	0.00	N
ATOM	4979	CA TRP A 316	22.129	-11.727	-9.497	1.00	0.00	C
ATOM	4980	C TRP A 316	23.455	-11.548	-10.268	1.00	0.00	C
ATOM	4981	O TRP A 316	23.581	-10.745	-11.195	1.00	0.00	O

ATOM	4982	CB	TRP A 316	20.889	-11.013	-10.071	1.00	0.00	C
ATOM	4983	CG	TRP A 316	20.049	-11.914	-10.935	1.00	0.00	C
ATOM	4984	CD1	TRP A 316	18.989	-12.637	-10.500	1.00	0.00	C
ATOM	4985	CD2	TRP A 316	20.267	-12.337	-12.320	1.00	0.00	C
ATOM	4986	NE1	TRP A 316	18.524	-13.452	-11.516	1.00	0.00	N
ATOM	4987	CE2	TRP A 316	19.303	-13.340	-12.645	1.00	0.00	C
ATOM	4988	CE3	TRP A 316	21.202	-12.009	-13.328	1.00	0.00	C
ATOM	4989	CZ2	TRP A 316	19.284	-14.005	-13.878	1.00	0.00	C
ATOM	4990	CZ3	TRP A 316	21.202	-12.680	-14.568	1.00	0.00	C
ATOM	4991	CH2	TRP A 316	20.251	-13.681	-14.844	1.00	0.00	C
ATOM	4992	H	TRP A 316	21.792	-12.237	-7.469	1.00	0.00	H
ATOM	4993	HA	TRP A 316	21.909	-12.786	-9.612	1.00	0.00	H
ATOM	4994	HB2	TRP A 316	20.263	-10.664	-9.248	1.00	0.00	H
ATOM	4995	HB3	TRP A 316	21.187	-10.133	-10.642	1.00	0.00	H
ATOM	4996	HD1	TRP A 316	18.606	-12.621	-9.485	1.00	0.00	H
ATOM	4997	HE3	TRP A 316	21.938	-11.242	-13.128	1.00	0.00	H
ATOM	4998	HZ2	TRP A 316	18.562	-14.789	-14.058	1.00	0.00	H
ATOM	4999	HZ3	TRP A 316	21.949	-12.434	-15.309	1.00	0.00	H
ATOM	5000	HH2	TRP A 316	20.274	-14.211	-15.786	1.00	0.00	H
ATOM	5001	HE1	TRP A 316	17.759	-14.133	-11.416	1.00	0.00	H
ATOM	5002	N	VAL A 317	24.496	-12.241	-9.793	1.00	0.00	N
ATOM	5003	CA	VAL A 317	25.847	-12.242	-10.370	1.00	0.00	C
ATOM	5004	C	VAL A 317	26.014	-13.417	-11.335	1.00	0.00	C
ATOM	5005	O	VAL A 317	25.909	-14.580	-10.944	1.00	0.00	O
ATOM	5006	CB	VAL A 317	26.925	-12.256	-9.269	1.00	0.00	C
ATOM	5007	CG1	VAL A 317	28.345	-12.373	-9.836	1.00	0.00	C
ATOM	5008	CG2	VAL A 317	26.877	-10.958	-8.453	1.00	0.00	C
ATOM	5009	H	VAL A 317	24.279	-12.953	-9.103	1.00	0.00	H
ATOM	5010	HA	VAL A 317	25.978	-11.323	-10.937	1.00	0.00	H
ATOM	5011	HB	VAL A 317	26.748	-13.100	-8.599	1.00	0.00	H

ATOM	5012	HG11	VAL A 317	29.073	-12.322	-9.027	1.00	0.00	H
ATOM	5013	HG12	VAL A 317	28.531	-11.568	-10.547	1.00	0.00	H
ATOM	5014	HG13	VAL A 317	28.471	-13.329	-10.343	1.00	0.00	H
ATOM	5015	HG21	VAL A 317	25.888	-10.835	-8.020	1.00	0.00	H
ATOM	5016	HG22	VAL A 317	27.609	-11.000	-7.646	1.00	0.00	H
ATOM	5017	HG23	VAL A 317	27.087	-10.108	-9.100	1.00	0.00	H
ATOM	5018	N	SER A 318	26.391	-13.112	-12.574	1.00	0.00	N
ATOM	5019	CA	SER A 318	26.748	-14.075	-13.622	1.00	0.00	C
ATOM	5020	C	SER A 318	28.250	-14.068	-13.936	1.00	0.00	C
ATOM	5021	O	SER A 318	28.964	-13.116	-13.618	1.00	0.00	O
ATOM	5022	CB	SER A 318	25.935	-13.795	-14.889	1.00	0.00	C
ATOM	5023	OG	SER A 318	24.554	-13.974	-14.634	1.00	0.00	O
ATOM	5024	H	SER A 318	26.569	-12.133	-12.774	1.00	0.00	H
ATOM	5025	HA	SER A 318	26.495	-15.074	-13.282	1.00	0.00	H
ATOM	5026	HB2	SER A 318	26.115	-12.772	-15.216	1.00	0.00	H
ATOM	5027	HB3	SER A 318	26.244	-14.477	-15.683	1.00	0.00	H
ATOM	5028	HG	SER A 318	24.279	-13.346	-13.956	1.00	0.00	H
ATOM	5029	N	ALA A 319	28.724	-15.114	-14.614	1.00	0.00	N
ATOM	5030	CA	ALA A 319	30.107	-15.283	-15.054	1.00	0.00	C
ATOM	5031	C	ALA A 319	30.175	-15.861	-16.477	1.00	0.00	C
ATOM	5032	O	ALA A 319	29.405	-16.760	-16.813	1.00	0.00	O
ATOM	5033	CB	ALA A 319	30.824	-16.187	-14.049	1.00	0.00	C
ATOM	5034	H	ALA A 319	28.091	-15.888	-14.793	1.00	0.00	H
ATOM	5035	HA	ALA A 319	30.595	-14.310	-15.059	1.00	0.00	H
ATOM	5036	HB1	ALA A 319	31.875	-16.269	-14.323	1.00	0.00	H
ATOM	5037	HB2	ALA A 319	30.375	-17.181	-14.055	1.00	0.00	H
ATOM	5038	HB3	ALA A 319	30.744	-15.758	-13.053	1.00	0.00	H
ATOM	5039	N	GLY A 320	31.096	-15.380	-17.312	1.00	0.00	N
ATOM	5040	CA	GLY A 320	31.263	-15.879	-18.680	1.00	0.00	C
ATOM	5041	C	GLY A 320	32.318	-15.132	-19.488	1.00	0.00	C

ATOM	5042	O	GLY A 320	32.798	-14.077	-19.073	1.00	0.00	O
ATOM	5043	H	GLY A 320	31.707	-14.629	-17.000	1.00	0.00	H
ATOM	5044	HA2	GLY A 320	31.556	-16.925	-18.641	1.00	0.00	H
ATOM	5045	HA3	GLY A 320	30.318	-15.813	-19.218	1.00	0.00	H
ATOM	5046	N	VAL A 321	32.692	-15.693	-20.637	1.00	0.00	N
ATOM	5047	CA	VAL A 321	33.604	-15.043	-21.593	1.00	0.00	C
ATOM	5048	C	VAL A 321	32.809	-14.192	-22.578	1.00	0.00	C
ATOM	5049	O	VAL A 321	31.868	-14.695	-23.201	1.00	0.00	O
ATOM	5050	CB	VAL A 321	34.511	-16.048	-22.328	1.00	0.00	C
ATOM	5051	CG1	VAL A 321	35.590	-15.364	-23.183	1.00	0.00	C
ATOM	5052	CG2	VAL A 321	35.238	-16.966	-21.348	1.00	0.00	C
ATOM	5053	H	VAL A 321	32.219	-16.537	-20.930	1.00	0.00	H
ATOM	5054	HA	VAL A 321	34.255	-14.381	-21.035	1.00	0.00	H
ATOM	5055	HB	VAL A 321	33.895	-16.673	-22.967	1.00	0.00	H
ATOM	5056	HG11	VAL A 321	36.272	-14.798	-22.549	1.00	0.00	H
ATOM	5057	HG12	VAL A 321	36.163	-16.114	-23.729	1.00	0.00	H
ATOM	5058	HG13	VAL A 321	35.148	-14.684	-23.911	1.00	0.00	H
ATOM	5059	HG21	VAL A 321	34.521	-17.512	-20.740	1.00	0.00	H
ATOM	5060	HG22	VAL A 321	35.879	-16.369	-20.701	1.00	0.00	H
ATOM	5061	HG23	VAL A 321	35.837	-17.688	-21.898	1.00	0.00	H
ATOM	5062	N	TYR A 322	33.285	-12.973	-22.831	1.00	0.00	N
ATOM	5063	CA	TYR A 322	32.801	-12.090	-23.892	1.00	0.00	C
ATOM	5064	C	TYR A 322	33.961	-11.477	-24.684	1.00	0.00	C
ATOM	5065	O	TYR A 322	35.053	-11.266	-24.156	1.00	0.00	O
ATOM	5066	CB	TYR A 322	31.830	-11.023	-23.343	1.00	0.00	C
ATOM	5067	CG	TYR A 322	32.426	-9.796	-22.654	1.00	0.00	C
ATOM	5068	CD1	TYR A 322	32.019	-8.500	-23.043	1.00	0.00	C
ATOM	5069	CD2	TYR A 322	33.328	-9.940	-21.579	1.00	0.00	C
ATOM	5070	CE1	TYR A 322	32.497	-7.366	-22.349	1.00	0.00	C
ATOM	5071	CE2	TYR A 322	33.848	-8.809	-20.924	1.00	0.00	C

ATOM	5072	CZ	TYR	A	322	33.426	-7.519	-21.299	1.00	0.00	C
ATOM	5073	OH	TYR	A	322	33.890	-6.429	-20.637	1.00	0.00	O
ATOM	5074	H	TYR	A	322	34.122	-12.672	-22.337	1.00	0.00	H
ATOM	5075	HA	TYR	A	322	32.235	-12.703	-24.590	1.00	0.00	H
ATOM	5076	HB2	TYR	A	322	31.139	-11.504	-22.648	1.00	0.00	H
ATOM	5077	HB3	TYR	A	322	31.233	-10.676	-24.187	1.00	0.00	H
ATOM	5078	HD1	TYR	A	322	31.322	-8.380	-23.861	1.00	0.00	H
ATOM	5079	HD2	TYR	A	322	33.638	-10.920	-21.256	1.00	0.00	H
ATOM	5080	HE1	TYR	A	322	32.151	-6.374	-22.587	1.00	0.00	H
ATOM	5081	HE2	TYR	A	322	34.568	-8.927	-20.131	1.00	0.00	H
ATOM	5082	HH	TYR	A	322	34.376	-5.834	-21.232	1.00	0.00	H
ATOM	5083	N	LEU	A	323	33.725	-11.244	-25.973	1.00	0.00	N
ATOM	5084	CA	LEU	A	323	34.641	-10.527	-26.856	1.00	0.00	C
ATOM	5085	C	LEU	A	323	34.562	-9.017	-26.600	1.00	0.00	C
ATOM	5086	O	LEU	A	323	33.475	-8.427	-26.584	1.00	0.00	O
ATOM	5087	CB	LEU	A	323	34.310	-10.854	-28.318	1.00	0.00	C
ATOM	5088	CG	LEU	A	323	34.385	-12.346	-28.676	1.00	0.00	C
ATOM	5089	CD1	LEU	A	323	33.882	-12.540	-30.103	1.00	0.00	C
ATOM	5090	CD2	LEU	A	323	35.795	-12.909	-28.553	1.00	0.00	C
ATOM	5091	H	LEU	A	323	32.838	-11.545	-26.359	1.00	0.00	H
ATOM	5092	HA	LEU	A	323	35.662	-10.849	-26.651	1.00	0.00	H
ATOM	5093	HB2	LEU	A	323	34.987	-10.298	-28.969	1.00	0.00	H
ATOM	5094	HB3	LEU	A	323	33.296	-10.515	-28.509	1.00	0.00	H
ATOM	5095	HG	LEU	A	323	33.739	-12.921	-28.019	1.00	0.00	H
ATOM	5096	HD21	LEU	A	323	35.778	-13.958	-28.836	1.00	0.00	H
ATOM	5097	HD22	LEU	A	323	36.472	-12.364	-29.212	1.00	0.00	H
ATOM	5098	HD23	LEU	A	323	36.148	-12.830	-27.527	1.00	0.00	H
ATOM	5099	HD11	LEU	A	323	33.888	-13.599	-30.349	1.00	0.00	H
ATOM	5100	HD12	LEU	A	323	34.535	-12.010	-30.798	1.00	0.00	H
ATOM	5101	HD13	LEU	A	323	32.871	-12.153	-30.190	1.00	0.00	H

ATOM	5102	N	ASN A 324	35.718	-8.384	-26.424	1.00	0.00	N
ATOM	5103	CA	ASN A 324	35.811	-6.960	-26.108	1.00	0.00	C
ATOM	5104	C	ASN A 324	35.888	-6.051	-27.352	1.00	0.00	C
ATOM	5105	O	ASN A 324	35.729	-4.837	-27.229	1.00	0.00	O
ATOM	5106	CB	ASN A 324	37.016	-6.773	-25.185	1.00	0.00	C
ATOM	5107	CG	ASN A 324	37.028	-5.506	-24.360	1.00	0.00	C
ATOM	5108	OD1	ASN A 324	36.033	-4.807	-24.179	1.00	0.00	O
ATOM	5109	ND2	ASN A 324	38.176	-5.208	-23.803	1.00	0.00	N
ATOM	5110	H	ASN A 324	36.569	-8.943	-26.393	1.00	0.00	H
ATOM	5111	HA	ASN A 324	34.917	-6.684	-25.558	1.00	0.00	H
ATOM	5112	HB2	ASN A 324	37.898	-6.745	-25.810	1.00	0.00	H
ATOM	5113	HB3	ASN A 324	37.100	-7.616	-24.496	1.00	0.00	H
ATOM	5114	HD21	ASN A 324	38.968	-5.823	-23.976	1.00	0.00	H
ATOM	5115	HD22	ASN A 324	38.264	-4.352	-23.294	1.00	0.00	H
ATOM	5116	N	SER A 325	36.090	-6.606	-28.549	1.00	0.00	N
ATOM	5117	CA	SER A 325	36.057	-5.843	-29.804	1.00	0.00	C
ATOM	5118	C	SER A 325	34.652	-5.349	-30.169	1.00	0.00	C
ATOM	5119	O	SER A 325	33.654	-6.021	-29.922	1.00	0.00	O
ATOM	5120	CB	SER A 325	36.611	-6.699	-30.929	1.00	0.00	C
ATOM	5121	OG	SER A 325	36.541	-6.004	-32.157	1.00	0.00	O
ATOM	5122	H	SER A 325	36.261	-7.605	-28.599	1.00	0.00	H
ATOM	5123	HA	SER A 325	36.709	-4.976	-29.696	1.00	0.00	H
ATOM	5124	HB2	SER A 325	36.047	-7.629	-30.998	1.00	0.00	H
ATOM	5125	HB3	SER A 325	37.654	-6.936	-30.708	1.00	0.00	H
ATOM	5126	HG	SER A 325	37.182	-6.512	-32.725	1.00	0.00	H
ATOM	5127	N	ASN A 326	34.546	-4.165	-30.784	1.00	0.00	N
ATOM	5128	CA	ASN A 326	33.255	-3.555	-31.132	1.00	0.00	C
ATOM	5129	C	ASN A 326	32.624	-4.069	-32.442	1.00	0.00	C
ATOM	5130	O	ASN A 326	31.402	-3.958	-32.585	1.00	0.00	O
ATOM	5131	CB	ASN A 326	33.392	-2.019	-31.127	1.00	0.00	C

ATOM	5132	CG	ASN A 326	33.468	-1.402	-29.735	1.00	0.00	C
ATOM	5133	OD1	ASN A 326	33.467	-2.061	-28.707	1.00	0.00	O
ATOM	5134	ND2	ASN A 326	33.310	-0.103	-29.649	1.00	0.00	N
ATOM	5135	H	ASN A 326	35.405	-3.686	-31.009	1.00	0.00	H
ATOM	5136	HA	ASN A 326	32.536	-3.818	-30.362	1.00	0.00	H
ATOM	5137	HB2	ASN A 326	34.272	-1.722	-31.697	1.00	0.00	H
ATOM	5138	HB3	ASN A 326	32.517	-1.593	-31.619	1.00	0.00	H
ATOM	5139	HD21	ASN A 326	33.211	0.461	-30.473	1.00	0.00	H
ATOM	5140	HD22	ASN A 326	33.266	0.283	-28.722	1.00	0.00	H
ATOM	5141	N	GLN A 327	33.425	-4.572	-33.391	1.00	0.00	N
ATOM	5142	CA	GLN A 327	33.011	-4.841	-34.786	1.00	0.00	C
ATOM	5143	C	GLN A 327	33.590	-6.134	-35.398	1.00	0.00	C
ATOM	5144	O	GLN A 327	33.304	-6.448	-36.556	1.00	0.00	O
ATOM	5145	CB	GLN A 327	33.422	-3.654	-35.677	1.00	0.00	C
ATOM	5146	CG	GLN A 327	32.649	-2.357	-35.397	1.00	0.00	C
ATOM	5147	CD	GLN A 327	32.961	-1.259	-36.413	1.00	0.00	C
ATOM	5148	OE1	GLN A 327	32.090	-0.560	-36.898	1.00	0.00	O
ATOM	5149	NE2	GLN A 327	34.198	-1.089	-36.829	1.00	0.00	N
ATOM	5150	H	GLN A 327	34.408	-4.677	-33.169	1.00	0.00	H
ATOM	5151	HA	GLN A 327	31.929	-4.939	-34.826	1.00	0.00	H
ATOM	5152	HB2	GLN A 327	33.239	-3.917	-36.720	1.00	0.00	H
ATOM	5153	HB3	GLN A 327	34.494	-3.481	-35.557	1.00	0.00	H
ATOM	5154	HG2	GLN A 327	31.580	-2.569	-35.432	1.00	0.00	H
ATOM	5155	HG3	GLN A 327	32.905	-1.988	-34.406	1.00	0.00	H
ATOM	5156	HE21	GLN A 327	34.936	-1.695	-36.514	1.00	0.00	H
ATOM	5157	HE22	GLN A 327	34.333	-0.395	-37.541	1.00	0.00	H
ATOM	5158	N	THR A 328	34.497	-6.803	-34.691	1.00	0.00	N
ATOM	5159	CA	THR A 328	35.325	-7.900	-35.209	1.00	0.00	C
ATOM	5160	C	THR A 328	35.672	-8.890	-34.084	1.00	0.00	C
ATOM	5161	O	THR A 328	35.068	-8.845	-33.011	1.00	0.00	O

ATOM	5162	CB	THR A 328	36.577	-7.358	-35.941	1.00	0.00	C
ATOM	5163	OG1	THR A 328	37.126	-6.235	-35.297	1.00	0.00	O
ATOM	5164	CG2	THR A 328	36.316	-6.944	-37.387	1.00	0.00	C
ATOM	5165	H	THR A 328	34.739	-6.488	-33.763	1.00	0.00	H
ATOM	5166	HA	THR A 328	34.744	-8.466	-35.935	1.00	0.00	H
ATOM	5167	HB	THR A 328	37.319	-8.150	-35.984	1.00	0.00	H
ATOM	5168	HG1	THR A 328	37.874	-6.609	-34.779	1.00	0.00	H
ATOM	5169	HG21	THR A 328	37.270	-6.697	-37.854	1.00	0.00	H
ATOM	5170	HG22	THR A 328	35.856	-7.768	-37.930	1.00	0.00	H
ATOM	5171	HG23	THR A 328	35.672	-6.067	-37.421	1.00	0.00	H
ATOM	5172	N	ALA A 329	36.316	-9.995	-34.461	1.00	0.00	N
ATOM	5173	CA	ALA A 329	36.389	-11.229	-33.681	1.00	0.00	C
ATOM	5174	C	ALA A 329	37.645	-11.292	-32.785	1.00	0.00	C
ATOM	5175	O	ALA A 329	38.484	-12.167	-32.979	1.00	0.00	O
ATOM	5176	CB	ALA A 329	36.272	-12.399	-34.675	1.00	0.00	C
ATOM	5177	H	ALA A 329	36.842	-9.969	-35.320	1.00	0.00	H
ATOM	5178	HA	ALA A 329	35.531	-11.283	-33.010	1.00	0.00	H
ATOM	5179	HB1	ALA A 329	35.338	-12.319	-35.232	1.00	0.00	H
ATOM	5180	HB2	ALA A 329	36.278	-13.345	-34.137	1.00	0.00	H
ATOM	5181	HB3	ALA A 329	37.115	-12.386	-35.367	1.00	0.00	H
ATOM	5182	N	GLU A 330	37.824	-10.332	-31.869	1.00	0.00	N
ATOM	5183	CA	GLU A 330	39.035	-10.212	-31.032	1.00	0.00	C
ATOM	5184	C	GLU A 330	38.749	-10.050	-29.523	1.00	0.00	C
ATOM	5185	O	GLU A 330	37.688	-9.559	-29.119	1.00	0.00	O
ATOM	5186	CB	GLU A 330	39.955	-9.064	-31.507	1.00	0.00	C
ATOM	5187	CG	GLU A 330	40.225	-8.983	-33.022	1.00	0.00	C
ATOM	5188	CD	GLU A 330	39.281	-8.040	-33.784	1.00	0.00	C
ATOM	5189	OE1	GLU A 330	39.478	-7.827	-34.997	1.00	0.00	O
ATOM	5190	OE2	GLU A 330	38.243	-7.589	-33.244	1.00	0.00	O
ATOM	5191	H	GLU A 330	37.153	-9.578	-31.830	1.00	0.00	H



ATOM	5192	HA	GLU A 330	39.615	-11.128	-31.137	1.00	0.00	H
ATOM	5193	HB2	GLU A 330	39.569	-8.110	-31.150	1.00	0.00	H
ATOM	5194	HB3	GLU A 330	40.919	-9.206	-31.017	1.00	0.00	H
ATOM	5195	HG2	GLU A 330	41.243	-8.610	-33.155	1.00	0.00	H
ATOM	5196	HG3	GLU A 330	40.188	-9.983	-33.457	1.00	0.00	H
ATOM	5197	N	ASN A 331	39.809	-10.259	-28.725	1.00	0.00	N
ATOM	5198	CA	ASN A 331	39.940	-9.916	-27.299	1.00	0.00	C
ATOM	5199	C	ASN A 331	38.999	-10.724	-26.363	1.00	0.00	C
ATOM	5200	O	ASN A 331	37.965	-10.212	-25.917	1.00	0.00	O
ATOM	5201	CB	ASN A 331	39.849	-8.384	-27.158	1.00	0.00	C
ATOM	5202	CG	ASN A 331	40.426	-7.858	-25.852	1.00	0.00	C
ATOM	5203	OD1	ASN A 331	39.807	-7.889	-24.801	1.00	0.00	O
ATOM	5204	ND2	ASN A 331	41.493	-7.110	-25.945	1.00	0.00	N
ATOM	5205	H	ASN A 331	40.633	-10.655	-29.168	1.00	0.00	H
ATOM	5206	HA	ASN A 331	40.961	-10.178	-27.013	1.00	0.00	H
ATOM	5207	HB2	ASN A 331	38.812	-8.078	-27.247	1.00	0.00	H
ATOM	5208	HB3	ASN A 331	40.389	-7.924	-27.985	1.00	0.00	H
ATOM	5209	HD21	ASN A 331	42.014	-7.151	-26.815	1.00	0.00	H
ATOM	5210	HD22	ASN A 331	42.020	-6.945	-25.080	1.00	0.00	H
ATOM	5211	N	PRO A 332	39.288	-12.022	-26.120	1.00	0.00	N
ATOM	5212	CA	PRO A 332	38.471	-12.911	-25.289	1.00	0.00	C
ATOM	5213	C	PRO A 332	38.709	-12.694	-23.781	1.00	0.00	C
ATOM	5214	O	PRO A 332	39.639	-13.249	-23.188	1.00	0.00	O
ATOM	5215	CB	PRO A 332	38.855	-14.324	-25.747	1.00	0.00	C
ATOM	5216	CG	PRO A 332	40.321	-14.183	-26.163	1.00	0.00	C
ATOM	5217	CD	PRO A 332	40.397	-12.762	-26.717	1.00	0.00	C
ATOM	5218	HA	PRO A 332	37.413	-12.747	-25.500	1.00	0.00	H
ATOM	5219	HB2	PRO A 332	38.724	-15.068	-24.960	1.00	0.00	H
ATOM	5220	HB3	PRO A 332	38.257	-14.593	-26.618	1.00	0.00	H
ATOM	5221	HG2	PRO A 332	40.597	-14.913	-26.922	1.00	0.00	H

ATOM	5222	HG3 PRO A 332	40.971	-14.272	-25.292	1.00	0.00	H
ATOM	5223	HD2 PRO A 332	40.278	-12.795	-27.801	1.00	0.00	H
ATOM	5224	HD3 PRO A 332	41.359	-12.316	-26.461	1.00	0.00	H
ATOM	5225	N VAL A 333	37.755	-12.043	-23.108	1.00	0.00	N
ATOM	5226	CA VAL A 333	37.818	-11.748	-21.663	1.00	0.00	C
ATOM	5227	C VAL A 333	36.797	-12.574	-20.884	1.00	0.00	C
ATOM	5228	O VAL A 333	35.596	-12.459	-21.122	1.00	0.00	O
ATOM	5229	CB VAL A 333	37.630	-10.237	-21.418	1.00	0.00	C
ATOM	5230	CG1 VAL A 333	37.602	-9.885	-19.926	1.00	0.00	C
ATOM	5231	CG2 VAL A 333	38.772	-9.436	-22.052	1.00	0.00	C
ATOM	5232	H VAL A 333	36.989	-11.634	-23.637	1.00	0.00	H
ATOM	5233	HA VAL A 333	38.801	-12.012	-21.284	1.00	0.00	H
ATOM	5234	HB VAL A 333	36.688	-9.913	-21.863	1.00	0.00	H
ATOM	5235	HG11 VAL A 333	37.547	-8.805	-19.817	1.00	0.00	H
ATOM	5236	HG12 VAL A 333	38.505	-10.253	-19.441	1.00	0.00	H
ATOM	5237	HG13 VAL A 333	36.724	-10.320	-19.451	1.00	0.00	H
ATOM	5238	HG21 VAL A 333	39.733	-9.733	-21.631	1.00	0.00	H
ATOM	5239	HG22 VAL A 333	38.794	-9.608	-23.130	1.00	0.00	H
ATOM	5240	HG23 VAL A 333	38.623	-8.369	-21.894	1.00	0.00	H
ATOM	5241	N PHE A 334	37.233	-13.305	-19.852	1.00	0.00	N
ATOM	5242	CA PHE A 334	36.331	-13.835	-18.824	1.00	0.00	C
ATOM	5243	C PHE A 334	35.964	-12.719	-17.835	1.00	0.00	C
ATOM	5244	O PHE A 334	36.843	-12.129	-17.201	1.00	0.00	O
ATOM	5245	CB PHE A 334	36.959	-15.051	-18.122	1.00	0.00	C
ATOM	5246	CG PHE A 334	35.997	-15.842	-17.241	1.00	0.00	C
ATOM	5247	CD1 PHE A 334	35.513	-17.097	-17.663	1.00	0.00	C
ATOM	5248	CD2 PHE A 334	35.586	-15.337	-15.992	1.00	0.00	C
ATOM	5249	CE1 PHE A 334	34.633	-17.833	-16.848	1.00	0.00	C
ATOM	5250	CE2 PHE A 334	34.703	-16.071	-15.179	1.00	0.00	C
ATOM	5251	CZ PHE A 334	34.227	-17.322	-15.606	1.00	0.00	C

ATOM	5252	H	PHE A 334	38.221	-13.255	-19.622	1.00	0.00	H
ATOM	5253	HA	PHE A 334	35.414	-14.176	-19.302	1.00	0.00	H
ATOM	5254	HB2	PHE A 334	37.801	-14.718	-17.518	1.00	0.00	H
ATOM	5255	HB3	PHE A 334	37.358	-15.720	-18.884	1.00	0.00	H
ATOM	5256	HD1	PHE A 334	35.822	-17.512	-18.611	1.00	0.00	H
ATOM	5257	HD2	PHE A 334	35.939	-14.375	-15.658	1.00	0.00	H
ATOM	5258	HE1	PHE A 334	34.270	-18.795	-17.179	1.00	0.00	H
ATOM	5259	HE2	PHE A 334	34.388	-15.673	-14.227	1.00	0.00	H
ATOM	5260	HZ	PHE A 334	33.549	-17.891	-14.986	1.00	0.00	H
ATOM	5261	N	ALA A 335	34.671	-12.507	-17.602	1.00	0.00	N
ATOM	5262	CA	ALA A 335	34.141	-11.521	-16.666	1.00	0.00	C
ATOM	5263	C	ALA A 335	33.212	-12.164	-15.628	1.00	0.00	C
ATOM	5264	O	ALA A 335	32.470	-13.099	-15.933	1.00	0.00	O
ATOM	5265	CB	ALA A 335	33.431	-10.421	-17.464	1.00	0.00	C
ATOM	5266	H	ALA A 335	33.994	-13.052	-18.129	1.00	0.00	H
ATOM	5267	HA	ALA A 335	34.962	-11.057	-16.120	1.00	0.00	H
ATOM	5268	HB1	ALA A 335	33.030	-9.667	-16.787	1.00	0.00	H
ATOM	5269	HB2	ALA A 335	34.141	-9.946	-18.139	1.00	0.00	H
ATOM	5270	HB3	ALA A 335	32.615	-10.850	-18.047	1.00	0.00	H
ATOM	5271	N	VAL A 336	33.139	-11.547	-14.447	1.00	0.00	N
ATOM	5272	CA	VAL A 336	32.083	-11.777	-13.449	1.00	0.00	C
ATOM	5273	C	VAL A 336	31.351	-10.462	-13.197	1.00	0.00	C
ATOM	5274	O	VAL A 336	31.989	-9.424	-13.007	1.00	0.00	O
ATOM	5275	CB	VAL A 336	32.650	-12.377	-12.151	1.00	0.00	C
ATOM	5276	CG1	VAL A 336	31.546	-12.621	-11.119	1.00	0.00	C
ATOM	5277	CG2	VAL A 336	33.333	-13.723	-12.418	1.00	0.00	C
ATOM	5278	H	VAL A 336	33.774	-10.772	-14.276	1.00	0.00	H
ATOM	5279	HA	VAL A 336	31.361	-12.486	-13.849	1.00	0.00	H
ATOM	5280	HB	VAL A 336	33.378	-11.687	-11.727	1.00	0.00	H
ATOM	5281	HG11	VAL A 336	31.099	-11.677	-10.822	1.00	0.00	H

ATOM	5282	HG12	VAL A 336	30.778	-13.267	-11.544	1.00	0.00	H
ATOM	5283	HG13	VAL A 336	31.963	-13.094	-10.231	1.00	0.00	H
ATOM	5284	HG21	VAL A 336	32.638	-14.391	-12.921	1.00	0.00	H
ATOM	5285	HG22	VAL A 336	34.201	-13.574	-13.056	1.00	0.00	H
ATOM	5286	HG23	VAL A 336	33.649	-14.177	-11.482	1.00	0.00	H
ATOM	5287	N	PHE A 337	30.023	-10.468	-13.299	1.00	0.00	N
ATOM	5288	CA	PHE A 337	29.228	-9.250	-13.457	1.00	0.00	C
ATOM	5289	C	PHE A 337	27.805	-9.372	-12.899	1.00	0.00	C
ATOM	5290	O	PHE A 337	27.212	-10.445	-12.858	1.00	0.00	O
ATOM	5291	CB	PHE A 337	29.207	-8.850	-14.944	1.00	0.00	C
ATOM	5292	CG	PHE A 337	28.480	-9.814	-15.865	1.00	0.00	C
ATOM	5293	CD1	PHE A 337	27.113	-9.623	-16.147	1.00	0.00	C
ATOM	5294	CD2	PHE A 337	29.167	-10.898	-16.447	1.00	0.00	C
ATOM	5295	CE1	PHE A 337	26.438	-10.507	-17.008	1.00	0.00	C
ATOM	5296	CE2	PHE A 337	28.491	-11.785	-17.303	1.00	0.00	C
ATOM	5297	CZ	PHE A 337	27.127	-11.588	-17.585	1.00	0.00	C
ATOM	5298	H	PHE A 337	29.551	-11.355	-13.465	1.00	0.00	H
ATOM	5299	HA	PHE A 337	29.712	-8.448	-12.901	1.00	0.00	H
ATOM	5300	HB2	PHE A 337	28.742	-7.866	-15.033	1.00	0.00	H
ATOM	5301	HB3	PHE A 337	30.234	-8.747	-15.295	1.00	0.00	H
ATOM	5302	HD1	PHE A 337	26.580	-8.800	-15.693	1.00	0.00	H
ATOM	5303	HD2	PHE A 337	30.216	-11.055	-16.238	1.00	0.00	H
ATOM	5304	HE1	PHE A 337	25.390	-10.360	-17.224	1.00	0.00	H
ATOM	5305	HE2	PHE A 337	29.025	-12.613	-17.751	1.00	0.00	H
ATOM	5306	HZ	PHE A 337	26.608	-12.269	-18.244	1.00	0.00	H
ATOM	5307	N	LYS A 338	27.240	-8.220	-12.553	1.00	0.00	N
ATOM	5308	CA	LYS A 338	25.839	-7.947	-12.214	1.00	0.00	C
ATOM	5309	C	LYS A 338	25.263	-7.008	-13.290	1.00	0.00	C
ATOM	5310	O	LYS A 338	26.030	-6.417	-14.050	1.00	0.00	O
ATOM	5311	CB	LYS A 338	25.860	-7.346	-10.797	1.00	0.00	C

ATOM	5312	CG	LYS A 338	24.499	-7.194	-10.108	1.00	0.00	C
ATOM	5313	CD	LYS A 338	24.577	-6.475	-8.746	1.00	0.00	C
ATOM	5314	CE	LYS A 338	25.443	-7.150	-7.667	1.00	0.00	C
ATOM	5315	NZ	LYS A 338	26.884	-6.802	-7.778	1.00	0.00	N
ATOM	5316	H	LYS A 338	27.814	-7.392	-12.688	1.00	0.00	H
ATOM	5317	HA	LYS A 338	25.260	-8.876	-12.213	1.00	0.00	H
ATOM	5318	HB2	LYS A 338	26.470	-8.002	-10.176	1.00	0.00	H
ATOM	5319	HB3	LYS A 338	26.344	-6.372	-10.838	1.00	0.00	H
ATOM	5320	HG2	LYS A 338	24.059	-8.182	-9.978	1.00	0.00	H
ATOM	5321	HG3	LYS A 338	23.833	-6.610	-10.740	1.00	0.00	H
ATOM	5322	HD2	LYS A 338	23.558	-6.428	-8.358	1.00	0.00	H
ATOM	5323	HD3	LYS A 338	24.917	-5.448	-8.897	1.00	0.00	H
ATOM	5324	HE2	LYS A 338	25.075	-6.818	-6.693	1.00	0.00	H
ATOM	5325	HE3	LYS A 338	25.297	-8.233	-7.721	1.00	0.00	H
ATOM	5326	HZ1	LYS A 338	27.421	-7.108	-6.980	1.00	0.00	H
ATOM	5327	HZ2	LYS A 338	27.036	-5.788	-7.866	1.00	0.00	H
ATOM	5328	HZ3	LYS A 338	27.294	-7.172	-8.620	1.00	0.00	H
ATOM	5329	N	ASP A 339	23.944	-6.818	-13.330	1.00	0.00	N
ATOM	5330	CA	ASP A 339	23.222	-6.048	-14.366	1.00	0.00	C
ATOM	5331	C	ASP A 339	23.896	-4.734	-14.809	1.00	0.00	C
ATOM	5332	O	ASP A 339	24.173	-4.557	-15.994	1.00	0.00	O
ATOM	5333	CB	ASP A 339	21.796	-5.737	-13.875	1.00	0.00	C
ATOM	5334	CG	ASP A 339	20.981	-6.974	-13.498	1.00	0.00	C
ATOM	5335	OD1	ASP A 339	21.248	-8.068	-14.038	1.00	0.00	O
ATOM	5336	OD2	ASP A 339	20.002	-6.837	-12.738	1.00	0.00	O
ATOM	5337	H	ASP A 339	23.380	-7.414	-12.740	1.00	0.00	H
ATOM	5338	HA	ASP A 339	23.130	-6.675	-15.251	1.00	0.00	H
ATOM	5339	HB2	ASP A 339	21.857	-5.080	-13.006	1.00	0.00	H
ATOM	5340	HB3	ASP A 339	21.264	-5.205	-14.666	1.00	0.00	H
ATOM	5341	N	ASN A 340	24.298	-3.885	-13.860	1.00	0.00	N

ATOM	5342	CA	ASN A 340	24.885	-2.570	-14.147	1.00	0.00	C
ATOM	5343	C	ASN A 340	26.396	-2.501	-13.831	1.00	0.00	C
ATOM	5344	O	ASN A 340	26.945	-1.414	-13.664	1.00	0.00	O
ATOM	5345	CB	ASN A 340	24.076	-1.470	-13.425	1.00	0.00	C
ATOM	5346	CG	ASN A 340	22.606	-1.368	-13.813	1.00	0.00	C
ATOM	5347	OD1	ASN A 340	21.953	-2.294	-14.255	1.00	0.00	O
ATOM	5348	ND2	ASN A 340	21.981	-0.257	-13.505	1.00	0.00	N
ATOM	5349	H	ASN A 340	24.028	-4.088	-12.912	1.00	0.00	H
ATOM	5350	HA	ASN A 340	24.801	-2.379	-15.216	1.00	0.00	H
ATOM	5351	HB2	ASN A 340	24.140	-1.618	-12.349	1.00	0.00	H
ATOM	5352	HB3	ASN A 340	24.536	-0.510	-13.658	1.00	0.00	H
ATOM	5353	HD21	ASN A 340	22.481	0.518	-13.116	1.00	0.00	H
ATOM	5354	HD22	ASN A 340	21.007	-0.232	-13.745	1.00	0.00	H
ATOM	5355	N	GLU A 341	27.044	-3.641	-13.567	1.00	0.00	N
ATOM	5356	CA	GLU A 341	28.320	-3.684	-12.845	1.00	0.00	C
ATOM	5357	C	GLU A 341	29.136	-4.944	-13.186	1.00	0.00	C
ATOM	5358	O	GLU A 341	28.926	-6.011	-12.610	1.00	0.00	O
ATOM	5359	CB	GLU A 341	28.009	-3.592	-11.337	1.00	0.00	C
ATOM	5360	CG	GLU A 341	29.250	-3.611	-10.429	1.00	0.00	C
ATOM	5361	CD	GLU A 341	28.901	-3.792	-8.942	1.00	0.00	C
ATOM	5362	OE1	GLU A 341	27.930	-4.535	-8.646	1.00	0.00	O
ATOM	5363	OE2	GLU A 341	29.795	-3.486	-8.126	1.00	0.00	O
ATOM	5364	H	GLU A 341	26.555	-4.518	-13.728	1.00	0.00	H
ATOM	5365	HA	GLU A 341	28.917	-2.813	-13.116	1.00	0.00	H
ATOM	5366	HB2	GLU A 341	27.361	-4.427	-11.083	1.00	0.00	H
ATOM	5367	HB3	GLU A 341	27.455	-2.673	-11.139	1.00	0.00	H
ATOM	5368	HG2	GLU A 341	29.915	-4.424	-10.721	1.00	0.00	H
ATOM	5369	HG3	GLU A 341	29.795	-2.675	-10.572	1.00	0.00	H
ATOM	5370	N	ILE A 342	30.198	-4.801	-13.985	1.00	0.00	N
ATOM	5371	CA	ILE A 342	31.266	-5.814	-14.034	1.00	0.00	C

ATOM	5372	C	ILE A 342	32.076	-5.717	-12.738	1.00	0.00	C
ATOM	5373	O	ILE A 342	32.664	-4.669	-12.454	1.00	0.00	O
ATOM	5374	CB	ILE A 342	32.156	-5.677	-15.287	1.00	0.00	C
ATOM	5375	CG1	ILE A 342	31.302	-5.785	-16.568	1.00	0.00	C
ATOM	5376	CG2	ILE A 342	33.254	-6.755	-15.266	1.00	0.00	C
ATOM	5377	CD1	ILE A 342	32.078	-5.541	-17.866	1.00	0.00	C
ATOM	5378	H	ILE A 342	30.361	-3.908	-14.423	1.00	0.00	H
ATOM	5379	HA	ILE A 342	30.809	-6.800	-14.070	1.00	0.00	H
ATOM	5380	HB	ILE A 342	32.633	-4.695	-15.272	1.00	0.00	H
ATOM	5381	HG12	ILE A 342	30.826	-6.764	-16.617	1.00	0.00	H
ATOM	5382	HG13	ILE A 342	30.519	-5.034	-16.523	1.00	0.00	H
ATOM	5383	HG21	ILE A 342	33.873	-6.669	-16.156	1.00	0.00	H
ATOM	5384	HG22	ILE A 342	33.905	-6.638	-14.401	1.00	0.00	H
ATOM	5385	HG23	ILE A 342	32.806	-7.749	-15.244	1.00	0.00	H
ATOM	5386	HD11	ILE A 342	31.375	-5.399	-18.687	1.00	0.00	H
ATOM	5387	HD12	ILE A 342	32.696	-4.648	-17.776	1.00	0.00	H
ATOM	5388	HD13	ILE A 342	32.704	-6.403	-18.093	1.00	0.00	H
ATOM	5389	N	LEU A 343	32.133	-6.804	-11.970	1.00	0.00	N
ATOM	5390	CA	LEU A 343	32.840	-6.872	-10.693	1.00	0.00	C
ATOM	5391	C	LEU A 343	34.351	-7.012	-10.895	1.00	0.00	C
ATOM	5392	O	LEU A 343	35.111	-6.214	-10.352	1.00	0.00	O
ATOM	5393	CB	LEU A 343	32.286	-8.039	-9.850	1.00	0.00	C
ATOM	5394	CG	LEU A 343	30.801	-7.923	-9.469	1.00	0.00	C
ATOM	5395	CD1	LEU A 343	30.341	-9.201	-8.769	1.00	0.00	C
ATOM	5396	CD2	LEU A 343	30.583	-6.765	-8.503	1.00	0.00	C
ATOM	5397	H	LEU A 343	31.714	-7.659	-12.319	1.00	0.00	H
ATOM	5398	HA	LEU A 343	32.678	-5.940	-10.152	1.00	0.00	H
ATOM	5399	HB2	LEU A 343	32.436	-8.972	-10.397	1.00	0.00	H
ATOM	5400	HB3	LEU A 343	32.863	-8.099	-8.928	1.00	0.00	H
ATOM	5401	HG	LEU A 343	30.190	-7.776	-10.359	1.00	0.00	H

ATOM	5402	HD11	LEU	A	343	30.416	-10.040	-9.456	1.00	0.00	H
ATOM	5403	HD12	LEU	A	343	30.965	-9.394	-7.896	1.00	0.00	H
ATOM	5404	HD13	LEU	A	343	29.306	-9.099	-8.451	1.00	0.00	H
ATOM	5405	HD21	LEU	A	343	29.538	-6.697	-8.223	1.00	0.00	H
ATOM	5406	HD22	LEU	A	343	30.862	-5.823	-8.967	1.00	0.00	H
ATOM	5407	HD23	LEU	A	343	31.173	-6.909	-7.602	1.00	0.00	H
ATOM	5408	N	TYR	A	344	34.778	-7.973	-11.715	1.00	0.00	N
ATOM	5409	CA	TYR	A	344	36.188	-8.288	-11.978	1.00	0.00	C
ATOM	5410	C	TYR	A	344	36.325	-9.150	-13.250	1.00	0.00	C
ATOM	5411	O	TYR	A	344	35.342	-9.718	-13.734	1.00	0.00	O
ATOM	5412	CB	TYR	A	344	36.816	-8.955	-10.734	1.00	0.00	C
ATOM	5413	CG	TYR	A	344	35.981	-10.021	-10.046	1.00	0.00	C
ATOM	5414	CD1	TYR	A	344	36.069	-11.354	-10.476	1.00	0.00	C
ATOM	5415	CD2	TYR	A	344	35.151	-9.691	-8.956	1.00	0.00	C
ATOM	5416	CE1	TYR	A	344	35.326	-12.359	-9.829	1.00	0.00	C
ATOM	5417	CE2	TYR	A	344	34.375	-10.683	-8.329	1.00	0.00	C
ATOM	5418	CZ	TYR	A	344	34.464	-12.022	-8.763	1.00	0.00	C
ATOM	5419	OH	TYR	A	344	33.758	-12.990	-8.126	1.00	0.00	O
ATOM	5420	H	TYR	A	344	34.087	-8.579	-12.143	1.00	0.00	H
ATOM	5421	HA	TYR	A	344	36.730	-7.357	-12.155	1.00	0.00	H
ATOM	5422	HB2	TYR	A	344	37.782	-9.384	-11.004	1.00	0.00	H
ATOM	5423	HB3	TYR	A	344	37.023	-8.176	-10.001	1.00	0.00	H
ATOM	5424	HD1	TYR	A	344	36.719	-11.593	-11.300	1.00	0.00	H
ATOM	5425	HD2	TYR	A	344	35.110	-8.673	-8.593	1.00	0.00	H
ATOM	5426	HE1	TYR	A	344	35.409	-13.386	-10.144	1.00	0.00	H
ATOM	5427	HE2	TYR	A	344	33.731	-10.422	-7.504	1.00	0.00	H
ATOM	5428	HH	TYR	A	344	33.155	-12.609	-7.463	1.00	0.00	H
ATOM	5429	N	GLN	A	345	37.522	-9.172	-13.848	1.00	0.00	N
ATOM	5430	CA	GLN	A	345	37.804	-9.771	-15.164	1.00	0.00	C
ATOM	5431	C	GLN	A	345	39.182	-10.448	-15.201	1.00	0.00	C



ATOM	5432	O	GLN A 345	40.060	-10.084	-14.419	1.00	0.00	O
ATOM	5433	CB	GLN A 345	37.770	-8.695	-16.268	1.00	0.00	C
ATOM	5434	CG	GLN A 345	36.420	-7.986	-16.448	1.00	0.00	C
ATOM	5435	CD	GLN A 345	36.325	-7.177	-17.745	1.00	0.00	C
ATOM	5436	OE1	GLN A 345	35.285	-7.105	-18.378	1.00	0.00	O
ATOM	5437	NE2	GLN A 345	37.386	-6.568	-18.228	1.00	0.00	N
ATOM	5438	H	GLN A 345	38.307	-8.741	-13.381	1.00	0.00	H
ATOM	5439	HA	GLN A 345	37.051	-10.527	-15.383	1.00	0.00	H
ATOM	5440	HB2	GLN A 345	38.023	-9.175	-17.212	1.00	0.00	H
ATOM	5441	HB3	GLN A 345	38.538	-7.949	-16.058	1.00	0.00	H
ATOM	5442	HG2	GLN A 345	36.263	-7.309	-15.609	1.00	0.00	H
ATOM	5443	HG3	GLN A 345	35.628	-8.732	-16.453	1.00	0.00	H
ATOM	5444	HE21	GLN A 345	38.291	-6.686	-17.807	1.00	0.00	H
ATOM	5445	HE22	GLN A 345	37.279	-6.137	-19.133	1.00	0.00	H
ATOM	5446	N	VAL A 346	39.417	-11.281	-16.218	1.00	0.00	N
ATOM	5447	CA	VAL A 346	40.752	-11.695	-16.682	1.00	0.00	C
ATOM	5448	C	VAL A 346	40.706	-12.018	-18.191	1.00	0.00	C
ATOM	5449	O	VAL A 346	39.733	-12.636	-18.636	1.00	0.00	O
ATOM	5450	CB	VAL A 346	41.278	-12.878	-15.835	1.00	0.00	C
ATOM	5451	CG1	VAL A 346	40.557	-14.206	-16.109	1.00	0.00	C
ATOM	5452	CG2	VAL A 346	42.782	-13.096	-16.004	1.00	0.00	C
ATOM	5453	H	VAL A 346	38.632	-11.555	-16.804	1.00	0.00	H
ATOM	5454	HA	VAL A 346	41.422	-10.855	-16.519	1.00	0.00	H
ATOM	5455	HB	VAL A 346	41.120	-12.629	-14.786	1.00	0.00	H
ATOM	5456	HG21	VAL A 346	43.319	-12.184	-15.746	1.00	0.00	H
ATOM	5457	HG22	VAL A 346	43.019	-13.377	-17.029	1.00	0.00	H
ATOM	5458	HG23	VAL A 346	43.115	-13.891	-15.336	1.00	0.00	H
ATOM	5459	HG11	VAL A 346	40.898	-14.956	-15.400	1.00	0.00	H
ATOM	5460	HG12	VAL A 346	40.776	-14.555	-17.120	1.00	0.00	H
ATOM	5461	HG13	VAL A 346	39.483	-14.070	-15.998	1.00	0.00	H

ATOM	5462	N	PRO A 347	41.672	-11.567	-19.015	1.00	0.00	N
ATOM	5463	CA	PRO A 347	41.815	-12.059	-20.389	1.00	0.00	C
ATOM	5464	C	PRO A 347	42.199	-13.549	-20.397	1.00	0.00	C
ATOM	5465	O	PRO A 347	42.816	-14.042	-19.450	1.00	0.00	O
ATOM	5466	CB	PRO A 347	42.892	-11.179	-21.026	1.00	0.00	C
ATOM	5467	CG	PRO A 347	43.775	-10.790	-19.843	1.00	0.00	C
ATOM	5468	CD	PRO A 347	42.779	-10.674	-18.689	1.00	0.00	C
ATOM	5469	HA	PRO A 347	40.886	-11.931	-20.942	1.00	0.00	H
ATOM	5470	HB2	PRO A 347	43.459	-11.707	-21.791	1.00	0.00	H
ATOM	5471	HB3	PRO A 347	42.432	-10.283	-21.448	1.00	0.00	H
ATOM	5472	HG2	PRO A 347	44.486	-11.592	-19.637	1.00	0.00	H
ATOM	5473	HG3	PRO A 347	44.299	-9.850	-20.023	1.00	0.00	H
ATOM	5474	HD2	PRO A 347	42.410	-9.649	-18.628	1.00	0.00	H
ATOM	5475	HD3	PRO A 347	43.267	-10.953	-17.758	1.00	0.00	H
ATOM	5476	N	LEU A 348	41.781	-14.292	-21.424	1.00	0.00	N
ATOM	5477	CA	LEU A 348	42.153	-15.708	-21.601	1.00	0.00	C
ATOM	5478	C	LEU A 348	43.313	-15.930	-22.584	1.00	0.00	C
ATOM	5479	O	LEU A 348	43.916	-17.003	-22.567	1.00	0.00	O
ATOM	5480	CB	LEU A 348	40.908	-16.515	-21.999	1.00	0.00	C
ATOM	5481	CG	LEU A 348	39.815	-16.563	-20.916	1.00	0.00	C
ATOM	5482	CD1	LEU A 348	38.663	-17.422	-21.430	1.00	0.00	C
ATOM	5483	CD2	LEU A 348	40.292	-17.178	-19.595	1.00	0.00	C
ATOM	5484	H	LEU A 348	41.218	-13.848	-22.145	1.00	0.00	H
ATOM	5485	HA	LEU A 348	42.523	-16.102	-20.657	1.00	0.00	H
ATOM	5486	HB2	LEU A 348	40.490	-16.086	-22.913	1.00	0.00	H
ATOM	5487	HB3	LEU A 348	41.219	-17.535	-22.223	1.00	0.00	H
ATOM	5488	HG	LEU A 348	39.435	-15.560	-20.721	1.00	0.00	H
ATOM	5489	HD11	LEU A 348	39.032	-18.402	-21.730	1.00	0.00	H
ATOM	5490	HD12	LEU A 348	38.214	-16.928	-22.291	1.00	0.00	H
ATOM	5491	HD13	LEU A 348	37.916	-17.543	-20.651	1.00	0.00	H

ATOM	5492	HD21	LEU A 348	39.453	-17.289	-18.910	1.00	0.00	H
ATOM	5493	HD22	LEU A 348	41.023	-16.516	-19.130	1.00	0.00	H
ATOM	5494	HD23	LEU A 348	40.746	-18.149	-19.785	1.00	0.00	H
ATOM	5495	N	ALA A 349	43.635	-14.908	-23.376	1.00	0.00	N
ATOM	5496	CA	ALA A 349	44.818	-14.755	-24.219	1.00	0.00	C
ATOM	5497	C	ALA A 349	44.987	-13.252	-24.542	1.00	0.00	C
ATOM	5498	O	ALA A 349	44.159	-12.438	-24.120	1.00	0.00	O
ATOM	5499	CB	ALA A 349	44.645	-15.607	-25.483	1.00	0.00	C
ATOM	5500	H	ALA A 349	43.099	-14.058	-23.283	1.00	0.00	H
ATOM	5501	HA	ALA A 349	45.709	-15.090	-23.684	1.00	0.00	H
ATOM	5502	HB1	ALA A 349	44.487	-16.651	-25.214	1.00	0.00	H
ATOM	5503	HB2	ALA A 349	45.547	-15.545	-26.090	1.00	0.00	H
ATOM	5504	HB3	ALA A 349	43.792	-15.247	-26.059	1.00	0.00	H
ATOM	5505	N	GLU A 350	46.079	-12.879	-25.204	1.00	0.00	N
ATOM	5506	CA	GLU A 350	46.498	-11.494	-25.453	1.00	0.00	C
ATOM	5507	C	GLU A 350	45.468	-10.642	-26.233	1.00	0.00	C
ATOM	5508	O	GLU A 350	44.559	-11.151	-26.894	1.00	0.00	O
ATOM	5509	CB	GLU A 350	47.877	-11.500	-26.147	1.00	0.00	C
ATOM	5510	CG	GLU A 350	49.067	-11.778	-25.204	1.00	0.00	C
ATOM	5511	CD	GLU A 350	49.010	-13.103	-24.418	1.00	0.00	C
ATOM	5512	OE1	GLU A 350	48.528	-14.117	-24.975	1.00	0.00	O
ATOM	5513	OE2	GLU A 350	49.404	-13.083	-23.229	1.00	0.00	O
ATOM	5514	H	GLU A 350	46.787	-13.593	-25.381	1.00	0.00	H
ATOM	5515	HA	GLU A 350	46.621	-11.007	-24.485	1.00	0.00	H
ATOM	5516	HB2	GLU A 350	48.047	-10.519	-26.594	1.00	0.00	H
ATOM	5517	HB3	GLU A 350	47.876	-12.231	-26.957	1.00	0.00	H
ATOM	5518	HG2	GLU A 350	49.982	-11.765	-25.800	1.00	0.00	H
ATOM	5519	HG3	GLU A 350	49.132	-10.945	-24.499	1.00	0.00	H
ATOM	5520	N	ASP A 351	45.567	-9.315	-26.094	1.00	0.00	N
ATOM	5521	CA	ASP A 351	44.497	-8.365	-26.441	1.00	0.00	C

ATOM	5522	C	ASP A 351	44.094	-8.301	-27.931	1.00	0.00	C
ATOM	5523	O	ASP A 351	42.990	-7.836	-28.226	1.00	0.00	O
ATOM	5524	CB	ASP A 351	44.881	-6.958	-25.937	1.00	0.00	C
ATOM	5525	CG	ASP A 351	44.639	-6.757	-24.435	1.00	0.00	C
ATOM	5526	OD1	ASP A 351	43.468	-6.950	-24.024	1.00	0.00	O
ATOM	5527	OD2	ASP A 351	45.490	-6.093	-23.805	1.00	0.00	O
ATOM	5528	H	ASP A 351	46.339	-8.953	-25.556	1.00	0.00	H
ATOM	5529	HA	ASP A 351	43.602	-8.685	-25.906	1.00	0.00	H
ATOM	5530	HB2	ASP A 351	44.280	-6.215	-26.462	1.00	0.00	H
ATOM	5531	HB3	ASP A 351	45.927	-6.759	-26.181	1.00	0.00	H
ATOM	5532	N	ASP A 352	44.925	-8.767	-28.866	1.00	0.00	N
ATOM	5533	CA	ASP A 352	44.606	-8.863	-30.300	1.00	0.00	C
ATOM	5534	C	ASP A 352	44.079	-10.250	-30.726	1.00	0.00	C
ATOM	5535	O	ASP A 352	43.694	-10.434	-31.882	1.00	0.00	O
ATOM	5536	CB	ASP A 352	45.843	-8.477	-31.136	1.00	0.00	C
ATOM	5537	CG	ASP A 352	47.062	-9.401	-30.976	1.00	0.00	C
ATOM	5538	OD1	ASP A 352	47.124	-10.148	-29.971	1.00	0.00	O
ATOM	5539	OD2	ASP A 352	47.972	-9.284	-31.827	1.00	0.00	O
ATOM	5540	H	ASP A 352	45.803	-9.192	-28.582	1.00	0.00	H
ATOM	5541	HA	ASP A 352	43.818	-8.148	-30.537	1.00	0.00	H
ATOM	5542	HB2	ASP A 352	46.141	-7.463	-30.860	1.00	0.00	H
ATOM	5543	HB3	ASP A 352	45.557	-8.452	-32.189	1.00	0.00	H
ATOM	5544	N	THR A 353	44.066	-11.241	-29.828	1.00	0.00	N
ATOM	5545	CA	THR A 353	43.853	-12.647	-30.209	1.00	0.00	C
ATOM	5546	C	THR A 353	42.453	-12.929	-30.763	1.00	0.00	C
ATOM	5547	O	THR A 353	41.426	-12.483	-30.240	1.00	0.00	O
ATOM	5548	CB	THR A 353	44.200	-13.636	-29.087	1.00	0.00	C
ATOM	5549	OG1	THR A 353	43.480	-13.376	-27.904	1.00	0.00	O
ATOM	5550	CG2	THR A 353	45.697	-13.631	-28.786	1.00	0.00	C
ATOM	5551	H	THR A 353	44.425	-11.039	-28.902	1.00	0.00	H

ATOM	5552	HA	THR A 353	44.554	-12.847	-31.020	1.00	0.00	H
ATOM	5553	HB	THR A 353	43.935	-14.639	-29.424	1.00	0.00	H
ATOM	5554	HG1	THR A 353	43.870	-12.569	-27.510	1.00	0.00	H
ATOM	5555	HG21	THR A 353	46.249	-13.959	-29.666	1.00	0.00	H
ATOM	5556	HG22	THR A 353	46.034	-12.629	-28.521	1.00	0.00	H
ATOM	5557	HG23	THR A 353	45.915	-14.311	-27.966	1.00	0.00	H
ATOM	5558	N	ASN A 354	42.429	-13.715	-31.845	1.00	0.00	N
ATOM	5559	CA	ASN A 354	41.236	-14.024	-32.631	1.00	0.00	C
ATOM	5560	C	ASN A 354	40.294	-14.957	-31.852	1.00	0.00	C
ATOM	5561	O	ASN A 354	40.630	-16.120	-31.626	1.00	0.00	O
ATOM	5562	CB	ASN A 354	41.618	-14.676	-33.983	1.00	0.00	C
ATOM	5563	CG	ASN A 354	42.868	-14.140	-34.658	1.00	0.00	C
ATOM	5564	OD1	ASN A 354	42.810	-13.580	-35.746	1.00	0.00	O
ATOM	5565	ND2	ASN A 354	44.017	-14.604	-34.223	1.00	0.00	N
ATOM	5566	H	ASN A 354	43.313	-14.023	-32.214	1.00	0.00	H
ATOM	5567	HA	ASN A 354	40.725	-13.083	-32.837	1.00	0.00	H
ATOM	5568	HB2	ASN A 354	40.779	-14.562	-34.668	1.00	0.00	H
ATOM	5569	HB3	ASN A 354	41.778	-15.743	-33.834	1.00	0.00	H
ATOM	5570	HD21	ASN A 354	44.018	-15.343	-33.525	1.00	0.00	H
ATOM	5571	HD22	ASN A 354	44.874	-14.262	-34.638	1.00	0.00	H
ATOM	5572	N	ALA A 355	39.044	-14.557	-31.630	1.00	0.00	N
ATOM	5573	CA	ALA A 355	38.017	-15.404	-31.026	1.00	0.00	C
ATOM	5574	C	ALA A 355	36.608	-15.069	-31.542	1.00	0.00	C
ATOM	5575	O	ALA A 355	36.221	-13.909	-31.643	1.00	0.00	O
ATOM	5576	CB	ALA A 355	38.142	-15.320	-29.499	1.00	0.00	C
ATOM	5577	H	ALA A 355	38.783	-13.618	-31.920	1.00	0.00	H
ATOM	5578	HA	ALA A 355	38.217	-16.432	-31.319	1.00	0.00	H
ATOM	5579	HB1	ALA A 355	37.343	-15.891	-29.029	1.00	0.00	H
ATOM	5580	HB2	ALA A 355	39.102	-15.727	-29.185	1.00	0.00	H
ATOM	5581	HB3	ALA A 355	38.096	-14.278	-29.183	1.00	0.00	H

ATOM	5582	N	GLN A 356	35.828	-16.103	-31.874	1.00	0.00	N
ATOM	5583	CA	GLN A 356	34.526	-15.982	-32.544	1.00	0.00	C
ATOM	5584	C	GLN A 356	33.333	-16.170	-31.594	1.00	0.00	C
ATOM	5585	O	GLN A 356	32.337	-15.453	-31.702	1.00	0.00	O
ATOM	5586	CB	GLN A 356	34.480	-16.985	-33.715	1.00	0.00	C
ATOM	5587	CG	GLN A 356	33.157	-16.936	-34.500	1.00	0.00	C
ATOM	5588	CD	GLN A 356	33.195	-17.799	-35.760	1.00	0.00	C
ATOM	5589	OE1	GLN A 356	33.313	-17.314	-36.874	1.00	0.00	O
ATOM	5590	NE2	GLN A 356	33.064	-19.101	-35.649	1.00	0.00	N
ATOM	5591	H	GLN A 356	36.215	-17.030	-31.725	1.00	0.00	H
ATOM	5592	HA	GLN A 356	34.438	-14.979	-32.966	1.00	0.00	H
ATOM	5593	HB2	GLN A 356	35.296	-16.751	-34.400	1.00	0.00	H
ATOM	5594	HB3	GLN A 356	34.632	-17.996	-33.333	1.00	0.00	H
ATOM	5595	HG2	GLN A 356	32.342	-17.284	-33.866	1.00	0.00	H
ATOM	5596	HG3	GLN A 356	32.955	-15.905	-34.794	1.00	0.00	H
ATOM	5597	HE21	GLN A 356	33.000	-19.557	-34.732	1.00	0.00	H
ATOM	5598	HE22	GLN A 356	33.138	-19.652	-36.480	1.00	0.00	H
ATOM	5599	N	LYS A 357	33.388	-17.173	-30.711	1.00	0.00	N
ATOM	5600	CA	LYS A 357	32.240	-17.681	-29.939	1.00	0.00	C
ATOM	5601	C	LYS A 357	32.682	-18.168	-28.565	1.00	0.00	C
ATOM	5602	O	LYS A 357	33.741	-18.776	-28.439	1.00	0.00	O
ATOM	5603	CB	LYS A 357	31.547	-18.790	-30.761	1.00	0.00	C
ATOM	5604	CG	LYS A 357	30.540	-19.664	-29.995	1.00	0.00	C
ATOM	5605	CD	LYS A 357	29.769	-20.596	-30.942	1.00	0.00	C
ATOM	5606	CE	LYS A 357	29.078	-21.752	-30.201	1.00	0.00	C
ATOM	5607	NZ	LYS A 357	28.161	-21.295	-29.126	1.00	0.00	N
ATOM	5608	H	LYS A 357	34.251	-17.700	-30.664	1.00	0.00	H
ATOM	5609	HA	LYS A 357	31.531	-16.868	-29.782	1.00	0.00	H
ATOM	5610	HB2	LYS A 357	31.048	-18.328	-31.615	1.00	0.00	H
ATOM	5611	HB3	LYS A 357	32.314	-19.458	-31.144	1.00	0.00	H

ATOM	5612	HG2 LYS A 357	31.082	-20.276	-29.271	1.00	0.00	H
ATOM	5613	HG3 LYS A 357	29.835	-19.028	-29.463	1.00	0.00	H
ATOM	5614	HD2 LYS A 357	30.468	-21.027	-31.663	1.00	0.00	H
ATOM	5615	HD3 LYS A 357	29.033	-20.017	-31.501	1.00	0.00	H
ATOM	5616	HE2 LYS A 357	28.535	-22.362	-30.932	1.00	0.00	H
ATOM	5617	HE3 LYS A 357	29.848	-22.398	-29.769	1.00	0.00	H
ATOM	5618	HZ1 LYS A 357	28.234	-20.294	-29.012	1.00	0.00	H
ATOM	5619	HZ2 LYS A 357	27.196	-21.512	-29.355	1.00	0.00	H
ATOM	5620	HZ3 LYS A 357	28.374	-21.740	-28.243	1.00	0.00	H
ATOM	5621	N THR A 358	31.786	-18.091	-27.584	1.00	0.00	N
ATOM	5622	CA THR A 358	32.006	-18.621	-26.227	1.00	0.00	C
ATOM	5623	C THR A 358	30.860	-19.538	-25.788	1.00	0.00	C
ATOM	5624	O THR A 358	29.787	-19.525	-26.394	1.00	0.00	O
ATOM	5625	CB THR A 358	32.270	-17.490	-25.212	1.00	0.00	C
ATOM	5626	OG1 THR A 358	31.074	-16.897	-24.765	1.00	0.00	O
ATOM	5627	CG2 THR A 358	33.141	-16.368	-25.790	1.00	0.00	C
ATOM	5628	H THR A 358	30.932	-17.574	-27.756	1.00	0.00	H
ATOM	5629	HA THR A 358	32.904	-19.234	-26.235	1.00	0.00	H
ATOM	5630	HB THR A 358	32.775	-17.927	-24.352	1.00	0.00	H
ATOM	5631	HG1 THR A 358	30.346	-17.278	-25.293	1.00	0.00	H
ATOM	5632	HG21 THR A 358	32.610	-15.830	-26.577	1.00	0.00	H
ATOM	5633	HG22 THR A 358	34.062	-16.785	-26.192	1.00	0.00	H
ATOM	5634	HG23 THR A 358	33.393	-15.649	-25.018	1.00	0.00	H
ATOM	5635	N ILE A 359	31.105	-20.429	-24.825	1.00	0.00	N
ATOM	5636	CA ILE A 359	30.079	-21.182	-24.077	1.00	0.00	C
ATOM	5637	C ILE A 359	30.595	-21.341	-22.645	1.00	0.00	C
ATOM	5638	O ILE A 359	31.689	-21.875	-22.482	1.00	0.00	O
ATOM	5639	CB ILE A 359	29.778	-22.581	-24.683	1.00	0.00	C
ATOM	5640	CG1 ILE A 359	29.423	-22.537	-26.187	1.00	0.00	C
ATOM	5641	CG2 ILE A 359	28.645	-23.257	-23.884	1.00	0.00	C

ATOM	5642	CD1 ILE A 359	29.248	-23.908	-26.847	1.00	0.00	C
ATOM	5643	H ILE A 359	32.060	-20.505	-24.484	1.00	0.00	H
ATOM	5644	HA ILE A 359	29.155	-20.605	-24.054	1.00	0.00	H
ATOM	5645	HB ILE A 359	30.672	-23.197	-24.578	1.00	0.00	H
ATOM	5646	HG12 ILE A 359	30.232	-22.046	-26.727	1.00	0.00	H
ATOM	5647	HG13 ILE A 359	28.508	-21.959	-26.320	1.00	0.00	H
ATOM	5648	HG21 ILE A 359	28.468	-24.269	-24.240	1.00	0.00	H
ATOM	5649	HG22 ILE A 359	27.722	-22.683	-23.976	1.00	0.00	H
ATOM	5650	HG23 ILE A 359	28.904	-23.343	-22.828	1.00	0.00	H
ATOM	5651	HD11 ILE A 359	29.126	-23.779	-27.920	1.00	0.00	H
ATOM	5652	HD12 ILE A 359	30.133	-24.518	-26.666	1.00	0.00	H
ATOM	5653	HD13 ILE A 359	28.366	-24.413	-26.457	1.00	0.00	H
ATOM	5654	N THR A 360	29.848	-20.909	-21.625	1.00	0.00	N
ATOM	5655	CA THR A 360	30.239	-21.043	-20.209	1.00	0.00	C
ATOM	5656	C THR A 360	29.170	-21.768	-19.397	1.00	0.00	C
ATOM	5657	O THR A 360	28.071	-21.240	-19.221	1.00	0.00	O
ATOM	5658	CB THR A 360	30.554	-19.680	-19.570	1.00	0.00	C
ATOM	5659	OG1 THR A 360	31.510	-18.986	-20.352	1.00	0.00	O
ATOM	5660	CG2 THR A 360	31.101	-19.840	-18.148	1.00	0.00	C
ATOM	5661	H THR A 360	28.953	-20.464	-21.828	1.00	0.00	H
ATOM	5662	HA THR A 360	31.147	-21.635	-20.150	1.00	0.00	H
ATOM	5663	HB THR A 360	29.646	-19.076	-19.532	1.00	0.00	H
ATOM	5664	HG1 THR A 360	31.195	-18.072	-20.349	1.00	0.00	H
ATOM	5665	HG21 THR A 360	31.458	-18.886	-17.767	1.00	0.00	H
ATOM	5666	HG22 THR A 360	31.917	-20.562	-18.137	1.00	0.00	H
ATOM	5667	HG23 THR A 360	30.307	-20.191	-17.488	1.00	0.00	H
ATOM	5668	N ASP A 361	29.554	-22.875	-18.757	1.00	0.00	N
ATOM	5669	CA ASP A 361	28.732	-23.626	-17.797	1.00	0.00	C
ATOM	5670	C ASP A 361	29.445	-23.727	-16.432	1.00	0.00	C
ATOM	5671	O ASP A 361	30.665	-23.899	-16.383	1.00	0.00	O



ATOM	5672	CB	ASP A 361	28.341	-25.012	-18.352	1.00	0.00	C
ATOM	5673	CG	ASP A 361	27.499	-25.017	-19.645	1.00	0.00	C
ATOM	5674	OD1	ASP A 361	26.931	-23.966	-20.023	1.00	0.00	O
ATOM	5675	OD2	ASP A 361	27.259	-26.122	-20.172	1.00	0.00	O
ATOM	5676	H	ASP A 361	30.515	-23.185	-18.872	1.00	0.00	H
ATOM	5677	HA	ASP A 361	27.806	-23.087	-17.636	1.00	0.00	H
ATOM	5678	HB2	ASP A 361	27.766	-25.528	-17.581	1.00	0.00	H
ATOM	5679	HB3	ASP A 361	29.253	-25.587	-18.525	1.00	0.00	H
ATOM	5680	N	CYS A 362	28.711	-23.600	-15.317	1.00	0.00	N
ATOM	5681	CA	CYS A 362	29.288	-23.544	-13.963	1.00	0.00	C
ATOM	5682	C	CYS A 362	28.628	-24.526	-12.979	1.00	0.00	C
ATOM	5683	O	CYS A 362	27.448	-24.856	-13.087	1.00	0.00	O
ATOM	5684	CB	CYS A 362	29.248	-22.110	-13.412	1.00	0.00	C
ATOM	5685	SG	CYS A 362	29.929	-20.789	-14.458	1.00	0.00	S
ATOM	5686	H	CYS A 362	27.710	-23.484	-15.398	1.00	0.00	H
ATOM	5687	HA	CYS A 362	30.330	-23.843	-14.021	1.00	0.00	H
ATOM	5688	HB2	CYS A 362	29.773	-22.089	-12.457	1.00	0.00	H
ATOM	5689	HB3	CYS A 362	28.207	-21.865	-13.210	1.00	0.00	H
ATOM	5690	N	PHE A 363	29.408	-24.998	-12.005	1.00	0.00	N
ATOM	5691	CA	PHE A 363	29.070	-26.101	-11.101	1.00	0.00	C
ATOM	5692	C	PHE A 363	29.947	-26.077	-9.832	1.00	0.00	C
ATOM	5693	O	PHE A 363	30.757	-25.170	-9.634	1.00	0.00	O
ATOM	5694	CB	PHE A 363	29.207	-27.430	-11.875	1.00	0.00	C
ATOM	5695	CG	PHE A 363	30.536	-27.636	-12.581	1.00	0.00	C
ATOM	5696	CD1	PHE A 363	31.601	-28.282	-11.925	1.00	0.00	C
ATOM	5697	CD2	PHE A 363	30.700	-27.194	-13.909	1.00	0.00	C
ATOM	5698	CE1	PHE A 363	32.823	-28.480	-12.591	1.00	0.00	C
ATOM	5699	CE2	PHE A 363	31.923	-27.385	-14.572	1.00	0.00	C
ATOM	5700	CZ	PHE A 363	32.984	-28.030	-13.914	1.00	0.00	C
ATOM	5701	H	PHE A 363	30.362	-24.648	-11.955	1.00	0.00	H

ATOM	5702	HA	PHE A 363	28.032	-25.997	-10.784	1.00	0.00	H
ATOM	5703	HB2	PHE A 363	28.416	-27.470	-12.625	1.00	0.00	H
ATOM	5704	HB3	PHE A 363	29.030	-28.269	-11.200	1.00	0.00	H
ATOM	5705	HD1	PHE A 363	31.479	-28.650	-10.917	1.00	0.00	H
ATOM	5706	HD2	PHE A 363	29.882	-26.715	-14.429	1.00	0.00	H
ATOM	5707	HE1	PHE A 363	33.626	-29.002	-12.092	1.00	0.00	H
ATOM	5708	HE2	PHE A 363	32.032	-27.051	-15.594	1.00	0.00	H
ATOM	5709	HZ	PHE A 363	33.915	-28.200	-14.432	1.00	0.00	H
ATOM	5710	N	LEU A 364	29.728	-27.028	-8.919	1.00	0.00	N
ATOM	5711	CA	LEU A 364	30.560	-27.230	-7.728	1.00	0.00	C
ATOM	5712	C	LEU A 364	31.562	-28.372	-7.941	1.00	0.00	C
ATOM	5713	O	LEU A 364	31.174	-29.437	-8.414	1.00	0.00	O
ATOM	5714	CB	LEU A 364	29.673	-27.522	-6.502	1.00	0.00	C
ATOM	5715	CG	LEU A 364	28.669	-26.417	-6.127	1.00	0.00	C
ATOM	5716	CD1	LEU A 364	27.853	-26.858	-4.912	1.00	0.00	C
ATOM	5717	CD2	LEU A 364	29.362	-25.101	-5.780	1.00	0.00	C
ATOM	5718	H	LEU A 364	29.099	-27.778	-9.164	1.00	0.00	H
ATOM	5719	HA	LEU A 364	31.135	-26.327	-7.531	1.00	0.00	H
ATOM	5720	HB2	LEU A 364	29.118	-28.442	-6.692	1.00	0.00	H
ATOM	5721	HB3	LEU A 364	30.325	-27.703	-5.649	1.00	0.00	H
ATOM	5722	HG	LEU A 364	27.984	-26.247	-6.957	1.00	0.00	H
ATOM	5723	HD11	LEU A 364	27.325	-27.784	-5.140	1.00	0.00	H
ATOM	5724	HD12	LEU A 364	27.119	-26.092	-4.662	1.00	0.00	H
ATOM	5725	HD13	LEU A 364	28.506	-27.020	-4.054	1.00	0.00	H
ATOM	5726	HD21	LEU A 364	28.621	-24.368	-5.463	1.00	0.00	H
ATOM	5727	HD22	LEU A 364	29.875	-24.717	-6.658	1.00	0.00	H
ATOM	5728	HD23	LEU A 364	30.079	-25.254	-4.976	1.00	0.00	H
ATOM	5729	N	LEU A 365	32.764	-28.232	-7.381	1.00	0.00	N
ATOM	5730	CA	LEU A 365	33.765	-29.298	-7.254	1.00	0.00	C
ATOM	5731	C	LEU A 365	34.573	-29.096	-5.958	1.00	0.00	C

ATOM	5732	O	LEU A 365	34.895	-27.959	-5.620	1.00	0.00	O
ATOM	5733	CB	LEU A 365	34.638	-29.307	-8.520	1.00	0.00	C
ATOM	5734	CG	LEU A 365	35.660	-30.462	-8.538	1.00	0.00	C
ATOM	5735	CD1	LEU A 365	35.408	-31.381	-9.734	1.00	0.00	C
ATOM	5736	CD2	LEU A 365	37.081	-29.901	-8.594	1.00	0.00	C
ATOM	5737	H	LEU A 365	33.019	-27.317	-7.019	1.00	0.00	H
ATOM	5738	HA	LEU A 365	33.250	-30.259	-7.194	1.00	0.00	H
ATOM	5739	HB2	LEU A 365	33.986	-29.380	-9.392	1.00	0.00	H
ATOM	5740	HB3	LEU A 365	35.157	-28.354	-8.592	1.00	0.00	H
ATOM	5741	HG	LEU A 365	35.558	-31.060	-7.632	1.00	0.00	H
ATOM	5742	HD11	LEU A 365	34.366	-31.701	-9.747	1.00	0.00	H
ATOM	5743	HD12	LEU A 365	36.023	-32.275	-9.638	1.00	0.00	H
ATOM	5744	HD13	LEU A 365	35.643	-30.880	-10.671	1.00	0.00	H
ATOM	5745	HD21	LEU A 365	37.255	-29.247	-7.741	1.00	0.00	H
ATOM	5746	HD22	LEU A 365	37.794	-30.721	-8.533	1.00	0.00	H
ATOM	5747	HD23	LEU A 365	37.246	-29.353	-9.518	1.00	0.00	H
ATOM	5748	N	GLU A 366	34.601	-30.118	-5.091	1.00	0.00	N
ATOM	5749	CA	GLU A 366	34.884	-29.983	-3.643	1.00	0.00	C
ATOM	5750	C	GLU A 366	34.048	-28.886	-2.936	1.00	0.00	C
ATOM	5751	O	GLU A 366	34.477	-28.274	-1.959	1.00	0.00	O
ATOM	5752	CB	GLU A 366	36.395	-29.860	-3.355	1.00	0.00	C
ATOM	5753	CG	GLU A 366	37.145	-31.198	-3.465	1.00	0.00	C
ATOM	5754	CD	GLU A 366	38.190	-31.378	-2.348	1.00	0.00	C
ATOM	5755	OE1	GLU A 366	38.821	-30.375	-1.927	1.00	0.00	O
ATOM	5756	OE2	GLU A 366	38.681	-32.516	-2.173	1.00	0.00	O
ATOM	5757	H	GLU A 366	34.370	-31.037	-5.440	1.00	0.00	H
ATOM	5758	HA	GLU A 366	34.554	-30.909	-3.170	1.00	0.00	H
ATOM	5759	HB2	GLU A 366	36.510	-29.515	-2.329	1.00	0.00	H
ATOM	5760	HB3	GLU A 366	36.856	-29.118	-4.008	1.00	0.00	H
ATOM	5761	HG2	GLU A 366	37.630	-31.256	-4.443	1.00	0.00	H

ATOM	5762	HG3 GLU A 366	36.432	-32.022	-3.396	1.00	0.00	H
ATOM	5763	N ASN A 367	32.802	-28.675	-3.380	1.00	0.00	N
ATOM	5764	CA ASN A 367	31.907	-27.593	-2.925	1.00	0.00	C
ATOM	5765	C ASN A 367	32.383	-26.165	-3.288	1.00	0.00	C
ATOM	5766	O ASN A 367	31.709	-25.190	-2.958	1.00	0.00	O
ATOM	5767	CB ASN A 367	31.563	-27.725	-1.424	1.00	0.00	C
ATOM	5768	CG ASN A 367	31.368	-29.150	-0.942	1.00	0.00	C
ATOM	5769	OD1 ASN A 367	30.305	-29.730	-1.059	1.00	0.00	O
ATOM	5770	ND2 ASN A 367	32.399	-29.764	-0.407	1.00	0.00	N
ATOM	5771	H ASN A 367	32.498	-29.235	-4.161	1.00	0.00	H
ATOM	5772	HA ASN A 367	30.969	-27.732	-3.461	1.00	0.00	H
ATOM	5773	HB2 ASN A 367	32.357	-27.270	-0.832	1.00	0.00	H
ATOM	5774	HB3 ASN A 367	30.649	-27.170	-1.218	1.00	0.00	H
ATOM	5775	HD21 ASN A 367	33.303	-29.311	-0.454	1.00	0.00	H
ATOM	5776	HD22 ASN A 367	32.270	-30.720	-0.134	1.00	0.00	H
ATOM	5777	N VAL A 368	33.491	-26.020	-4.022	1.00	0.00	N
ATOM	5778	CA VAL A 368	33.969	-24.747	-4.578	1.00	0.00	C
ATOM	5779	C VAL A 368	33.324	-24.503	-5.943	1.00	0.00	C
ATOM	5780	O VAL A 368	33.290	-25.400	-6.783	1.00	0.00	O
ATOM	5781	CB VAL A 368	35.508	-24.732	-4.680	1.00	0.00	C
ATOM	5782	CG1 VAL A 368	36.033	-23.389	-5.208	1.00	0.00	C
ATOM	5783	CG2 VAL A 368	36.160	-24.977	-3.311	1.00	0.00	C
ATOM	5784	H VAL A 368	33.989	-26.857	-4.310	1.00	0.00	H
ATOM	5785	HA VAL A 368	33.669	-23.943	-3.907	1.00	0.00	H
ATOM	5786	HB VAL A 368	35.837	-25.513	-5.364	1.00	0.00	H
ATOM	5787	HG21 VAL A 368	35.901	-25.974	-2.949	1.00	0.00	H
ATOM	5788	HG22 VAL A 368	37.245	-24.929	-3.397	1.00	0.00	H
ATOM	5789	HG23 VAL A 368	35.814	-24.238	-2.588	1.00	0.00	H
ATOM	5790	HG11 VAL A 368	35.705	-23.237	-6.236	1.00	0.00	H
ATOM	5791	HG12 VAL A 368	37.123	-23.403	-5.202	1.00	0.00	H

ATOM	5792	HG13 VAL A 368	35.676	-22.572	-4.582	1.00	0.00	H
ATOM	5793	N ILE A 369	32.876	-23.270	-6.200	1.00	0.00	N
ATOM	5794	CA ILE A 369	32.316	-22.881	-7.499	1.00	0.00	C
ATOM	5795	C ILE A 369	33.428	-22.871	-8.564	1.00	0.00	C
ATOM	5796	O ILE A 369	34.371	-22.074	-8.495	1.00	0.00	O
ATOM	5797	CB ILE A 369	31.559	-21.530	-7.438	1.00	0.00	C
ATOM	5798	CG1 ILE A 369	30.408	-21.464	-6.404	1.00	0.00	C
ATOM	5799	CG2 ILE A 369	30.949	-21.216	-8.819	1.00	0.00	C
ATOM	5800	CD1 ILE A 369	30.844	-21.176	-4.960	1.00	0.00	C
ATOM	5801	H ILE A 369	32.924	-22.578	-5.473	1.00	0.00	H
ATOM	5802	HA ILE A 369	31.591	-23.642	-7.788	1.00	0.00	H
ATOM	5803	HB ILE A 369	32.268	-20.742	-7.194	1.00	0.00	H
ATOM	5804	HG12 ILE A 369	29.830	-22.386	-6.436	1.00	0.00	H
ATOM	5805	HG13 ILE A 369	29.734	-20.653	-6.681	1.00	0.00	H
ATOM	5806	HG21 ILE A 369	30.446	-20.248	-8.802	1.00	0.00	H
ATOM	5807	HG22 ILE A 369	31.716	-21.179	-9.591	1.00	0.00	H
ATOM	5808	HG23 ILE A 369	30.223	-21.985	-9.091	1.00	0.00	H
ATOM	5809	HD11 ILE A 369	29.959	-20.971	-4.357	1.00	0.00	H
ATOM	5810	HD12 ILE A 369	31.498	-20.304	-4.933	1.00	0.00	H
ATOM	5811	HD13 ILE A 369	31.353	-22.035	-4.527	1.00	0.00	H
ATOM	5812	N TRP A 370	33.221	-23.646	-9.624	1.00	0.00	N
ATOM	5813	CA TRP A 370	34.004	-23.652	-10.859	1.00	0.00	C
ATOM	5814	C TRP A 370	33.111	-23.305	-12.051	1.00	0.00	C
ATOM	5815	O TRP A 370	31.931	-23.647	-12.076	1.00	0.00	O
ATOM	5816	CB TRP A 370	34.646	-25.033	-11.057	1.00	0.00	C
ATOM	5817	CG TRP A 370	35.935	-25.278	-10.333	1.00	0.00	C
ATOM	5818	CD1 TRP A 370	36.062	-25.804	-9.094	1.00	0.00	C
ATOM	5819	CD2 TRP A 370	37.300	-25.058	-10.811	1.00	0.00	C
ATOM	5820	NE1 TRP A 370	37.401	-25.981	-8.797	1.00	0.00	N
ATOM	5821	CE2 TRP A 370	38.209	-25.521	-9.814	1.00	0.00	C

ATOM	5822	CE3 TRP A 370	37.861	-24.560	-12.008	1.00	0.00	C
ATOM	5823	CZ2 TRP A 370	39.600	-25.486	-9.992	1.00	0.00	C
ATOM	5824	CZ3 TRP A 370	39.260	-24.502	-12.189	1.00	0.00	C
ATOM	5825	CH2 TRP A 370	40.127	-24.969	-11.188	1.00	0.00	C
ATOM	5826	H TRP A 370	32.381	-24.220	-9.628	1.00	0.00	H
ATOM	5827	HA TRP A 370	34.795	-22.906	-10.811	1.00	0.00	H
ATOM	5828	HB2 TRP A 370	34.856	-25.166	-12.119	1.00	0.00	H
ATOM	5829	HB3 TRP A 370	33.928	-25.809	-10.785	1.00	0.00	H
ATOM	5830	HD1 TRP A 370	35.228	-26.104	-8.464	1.00	0.00	H
ATOM	5831	HE3 TRP A 370	37.199	-24.243	-12.800	1.00	0.00	H
ATOM	5832	HZ2 TRP A 370	40.251	-25.888	-9.229	1.00	0.00	H
ATOM	5833	HZ3 TRP A 370	39.672	-24.128	-13.115	1.00	0.00	H
ATOM	5834	HH2 TRP A 370	41.194	-24.953	-11.349	1.00	0.00	H
ATOM	5835	HE1 TRP A 370	37.724	-26.535	-8.013	1.00	0.00	H
ATOM	5836	N CYS A 371	33.726	-22.774	-13.102	1.00	0.00	N
ATOM	5837	CA CYS A 371	33.159	-22.695	-14.442	1.00	0.00	C
ATOM	5838	C CYS A 371	34.091	-23.385	-15.442	1.00	0.00	C
ATOM	5839	O CYS A 371	35.315	-23.285	-15.323	1.00	0.00	O
ATOM	5840	CB CYS A 371	32.919	-21.229	-14.810	1.00	0.00	C
ATOM	5841	SG CYS A 371	31.775	-20.338	-13.723	1.00	0.00	S
ATOM	5842	H CYS A 371	34.693	-22.492	-13.002	1.00	0.00	H
ATOM	5843	HA CYS A 371	32.205	-23.213	-14.472	1.00	0.00	H
ATOM	5844	HB2 CYS A 371	33.879	-20.711	-14.791	1.00	0.00	H
ATOM	5845	HB3 CYS A 371	32.533	-21.179	-15.828	1.00	0.00	H
ATOM	5846	N ILE A 372	33.514	-23.989	-16.478	1.00	0.00	N
ATOM	5847	CA ILE A 372	34.205	-24.331	-17.721	1.00	0.00	C
ATOM	5848	C ILE A 372	33.719	-23.359	-18.793	1.00	0.00	C
ATOM	5849	O ILE A 372	32.521	-23.297	-19.076	1.00	0.00	O
ATOM	5850	CB ILE A 372	33.947	-25.805	-18.112	1.00	0.00	C
ATOM	5851	CG1 ILE A 372	34.562	-26.794	-17.094	1.00	0.00	C

ATOM	5852	CG2 ILE A 372	34.447	-26.109	-19.538	1.00	0.00	C
ATOM	5853	CD1 ILE A 372	36.087	-26.936	-17.155	1.00	0.00	C
ATOM	5854	H ILE A 372	32.496	-23.990	-16.515	1.00	0.00	H
ATOM	5855	HA ILE A 372	35.278	-24.189	-17.603	1.00	0.00	H
ATOM	5856	HB ILE A 372	32.866	-25.964	-18.106	1.00	0.00	H
ATOM	5857	HG12 ILE A 372	34.295	-26.483	-16.086	1.00	0.00	H
ATOM	5858	HG13 ILE A 372	34.125	-27.780	-17.260	1.00	0.00	H
ATOM	5859	HG21 ILE A 372	34.319	-27.170	-19.755	1.00	0.00	H
ATOM	5860	HG22 ILE A 372	35.498	-25.838	-19.645	1.00	0.00	H
ATOM	5861	HG23 ILE A 372	33.867	-25.544	-20.267	1.00	0.00	H
ATOM	5862	HD11 ILE A 372	36.560	-25.959	-17.102	1.00	0.00	H
ATOM	5863	HD12 ILE A 372	36.434	-27.544	-16.322	1.00	0.00	H
ATOM	5864	HD13 ILE A 372	36.374	-27.427	-18.082	1.00	0.00	H
ATOM	5865	N SER A 373	34.655	-22.674	-19.445	1.00	0.00	N
ATOM	5866	CA SER A 373	34.400	-21.909	-20.663	1.00	0.00	C
ATOM	5867	C SER A 373	35.076	-22.576	-21.855	1.00	0.00	C
ATOM	5868	O SER A 373	36.304	-22.649	-21.926	1.00	0.00	O
ATOM	5869	CB SER A 373	34.860	-20.458	-20.526	1.00	0.00	C
ATOM	5870	OG SER A 373	34.121	-19.796	-19.517	1.00	0.00	O
ATOM	5871	H SER A 373	35.622	-22.790	-19.160	1.00	0.00	H
ATOM	5872	HA SER A 373	33.332	-21.883	-20.845	1.00	0.00	H
ATOM	5873	HB2 SER A 373	35.921	-20.434	-20.273	1.00	0.00	H
ATOM	5874	HB3 SER A 373	34.711	-19.942	-21.477	1.00	0.00	H
ATOM	5875	HG SER A 373	33.565	-19.107	-19.925	1.00	0.00	H
ATOM	5876	N LEU A 374	34.289	-22.959	-22.858	1.00	0.00	N
ATOM	5877	CA LEU A 374	34.793	-23.130	-24.216	1.00	0.00	C
ATOM	5878	C LEU A 374	34.934	-21.749	-24.865	1.00	0.00	C
ATOM	5879	O LEU A 374	33.976	-20.972	-24.866	1.00	0.00	O
ATOM	5880	CB LEU A 374	33.834	-24.034	-25.013	1.00	0.00	C
ATOM	5881	CG LEU A 374	34.391	-24.484	-26.376	1.00	0.00	C

ATOM	5882	CD1 LEU A 374	35.487	-25.538	-26.208	1.00	0.00	C
ATOM	5883	CD2 LEU A 374	33.282	-25.103	-27.222	1.00	0.00	C
ATOM	5884	H LEU A 374	33.295	-22.780	-22.750	1.00	0.00	H
ATOM	5885	HA LEU A 374	35.777	-23.597	-24.172	1.00	0.00	H
ATOM	5886	HB2 LEU A 374	33.599	-24.918	-24.424	1.00	0.00	H
ATOM	5887	HB3 LEU A 374	32.906	-23.486	-25.175	1.00	0.00	H
ATOM	5888	HG LEU A 374	34.794	-23.630	-26.919	1.00	0.00	H
ATOM	5889	HD11 LEU A 374	36.346	-25.110	-25.694	1.00	0.00	H
ATOM	5890	HD12 LEU A 374	35.810	-25.900	-27.179	1.00	0.00	H
ATOM	5891	HD13 LEU A 374	35.098	-26.384	-25.645	1.00	0.00	H
ATOM	5892	HD21 LEU A 374	33.702	-25.457	-28.163	1.00	0.00	H
ATOM	5893	HD22 LEU A 374	32.520	-24.353	-27.431	1.00	0.00	H
ATOM	5894	HD23 LEU A 374	32.830	-25.945	-26.698	1.00	0.00	H
ATOM	5895	N VAL A 375	36.044	-21.521	-25.565	1.00	0.00	N
ATOM	5896	CA VAL A 375	36.191	-20.403	-26.507	1.00	0.00	C
ATOM	5897	C VAL A 375	36.578	-20.959	-27.873	1.00	0.00	C
ATOM	5898	O VAL A 375	37.483	-21.783	-27.971	1.00	0.00	O
ATOM	5899	CB VAL A 375	37.206	-19.351	-26.014	1.00	0.00	C
ATOM	5900	CG1 VAL A 375	37.118	-18.073	-26.857	1.00	0.00	C
ATOM	5901	CG2 VAL A 375	36.977	-18.946	-24.552	1.00	0.00	C
ATOM	5902	H VAL A 375	36.813	-22.183	-25.505	1.00	0.00	H
ATOM	5903	HA VAL A 375	35.232	-19.898	-26.617	1.00	0.00	H
ATOM	5904	HB VAL A 375	38.214	-19.760	-26.102	1.00	0.00	H
ATOM	5905	HG11 VAL A 375	37.916	-17.387	-26.572	1.00	0.00	H
ATOM	5906	HG12 VAL A 375	37.219	-18.300	-27.917	1.00	0.00	H
ATOM	5907	HG13 VAL A 375	36.157	-17.584	-26.704	1.00	0.00	H
ATOM	5908	HG21 VAL A 375	37.682	-18.162	-24.278	1.00	0.00	H
ATOM	5909	HG22 VAL A 375	35.957	-18.584	-24.419	1.00	0.00	H
ATOM	5910	HG23 VAL A 375	37.147	-19.796	-23.893	1.00	0.00	H
ATOM	5911	N GLU A 376	35.851	-20.579	-28.919	1.00	0.00	N



ATOM	5912	CA	GLU A 376	36.264	-20.747	-30.313	1.00	0.00	C
ATOM	5913	C	GLU A 376	37.273	-19.642	-30.657	1.00	0.00	C
ATOM	5914	O	GLU A 376	36.888	-18.483	-30.801	1.00	0.00	O
ATOM	5915	CB	GLU A 376	35.017	-20.720	-31.211	1.00	0.00	C
ATOM	5916	CG	GLU A 376	35.308	-21.117	-32.667	1.00	0.00	C
ATOM	5917	CD	GLU A 376	34.017	-21.277	-33.488	1.00	0.00	C
ATOM	5918	OE1	GLU A 376	33.056	-20.506	-33.262	1.00	0.00	O
ATOM	5919	OE2	GLU A 376	33.985	-22.125	-34.409	1.00	0.00	O
ATOM	5920	H	GLU A 376	35.124	-19.892	-28.747	1.00	0.00	H
ATOM	5921	HA	GLU A 376	36.746	-21.714	-30.440	1.00	0.00	H
ATOM	5922	HB2	GLU A 376	34.285	-21.417	-30.802	1.00	0.00	H
ATOM	5923	HB3	GLU A 376	34.585	-19.721	-31.192	1.00	0.00	H
ATOM	5924	HG2	GLU A 376	35.859	-22.060	-32.670	1.00	0.00	H
ATOM	5925	HG3	GLU A 376	35.942	-20.356	-33.128	1.00	0.00	H
ATOM	5926	N	ILE A 377	38.560	-19.974	-30.551	1.00	0.00	N
ATOM	5927	CA	ILE A 377	39.715	-19.063	-30.511	1.00	0.00	C
ATOM	5928	C	ILE A 377	40.825	-19.616	-31.409	1.00	0.00	C
ATOM	5929	O	ILE A 377	40.956	-20.835	-31.533	1.00	0.00	O
ATOM	5930	CB	ILE A 377	40.193	-18.856	-29.044	1.00	0.00	C
ATOM	5931	CG1	ILE A 377	41.370	-17.861	-28.895	1.00	0.00	C
ATOM	5932	CG2	ILE A 377	40.575	-20.189	-28.381	1.00	0.00	C
ATOM	5933	CD1	ILE A 377	41.760	-17.543	-27.445	1.00	0.00	C
ATOM	5934	H	ILE A 377	38.792	-20.946	-30.417	1.00	0.00	H
ATOM	5935	HA	ILE A 377	39.417	-18.098	-30.910	1.00	0.00	H
ATOM	5936	HB	ILE A 377	39.355	-18.439	-28.493	1.00	0.00	H
ATOM	5937	HG12	ILE A 377	41.090	-16.919	-29.357	1.00	0.00	H
ATOM	5938	HG13	ILE A 377	42.257	-18.239	-29.405	1.00	0.00	H
ATOM	5939	HG21	ILE A 377	39.786	-20.926	-28.493	1.00	0.00	H
ATOM	5940	HG22	ILE A 377	41.480	-20.569	-28.849	1.00	0.00	H
ATOM	5941	HG23	ILE A 377	40.746	-20.042	-27.317	1.00	0.00	H

ATOM	5942	HD11	ILE	A	377	42.441	-16.693	-27.441	1.00	0.00	H
ATOM	5943	HD12	ILE	A	377	42.272	-18.391	-26.991	1.00	0.00	H
ATOM	5944	HD13	ILE	A	377	40.873	-17.294	-26.862	1.00	0.00	H
ATOM	5945	N	TYR	A	378	41.666	-18.748	-31.963	1.00	0.00	N
ATOM	5946	CA	TYR	A	378	42.959	-19.143	-32.511	1.00	0.00	C
ATOM	5947	C	TYR	A	378	44.014	-18.052	-32.337	1.00	0.00	C
ATOM	5948	O	TYR	A	378	43.752	-16.851	-32.448	1.00	0.00	O
ATOM	5949	CB	TYR	A	378	42.828	-19.608	-33.963	1.00	0.00	C
ATOM	5950	CG	TYR	A	378	42.441	-18.546	-34.974	1.00	0.00	C
ATOM	5951	CD1	TYR	A	378	43.450	-17.841	-35.654	1.00	0.00	C
ATOM	5952	CD2	TYR	A	378	41.086	-18.255	-35.223	1.00	0.00	C
ATOM	5953	CE1	TYR	A	378	43.111	-16.807	-36.546	1.00	0.00	C
ATOM	5954	CE2	TYR	A	378	40.740	-17.229	-36.127	1.00	0.00	C
ATOM	5955	CZ	TYR	A	378	41.755	-16.488	-36.770	1.00	0.00	C
ATOM	5956	OH	TYR	A	378	41.435	-15.394	-37.504	1.00	0.00	O
ATOM	5957	H	TYR	A	378	41.514	-17.751	-31.822	1.00	0.00	H
ATOM	5958	HA	TYR	A	378	43.310	-20.003	-31.939	1.00	0.00	H
ATOM	5959	HB2	TYR	A	378	43.782	-20.030	-34.263	1.00	0.00	H
ATOM	5960	HB3	TYR	A	378	42.114	-20.422	-33.987	1.00	0.00	H
ATOM	5961	HD1	TYR	A	378	44.491	-18.061	-35.454	1.00	0.00	H
ATOM	5962	HD2	TYR	A	378	40.315	-18.787	-34.685	1.00	0.00	H
ATOM	5963	HE1	TYR	A	378	43.883	-16.218	-37.014	1.00	0.00	H
ATOM	5964	HE2	TYR	A	378	39.709	-16.955	-36.281	1.00	0.00	H
ATOM	5965	HH	TYR	A	378	42.146	-14.737	-37.421	1.00	0.00	H
ATOM	5966	N	ASP	A	379	45.229	-18.505	-32.081	1.00	0.00	N
ATOM	5967	CA	ASP	A	379	46.409	-17.666	-31.941	1.00	0.00	C
ATOM	5968	C	ASP	A	379	46.945	-17.392	-33.360	1.00	0.00	C
ATOM	5969	O	ASP	A	379	46.771	-18.225	-34.255	1.00	0.00	O
ATOM	5970	CB	ASP	A	379	47.446	-18.347	-31.017	1.00	0.00	C
ATOM	5971	CG	ASP	A	379	46.906	-18.974	-29.706	1.00	0.00	C

ATOM	5972	OD1 ASP A 379	45.724	-18.749	-29.347	1.00	0.00	O
ATOM	5973	OD2 ASP A 379	47.461	-20.027	-29.313	1.00	0.00	O
ATOM	5974	H ASP A 379	45.380	-19.510	-32.129	1.00	0.00	H
ATOM	5975	HA ASP A 379	46.118	-16.721	-31.479	1.00	0.00	H
ATOM	5976	HB2 ASP A 379	47.936	-19.136	-31.593	1.00	0.00	H
ATOM	5977	HB3 ASP A 379	48.209	-17.610	-30.761	1.00	0.00	H
ATOM	5978	N THR A 380	47.505	-16.206	-33.627	1.00	0.00	N
ATOM	5979	CA THR A 380	47.855	-15.758	-34.996	1.00	0.00	C
ATOM	5980	C THR A 380	49.080	-16.505	-35.558	1.00	0.00	C
ATOM	5981	O THR A 380	50.196	-15.993	-35.596	1.00	0.00	O
ATOM	5982	CB THR A 380	47.994	-14.225	-35.055	1.00	0.00	C
ATOM	5983	OG1 THR A 380	46.804	-13.651	-34.556	1.00	0.00	O
ATOM	5984	CG2 THR A 380	48.147	-13.683	-36.478	1.00	0.00	C
ATOM	5985	H THR A 380	47.552	-15.520	-32.888	1.00	0.00	H
ATOM	5986	HA THR A 380	47.015	-16.009	-35.643	1.00	0.00	H
ATOM	5987	HB THR A 380	48.837	-13.903	-34.442	1.00	0.00	H
ATOM	5988	HG1 THR A 380	47.005	-12.751	-34.267	1.00	0.00	H
ATOM	5989	HG21 THR A 380	48.158	-12.594	-36.455	1.00	0.00	H
ATOM	5990	HG22 THR A 380	47.314	-14.019	-37.097	1.00	0.00	H
ATOM	5991	HG23 THR A 380	49.084	-14.026	-36.915	1.00	0.00	H
ATOM	5992	N GLY A 381	48.872	-17.784	-35.881	1.00	0.00	N
ATOM	5993	CA GLY A 381	49.893	-18.808	-36.122	1.00	0.00	C
ATOM	5994	C GLY A 381	49.376	-20.258	-36.023	1.00	0.00	C
ATOM	5995	O GLY A 381	50.028	-21.162	-36.541	1.00	0.00	O
ATOM	5996	H GLY A 381	47.931	-18.116	-35.707	1.00	0.00	H
ATOM	5997	HA2 GLY A 381	50.690	-18.688	-35.389	1.00	0.00	H
ATOM	5998	HA3 GLY A 381	50.316	-18.663	-37.116	1.00	0.00	H
ATOM	5999	N ASP A 382	48.168	-20.490	-35.488	1.00	0.00	N
ATOM	6000	CA ASP A 382	47.481	-21.792	-35.521	1.00	0.00	C
ATOM	6001	C ASP A 382	47.144	-22.237	-36.963	1.00	0.00	C

ATOM	6002	O	ASP A 382	46.095	-21.890	-37.507	1.00	0.00	O
ATOM	6003	CB	ASP A 382	46.181	-21.726	-34.690	1.00	0.00	C
ATOM	6004	CG	ASP A 382	46.356	-21.843	-33.174	1.00	0.00	C
ATOM	6005	OD1	ASP A 382	47.052	-22.799	-32.764	1.00	0.00	O
ATOM	6006	OD2	ASP A 382	45.466	-21.325	-32.460	1.00	0.00	O
ATOM	6007	H	ASP A 382	47.671	-19.725	-35.045	1.00	0.00	H
ATOM	6008	HA	ASP A 382	48.130	-22.547	-35.076	1.00	0.00	H
ATOM	6009	HB2	ASP A 382	45.674	-20.793	-34.932	1.00	0.00	H
ATOM	6010	HB3	ASP A 382	45.529	-22.548	-34.994	1.00	0.00	H
ATOM	6011	N	SER A 383	47.910	-23.191	-37.507	1.00	0.00	N
ATOM	6012	CA	SER A 383	47.548	-23.910	-38.748	1.00	0.00	C
ATOM	6013	C	SER A 383	46.277	-24.760	-38.597	1.00	0.00	C
ATOM	6014	O	SER A 383	45.556	-24.997	-39.568	1.00	0.00	O
ATOM	6015	CB	SER A 383	48.680	-24.854	-39.169	1.00	0.00	C
ATOM	6016	OG	SER A 383	49.909	-24.161	-39.274	1.00	0.00	O
ATOM	6017	H	SER A 383	48.843	-23.308	-37.136	1.00	0.00	H
ATOM	6018	HA	SER A 383	47.380	-23.185	-39.544	1.00	0.00	H
ATOM	6019	HB2	SER A 383	48.782	-25.648	-38.428	1.00	0.00	H
ATOM	6020	HB3	SER A 383	48.434	-25.303	-40.132	1.00	0.00	H
ATOM	6021	HG	SER A 383	50.607	-24.788	-39.476	1.00	0.00	H
ATOM	6022	N	VAL A 384	46.026	-25.245	-37.375	1.00	0.00	N
ATOM	6023	CA	VAL A 384	44.875	-26.073	-36.993	1.00	0.00	C
ATOM	6024	C	VAL A 384	44.001	-25.266	-36.031	1.00	0.00	C
ATOM	6025	O	VAL A 384	44.065	-25.443	-34.817	1.00	0.00	O
ATOM	6026	CB	VAL A 384	45.326	-27.433	-36.412	1.00	0.00	C
ATOM	6027	CG1	VAL A 384	44.135	-28.338	-36.052	1.00	0.00	C
ATOM	6028	CG2	VAL A 384	46.197	-28.214	-37.406	1.00	0.00	C
ATOM	6029	H	VAL A 384	46.631	-24.924	-36.633	1.00	0.00	H
ATOM	6030	HA	VAL A 384	44.278	-26.280	-37.879	1.00	0.00	H
ATOM	6031	HB	VAL A 384	45.916	-27.262	-35.511	1.00	0.00	H

ATOM	6032	HG11	VAL A 384	44.499	-29.296	-35.684	1.00	0.00	H
ATOM	6033	HG12	VAL A 384	43.511	-28.503	-36.929	1.00	0.00	H
ATOM	6034	HG13	VAL A 384	43.531	-27.879	-35.270	1.00	0.00	H
ATOM	6035	HG21	VAL A 384	46.486	-29.174	-36.980	1.00	0.00	H
ATOM	6036	HG22	VAL A 384	47.104	-27.655	-37.632	1.00	0.00	H
ATOM	6037	HG23	VAL A 384	45.650	-28.379	-38.333	1.00	0.00	H
ATOM	6038	N	ILE A 385	43.249	-24.310	-36.577	1.00	0.00	N
ATOM	6039	CA	ILE A 385	42.337	-23.437	-35.826	1.00	0.00	C
ATOM	6040	C	ILE A 385	41.344	-24.305	-35.044	1.00	0.00	C
ATOM	6041	O	ILE A 385	40.645	-25.134	-35.635	1.00	0.00	O
ATOM	6042	CB	ILE A 385	41.624	-22.470	-36.805	1.00	0.00	C
ATOM	6043	CG1	ILE A 385	42.651	-21.452	-37.353	1.00	0.00	C
ATOM	6044	CG2	ILE A 385	40.401	-21.784	-36.165	1.00	0.00	C
ATOM	6045	CD1	ILE A 385	42.103	-20.467	-38.393	1.00	0.00	C
ATOM	6046	H	ILE A 385	43.242	-24.251	-37.589	1.00	0.00	H
ATOM	6047	HA	ILE A 385	42.917	-22.850	-35.113	1.00	0.00	H
ATOM	6048	HB	ILE A 385	41.254	-23.053	-37.649	1.00	0.00	H
ATOM	6049	HG12	ILE A 385	43.083	-20.886	-36.528	1.00	0.00	H
ATOM	6050	HG13	ILE A 385	43.462	-22.000	-37.833	1.00	0.00	H
ATOM	6051	HG21	ILE A 385	39.947	-21.082	-36.860	1.00	0.00	H
ATOM	6052	HG22	ILE A 385	40.685	-21.247	-35.268	1.00	0.00	H
ATOM	6053	HG23	ILE A 385	39.641	-22.519	-35.901	1.00	0.00	H
ATOM	6054	HD11	ILE A 385	41.596	-21.011	-39.190	1.00	0.00	H
ATOM	6055	HD12	ILE A 385	42.932	-19.902	-38.818	1.00	0.00	H
ATOM	6056	HD13	ILE A 385	41.414	-19.763	-37.927	1.00	0.00	H
ATOM	6057	N	ARG A 386	41.248	-24.131	-33.720	1.00	0.00	N
ATOM	6058	CA	ARG A 386	40.342	-24.943	-32.893	1.00	0.00	C
ATOM	6059	C	ARG A 386	39.898	-24.269	-31.591	1.00	0.00	C
ATOM	6060	O	ARG A 386	40.740	-23.708	-30.900	1.00	0.00	O
ATOM	6061	CB	ARG A 386	40.968	-26.324	-32.608	1.00	0.00	C

ATOM	6062	CG	ARG A 386	42.339	-26.281	-31.895	1.00	0.00	C
ATOM	6063	CD	ARG A 386	42.590	-27.542	-31.066	1.00	0.00	C
ATOM	6064	NE	ARG A 386	41.672	-27.601	-29.911	1.00	0.00	N
ATOM	6065	CZ	ARG A 386	41.283	-28.664	-29.239	1.00	0.00	C
ATOM	6066	NH1	ARG A 386	41.760	-29.854	-29.480	1.00	0.00	N
ATOM	6067	NH2	ARG A 386	40.388	-28.535	-28.308	1.00	0.00	N
ATOM	6068	H	ARG A 386	41.840	-23.442	-33.270	1.00	0.00	H
ATOM	6069	HA	ARG A 386	39.447	-25.090	-33.492	1.00	0.00	H
ATOM	6070	HB2	ARG A 386	40.255	-26.894	-32.014	1.00	0.00	H
ATOM	6071	HB3	ARG A 386	41.099	-26.858	-33.549	1.00	0.00	H
ATOM	6072	HG2	ARG A 386	43.124	-26.191	-32.640	1.00	0.00	H
ATOM	6073	HG3	ARG A 386	42.420	-25.424	-31.231	1.00	0.00	H
ATOM	6074	HD2	ARG A 386	42.462	-28.413	-31.712	1.00	0.00	H
ATOM	6075	HD3	ARG A 386	43.621	-27.517	-30.707	1.00	0.00	H
ATOM	6076	HE	ARG A 386	41.225	-26.729	-29.640	1.00	0.00	H
ATOM	6077	HH11	ARG A 386	42.465	-29.942	-30.189	1.00	0.00	H
ATOM	6078	HH12	ARG A 386	41.450	-30.644	-28.951	1.00	0.00	H
ATOM	6079	HH21	ARG A 386	40.008	-27.600	-28.162	1.00	0.00	H
ATOM	6080	HH22	ARG A 386	40.035	-29.314	-27.791	1.00	0.00	H
ATOM	6081	N	PRO A 387	38.706	-24.627	-31.071	1.00	0.00	N
ATOM	6082	CA	PRO A 387	38.286	-24.243	-29.731	1.00	0.00	C
ATOM	6083	C	PRO A 387	39.254	-24.707	-28.635	1.00	0.00	C
ATOM	6084	O	PRO A 387	39.733	-25.847	-28.657	1.00	0.00	O
ATOM	6085	CB	PRO A 387	36.888	-24.833	-29.541	1.00	0.00	C
ATOM	6086	CG	PRO A 387	36.346	-24.948	-30.961	1.00	0.00	C
ATOM	6087	CD	PRO A 387	37.602	-25.271	-31.766	1.00	0.00	C
ATOM	6088	HA	PRO A 387	38.233	-23.158	-29.722	1.00	0.00	H
ATOM	6089	HB2	PRO A 387	36.965	-25.835	-29.116	1.00	0.00	H
ATOM	6090	HB3	PRO A 387	36.261	-24.192	-28.921	1.00	0.00	H
ATOM	6091	HG2	PRO A 387	35.601	-25.739	-31.047	1.00	0.00	H

ATOM	6092	HG3 PRO A 387	35.935	-23.990	-31.280	1.00	0.00	H
ATOM	6093	HD2 PRO A 387	37.490	-24.875	-32.771	1.00	0.00	H
ATOM	6094	HD3 PRO A 387	37.763	-26.349	-31.788	1.00	0.00	H
ATOM	6095	N LYS A 388	39.444	-23.868	-27.616	1.00	0.00	N
ATOM	6096	CA LYS A 388	40.324	-24.111	-26.462	1.00	0.00	C
ATOM	6097	C LYS A 388	39.483	-24.012	-25.178	1.00	0.00	C
ATOM	6098	O LYS A 388	38.647	-23.117	-25.047	1.00	0.00	O
ATOM	6099	CB LYS A 388	41.544	-23.149	-26.504	1.00	0.00	C
ATOM	6100	CG LYS A 388	42.324	-23.218	-27.841	1.00	0.00	C
ATOM	6101	CD LYS A 388	43.554	-22.292	-27.975	1.00	0.00	C
ATOM	6102	CE LYS A 388	43.984	-22.263	-29.457	1.00	0.00	C
ATOM	6103	NZ LYS A 388	45.117	-21.350	-29.754	1.00	0.00	N
ATOM	6104	H LYS A 388	38.938	-22.985	-27.639	1.00	0.00	H
ATOM	6105	HA LYS A 388	40.714	-25.127	-26.516	1.00	0.00	H
ATOM	6106	HB2 LYS A 388	41.196	-22.129	-26.348	1.00	0.00	H
ATOM	6107	HB3 LYS A 388	42.221	-23.400	-25.689	1.00	0.00	H
ATOM	6108	HG2 LYS A 388	42.645	-24.247	-28.010	1.00	0.00	H
ATOM	6109	HG3 LYS A 388	41.638	-22.950	-28.641	1.00	0.00	H
ATOM	6110	HD2 LYS A 388	43.300	-21.281	-27.653	1.00	0.00	H
ATOM	6111	HD3 LYS A 388	44.371	-22.662	-27.354	1.00	0.00	H
ATOM	6112	HE2 LYS A 388	44.259	-23.272	-29.771	1.00	0.00	H
ATOM	6113	HE3 LYS A 388	43.127	-21.956	-30.065	1.00	0.00	H
ATOM	6114	HZ1 LYS A 388	45.295	-21.301	-30.761	1.00	0.00	H
ATOM	6115	HZ2 LYS A 388	44.985	-20.380	-29.459	1.00	0.00	H
ATOM	6116	HZ3 LYS A 388	46.018	-21.579	-29.348	1.00	0.00	H
ATOM	6117	N LEU A 389	39.511	-25.070	-24.364	1.00	0.00	N
ATOM	6118	CA LEU A 389	38.758	-25.163	-23.104	1.00	0.00	C
ATOM	6119	C LEU A 389	39.538	-24.504	-21.961	1.00	0.00	C
ATOM	6120	O LEU A 389	40.651	-24.934	-21.653	1.00	0.00	O
ATOM	6121	CB LEU A 389	38.483	-26.636	-22.747	1.00	0.00	C

ATOM	6122	CG	LEU A 389	37.370	-27.324	-23.548	1.00	0.00	C
ATOM	6123	CD1	LEU A 389	37.496	-28.842	-23.408	1.00	0.00	C
ATOM	6124	CD2	LEU A 389	35.992	-26.919	-23.017	1.00	0.00	C
ATOM	6125	H	LEU A 389	40.160	-25.814	-24.583	1.00	0.00	H
ATOM	6126	HA	LEU A 389	37.807	-24.639	-23.206	1.00	0.00	H
ATOM	6127	HB2	LEU A 389	39.411	-27.191	-22.877	1.00	0.00	H
ATOM	6128	HB3	LEU A 389	38.214	-26.691	-21.692	1.00	0.00	H
ATOM	6129	HG	LEU A 389	37.455	-27.066	-24.603	1.00	0.00	H
ATOM	6130	HD11	LEU A 389	38.452	-29.176	-23.810	1.00	0.00	H
ATOM	6131	HD12	LEU A 389	37.426	-29.132	-22.358	1.00	0.00	H
ATOM	6132	HD13	LEU A 389	36.696	-29.332	-23.964	1.00	0.00	H
ATOM	6133	HD21	LEU A 389	35.215	-27.446	-23.570	1.00	0.00	H
ATOM	6134	HD22	LEU A 389	35.903	-27.181	-21.962	1.00	0.00	H
ATOM	6135	HD23	LEU A 389	35.843	-25.846	-23.128	1.00	0.00	H
ATOM	6136	N	PHE A 390	38.858	-23.665	-21.183	1.00	0.00	N
ATOM	6137	CA	PHE A 390	39.403	-23.004	-19.999	1.00	0.00	C
ATOM	6138	C	PHE A 390	38.590	-23.365	-18.750	1.00	0.00	C
ATOM	6139	O	PHE A 390	37.382	-23.135	-18.698	1.00	0.00	O
ATOM	6140	CB	PHE A 390	39.444	-21.485	-20.223	1.00	0.00	C
ATOM	6141	CG	PHE A 390	40.315	-21.040	-21.386	1.00	0.00	C
ATOM	6142	CD1	PHE A 390	41.639	-20.616	-21.159	1.00	0.00	C
ATOM	6143	CD2	PHE A 390	39.789	-21.012	-22.692	1.00	0.00	C
ATOM	6144	CE1	PHE A 390	42.425	-20.152	-22.229	1.00	0.00	C
ATOM	6145	CE2	PHE A 390	40.578	-20.555	-23.763	1.00	0.00	C
ATOM	6146	CZ	PHE A 390	41.895	-20.119	-23.531	1.00	0.00	C
ATOM	6147	H	PHE A 390	37.923	-23.388	-21.468	1.00	0.00	H
ATOM	6148	HA	PHE A 390	40.426	-23.336	-19.846	1.00	0.00	H
ATOM	6149	HB2	PHE A 390	39.809	-21.010	-19.311	1.00	0.00	H
ATOM	6150	HB3	PHE A 390	38.428	-21.123	-20.390	1.00	0.00	H
ATOM	6151	HD1	PHE A 390	42.047	-20.614	-20.160	1.00	0.00	H



ATOM	6152	HD2 PHE A 390	38.773	-21.329	-22.875	1.00	0.00	H
ATOM	6153	HE1 PHE A 390	43.426	-19.777	-22.055	1.00	0.00	H
ATOM	6154	HE2 PHE A 390	40.164	-20.516	-24.761	1.00	0.00	H
ATOM	6155	HZ PHE A 390	42.493	-19.729	-24.344	1.00	0.00	H
ATOM	6156	N ALA A 391	39.261	-23.851	-17.708	1.00	0.00	N
ATOM	6157	CA ALA A 391	38.685	-24.025	-16.378	1.00	0.00	C
ATOM	6158	C ALA A 391	38.947	-22.784	-15.510	1.00	0.00	C
ATOM	6159	O ALA A 391	40.084	-22.312	-15.401	1.00	0.00	O
ATOM	6160	CB ALA A 391	39.237	-25.317	-15.764	1.00	0.00	C
ATOM	6161	H ALA A 391	40.267	-23.955	-17.799	1.00	0.00	H
ATOM	6162	HA ALA A 391	37.605	-24.140	-16.470	1.00	0.00	H
ATOM	6163	HB1 ALA A 391	39.054	-26.155	-16.437	1.00	0.00	H
ATOM	6164	HB2 ALA A 391	40.310	-25.225	-15.590	1.00	0.00	H
ATOM	6165	HB3 ALA A 391	38.730	-25.526	-14.822	1.00	0.00	H
ATOM	6166	N VAL A 392	37.916	-22.295	-14.817	1.00	0.00	N
ATOM	6167	CA VAL A 392	37.956	-21.059	-14.023	1.00	0.00	C
ATOM	6168	C VAL A 392	37.325	-21.284	-12.649	1.00	0.00	C
ATOM	6169	O VAL A 392	36.105	-21.292	-12.494	1.00	0.00	O
ATOM	6170	CB VAL A 392	37.279	-19.888	-14.772	1.00	0.00	C
ATOM	6171	CG1 VAL A 392	37.432	-18.581	-13.980	1.00	0.00	C
ATOM	6172	CG2 VAL A 392	37.892	-19.675	-16.162	1.00	0.00	C
ATOM	6173	H VAL A 392	37.002	-22.710	-14.988	1.00	0.00	H
ATOM	6174	HA VAL A 392	38.995	-20.775	-13.864	1.00	0.00	H
ATOM	6175	HB VAL A 392	36.218	-20.097	-14.897	1.00	0.00	H
ATOM	6176	HG11 VAL A 392	36.990	-17.764	-14.551	1.00	0.00	H
ATOM	6177	HG12 VAL A 392	36.904	-18.648	-13.029	1.00	0.00	H
ATOM	6178	HG13 VAL A 392	38.486	-18.362	-13.806	1.00	0.00	H
ATOM	6179	HG21 VAL A 392	37.499	-18.765	-16.611	1.00	0.00	H
ATOM	6180	HG22 VAL A 392	37.633	-20.508	-16.817	1.00	0.00	H
ATOM	6181	HG23 VAL A 392	38.974	-19.599	-16.088	1.00	0.00	H

ATOM	6182	N	LYS A 393	38.160	-21.395	-11.612	1.00	0.00	N
ATOM	6183	CA	LYS A 393	37.709	-21.398	-10.214	1.00	0.00	C
ATOM	6184	C	LYS A 393	37.273	-19.984	-9.827	1.00	0.00	C
ATOM	6185	O	LYS A 393	38.136	-19.117	-9.663	1.00	0.00	O
ATOM	6186	CB	LYS A 393	38.837	-21.910	-9.306	1.00	0.00	C
ATOM	6187	CG	LYS A 393	38.355	-22.085	-7.853	1.00	0.00	C
ATOM	6188	CD	LYS A 393	39.455	-21.895	-6.795	1.00	0.00	C
ATOM	6189	CE	LYS A 393	40.248	-20.574	-6.872	1.00	0.00	C
ATOM	6190	NZ	LYS A 393	39.404	-19.388	-7.178	1.00	0.00	N
ATOM	6191	H	LYS A 393	39.150	-21.439	-11.805	1.00	0.00	H
ATOM	6192	HA	LYS A 393	36.852	-22.072	-10.117	1.00	0.00	H
ATOM	6193	HB2	LYS A 393	39.191	-22.870	-9.669	1.00	0.00	H
ATOM	6194	HB3	LYS A 393	39.675	-21.216	-9.365	1.00	0.00	H
ATOM	6195	HG2	LYS A 393	37.931	-23.084	-7.748	1.00	0.00	H
ATOM	6196	HG3	LYS A 393	37.556	-21.382	-7.628	1.00	0.00	H
ATOM	6197	HD2	LYS A 393	38.983	-21.957	-5.813	1.00	0.00	H
ATOM	6198	HD3	LYS A 393	40.157	-22.728	-6.869	1.00	0.00	H
ATOM	6199	HE2	LYS A 393	40.760	-20.434	-5.915	1.00	0.00	H
ATOM	6200	HE3	LYS A 393	41.017	-20.676	-7.642	1.00	0.00	H
ATOM	6201	HZ1	LYS A 393	39.901	-18.520	-7.033	1.00	0.00	H
ATOM	6202	HZ2	LYS A 393	39.105	-19.392	-8.153	1.00	0.00	H
ATOM	6203	HZ3	LYS A 393	38.535	-19.393	-6.650	1.00	0.00	H
ATOM	6204	N	ILE A 394	36.023	-19.817	-9.404	1.00	0.00	N
ATOM	6205	CA	ILE A 394	35.492	-18.542	-8.896	1.00	0.00	C
ATOM	6206	C	ILE A 394	36.154	-18.149	-7.549	1.00	0.00	C
ATOM	6207	O	ILE A 394	36.656	-19.019	-6.823	1.00	0.00	O
ATOM	6208	CB	ILE A 394	33.949	-18.638	-8.842	1.00	0.00	C
ATOM	6209	CG1	ILE A 394	33.322	-18.816	-10.249	1.00	0.00	C
ATOM	6210	CG2	ILE A 394	33.250	-17.485	-8.104	1.00	0.00	C
ATOM	6211	CD1	ILE A 394	33.636	-17.720	-11.281	1.00	0.00	C

ATOM	6212	H	ILE A 394	35.406	-20.624	-9.400	1.00	0.00	H
ATOM	6213	HA	ILE A 394	35.755	-17.783	-9.626	1.00	0.00	H
ATOM	6214	HB	ILE A 394	33.718	-19.534	-8.272	1.00	0.00	H
ATOM	6215	HG12	ILE A 394	33.643	-19.773	-10.665	1.00	0.00	H
ATOM	6216	HG13	ILE A 394	32.238	-18.867	-10.142	1.00	0.00	H
ATOM	6217	HD11	ILE A 394	33.067	-17.913	-12.191	1.00	0.00	H
ATOM	6218	HD12	ILE A 394	34.696	-17.725	-11.536	1.00	0.00	H
ATOM	6219	HD13	ILE A 394	33.355	-16.739	-10.900	1.00	0.00	H
ATOM	6220	HG21	ILE A 394	32.182	-17.693	-8.058	1.00	0.00	H
ATOM	6221	HG22	ILE A 394	33.612	-17.404	-7.081	1.00	0.00	H
ATOM	6222	HG23	ILE A 394	33.394	-16.540	-8.626	1.00	0.00	H
ATOM	6223	N	PRO A 395	36.334	-16.849	-7.234	1.00	0.00	N
ATOM	6224	CA	PRO A 395	37.075	-16.429	-6.043	1.00	0.00	C
ATOM	6225	C	PRO A 395	36.365	-16.782	-4.730	1.00	0.00	C
ATOM	6226	O	PRO A 395	35.196	-16.439	-4.533	1.00	0.00	O
ATOM	6227	CB	PRO A 395	37.263	-14.919	-6.169	1.00	0.00	C
ATOM	6228	CG	PRO A 395	37.105	-14.661	-7.664	1.00	0.00	C
ATOM	6229	CD	PRO A 395	36.057	-15.684	-8.064	1.00	0.00	C
ATOM	6230	HA	PRO A 395	38.059	-16.897	-6.062	1.00	0.00	H
ATOM	6231	HB2	PRO A 395	38.236	-14.613	-5.790	1.00	0.00	H
ATOM	6232	HB3	PRO A 395	36.474	-14.398	-5.633	1.00	0.00	H
ATOM	6233	HG2	PRO A 395	36.766	-13.649	-7.868	1.00	0.00	H
ATOM	6234	HG3	PRO A 395	38.038	-14.874	-8.185	1.00	0.00	H
ATOM	6235	HD2	PRO A 395	36.141	-15.881	-9.132	1.00	0.00	H
ATOM	6236	HD3	PRO A 395	35.067	-15.294	-7.826	1.00	0.00	H
ATOM	6237	N	ALA A 396	37.124	-17.283	-3.752	1.00	0.00	N
ATOM	6238	CA	ALA A 396	36.645	-17.460	-2.380	1.00	0.00	C
ATOM	6239	C	ALA A 396	36.486	-16.114	-1.646	1.00	0.00	C
ATOM	6240	O	ALA A 396	35.415	-15.854	-1.093	1.00	0.00	O
ATOM	6241	CB	ALA A 396	37.609	-18.396	-1.641	1.00	0.00	C

ATOM	6242	H	ALA A 396	38.093	-17.485	-3.943	1.00	0.00	H
ATOM	6243	HA	ALA A 396	35.666	-17.941	-2.410	1.00	0.00	H
ATOM	6244	HB1	ALA A 396	37.249	-18.563	-0.624	1.00	0.00	H
ATOM	6245	HB2	ALA A 396	37.660	-19.358	-2.153	1.00	0.00	H
ATOM	6246	HB3	ALA A 396	38.608	-17.958	-1.594	1.00	0.00	H
ATOM	6247	N	GLN A 397	37.465	-15.219	-1.819	1.00	0.00	N
ATOM	6248	CA	GLN A 397	37.532	-13.847	-1.299	1.00	0.00	C
ATOM	6249	C	GLN A 397	37.956	-12.869	-2.408	1.00	0.00	C
ATOM	6250	O	GLN A 397	38.484	-13.291	-3.435	1.00	0.00	O
ATOM	6251	CB	GLN A 397	38.544	-13.777	-0.135	1.00	0.00	C
ATOM	6252	CG	GLN A 397	38.166	-14.568	1.130	1.00	0.00	C
ATOM	6253	CD	GLN A 397	37.017	-13.948	1.924	1.00	0.00	C
ATOM	6254	OE1	GLN A 397	36.179	-13.225	1.415	1.00	0.00	O
ATOM	6255	NE2	GLN A 397	36.926	-14.213	3.207	1.00	0.00	N
ATOM	6256	H	GLN A 397	38.251	-15.493	-2.391	1.00	0.00	H
ATOM	6257	HA	GLN A 397	36.547	-13.538	-0.949	1.00	0.00	H
ATOM	6258	HB2	GLN A 397	39.505	-14.149	-0.494	1.00	0.00	H
ATOM	6259	HB3	GLN A 397	38.690	-12.735	0.154	1.00	0.00	H
ATOM	6260	HG2	GLN A 397	37.911	-15.596	0.877	1.00	0.00	H
ATOM	6261	HG3	GLN A 397	39.044	-14.599	1.776	1.00	0.00	H
ATOM	6262	HE21	GLN A 397	37.627	-14.756	3.675	1.00	0.00	H
ATOM	6263	HE22	GLN A 397	36.191	-13.739	3.704	1.00	0.00	H
ATOM	6264	N	CYS A 398	37.773	-11.566	-2.191	1.00	0.00	N
ATOM	6265	CA	CYS A 398	38.160	-10.496	-3.125	1.00	0.00	C
ATOM	6266	C	CYS A 398	39.632	-10.045	-2.981	1.00	0.00	C
ATOM	6267	O	CYS A 398	39.888	-8.853	-2.844	1.00	0.00	O
ATOM	6268	CB	CYS A 398	37.188	-9.321	-2.957	1.00	0.00	C
ATOM	6269	SG	CYS A 398	35.435	-9.738	-3.106	1.00	0.00	S
ATOM	6270	H	CYS A 398	37.355	-11.281	-1.317	1.00	0.00	H
ATOM	6271	HA	CYS A 398	38.051	-10.871	-4.143	1.00	0.00	H

ATOM	6272	HB2 CYS A 398	37.353	-8.867	-1.979	1.00	0.00	H
ATOM	6273	HB3 CYS A 398	37.423	-8.565	-3.709	1.00	0.00	H
ATOM	6274	N SER A 399	40.535	-11.001	-2.749	1.00	0.00	N
ATOM	6275	CA SER A 399	41.901	-10.772	-2.258	1.00	0.00	C
ATOM	6276	C SER A 399	42.910	-10.475	-3.391	1.00	0.00	C
ATOM	6277	O SER A 399	42.968	-9.329	-3.838	1.00	0.00	O
ATOM	6278	CB SER A 399	42.249	-11.915	-1.295	1.00	0.00	C
ATOM	6279	OG SER A 399	43.590	-11.928	-0.882	1.00	0.00	O
ATOM	6280	H SER A 399	40.258	-11.957	-2.913	1.00	0.00	H
ATOM	6281	HA SER A 399	41.897	-9.868	-1.649	1.00	0.00	H
ATOM	6282	HB2 SER A 399	41.618	-11.821	-0.410	1.00	0.00	H
ATOM	6283	HB3 SER A 399	42.020	-12.870	-1.769	1.00	0.00	H
ATOM	6284	HG SER A 399	44.012	-12.649	-1.406	1.00	0.00	H
ATOM	6285	N GLU A 400	43.592	-11.479	-3.961	1.00	0.00	N
ATOM	6286	CA GLU A 400	44.658	-11.334	-4.988	1.00	0.00	C
ATOM	6287	C GLU A 400	44.333	-11.947	-6.357	1.00	0.00	C
ATOM	6288	O GLU A 400	44.817	-11.410	-7.383	1.00	0.00	O
ATOM	6289	CB GLU A 400	46.039	-11.811	-4.466	1.00	0.00	C
ATOM	6290	CG GLU A 400	46.127	-12.750	-3.244	1.00	0.00	C
ATOM	6291	CD GLU A 400	45.187	-13.971	-3.281	1.00	0.00	C
ATOM	6292	OE1 GLU A 400	45.599	-15.037	-3.796	1.00	0.00	O
ATOM	6293	OE2 GLU A 400	44.158	-13.899	-2.558	1.00	0.00	O
ATOM	6294	OXT GLU A 400	43.919	-13.121	-6.402	1.00	0.00	O
ATOM	6295	H GLU A 400	43.493	-12.407	-3.555	1.00	0.00	H
ATOM	6296	HA GLU A 400	44.775	-10.274	-5.207	1.00	0.00	H
ATOM	6297	HB2 GLU A 400	46.570	-12.292	-5.288	1.00	0.00	H
ATOM	6298	HB3 GLU A 400	46.613	-10.916	-4.215	1.00	0.00	H
ATOM	6299	HG2 GLU A 400	45.912	-12.157	-2.351	1.00	0.00	H
ATOM	6300	HG3 GLU A 400	47.163	-13.084	-3.144	1.00	0.00	H
ATOM	6301	HXT GLU A 400	43.075	-13.195	-5.886	1.00	0.00	H

TER 6302 HXT GLU A 400

HETATM 6303	C1	LIG	1	27.562	-18.664	-34.671	1.00	0.00	C
HETATM 6304	C2	LIG	1	28.067	-17.871	-35.853	1.00	0.00	C
HETATM 6305	N3	LIG	1	28.956	-14.033	-37.234	1.00	0.00	N
HETATM 6306	N4	LIG	1	29.256	-17.133	-35.653	1.00	0.00	N
HETATM 6307	C5	LIG	1	29.884	-14.850	-36.551	1.00	0.00	C
HETATM 6308	C6	LIG	1	28.754	-12.574	-37.028	1.00	0.00	C
HETATM 6309	C7	LIG	1	26.432	-19.658	-34.673	1.00	0.00	C
HETATM 6310	C8	LIG	1	29.897	-16.384	-36.767	1.00	0.00	C
HETATM 6311	C9	LIG	1	27.828	-14.768	-37.828	1.00	0.00	C
HETATM 6312	N10	LIG	1	26.507	-12.708	-38.326	1.00	0.00	N
HETATM 6313	C11	LIG	1	28.225	-18.552	-33.502	1.00	0.00	C
HETATM 6314	N12	LIG	1	26.305	-20.531	-33.621	1.00	0.00	N
HETATM 6315	C13	LIG	1	27.711	-11.909	-38.006	1.00	0.00	C
HETATM 6316	C14	LIG	1	29.872	-17.065	-34.413	1.00	0.00	C
HETATM 6317	O15	LIG	1	27.467	-17.923	-36.927	1.00	0.00	O
HETATM 6318	C16	LIG	1	29.388	-17.720	-33.357	1.00	0.00	C
HETATM 6319	O17	LIG	1	30.695	-14.351	-35.760	1.00	0.00	O
HETATM 6320	C18	LIG	1	30.025	-11.739	-37.164	1.00	0.00	C
HETATM 6321	O19	LIG	1	25.621	-19.677	-35.604	1.00	0.00	O
HETATM 6322	C20	LIG	1	26.985	-14.000	-38.855	1.00	0.00	C
HETATM 6323	C21	LIG	1	25.160	-21.418	-33.470	1.00	0.00	C
HETATM 6324	C22	LIG	1	25.291	-22.413	-32.343	1.00	0.00	C
HETATM 6325	C23	LIG	1	25.664	-12.019	-39.306	1.00	0.00	C
HETATM 6326	C24	LIG	1	30.383	-10.850	-36.135	1.00	0.00	C
HETATM 6327	C25	LIG	1	30.814	-11.777	-38.325	1.00	0.00	C
HETATM 6328	C26	LIG	1	25.012	-22.032	-31.021	1.00	0.00	C
HETATM 6329	C27	LIG	1	25.773	-23.711	-32.582	1.00	0.00	C
HETATM 6330	C28	LIG	1	31.518	-10.047	-36.252	1.00	0.00	C
HETATM 6331	C29	LIG	1	31.956	-10.983	-38.432	1.00	0.00	C

HETATM 6332	C30 LIG	1	25.223	-22.920	-29.962	1.00	0.00	C
HETATM 6333	C31 LIG	1	25.986	-24.599	-31.524	1.00	0.00	C
HETATM 6334	C32 LIG	1	25.704	-24.203	-30.218	1.00	0.00	C
HETATM 6335	C33 LIG	1	32.310	-10.122	-37.395	1.00	0.00	C
HETATM 6336	H1 LIG	1	28.372	-12.489	-36.001	1.00	0.00	H
HETATM 6337	H2 LIG	1	29.371	-16.599	-37.701	1.00	0.00	H
HETATM 6338	H3 LIG	1	30.919	-16.763	-36.836	1.00	0.00	H
HETATM 6339	H4 LIG	1	28.195	-15.686	-38.300	1.00	0.00	H
HETATM 6340	H5 LIG	1	27.187	-15.077	-36.991	1.00	0.00	H
HETATM 6341	H6 LIG	1	27.920	-19.115	-32.622	1.00	0.00	H
HETATM 6342	H7 LIG	1	26.992	-20.479	-32.873	1.00	0.00	H
HETATM 6343	H8 LIG	1	28.218	-11.656	-38.950	1.00	0.00	H
HETATM 6344	H9 LIG	1	27.395	-10.953	-37.566	1.00	0.00	H
HETATM 6345	H10 LIG	1	30.763	-16.448	-34.328	1.00	0.00	H
HETATM 6346	H11 LIG	1	29.873	-17.660	-32.387	1.00	0.00	H
HETATM 6347	H12 LIG	1	26.126	-14.626	-39.126	1.00	0.00	H
HETATM 6348	H13 LIG	1	27.577	-13.848	-39.767	1.00	0.00	H
HETATM 6349	H14 LIG	1	24.290	-20.772	-33.301	1.00	0.00	H
HETATM 6350	H15 LIG	1	24.972	-21.950	-34.410	1.00	0.00	H
HETATM 6351	H16 LIG	1	24.769	-12.613	-39.523	1.00	0.00	H
HETATM 6352	H17 LIG	1	26.189	-11.829	-40.249	1.00	0.00	H
HETATM 6353	H18 LIG	1	25.318	-11.060	-38.904	1.00	0.00	H
HETATM 6354	H19 LIG	1	29.772	-10.768	-35.237	1.00	0.00	H
HETATM 6355	H20 LIG	1	30.555	-12.439	-39.150	1.00	0.00	H
HETATM 6356	H21 LIG	1	24.648	-21.027	-30.813	1.00	0.00	H
HETATM 6357	H22 LIG	1	26.006	-24.028	-33.596	1.00	0.00	H
HETATM 6358	H23 LIG	1	31.783	-9.359	-35.452	1.00	0.00	H
HETATM 6359	H24 LIG	1	32.576	-11.043	-39.324	1.00	0.00	H
HETATM 6360	H25 LIG	1	25.032	-22.610	-28.937	1.00	0.00	H
HETATM 6361	H26 LIG	1	26.391	-25.593	-31.706	1.00	0.00	H

HETATM	6362	H27	LIG	1	25.879	-24.891	-29.393	1.00	0.00	H
HETATM	6363	H28	LIG	1	33.203	-9.509	-37.481	1.00	0.00	H
TER	6364	H28	LIG	1						
CONECT	27	6269								
CONECT	335	693								
CONECT	693	335								
CONECT	1346	1552								
CONECT	1552	1346								
CONECT	2844	3048								
CONECT	2923	4674								
CONECT	3048	2844								
CONECT	4576	4729								
CONECT	4674	2923								
CONECT	4729	4576								
CONECT	5685	5841								
CONECT	5841	5685								
CONECT	6269	27								
CONECT	6303	6304	6309	6313						
CONECT	6304	6303	6306	6317						
CONECT	6305	6307	6308	6311						
CONECT	6306	6304	6310	6316						
CONECT	6307	6305	6310	6319						
CONECT	6308	6305	6315	6320	6336					
CONECT	6309	6303	6314	6321						
CONECT	6310	6306	6307	6337	6338					
CONECT	6311	6305	6322	6339	6340					
CONECT	6312	6315	6322	6325						
CONECT	6313	6303	6318	6341						
CONECT	6314	6309	6323	6342						
CONECT	6315	6308	6312	6343	6344					



CONNECT 6316 6306 6318 6345  
CONNECT 6317 6304  
CONNECT 6318 6313 6316 6346  
CONNECT 6319 6307  
CONNECT 6320 6308 6326 6327  
CONNECT 6321 6309  
CONNECT 6322 6311 6312 6347 6348  
CONNECT 6323 6314 6324 6349 6350  
CONNECT 6324 6323 6328 6329  
CONNECT 6325 6312 6351 6352 6353  
CONNECT 6326 6320 6330 6354  
CONNECT 6327 6320 6331 6355  
CONNECT 6328 6324 6332 6356  
CONNECT 6329 6324 6333 6357  
CONNECT 6330 6326 6335 6358  
CONNECT 6331 6327 6335 6359  
CONNECT 6332 6328 6334 6360  
CONNECT 6333 6329 6334 6361  
CONNECT 6334 6332 6333 6362  
CONNECT 6335 6330 6331 6363  
CONNECT 6336 6308  
CONNECT 6337 6310  
CONNECT 6338 6310  
CONNECT 6339 6311  
CONNECT 6340 6311  
CONNECT 6341 6313  
CONNECT 6342 6314  
CONNECT 6343 6315  
CONNECT 6344 6315  
CONNECT 6345 6316

CONECT 6346 6318  
 CONECT 6347 6322  
 CONECT 6348 6322  
 CONECT 6349 6323  
 CONECT 6350 6323  
 CONECT 6351 6325  
 CONECT 6352 6325  
 CONECT 6353 6325  
 CONECT 6354 6326  
 CONECT 6355 6327  
 CONECT 6356 6328  
 CONECT 6357 6329  
 CONECT 6358 6330  
 CONECT 6359 6331  
 CONECT 6360 6332  
 CONECT 6361 6333  
 CONECT 6362 6334  
 CONECT 6363 6335  
 MASTER 0 0 0 0 0 0 0 0 3 6362 2 75 0  
 END

### Top2-coordinates

HEADER CSD ENTRY

CRYST1 1.0000 1.0000 1.0000 90.00 90.00 90.00

SCALE1 1.000000 0.000000 0.000000 0.000000

SCALE2 0.000000 1.000000 0.000000 0.000000

SCALE3 0.000000 0.000000 1.000000 0.000000

ATOM	1	N	ILE A	1	32.653	-16.268	-1.319	1.00	0.00	N
ATOM	2	CA	ILE A	1	32.633	-15.941	-2.763	1.00	0.00	C
ATOM	3	C	ILE A	1	32.837	-14.441	-2.909	1.00	0.00	C

ATOM	4	O	ILE A	1	32.290	-13.705	-2.093	1.00	0.00	O
ATOM	5	CB	ILE A	1	31.347	-16.438	-3.468	1.00	0.00	C
ATOM	6	CG1	ILE A	1	31.341	-16.009	-4.953	1.00	0.00	C
ATOM	7	CG2	ILE A	1	30.059	-15.978	-2.757	1.00	0.00	C
ATOM	8	CD1	ILE A	1	30.325	-16.768	-5.817	1.00	0.00	C
ATOM	9	HA	ILE A	1	33.476	-16.435	-3.236	1.00	0.00	H
ATOM	10	HB	ILE A	1	31.370	-17.529	-3.437	1.00	0.00	H
ATOM	11	HG12	ILE A	1	31.130	-14.941	-5.030	1.00	0.00	H
ATOM	12	HG13	ILE A	1	32.330	-16.191	-5.375	1.00	0.00	H
ATOM	13	HD11	ILE A	1	30.420	-16.435	-6.849	1.00	0.00	H
ATOM	14	HD12	ILE A	1	30.514	-17.841	-5.770	1.00	0.00	H
ATOM	15	HD13	ILE A	1	29.306	-16.561	-5.490	1.00	0.00	H
ATOM	16	H1	ILE A	1	32.449	-17.244	-1.163	1.00	0.00	H
ATOM	17	H2	ILE A	1	31.970	-15.687	-0.848	1.00	0.00	H
ATOM	18	H3	ILE A	1	33.568	-16.041	-0.940	1.00	0.00	H
ATOM	19	HG21	ILE A	1	29.185	-16.396	-3.259	1.00	0.00	H
ATOM	20	HG22	ILE A	1	29.968	-14.891	-2.784	1.00	0.00	H
ATOM	21	HG23	ILE A	1	30.021	-16.320	-1.724	1.00	0.00	H
ATOM	22	N	CYS A	2	33.675	-13.977	-3.840	1.00	0.00	N
ATOM	23	CA	CYS A	2	33.809	-12.535	-4.055	1.00	0.00	C
ATOM	24	C	CYS A	2	32.574	-11.948	-4.761	1.00	0.00	C
ATOM	25	O	CYS A	2	32.343	-12.226	-5.937	1.00	0.00	O
ATOM	26	CB	CYS A	2	35.092	-12.191	-4.815	1.00	0.00	C
ATOM	27	SG	CYS A	2	35.277	-10.404	-5.017	1.00	0.00	S
ATOM	28	H	CYS A	2	34.138	-14.619	-4.473	1.00	0.00	H
ATOM	29	HA	CYS A	2	33.888	-12.061	-3.076	1.00	0.00	H
ATOM	30	HB2	CYS A	2	35.060	-12.645	-5.806	1.00	0.00	H
ATOM	31	HB3	CYS A	2	35.956	-12.576	-4.276	1.00	0.00	H
ATOM	32	N	LEU A	3	31.841	-11.084	-4.056	1.00	0.00	N
ATOM	33	CA	LEU A	3	30.699	-10.317	-4.576	1.00	0.00	C

ATOM	34	C	LEU	A	3	31.032	-8.834	-4.838	1.00	0.00	C
ATOM	35	O	LEU	A	3	30.234	-8.131	-5.451	1.00	0.00	O
ATOM	36	CB	LEU	A	3	29.536	-10.434	-3.572	1.00	0.00	C
ATOM	37	CG	LEU	A	3	29.029	-11.868	-3.324	1.00	0.00	C
ATOM	38	CD1	LEU	A	3	28.068	-11.866	-2.138	1.00	0.00	C
ATOM	39	CD2	LEU	A	3	28.323	-12.447	-4.551	1.00	0.00	C
ATOM	40	H	LEU	A	3	32.062	-10.971	-3.078	1.00	0.00	H
ATOM	41	HA	LEU	A	3	30.378	-10.733	-5.533	1.00	0.00	H
ATOM	42	HB2	LEU	A	3	29.865	-10.009	-2.622	1.00	0.00	H
ATOM	43	HB3	LEU	A	3	28.699	-9.829	-3.927	1.00	0.00	H
ATOM	44	HG	LEU	A	3	29.866	-12.517	-3.068	1.00	0.00	H
ATOM	45	HD11	LEU	A	3	27.641	-12.859	-1.999	1.00	0.00	H
ATOM	46	HD12	LEU	A	3	27.266	-11.150	-2.317	1.00	0.00	H
ATOM	47	HD13	LEU	A	3	28.600	-11.576	-1.232	1.00	0.00	H
ATOM	48	HD21	LEU	A	3	29.023	-12.547	-5.379	1.00	0.00	H
ATOM	49	HD22	LEU	A	3	27.501	-11.795	-4.847	1.00	0.00	H
ATOM	50	HD23	LEU	A	3	27.917	-13.432	-4.318	1.00	0.00	H
ATOM	51	N	GLN	A	4	32.174	-8.356	-4.332	1.00	0.00	N
ATOM	52	CA	GLN	A	4	32.625	-6.966	-4.438	1.00	0.00	C
ATOM	53	C	GLN	A	4	33.318	-6.704	-5.783	1.00	0.00	C
ATOM	54	O	GLN	A	4	34.098	-7.532	-6.258	1.00	0.00	O
ATOM	55	CB	GLN	A	4	33.568	-6.659	-3.256	1.00	0.00	C
ATOM	56	CG	GLN	A	4	33.907	-5.174	-3.041	1.00	0.00	C
ATOM	57	CD	GLN	A	4	32.715	-4.319	-2.625	1.00	0.00	C
ATOM	58	OE1	GLN	A	4	31.658	-4.797	-2.257	1.00	0.00	O
ATOM	59	NE2	GLN	A	4	32.833	-3.013	-2.682	1.00	0.00	N
ATOM	60	H	GLN	A	4	32.809	-9.008	-3.905	1.00	0.00	H
ATOM	61	HA	GLN	A	4	31.749	-6.318	-4.366	1.00	0.00	H
ATOM	62	HB2	GLN	A	4	33.132	-7.049	-2.334	1.00	0.00	H
ATOM	63	HB3	GLN	A	4	34.509	-7.178	-3.425	1.00	0.00	H

ATOM	64	HG2	GLN	A	4	34.659	-5.101	-2.255	1.00	0.00	H
ATOM	65	HG3	GLN	A	4	34.345	-4.761	-3.945	1.00	0.00	H
ATOM	66	HE21	GLN	A	4	33.685	-2.587	-2.999	1.00	0.00	H
ATOM	67	HE22	GLN	A	4	32.019	-2.489	-2.414	1.00	0.00	H
ATOM	68	N	LYS	A	5	33.179	-5.485	-6.311	1.00	0.00	N
ATOM	69	CA	LYS	A	5	33.993	-4.990	-7.427	1.00	0.00	C
ATOM	70	C	LYS	A	5	35.463	-4.805	-7.021	1.00	0.00	C
ATOM	71	O	LYS	A	5	35.744	-4.157	-6.016	1.00	0.00	O
ATOM	72	CB	LYS	A	5	33.343	-3.703	-7.956	1.00	0.00	C
ATOM	73	CG	LYS	A	5	34.110	-3.120	-9.144	1.00	0.00	C
ATOM	74	CD	LYS	A	5	33.252	-2.138	-9.952	1.00	0.00	C
ATOM	75	CE	LYS	A	5	34.025	-1.589	-11.158	1.00	0.00	C
ATOM	76	NZ	LYS	A	5	34.494	-2.678	-12.052	1.00	0.00	N
ATOM	77	H	LYS	A	5	32.506	-4.854	-5.897	1.00	0.00	H
ATOM	78	HA	LYS	A	5	33.964	-5.741	-8.213	1.00	0.00	H
ATOM	79	HB2	LYS	A	5	32.329	-3.946	-8.275	1.00	0.00	H
ATOM	80	HB3	LYS	A	5	33.285	-2.956	-7.162	1.00	0.00	H
ATOM	81	HG2	LYS	A	5	35.010	-2.616	-8.788	1.00	0.00	H
ATOM	82	HG3	LYS	A	5	34.402	-3.937	-9.795	1.00	0.00	H
ATOM	83	HD2	LYS	A	5	32.350	-2.647	-10.299	1.00	0.00	H
ATOM	84	HD3	LYS	A	5	32.950	-1.310	-9.308	1.00	0.00	H
ATOM	85	HE2	LYS	A	5	34.877	-1.007	-10.794	1.00	0.00	H
ATOM	86	HE3	LYS	A	5	33.363	-0.913	-11.708	1.00	0.00	H
ATOM	87	HZ1	LYS	A	5	34.932	-2.323	-12.889	1.00	0.00	H
ATOM	88	HZ2	LYS	A	5	35.137	-3.292	-11.566	1.00	0.00	H
ATOM	89	HZ3	LYS	A	5	33.708	-3.272	-12.317	1.00	0.00	H
ATOM	90	N	THR	A	6	36.403	-5.279	-7.844	1.00	0.00	N
ATOM	91	CA	THR	A	6	37.856	-5.126	-7.630	1.00	0.00	C
ATOM	92	C	THR	A	6	38.647	-5.237	-8.944	1.00	0.00	C
ATOM	93	O	THR	A	6	38.111	-5.652	-9.971	1.00	0.00	O

ATOM	94	CB	THR	A	6	38.376	-6.122	-6.569	1.00	0.00	C
ATOM	95	OG1	THR	A	6	39.739	-5.865	-6.316	1.00	0.00	O
ATOM	96	CG2	THR	A	6	38.270	-7.592	-6.974	1.00	0.00	C
ATOM	97	H	THR	A	6	36.108	-5.742	-8.700	1.00	0.00	H
ATOM	98	HA	THR	A	6	38.038	-4.126	-7.236	1.00	0.00	H
ATOM	99	HB	THR	A	6	37.819	-5.975	-5.643	1.00	0.00	H
ATOM	100	HG1	THR	A	6	40.069	-6.475	-5.641	1.00	0.00	H
ATOM	101	HG21	THR	A	6	38.657	-8.210	-6.165	1.00	0.00	H
ATOM	102	HG22	THR	A	6	37.224	-7.854	-7.143	1.00	0.00	H
ATOM	103	HG23	THR	A	6	38.843	-7.785	-7.881	1.00	0.00	H
ATOM	104	N	THR	A	7	39.919	-4.835	-8.924	1.00	0.00	N
ATOM	105	CA	THR	A	7	40.904	-5.065	-9.996	1.00	0.00	C
ATOM	106	C	THR	A	7	41.967	-6.108	-9.622	1.00	0.00	C
ATOM	107	O	THR	A	7	42.910	-6.306	-10.383	1.00	0.00	O
ATOM	108	CB	THR	A	7	41.566	-3.750	-10.439	1.00	0.00	C
ATOM	109	OG1	THR	A	7	42.236	-3.148	-9.357	1.00	0.00	O
ATOM	110	CG2	THR	A	7	40.544	-2.746	-10.975	1.00	0.00	C
ATOM	111	H	THR	A	7	40.283	-4.513	-8.035	1.00	0.00	H
ATOM	112	HA	THR	A	7	40.392	-5.474	-10.866	1.00	0.00	H
ATOM	113	HB	THR	A	7	42.285	-3.957	-11.233	1.00	0.00	H
ATOM	114	HG21	THR	A	7	41.069	-1.869	-11.353	1.00	0.00	H
ATOM	115	HG22	THR	A	7	39.862	-2.438	-10.183	1.00	0.00	H
ATOM	116	HG23	THR	A	7	39.978	-3.200	-11.789	1.00	0.00	H
ATOM	117	HG1	THR	A	7	43.081	-3.597	-9.254	1.00	0.00	H
ATOM	118	N	SER	A	8	41.831	-6.792	-8.479	1.00	0.00	N
ATOM	119	CA	SER	A	8	42.648	-7.967	-8.139	1.00	0.00	C
ATOM	120	C	SER	A	8	42.492	-9.069	-9.196	1.00	0.00	C
ATOM	121	O	SER	A	8	41.383	-9.338	-9.659	1.00	0.00	O
ATOM	122	CB	SER	A	8	42.242	-8.541	-6.780	1.00	0.00	C
ATOM	123	OG	SER	A	8	42.255	-7.570	-5.754	1.00	0.00	O

ATOM	124	H	SER A	8	41.087	-6.545	-7.842	1.00	0.00	H
ATOM	125	HA	SER A	8	43.694	-7.668	-8.092	1.00	0.00	H
ATOM	126	HB2	SER A	8	41.236	-8.955	-6.849	1.00	0.00	H
ATOM	127	HB3	SER A	8	42.938	-9.339	-6.520	1.00	0.00	H
ATOM	128	HG	SER A	8	42.544	-8.039	-4.942	1.00	0.00	H
ATOM	129	N	THR A	9	43.545	-9.851	-9.436	1.00	0.00	N
ATOM	130	CA	THR A	9	43.583	-10.945	-10.433	1.00	0.00	C
ATOM	131	C	THR A	9	42.946	-12.254	-9.931	1.00	0.00	C
ATOM	132	O	THR A	9	43.398	-13.354	-10.246	1.00	0.00	O
ATOM	133	CB	THR A	9	45.011	-11.166	-10.966	1.00	0.00	C
ATOM	134	OG1	THR A	9	45.889	-11.607	-9.943	1.00	0.00	O
ATOM	135	CG2	THR A	9	45.595	-9.902	-11.599	1.00	0.00	C
ATOM	136	H	THR A	9	44.359	-9.740	-8.843	1.00	0.00	H
ATOM	137	HA	THR A	9	42.977	-10.631	-11.285	1.00	0.00	H
ATOM	138	HB	THR A	9	44.970	-11.928	-11.748	1.00	0.00	H
ATOM	139	HG21	THR A	9	46.543	-10.143	-12.081	1.00	0.00	H
ATOM	140	HG22	THR A	9	45.764	-9.131	-10.848	1.00	0.00	H
ATOM	141	HG23	THR A	9	44.910	-9.517	-12.355	1.00	0.00	H
ATOM	142	HG1	THR A	9	45.581	-11.264	-9.081	1.00	0.00	H
ATOM	143	N	ILE A	10	41.898	-12.159	-9.110	1.00	0.00	N
ATOM	144	CA	ILE A	10	41.276	-13.273	-8.367	1.00	0.00	C
ATOM	145	C	ILE A	10	40.673	-14.378	-9.256	1.00	0.00	C
ATOM	146	O	ILE A	10	40.501	-15.519	-8.812	1.00	0.00	O
ATOM	147	CB	ILE A	10	40.227	-12.716	-7.379	1.00	0.00	C
ATOM	148	CG1	ILE A	10	39.160	-11.831	-8.065	1.00	0.00	C
ATOM	149	CG2	ILE A	10	40.916	-12.004	-6.207	1.00	0.00	C
ATOM	150	CD1	ILE A	10	38.103	-11.279	-7.101	1.00	0.00	C
ATOM	151	H	ILE A	10	41.584	-11.220	-8.901	1.00	0.00	H
ATOM	152	HA	ILE A	10	42.056	-13.761	-7.783	1.00	0.00	H
ATOM	153	HB	ILE A	10	39.721	-13.573	-6.948	1.00	0.00	H

ATOM	154	HG12	ILE	A	10	39.630	-10.980	-8.555	1.00	0.00	H
ATOM	155	HG13	ILE	A	10	38.654	-12.417	-8.832	1.00	0.00	H
ATOM	156	HG21	ILE	A	10	41.531	-11.184	-6.567	1.00	0.00	H
ATOM	157	HG22	ILE	A	10	41.560	-12.711	-5.682	1.00	0.00	H
ATOM	158	HG23	ILE	A	10	40.194	-11.632	-5.487	1.00	0.00	H
ATOM	159	HD11	ILE	A	10	37.733	-12.067	-6.449	1.00	0.00	H
ATOM	160	HD12	ILE	A	10	37.276	-10.863	-7.670	1.00	0.00	H
ATOM	161	HD13	ILE	A	10	38.533	-10.487	-6.492	1.00	0.00	H
ATOM	162	N	LEU	A	11	40.408	-14.076	-10.529	1.00	0.00	N
ATOM	163	CA	LEU	A	11	40.169	-15.065	-11.579	1.00	0.00	C
ATOM	164	C	LEU	A	11	41.513	-15.603	-12.095	1.00	0.00	C
ATOM	165	O	LEU	A	11	42.148	-14.989	-12.945	1.00	0.00	O
ATOM	166	CB	LEU	A	11	39.368	-14.411	-12.718	1.00	0.00	C
ATOM	167	CG	LEU	A	11	37.929	-14.021	-12.357	1.00	0.00	C
ATOM	168	CD1	LEU	A	11	37.406	-13.062	-13.424	1.00	0.00	C
ATOM	169	CD2	LEU	A	11	37.013	-15.243	-12.273	1.00	0.00	C
ATOM	170	H	LEU	A	11	40.670	-13.148	-10.830	1.00	0.00	H
ATOM	171	HA	LEU	A	11	39.597	-15.901	-11.178	1.00	0.00	H
ATOM	172	HB2	LEU	A	11	39.904	-13.514	-13.031	1.00	0.00	H
ATOM	173	HB3	LEU	A	11	39.339	-15.094	-13.567	1.00	0.00	H
ATOM	174	HG	LEU	A	11	37.916	-13.511	-11.394	1.00	0.00	H
ATOM	175	HD21	LEU	A	11	37.370	-15.933	-11.511	1.00	0.00	H
ATOM	176	HD22	LEU	A	11	36.005	-14.927	-12.014	1.00	0.00	H
ATOM	177	HD23	LEU	A	11	36.986	-15.747	-13.238	1.00	0.00	H
ATOM	178	HD11	LEU	A	11	37.965	-12.130	-13.364	1.00	0.00	H
ATOM	179	HD12	LEU	A	11	37.551	-13.487	-14.415	1.00	0.00	H
ATOM	180	HD13	LEU	A	11	36.350	-12.847	-13.270	1.00	0.00	H
ATOM	181	N	LYS	A	12	41.922	-16.783	-11.613	1.00	0.00	N
ATOM	182	CA	LYS	A	12	43.185	-17.445	-11.998	1.00	0.00	C
ATOM	183	C	LYS	A	12	42.898	-18.715	-12.827	1.00	0.00	C



ATOM	184	O	LYS A 12	42.657	-19.768	-12.220	1.00	0.00	O
ATOM	185	CB	LYS A 12	44.061	-17.686	-10.749	1.00	0.00	C
ATOM	186	CG	LYS A 12	44.321	-16.380	-9.971	1.00	0.00	C
ATOM	187	CD	LYS A 12	45.404	-16.508	-8.886	1.00	0.00	C
ATOM	188	CE	LYS A 12	45.336	-15.373	-7.849	1.00	0.00	C
ATOM	189	NZ	LYS A 12	45.434	-14.022	-8.445	1.00	0.00	N
ATOM	190	H	LYS A 12	41.368	-17.191	-10.876	1.00	0.00	H
ATOM	191	HA	LYS A 12	43.757	-16.763	-12.628	1.00	0.00	H
ATOM	192	HB2	LYS A 12	43.575	-18.404	-10.086	1.00	0.00	H
ATOM	193	HB3	LYS A 12	45.016	-18.102	-11.074	1.00	0.00	H
ATOM	194	HG2	LYS A 12	44.634	-15.610	-10.677	1.00	0.00	H
ATOM	195	HG3	LYS A 12	43.389	-16.064	-9.498	1.00	0.00	H
ATOM	196	HD2	LYS A 12	45.268	-17.449	-8.353	1.00	0.00	H
ATOM	197	HD3	LYS A 12	46.388	-16.518	-9.356	1.00	0.00	H
ATOM	198	HE2	LYS A 12	44.382	-15.433	-7.315	1.00	0.00	H
ATOM	199	HE3	LYS A 12	46.121	-15.499	-7.097	1.00	0.00	H
ATOM	200	HZ1	LYS A 12	45.123	-13.338	-7.743	1.00	0.00	H
ATOM	201	HZ2	LYS A 12	46.354	-13.750	-8.749	1.00	0.00	H
ATOM	202	HZ3	LYS A 12	44.778	-13.890	-9.207	1.00	0.00	H
ATOM	203	N	PRO A 13	42.721	-18.603	-14.161	1.00	0.00	N
ATOM	204	CA	PRO A 13	42.212	-19.673	-15.031	1.00	0.00	C
ATOM	205	C	PRO A 13	43.206	-20.839	-15.209	1.00	0.00	C
ATOM	206	O	PRO A 13	44.265	-20.883	-14.575	1.00	0.00	O
ATOM	207	CB	PRO A 13	41.911	-18.964	-16.367	1.00	0.00	C
ATOM	208	CG	PRO A 13	42.965	-17.865	-16.425	1.00	0.00	C
ATOM	209	CD	PRO A 13	43.020	-17.421	-14.967	1.00	0.00	C
ATOM	210	HA	PRO A 13	41.282	-20.076	-14.631	1.00	0.00	H
ATOM	211	HB2	PRO A 13	40.928	-18.497	-16.321	1.00	0.00	H
ATOM	212	HB3	PRO A 13	41.968	-19.622	-17.235	1.00	0.00	H
ATOM	213	HG2	PRO A 13	43.928	-18.283	-16.726	1.00	0.00	H

ATOM	214	HG3 PRO A	13	42.672	-17.049	-17.088	1.00	0.00	H
ATOM	215	HD2 PRO A	13	42.255	-16.665	-14.798	1.00	0.00	H
ATOM	216	HD3 PRO A	13	44.008	-17.015	-14.745	1.00	0.00	H
ATOM	217	N ARG A	14	42.865	-21.803	-16.072	1.00	0.00	N
ATOM	218	CA ARG A	14	43.782	-22.766	-16.709	1.00	0.00	C
ATOM	219	C ARG A	14	43.227	-23.218	-18.056	1.00	0.00	C
ATOM	220	O ARG A	14	42.066	-23.608	-18.128	1.00	0.00	O
ATOM	221	CB ARG A	14	44.005	-23.992	-15.797	1.00	0.00	C
ATOM	222	CG ARG A	14	45.386	-23.988	-15.114	1.00	0.00	C
ATOM	223	CD ARG A	14	45.287	-24.303	-13.619	1.00	0.00	C
ATOM	224	NE ARG A	14	44.662	-23.182	-12.895	1.00	0.00	N
ATOM	225	CZ ARG A	14	44.369	-23.138	-11.612	1.00	0.00	C
ATOM	226	NH1 ARG A	14	44.609	-24.144	-10.816	1.00	0.00	N
ATOM	227	NH2 ARG A	14	43.821	-22.076	-11.098	1.00	0.00	N
ATOM	228	H ARG A	14	41.901	-21.808	-16.395	1.00	0.00	H
ATOM	229	HA ARG A	14	44.734	-22.269	-16.907	1.00	0.00	H
ATOM	230	HB2 ARG A	14	43.937	-24.908	-16.388	1.00	0.00	H
ATOM	231	HB3 ARG A	14	43.203	-24.044	-15.057	1.00	0.00	H
ATOM	232	HG2 ARG A	14	46.014	-24.742	-15.592	1.00	0.00	H
ATOM	233	HG3 ARG A	14	45.879	-23.022	-15.230	1.00	0.00	H
ATOM	234	HD2 ARG A	14	44.706	-25.217	-13.484	1.00	0.00	H
ATOM	235	HD3 ARG A	14	46.296	-24.465	-13.233	1.00	0.00	H
ATOM	236	HE ARG A	14	44.494	-22.336	-13.437	1.00	0.00	H
ATOM	237	HH11 ARG A	14	45.013	-24.978	-11.206	1.00	0.00	H
ATOM	238	HH12 ARG A	14	44.382	-24.111	-9.841	1.00	0.00	H
ATOM	239	HH21 ARG A	14	43.557	-21.300	-11.706	1.00	0.00	H
ATOM	240	HH22 ARG A	14	43.639	-22.022	-10.120	1.00	0.00	H
ATOM	241	N LEU A	15	44.096	-23.335	-19.060	1.00	0.00	N
ATOM	242	CA LEU A	15	43.834	-24.121	-20.267	1.00	0.00	C
ATOM	243	C LEU A	15	43.809	-25.615	-19.898	1.00	0.00	C

ATOM	244	O	LEU A 15	44.801	-26.138	-19.398	1.00	0.00	O
ATOM	245	CB	LEU A 15	44.931	-23.783	-21.301	1.00	0.00	C
ATOM	246	CG	LEU A 15	44.927	-24.630	-22.587	1.00	0.00	C
ATOM	247	CD1	LEU A 15	43.663	-24.422	-23.421	1.00	0.00	C
ATOM	248	CD2	LEU A 15	46.128	-24.262	-23.456	1.00	0.00	C
ATOM	249	H	LEU A 15	45.048	-23.052	-18.898	1.00	0.00	H
ATOM	250	HA	LEU A 15	42.862	-23.838	-20.677	1.00	0.00	H
ATOM	251	HB2	LEU A 15	45.902	-23.920	-20.820	1.00	0.00	H
ATOM	252	HB3	LEU A 15	44.840	-22.730	-21.573	1.00	0.00	H
ATOM	253	HG	LEU A 15	45.005	-25.687	-22.333	1.00	0.00	H
ATOM	254	HD11	LEU A 15	43.740	-24.969	-24.360	1.00	0.00	H
ATOM	255	HD12	LEU A 15	43.535	-23.359	-23.634	1.00	0.00	H
ATOM	256	HD13	LEU A 15	42.792	-24.780	-22.880	1.00	0.00	H
ATOM	257	HD21	LEU A 15	47.052	-24.432	-22.903	1.00	0.00	H
ATOM	258	HD22	LEU A 15	46.077	-23.211	-23.744	1.00	0.00	H
ATOM	259	HD23	LEU A 15	46.145	-24.876	-24.356	1.00	0.00	H
ATOM	260	N	ILE A 16	42.721	-26.314	-20.227	1.00	0.00	N
ATOM	261	CA	ILE A 16	42.559	-27.771	-20.037	1.00	0.00	C
ATOM	262	C	ILE A 16	42.486	-28.521	-21.383	1.00	0.00	C
ATOM	263	O	ILE A 16	41.862	-29.576	-21.500	1.00	0.00	O
ATOM	264	CB	ILE A 16	41.385	-28.092	-19.078	1.00	0.00	C
ATOM	265	CG1	ILE A 16	40.023	-27.655	-19.659	1.00	0.00	C
ATOM	266	CG2	ILE A 16	41.615	-27.485	-17.683	1.00	0.00	C
ATOM	267	CD1	ILE A 16	38.852	-28.479	-19.122	1.00	0.00	C
ATOM	268	H	ILE A 16	41.935	-25.803	-20.625	1.00	0.00	H
ATOM	269	HA	ILE A 16	43.458	-28.152	-19.551	1.00	0.00	H
ATOM	270	HB	ILE A 16	41.368	-29.177	-18.952	1.00	0.00	H
ATOM	271	HG12	ILE A 16	39.852	-26.598	-19.454	1.00	0.00	H
ATOM	272	HG13	ILE A 16	40.038	-27.793	-20.735	1.00	0.00	H
ATOM	273	HG21	ILE A 16	42.589	-27.793	-17.302	1.00	0.00	H

ATOM	274	HG22	ILE	A	16	41.572	-26.397	-17.726	1.00	0.00	H
ATOM	275	HG23	ILE	A	16	40.849	-27.847	-16.995	1.00	0.00	H
ATOM	276	HD11	ILE	A	16	39.016	-29.536	-19.331	1.00	0.00	H
ATOM	277	HD12	ILE	A	16	37.935	-28.164	-19.622	1.00	0.00	H
ATOM	278	HD13	ILE	A	16	38.746	-28.328	-18.049	1.00	0.00	H
ATOM	279	N	SER	A	17	43.075	-27.945	-22.436	1.00	0.00	N
ATOM	280	CA	SER	A	17	42.952	-28.358	-23.846	1.00	0.00	C
ATOM	281	C	SER	A	17	41.504	-28.349	-24.343	1.00	0.00	C
ATOM	282	O	SER	A	17	41.102	-27.443	-25.080	1.00	0.00	O
ATOM	283	CB	SER	A	17	43.609	-29.723	-24.097	1.00	0.00	C
ATOM	284	OG	SER	A	17	42.722	-30.772	-23.763	1.00	0.00	O
ATOM	285	H	SER	A	17	43.557	-27.078	-22.252	1.00	0.00	H
ATOM	286	HA	SER	A	17	43.496	-27.629	-24.446	1.00	0.00	H
ATOM	287	HB2	SER	A	17	44.527	-29.810	-23.512	1.00	0.00	H
ATOM	288	HB3	SER	A	17	43.861	-29.808	-25.155	1.00	0.00	H
ATOM	289	HG	SER	A	17	42.459	-30.659	-22.829	1.00	0.00	H
ATOM	290	H	SER	A	17	40.824	-29.147	-24.045	1.00	0.00	H
ATOM	291	N	GLU	A	18	47.852	-30.099	-40.413	1.00	0.00	N
ATOM	292	CA	GLU	A	18	47.877	-29.395	-41.699	1.00	0.00	C
ATOM	293	C	GLU	A	18	46.935	-28.166	-41.646	1.00	0.00	C
ATOM	294	O	GLU	A	18	46.825	-27.560	-40.581	1.00	0.00	O
ATOM	295	CB	GLU	A	18	47.624	-30.413	-42.829	1.00	0.00	C
ATOM	296	CG	GLU	A	18	48.078	-29.927	-44.224	1.00	0.00	C
ATOM	297	CD	GLU	A	18	46.946	-29.884	-45.262	1.00	0.00	C
ATOM	298	OE1	GLU	A	18	45.827	-29.477	-44.875	1.00	0.00	O
ATOM	299	OE2	GLU	A	18	47.248	-30.083	-46.458	1.00	0.00	O
ATOM	300	HA	GLU	A	18	48.884	-29.003	-41.835	1.00	0.00	H
ATOM	301	HB2	GLU	A	18	46.574	-30.706	-42.827	1.00	0.00	H
ATOM	302	HB3	GLU	A	18	48.200	-31.314	-42.608	1.00	0.00	H
ATOM	303	HG2	GLU	A	18	48.520	-28.932	-44.139	1.00	0.00	H

ATOM	304	HG3	GLU	A	18	48.869	-30.595	-44.576	1.00	0.00	H
ATOM	305	H	GLU	A	18	47.471	-29.570	-39.635	1.00	0.00	H
ATOM	306	H	GLU	A	18	48.805	-30.358	-40.179	1.00	0.00	H
ATOM	307	N	GLY	A	19	46.356	-27.704	-42.760	1.00	0.00	N
ATOM	308	CA	GLY	A	19	45.510	-26.507	-42.816	1.00	0.00	C
ATOM	309	C	GLY	A	19	44.054	-26.823	-42.475	1.00	0.00	C
ATOM	310	O	GLY	A	19	43.267	-27.200	-43.348	1.00	0.00	O
ATOM	311	H	GLY	A	19	46.347	-28.301	-43.587	1.00	0.00	H
ATOM	312	HA2	GLY	A	19	45.886	-25.752	-42.125	1.00	0.00	H
ATOM	313	HA3	GLY	A	19	45.543	-26.100	-43.825	1.00	0.00	H
ATOM	314	N	VAL	A	20	43.654	-26.625	-41.218	1.00	0.00	N
ATOM	315	CA	VAL	A	20	42.374	-27.122	-40.679	1.00	0.00	C
ATOM	316	C	VAL	A	20	41.660	-26.060	-39.843	1.00	0.00	C
ATOM	317	O	VAL	A	20	42.298	-25.317	-39.105	1.00	0.00	O
ATOM	318	CB	VAL	A	20	42.614	-28.437	-39.897	1.00	0.00	C
ATOM	319	CG1	VAL	A	20	41.449	-28.895	-39.005	1.00	0.00	C
ATOM	320	CG2	VAL	A	20	42.910	-29.593	-40.867	1.00	0.00	C
ATOM	321	H	VAL	A	20	44.333	-26.237	-40.562	1.00	0.00	H
ATOM	322	HA	VAL	A	20	41.711	-27.349	-41.509	1.00	0.00	H
ATOM	323	HB	VAL	A	20	43.481	-28.303	-39.255	1.00	0.00	H
ATOM	324	HG21	VAL	A	20	43.075	-30.512	-40.306	1.00	0.00	H
ATOM	325	HG22	VAL	A	20	42.080	-29.712	-41.562	1.00	0.00	H
ATOM	326	HG23	VAL	A	20	43.818	-29.378	-41.433	1.00	0.00	H
ATOM	327	HG11	VAL	A	20	41.688	-29.855	-38.543	1.00	0.00	H
ATOM	328	HG12	VAL	A	20	40.539	-29.003	-39.591	1.00	0.00	H
ATOM	329	HG13	VAL	A	20	41.285	-28.176	-38.203	1.00	0.00	H
ATOM	330	N	CYS	A	21	40.324	-26.107	-39.823	1.00	0.00	N
ATOM	331	CA	CYS	A	21	39.523	-25.474	-38.775	1.00	0.00	C
ATOM	332	C	CYS	A	21	38.522	-26.450	-38.134	1.00	0.00	C
ATOM	333	O	CYS	A	21	37.795	-27.162	-38.826	1.00	0.00	O

ATOM	334	CB	CYS	A	21	38.843	-24.203	-39.296	1.00	0.00	C
ATOM	335	SG	CYS	A	21	37.836	-23.395	-38.020	1.00	0.00	S
ATOM	336	H	CYS	A	21	39.865	-26.774	-40.434	1.00	0.00	H
ATOM	337	HA	CYS	A	21	40.194	-25.155	-37.982	1.00	0.00	H
ATOM	338	HB2	CYS	A	21	39.624	-23.512	-39.620	1.00	0.00	H
ATOM	339	HB3	CYS	A	21	38.218	-24.450	-40.154	1.00	0.00	H
ATOM	340	N	ILE	A	22	38.426	-26.415	-36.806	1.00	0.00	N
ATOM	341	CA	ILE	A	22	37.385	-27.046	-35.989	1.00	0.00	C
ATOM	342	C	ILE	A	22	36.337	-25.982	-35.619	1.00	0.00	C
ATOM	343	O	ILE	A	22	36.694	-24.978	-35.011	1.00	0.00	O
ATOM	344	CB	ILE	A	22	38.038	-27.659	-34.727	1.00	0.00	C
ATOM	345	CG1	ILE	A	22	39.206	-28.632	-35.012	1.00	0.00	C
ATOM	346	CG2	ILE	A	22	36.981	-28.338	-33.852	1.00	0.00	C
ATOM	347	CD1	ILE	A	22	38.840	-29.866	-35.843	1.00	0.00	C
ATOM	348	H	ILE	A	22	39.069	-25.793	-36.321	1.00	0.00	H
ATOM	349	HA	ILE	A	22	36.892	-27.834	-36.557	1.00	0.00	H
ATOM	350	HB	ILE	A	22	38.456	-26.845	-34.143	1.00	0.00	H
ATOM	351	HG12	ILE	A	22	39.621	-28.972	-34.062	1.00	0.00	H
ATOM	352	HG13	ILE	A	22	40.004	-28.096	-35.530	1.00	0.00	H
ATOM	353	HG21	ILE	A	22	36.462	-29.086	-34.444	1.00	0.00	H
ATOM	354	HG22	ILE	A	22	36.261	-27.607	-33.482	1.00	0.00	H
ATOM	355	HG23	ILE	A	22	37.452	-28.819	-32.994	1.00	0.00	H
ATOM	356	HD11	ILE	A	22	39.740	-30.451	-36.037	1.00	0.00	H
ATOM	357	HD12	ILE	A	22	38.416	-29.547	-36.790	1.00	0.00	H
ATOM	358	HD13	ILE	A	22	38.124	-30.488	-35.308	1.00	0.00	H
ATOM	359	N	THR	A	23	35.061	-26.173	-35.973	1.00	0.00	N
ATOM	360	CA	THR	A	23	34.011	-25.139	-35.810	1.00	0.00	C
ATOM	361	C	THR	A	23	32.593	-25.736	-35.677	1.00	0.00	C
ATOM	362	O	THR	A	23	32.461	-26.906	-35.326	1.00	0.00	O
ATOM	363	CB	THR	A	23	34.154	-24.107	-36.947	1.00	0.00	C

ATOM	364	OG1 THR A 23	33.341	-22.973	-36.758	1.00	0.00	O
ATOM	365	CG2 THR A 23	33.810	-24.689	-38.317	1.00	0.00	C
ATOM	366	H THR A 23	34.825	-26.999	-36.512	1.00	0.00	H
ATOM	367	HA THR A 23	34.204	-24.604	-34.880	1.00	0.00	H
ATOM	368	HB THR A 23	35.187	-23.761	-36.969	1.00	0.00	H
ATOM	369	HG1 THR A 23	32.510	-23.136	-37.279	1.00	0.00	H
ATOM	370	HG21 THR A 23	33.941	-23.913	-39.065	1.00	0.00	H
ATOM	371	HG22 THR A 23	32.777	-25.034	-38.338	1.00	0.00	H
ATOM	372	HG23 THR A 23	34.480	-25.518	-38.544	1.00	0.00	H
ATOM	373	N ASP A 24	31.544	-24.905	-35.745	1.00	0.00	N
ATOM	374	CA ASP A 24	30.172	-25.150	-35.241	1.00	0.00	C
ATOM	375	C ASP A 24	30.130	-25.782	-33.823	1.00	0.00	C
ATOM	376	O ASP A 24	29.601	-26.890	-33.655	1.00	0.00	O
ATOM	377	CB ASP A 24	29.320	-25.911	-36.277	1.00	0.00	C
ATOM	378	CG ASP A 24	27.824	-25.942	-35.912	1.00	0.00	C
ATOM	379	OD1 ASP A 24	27.267	-24.883	-35.555	1.00	0.00	O
ATOM	380	OD2 ASP A 24	27.179	-26.974	-36.224	1.00	0.00	O
ATOM	381	H ASP A 24	31.771	-23.951	-36.009	1.00	0.00	H
ATOM	382	HA ASP A 24	29.708	-24.169	-35.132	1.00	0.00	H
ATOM	383	HB2 ASP A 24	29.698	-26.930	-36.377	1.00	0.00	H
ATOM	384	HB3 ASP A 24	29.425	-25.420	-37.246	1.00	0.00	H
ATOM	385	N PRO A 25	30.851	-25.203	-32.835	1.00	0.00	N
ATOM	386	CA PRO A 25	31.111	-25.870	-31.568	1.00	0.00	C
ATOM	387	C PRO A 25	29.889	-25.889	-30.640	1.00	0.00	C
ATOM	388	O PRO A 25	29.296	-24.848	-30.335	1.00	0.00	O
ATOM	389	CB PRO A 25	32.292	-25.131	-30.942	1.00	0.00	C
ATOM	390	CG PRO A 25	32.151	-23.713	-31.483	1.00	0.00	C
ATOM	391	CD PRO A 25	31.562	-23.927	-32.874	1.00	0.00	C
ATOM	392	HA PRO A 25	31.420	-26.894	-31.768	1.00	0.00	H
ATOM	393	HB2 PRO A 25	32.249	-25.151	-29.856	1.00	0.00	H

ATOM	394	HB3 PRO A 25	33.223	-25.568	-31.302	1.00	0.00	H
ATOM	395	HG2 PRO A 25	31.458	-23.149	-30.863	1.00	0.00	H
ATOM	396	HG3 PRO A 25	33.116	-23.213	-31.533	1.00	0.00	H
ATOM	397	HD2 PRO A 25	32.390	-23.982	-33.577	1.00	0.00	H
ATOM	398	HD3 PRO A 25	30.898	-23.104	-33.142	1.00	0.00	H
ATOM	399	N LEU A 26	29.713	-27.034	-29.981	1.00	0.00	N
ATOM	400	CA LEU A 26	28.813	-27.256	-28.849	1.00	0.00	C
ATOM	401	C LEU A 26	29.625	-27.688	-27.624	1.00	0.00	C
ATOM	402	O LEU A 26	30.477	-28.568	-27.731	1.00	0.00	O
ATOM	403	CB LEU A 26	27.745	-28.286	-29.272	1.00	0.00	C
ATOM	404	CG LEU A 26	26.740	-28.757	-28.193	1.00	0.00	C
ATOM	405	CD1 LEU A 26	25.454	-29.220	-28.876	1.00	0.00	C
ATOM	406	CD2 LEU A 26	27.221	-29.953	-27.368	1.00	0.00	C
ATOM	407	H LEU A 26	30.322	-27.806	-30.239	1.00	0.00	H
ATOM	408	HA LEU A 26	28.304	-26.323	-28.604	1.00	0.00	H
ATOM	409	HB2 LEU A 26	27.186	-27.834	-30.093	1.00	0.00	H
ATOM	410	HB3 LEU A 26	28.252	-29.158	-29.670	1.00	0.00	H
ATOM	411	HG LEU A 26	26.504	-27.928	-27.528	1.00	0.00	H
ATOM	412	HD21 LEU A 26	26.458	-30.227	-26.639	1.00	0.00	H
ATOM	413	HD22 LEU A 26	27.418	-30.808	-28.013	1.00	0.00	H
ATOM	414	HD23 LEU A 26	28.118	-29.704	-26.811	1.00	0.00	H
ATOM	415	HD11 LEU A 26	24.730	-29.544	-28.129	1.00	0.00	H
ATOM	416	HD12 LEU A 26	25.658	-30.041	-29.563	1.00	0.00	H
ATOM	417	HD13 LEU A 26	25.025	-28.386	-29.425	1.00	0.00	H
ATOM	418	N LEU A 27	29.206	-27.209	-26.454	1.00	0.00	N
ATOM	419	CA LEU A 27	29.513	-27.755	-25.133	1.00	0.00	C
ATOM	420	C LEU A 27	28.234	-27.672	-24.288	1.00	0.00	C
ATOM	421	O LEU A 27	27.495	-26.694	-24.406	1.00	0.00	O
ATOM	422	CB LEU A 27	30.689	-26.983	-24.496	1.00	0.00	C
ATOM	423	CG LEU A 27	31.011	-27.381	-23.038	1.00	0.00	C



ATOM	424	CD1	LEU	A	27	31.580	-28.798	-22.938	1.00	0.00	C
ATOM	425	CD2	LEU	A	27	32.040	-26.429	-22.435	1.00	0.00	C
ATOM	426	H	LEU	A	27	28.448	-26.543	-26.461	1.00	0.00	H
ATOM	427	HA	LEU	A	27	29.796	-28.802	-25.235	1.00	0.00	H
ATOM	428	HB2	LEU	A	27	31.579	-27.130	-25.106	1.00	0.00	H
ATOM	429	HB3	LEU	A	27	30.441	-25.921	-24.508	1.00	0.00	H
ATOM	430	HG	LEU	A	27	30.113	-27.312	-22.427	1.00	0.00	H
ATOM	431	HD11	LEU	A	27	30.841	-29.523	-23.270	1.00	0.00	H
ATOM	432	HD12	LEU	A	27	32.477	-28.893	-23.549	1.00	0.00	H
ATOM	433	HD13	LEU	A	27	31.822	-29.024	-21.898	1.00	0.00	H
ATOM	434	HD21	LEU	A	27	32.996	-26.535	-22.941	1.00	0.00	H
ATOM	435	HD22	LEU	A	27	32.160	-26.669	-21.380	1.00	0.00	H
ATOM	436	HD23	LEU	A	27	31.686	-25.400	-22.512	1.00	0.00	H
ATOM	437	N	ALA	A	28	28.009	-28.657	-23.427	1.00	0.00	N
ATOM	438	CA	ALA	A	28	26.996	-28.628	-22.378	1.00	0.00	C
ATOM	439	C	ALA	A	28	27.507	-29.389	-21.151	1.00	0.00	C
ATOM	440	O	ALA	A	28	28.128	-30.441	-21.322	1.00	0.00	O
ATOM	441	CB	ALA	A	28	25.713	-29.267	-22.919	1.00	0.00	C
ATOM	442	H	ALA	A	28	28.619	-29.466	-23.444	1.00	0.00	H
ATOM	443	HA	ALA	A	28	26.790	-27.596	-22.093	1.00	0.00	H
ATOM	444	HB1	ALA	A	28	24.916	-29.174	-22.180	1.00	0.00	H
ATOM	445	HB2	ALA	A	28	25.417	-28.773	-23.843	1.00	0.00	H
ATOM	446	HB3	ALA	A	28	25.883	-30.325	-23.121	1.00	0.00	H
ATOM	447	N	VAL	A	29	27.206	-28.915	-19.942	1.00	0.00	N
ATOM	448	CA	VAL	A	29	27.513	-29.596	-18.675	1.00	0.00	C
ATOM	449	C	VAL	A	29	26.244	-29.750	-17.836	1.00	0.00	C
ATOM	450	O	VAL	A	29	25.599	-28.771	-17.465	1.00	0.00	O
ATOM	451	CB	VAL	A	29	28.634	-28.874	-17.896	1.00	0.00	C
ATOM	452	CG1	VAL	A	29	28.977	-29.598	-16.585	1.00	0.00	C
ATOM	453	CG2	VAL	A	29	29.927	-28.768	-18.719	1.00	0.00	C

ATOM	454	H	VAL A 29	26.836	-27.965	-19.892	1.00	0.00	H
ATOM	455	HA	VAL A 29	27.875	-30.598	-18.899	1.00	0.00	H
ATOM	456	HB	VAL A 29	28.304	-27.867	-17.648	1.00	0.00	H
ATOM	457	HG11	VAL A 29	28.121	-29.578	-15.911	1.00	0.00	H
ATOM	458	HG12	VAL A 29	29.809	-29.097	-16.090	1.00	0.00	H
ATOM	459	HG13	VAL A 29	29.251	-30.633	-16.790	1.00	0.00	H
ATOM	460	HG21	VAL A 29	30.706	-28.288	-18.128	1.00	0.00	H
ATOM	461	HG22	VAL A 29	30.257	-29.762	-19.023	1.00	0.00	H
ATOM	462	HG23	VAL A 29	29.751	-28.160	-19.608	1.00	0.00	H
ATOM	463	N	ASP A 30	25.979	-30.976	-17.386	1.00	0.00	N
ATOM	464	CA	ASP A 30	24.855	-31.337	-16.523	1.00	0.00	C
ATOM	465	C	ASP A 30	25.327	-32.279	-15.413	1.00	0.00	C
ATOM	466	O	ASP A 30	25.739	-33.407	-15.671	1.00	0.00	O
ATOM	467	CB	ASP A 30	23.759	-32.039	-17.332	1.00	0.00	C
ATOM	468	CG	ASP A 30	22.716	-31.107	-17.950	1.00	0.00	C
ATOM	469	OD1	ASP A 30	21.921	-30.639	-17.098	1.00	0.00	O
ATOM	470	OD2	ASP A 30	22.293	-31.477	-19.072	1.00	0.00	O
ATOM	471	H	ASP A 30	26.607	-31.723	-17.667	1.00	0.00	H
ATOM	472	HA	ASP A 30	24.427	-30.444	-16.065	1.00	0.00	H
ATOM	473	HB2	ASP A 30	23.226	-32.714	-16.659	1.00	0.00	H
ATOM	474	HB3	ASP A 30	24.223	-32.663	-18.098	1.00	0.00	H
ATOM	475	N	ASN A 31	25.123	-31.875	-14.157	1.00	0.00	N
ATOM	476	CA	ASN A 31	25.235	-32.733	-12.966	1.00	0.00	C
ATOM	477	C	ASN A 31	26.608	-33.416	-12.719	1.00	0.00	C
ATOM	478	O	ASN A 31	26.746	-34.096	-11.708	1.00	0.00	O
ATOM	479	CB	ASN A 31	24.060	-33.742	-12.963	1.00	0.00	C
ATOM	480	CG	ASN A 31	22.694	-33.090	-13.103	1.00	0.00	C
ATOM	481	OD1	ASN A 31	22.000	-33.203	-14.105	1.00	0.00	O
ATOM	482	ND2	ASN A 31	22.285	-32.321	-12.120	1.00	0.00	N
ATOM	483	H	ASN A 31	24.757	-30.944	-14.033	1.00	0.00	H

ATOM	484	HA	ASN	A	31	25.105	-32.083	-12.102	1.00	0.00	H
ATOM	485	HB2	ASN	A	31	24.189	-34.450	-13.781	1.00	0.00	H
ATOM	486	HB3	ASN	A	31	24.078	-34.307	-12.031	1.00	0.00	H
ATOM	487	HD21	ASN	A	31	22.831	-32.248	-11.281	1.00	0.00	H
ATOM	488	HD22	ASN	A	31	21.389	-31.884	-12.224	1.00	0.00	H
ATOM	489	N	GLY	A	32	27.624	-33.166	-13.555	1.00	0.00	N
ATOM	490	CA	GLY	A	32	28.937	-33.834	-13.541	1.00	0.00	C
ATOM	491	C	GLY	A	32	29.290	-34.541	-14.861	1.00	0.00	C
ATOM	492	O	GLY	A	32	30.462	-34.810	-15.122	1.00	0.00	O
ATOM	493	H	GLY	A	32	27.401	-32.630	-14.381	1.00	0.00	H
ATOM	494	HA2	GLY	A	32	28.961	-34.586	-12.751	1.00	0.00	H
ATOM	495	HA3	GLY	A	32	29.713	-33.096	-13.333	1.00	0.00	H
ATOM	496	N	PHE	A	33	28.309	-34.709	-15.750	1.00	0.00	N
ATOM	497	CA	PHE	A	33	28.478	-35.166	-17.130	1.00	0.00	C
ATOM	498	C	PHE	A	33	28.590	-33.987	-18.105	1.00	0.00	C
ATOM	499	O	PHE	A	33	28.134	-32.882	-17.805	1.00	0.00	O
ATOM	500	CB	PHE	A	33	27.300	-36.078	-17.500	1.00	0.00	C
ATOM	501	CG	PHE	A	33	27.084	-37.199	-16.501	1.00	0.00	C
ATOM	502	CD1	PHE	A	33	28.071	-38.188	-16.349	1.00	0.00	C
ATOM	503	CD2	PHE	A	33	25.950	-37.211	-15.669	1.00	0.00	C
ATOM	504	CE1	PHE	A	33	27.928	-39.190	-15.375	1.00	0.00	C
ATOM	505	CE2	PHE	A	33	25.804	-38.216	-14.695	1.00	0.00	C
ATOM	506	CZ	PHE	A	33	26.791	-39.208	-14.550	1.00	0.00	C
ATOM	507	H	PHE	A	33	27.377	-34.401	-15.500	1.00	0.00	H
ATOM	508	HA	PHE	A	33	29.396	-35.748	-17.200	1.00	0.00	H
ATOM	509	HB2	PHE	A	33	26.392	-35.478	-17.572	1.00	0.00	H
ATOM	510	HB3	PHE	A	33	27.488	-36.518	-18.481	1.00	0.00	H
ATOM	511	HD1	PHE	A	33	28.945	-38.169	-16.980	1.00	0.00	H
ATOM	512	HD2	PHE	A	33	25.198	-36.440	-15.770	1.00	0.00	H
ATOM	513	HE1	PHE	A	33	28.701	-39.938	-15.258	1.00	0.00	H

ATOM	514	HE2	PHE	A	33	24.941	-38.221	-14.049	1.00	0.00	H
ATOM	515	HZ	PHE	A	33	26.683	-39.976	-13.797	1.00	0.00	H
ATOM	516	N	PHE	A	34	29.056	-34.251	-19.328	1.00	0.00	N
ATOM	517	CA	PHE	A	34	29.075	-33.267	-20.415	1.00	0.00	C
ATOM	518	C	PHE	A	34	28.679	-33.861	-21.773	1.00	0.00	C
ATOM	519	O	PHE	A	34	28.847	-35.060	-22.012	1.00	0.00	O
ATOM	520	CB	PHE	A	34	30.447	-32.569	-20.477	1.00	0.00	C
ATOM	521	CG	PHE	A	34	31.565	-33.383	-21.107	1.00	0.00	C
ATOM	522	CD1	PHE	A	34	31.845	-33.249	-22.480	1.00	0.00	C
ATOM	523	CD2	PHE	A	34	32.323	-34.275	-20.326	1.00	0.00	C
ATOM	524	CE1	PHE	A	34	32.858	-34.022	-23.075	1.00	0.00	C
ATOM	525	CE2	PHE	A	34	33.350	-35.031	-20.916	1.00	0.00	C
ATOM	526	CZ	PHE	A	34	33.609	-34.914	-22.291	1.00	0.00	C
ATOM	527	H	PHE	A	34	29.396	-35.187	-19.526	1.00	0.00	H
ATOM	528	HA	PHE	A	34	28.330	-32.510	-20.183	1.00	0.00	H
ATOM	529	HB2	PHE	A	34	30.343	-31.653	-21.055	1.00	0.00	H
ATOM	530	HB3	PHE	A	34	30.736	-32.267	-19.474	1.00	0.00	H
ATOM	531	HD1	PHE	A	34	31.271	-32.560	-23.084	1.00	0.00	H
ATOM	532	HD2	PHE	A	34	32.106	-34.395	-19.276	1.00	0.00	H
ATOM	533	HE1	PHE	A	34	33.056	-33.932	-24.133	1.00	0.00	H
ATOM	534	HE2	PHE	A	34	33.921	-35.719	-20.313	1.00	0.00	H
ATOM	535	HZ	PHE	A	34	34.383	-35.513	-22.744	1.00	0.00	H
ATOM	536	N	ALA	A	35	28.321	-32.971	-22.701	1.00	0.00	N
ATOM	537	CA	ALA	A	35	28.228	-33.227	-24.137	1.00	0.00	C
ATOM	538	C	ALA	A	35	29.031	-32.200	-24.947	1.00	0.00	C
ATOM	539	O	ALA	A	35	29.260	-31.073	-24.511	1.00	0.00	O
ATOM	540	CB	ALA	A	35	26.762	-33.245	-24.574	1.00	0.00	C
ATOM	541	H	ALA	A	35	28.244	-32.004	-22.401	1.00	0.00	H
ATOM	542	HA	ALA	A	35	28.654	-34.206	-24.346	1.00	0.00	H
ATOM	543	HB1	ALA	A	35	26.694	-33.401	-25.651	1.00	0.00	H

ATOM	544	HB2	ALA	A	35	26.259	-34.063	-24.073	1.00	0.00	H
ATOM	545	HB3	ALA	A	35	26.278	-32.303	-24.316	1.00	0.00	H
ATOM	546	N	TYR	A	36	29.423	-32.590	-26.158	1.00	0.00	N
ATOM	547	CA	TYR	A	36	30.275	-31.819	-27.057	1.00	0.00	C
ATOM	548	C	TYR	A	36	29.952	-32.124	-28.529	1.00	0.00	C
ATOM	549	O	TYR	A	36	29.590	-33.249	-28.875	1.00	0.00	O
ATOM	550	CB	TYR	A	36	31.739	-32.124	-26.712	1.00	0.00	C
ATOM	551	CG	TYR	A	36	32.755	-31.482	-27.635	1.00	0.00	C
ATOM	552	CD1	TYR	A	36	33.206	-30.172	-27.384	1.00	0.00	C
ATOM	553	CD2	TYR	A	36	33.223	-32.184	-28.763	1.00	0.00	C
ATOM	554	CE1	TYR	A	36	34.138	-29.567	-28.250	1.00	0.00	C
ATOM	555	CE2	TYR	A	36	34.147	-31.578	-29.633	1.00	0.00	C
ATOM	556	CZ	TYR	A	36	34.613	-30.270	-29.376	1.00	0.00	C
ATOM	557	OH	TYR	A	36	35.520	-29.692	-30.206	1.00	0.00	O
ATOM	558	H	TYR	A	36	29.238	-33.554	-26.420	1.00	0.00	H
ATOM	559	HA	TYR	A	36	30.104	-30.761	-26.882	1.00	0.00	H
ATOM	560	HB2	TYR	A	36	31.879	-33.203	-26.732	1.00	0.00	H
ATOM	561	HB3	TYR	A	36	31.935	-31.791	-25.691	1.00	0.00	H
ATOM	562	HD1	TYR	A	36	32.819	-29.622	-26.536	1.00	0.00	H
ATOM	563	HD2	TYR	A	36	32.859	-33.179	-28.970	1.00	0.00	H
ATOM	564	HE1	TYR	A	36	34.481	-28.560	-28.069	1.00	0.00	H
ATOM	565	HE2	TYR	A	36	34.499	-32.115	-30.498	1.00	0.00	H
ATOM	566	HH	TYR	A	36	35.090	-29.358	-31.010	1.00	0.00	H
ATOM	567	N	SER	A	37	30.176	-31.160	-29.424	1.00	0.00	N
ATOM	568	CA	SER	A	37	30.195	-31.384	-30.879	1.00	0.00	C
ATOM	569	C	SER	A	37	31.152	-30.421	-31.571	1.00	0.00	C
ATOM	570	O	SER	A	37	31.192	-29.246	-31.206	1.00	0.00	O
ATOM	571	CB	SER	A	37	28.771	-31.323	-31.479	1.00	0.00	C
ATOM	572	OG	SER	A	37	28.649	-30.497	-32.636	1.00	0.00	O
ATOM	573	H	SER	A	37	30.533	-30.273	-29.080	1.00	0.00	H

ATOM	574	HA	SER A 37	30.581	-32.388	-31.051	1.00	0.00	H
ATOM	575	HB2	SER A 37	28.481	-32.337	-31.747	1.00	0.00	H
ATOM	576	HB3	SER A 37	28.061	-30.985	-30.726	1.00	0.00	H
ATOM	577	HG	SER A 37	28.840	-29.586	-32.367	1.00	0.00	H
ATOM	578	N	HIS A 38	31.698	-30.845	-32.714	1.00	0.00	N
ATOM	579	CA	HIS A 38	32.311	-29.950	-33.701	1.00	0.00	C
ATOM	580	C	HIS A 38	32.132	-30.462	-35.130	1.00	0.00	C
ATOM	581	O	HIS A 38	31.985	-31.663	-35.359	1.00	0.00	O
ATOM	582	CB	HIS A 38	33.795	-29.706	-33.368	1.00	0.00	C
ATOM	583	CG	HIS A 38	34.754	-30.875	-33.523	1.00	0.00	C
ATOM	584	ND1	HIS A 38	35.715	-31.238	-32.574	1.00	0.00	N
ATOM	585	CD2	HIS A 38	35.013	-31.576	-34.670	1.00	0.00	C
ATOM	586	CE1	HIS A 38	36.486	-32.172	-33.150	1.00	0.00	C
ATOM	587	NE2	HIS A 38	36.083	-32.401	-34.408	1.00	0.00	N
ATOM	588	H	HIS A 38	31.507	-31.799	-33.004	1.00	0.00	H
ATOM	589	HA	HIS A 38	31.805	-28.980	-33.651	1.00	0.00	H
ATOM	590	HB2	HIS A 38	34.147	-28.900	-34.011	1.00	0.00	H
ATOM	591	HB3	HIS A 38	33.860	-29.337	-32.345	1.00	0.00	H
ATOM	592	HD2	HIS A 38	34.513	-31.467	-35.620	1.00	0.00	H
ATOM	593	HE1	HIS A 38	37.324	-32.661	-32.669	1.00	0.00	H
ATOM	594	HE2	HIS A 38	36.519	-33.044	-35.057	1.00	0.00	H
ATOM	595	N	LEU A 39	32.341	-29.570	-36.093	1.00	0.00	N
ATOM	596	CA	LEU A 39	32.568	-29.848	-37.506	1.00	0.00	C
ATOM	597	C	LEU A 39	34.018	-29.492	-37.876	1.00	0.00	C
ATOM	598	O	LEU A 39	34.403	-28.324	-37.860	1.00	0.00	O
ATOM	599	CB	LEU A 39	31.531	-29.038	-38.307	1.00	0.00	C
ATOM	600	CG	LEU A 39	31.610	-29.229	-39.830	1.00	0.00	C
ATOM	601	CD1	LEU A 39	31.315	-30.676	-40.228	1.00	0.00	C
ATOM	602	CD2	LEU A 39	30.582	-28.326	-40.513	1.00	0.00	C
ATOM	603	H	LEU A 39	32.463	-28.604	-35.802	1.00	0.00	H

ATOM	604	HA	LEU	A	39	32.412	-30.907	-37.697	1.00	0.00	H
ATOM	605	HB2	LEU	A	39	30.532	-29.316	-37.968	1.00	0.00	H
ATOM	606	HB3	LEU	A	39	31.674	-27.979	-38.083	1.00	0.00	H
ATOM	607	HG	LEU	A	39	32.601	-28.953	-40.192	1.00	0.00	H
ATOM	608	HD11	LEU	A	39	32.150	-31.314	-39.946	1.00	0.00	H
ATOM	609	HD12	LEU	A	39	31.171	-30.743	-41.303	1.00	0.00	H
ATOM	610	HD13	LEU	A	39	30.404	-31.020	-39.741	1.00	0.00	H
ATOM	611	HD21	LEU	A	39	30.661	-28.427	-41.594	1.00	0.00	H
ATOM	612	HD22	LEU	A	39	29.577	-28.611	-40.200	1.00	0.00	H
ATOM	613	HD23	LEU	A	39	30.761	-27.289	-40.230	1.00	0.00	H
ATOM	614	N	GLU	A	40	34.829	-30.497	-38.201	1.00	0.00	N
ATOM	615	CA	GLU	A	40	36.172	-30.314	-38.761	1.00	0.00	C
ATOM	616	C	GLU	A	40	36.102	-29.971	-40.254	1.00	0.00	C
ATOM	617	O	GLU	A	40	35.412	-30.654	-41.019	1.00	0.00	O
ATOM	618	CB	GLU	A	40	37.008	-31.587	-38.537	1.00	0.00	C
ATOM	619	CG	GLU	A	40	38.426	-31.465	-39.123	1.00	0.00	C
ATOM	620	CD	GLU	A	40	39.310	-32.676	-38.824	1.00	0.00	C
ATOM	621	OE1	GLU	A	40	38.843	-33.782	-39.175	1.00	0.00	O
ATOM	622	OE2	GLU	A	40	40.538	-32.459	-38.884	1.00	0.00	O
ATOM	623	H	GLU	A	40	34.438	-31.433	-38.231	1.00	0.00	H
ATOM	624	HA	GLU	A	40	36.660	-29.484	-38.247	1.00	0.00	H
ATOM	625	HB2	GLU	A	40	36.499	-32.422	-39.013	1.00	0.00	H
ATOM	626	HB3	GLU	A	40	37.080	-31.782	-37.467	1.00	0.00	H
ATOM	627	HG2	GLU	A	40	38.895	-30.563	-38.733	1.00	0.00	H
ATOM	628	HG3	GLU	A	40	38.365	-31.355	-40.208	1.00	0.00	H
ATOM	629	N	LYS	A	41	36.969	-29.057	-40.697	1.00	0.00	N
ATOM	630	CA	LYS	A	41	37.115	-28.605	-42.084	1.00	0.00	C
ATOM	631	C	LYS	A	41	38.571	-28.599	-42.541	1.00	0.00	C
ATOM	632	O	LYS	A	41	39.459	-28.232	-41.779	1.00	0.00	O
ATOM	633	CB	LYS	A	41	36.532	-27.192	-42.215	1.00	0.00	C

ATOM	634	CG	LYS	A	41	35.000	-27.188	-42.132	1.00	0.00	C
ATOM	635	CD	LYS	A	41	34.505	-25.755	-41.942	1.00	0.00	C
ATOM	636	CE	LYS	A	41	32.984	-25.682	-42.087	1.00	0.00	C
ATOM	637	NZ	LYS	A	41	32.604	-25.277	-43.460	1.00	0.00	N
ATOM	638	H	LYS	A	41	37.493	-28.535	-39.997	1.00	0.00	H
ATOM	639	HA	LYS	A	41	36.563	-29.279	-42.730	1.00	0.00	H
ATOM	640	HB2	LYS	A	41	36.950	-26.561	-41.427	1.00	0.00	H
ATOM	641	HB3	LYS	A	41	36.825	-26.766	-43.175	1.00	0.00	H
ATOM	642	HG2	LYS	A	41	34.590	-27.616	-43.047	1.00	0.00	H
ATOM	643	HG3	LYS	A	41	34.661	-27.781	-41.283	1.00	0.00	H
ATOM	644	HD2	LYS	A	41	34.988	-25.087	-42.657	1.00	0.00	H
ATOM	645	HD3	LYS	A	41	34.781	-25.432	-40.939	1.00	0.00	H
ATOM	646	HE2	LYS	A	41	32.556	-26.654	-41.826	1.00	0.00	H
ATOM	647	HE3	LYS	A	41	32.605	-24.942	-41.374	1.00	0.00	H
ATOM	648	HZ1	LYS	A	41	31.619	-25.409	-43.624	1.00	0.00	H
ATOM	649	HZ2	LYS	A	41	32.785	-24.283	-43.584	1.00	0.00	H
ATOM	650	HZ3	LYS	A	41	33.148	-25.784	-44.157	1.00	0.00	H
ATOM	651	N	ILE	A	42	38.782	-28.846	-43.832	1.00	0.00	N
ATOM	652	CA	ILE	A	42	39.983	-28.435	-44.572	1.00	0.00	C
ATOM	653	C	ILE	A	42	39.874	-26.930	-44.849	1.00	0.00	C
ATOM	654	O	ILE	A	42	38.910	-26.489	-45.483	1.00	0.00	O
ATOM	655	CB	ILE	A	42	40.129	-29.225	-45.896	1.00	0.00	C
ATOM	656	CG1	ILE	A	42	40.051	-30.752	-45.664	1.00	0.00	C
ATOM	657	CG2	ILE	A	42	41.447	-28.838	-46.594	1.00	0.00	C
ATOM	658	CD1	ILE	A	42	40.092	-31.599	-46.942	1.00	0.00	C
ATOM	659	H	ILE	A	42	37.971	-29.107	-44.381	1.00	0.00	H
ATOM	660	HA	ILE	A	42	40.868	-28.617	-43.958	1.00	0.00	H
ATOM	661	HB	ILE	A	42	39.304	-28.947	-46.553	1.00	0.00	H
ATOM	662	HG12	ILE	A	42	40.865	-31.058	-45.007	1.00	0.00	H
ATOM	663	HG13	ILE	A	42	39.105	-30.985	-45.176	1.00	0.00	H



ATOM	664	HG21	ILE	A	42	41.492	-27.765	-46.778	1.00	0.00	H
ATOM	665	HG22	ILE	A	42	41.532	-29.335	-47.560	1.00	0.00	H
ATOM	666	HG23	ILE	A	42	42.301	-29.122	-45.976	1.00	0.00	H
ATOM	667	HD11	ILE	A	42	39.877	-32.639	-46.691	1.00	0.00	H
ATOM	668	HD12	ILE	A	42	39.340	-31.244	-47.649	1.00	0.00	H
ATOM	669	HD13	ILE	A	42	41.078	-31.552	-47.401	1.00	0.00	H
ATOM	670	N	GLY	A	43	40.853	-26.149	-44.400	1.00	0.00	N
ATOM	671	CA	GLY	A	43	40.871	-24.693	-44.530	1.00	0.00	C
ATOM	672	C	GLY	A	43	39.778	-23.973	-43.726	1.00	0.00	C
ATOM	673	O	GLY	A	43	39.364	-24.418	-42.658	1.00	0.00	O
ATOM	674	H	GLY	A	43	41.642	-26.589	-43.932	1.00	0.00	H
ATOM	675	HA2	GLY	A	43	41.840	-24.322	-44.191	1.00	0.00	H
ATOM	676	HA3	GLY	A	43	40.764	-24.438	-45.584	1.00	0.00	H
ATOM	677	N	SER	A	44	39.377	-22.792	-44.214	1.00	0.00	N
ATOM	678	CA	SER	A	44	38.618	-21.785	-43.448	1.00	0.00	C
ATOM	679	C	SER	A	44	37.361	-22.322	-42.740	1.00	0.00	C
ATOM	680	O	SER	A	44	36.545	-23.020	-43.338	1.00	0.00	O
ATOM	681	CB	SER	A	44	38.240	-20.607	-44.361	1.00	0.00	C
ATOM	682	OG	SER	A	44	37.289	-20.990	-45.342	1.00	0.00	O
ATOM	683	H	SER	A	44	39.825	-22.488	-45.062	1.00	0.00	H
ATOM	684	HA	SER	A	44	39.286	-21.399	-42.677	1.00	0.00	H
ATOM	685	HB2	SER	A	44	39.138	-20.229	-44.853	1.00	0.00	H
ATOM	686	HB3	SER	A	44	37.816	-19.804	-43.756	1.00	0.00	H
ATOM	687	HG	SER	A	44	37.612	-21.795	-45.763	1.00	0.00	H
ATOM	688	N	CYS	A	45	37.075	-21.793	-41.549	1.00	0.00	N
ATOM	689	CA	CYS	A	45	35.934	-22.219	-40.729	1.00	0.00	C
ATOM	690	C	CYS	A	45	34.570	-22.018	-41.415	1.00	0.00	C
ATOM	691	O	CYS	A	45	33.711	-22.895	-41.369	1.00	0.00	O
ATOM	692	CB	CYS	A	45	35.988	-21.445	-39.408	1.00	0.00	C
ATOM	693	SG	CYS	A	45	37.608	-21.463	-38.602	1.00	0.00	S

ATOM	694	H	CYS A 45	37.786	-21.248	-41.082	1.00	0.00	H
ATOM	695	HA	CYS A 45	36.045	-23.281	-40.508	1.00	0.00	H
ATOM	696	HB2	CYS A 45	35.253	-21.860	-38.715	1.00	0.00	H
ATOM	697	HB3	CYS A 45	35.720	-20.404	-39.589	1.00	0.00	H
ATOM	698	N	THR A 46	34.412	-20.958	-42.212	1.00	0.00	N
ATOM	699	CA	THR A 46	33.191	-20.738	-43.001	1.00	0.00	C
ATOM	700	C	THR A 46	33.122	-21.675	-44.214	1.00	0.00	C
ATOM	701	O	THR A 46	32.301	-22.593	-44.245	1.00	0.00	O
ATOM	702	CB	THR A 46	33.042	-19.262	-43.407	1.00	0.00	C
ATOM	703	OG1	THR A 46	34.166	-18.816	-44.133	1.00	0.00	O
ATOM	704	CG2	THR A 46	32.906	-18.338	-42.199	1.00	0.00	C
ATOM	705	H	THR A 46	35.167	-20.294	-42.291	1.00	0.00	H
ATOM	706	HA	THR A 46	32.331	-20.983	-42.375	1.00	0.00	H
ATOM	707	HB	THR A 46	32.152	-19.153	-44.028	1.00	0.00	H
ATOM	708	HG1	THR A 46	34.385	-17.941	-43.792	1.00	0.00	H
ATOM	709	HG21	THR A 46	32.720	-17.316	-42.530	1.00	0.00	H
ATOM	710	HG22	THR A 46	32.063	-18.658	-41.586	1.00	0.00	H
ATOM	711	HG23	THR A 46	33.810	-18.359	-41.587	1.00	0.00	H
ATOM	712	N	ARG A 47	34.016	-21.517	-45.198	1.00	0.00	N
ATOM	713	CA	ARG A 47	33.886	-22.128	-46.540	1.00	0.00	C
ATOM	714	C	ARG A 47	34.731	-23.388	-46.768	1.00	0.00	C
ATOM	715	O	ARG A 47	34.648	-23.979	-47.837	1.00	0.00	O
ATOM	716	CB	ARG A 47	34.132	-21.052	-47.614	1.00	0.00	C
ATOM	717	CG	ARG A 47	33.023	-19.987	-47.591	1.00	0.00	C
ATOM	718	CD	ARG A 47	33.265	-18.883	-48.625	1.00	0.00	C
ATOM	719	NE	ARG A 47	32.190	-17.870	-48.565	1.00	0.00	N
ATOM	720	CZ	ARG A 47	32.310	-16.559	-48.697	1.00	0.00	C
ATOM	721	NH1	ARG A 47	33.448	-15.983	-48.965	1.00	0.00	N
ATOM	722	NH2	ARG A 47	31.267	-15.790	-48.557	1.00	0.00	N
ATOM	723	H	ARG A 47	34.702	-20.778	-45.071	1.00	0.00	H

ATOM	724	HA	ARG A 47	32.861	-22.482	-46.665	1.00	0.00	H
ATOM	725	HB2	ARG A 47	35.104	-20.584	-47.445	1.00	0.00	H
ATOM	726	HB3	ARG A 47	34.140	-21.519	-48.601	1.00	0.00	H
ATOM	727	HG2	ARG A 47	32.065	-20.467	-47.798	1.00	0.00	H
ATOM	728	HG3	ARG A 47	32.975	-19.526	-46.604	1.00	0.00	H
ATOM	729	HD2	ARG A 47	34.236	-18.430	-48.416	1.00	0.00	H
ATOM	730	HD3	ARG A 47	33.293	-19.328	-49.622	1.00	0.00	H
ATOM	731	HE	ARG A 47	31.265	-18.219	-48.377	1.00	0.00	H
ATOM	732	HH11	ARG A 47	34.266	-16.554	-49.081	1.00	0.00	H
ATOM	733	HH12	ARG A 47	33.516	-14.985	-49.046	1.00	0.00	H
ATOM	734	HH21	ARG A 47	30.372	-16.184	-48.327	1.00	0.00	H
ATOM	735	HH22	ARG A 47	31.361	-14.793	-48.633	1.00	0.00	H
ATOM	736	N	GLY A 48	35.482	-23.836	-45.765	1.00	0.00	N
ATOM	737	CA	GLY A 48	36.289	-25.056	-45.809	1.00	0.00	C
ATOM	738	C	GLY A 48	35.466	-26.342	-45.930	1.00	0.00	C
ATOM	739	O	GLY A 48	34.333	-26.424	-45.436	1.00	0.00	O
ATOM	740	H	GLY A 48	35.528	-23.289	-44.912	1.00	0.00	H
ATOM	741	HA2	GLY A 48	36.974	-24.997	-46.656	1.00	0.00	H
ATOM	742	HA3	GLY A 48	36.888	-25.119	-44.900	1.00	0.00	H
ATOM	743	N	ILE A 49	36.051	-27.347	-46.588	1.00	0.00	N
ATOM	744	CA	ILE A 49	35.428	-28.644	-46.886	1.00	0.00	C
ATOM	745	C	ILE A 49	35.351	-29.481	-45.608	1.00	0.00	C
ATOM	746	O	ILE A 49	36.379	-29.747	-44.992	1.00	0.00	O
ATOM	747	CB	ILE A 49	36.209	-29.404	-47.990	1.00	0.00	C
ATOM	748	CG1	ILE A 49	36.279	-28.617	-49.321	1.00	0.00	C
ATOM	749	CG2	ILE A 49	35.559	-30.776	-48.263	1.00	0.00	C
ATOM	750	CD1	ILE A 49	37.525	-27.728	-49.447	1.00	0.00	C
ATOM	751	H	ILE A 49	37.019	-27.217	-46.857	1.00	0.00	H
ATOM	752	HA	ILE A 49	34.414	-28.467	-47.246	1.00	0.00	H
ATOM	753	HB	ILE A 49	37.224	-29.595	-47.639	1.00	0.00	H

ATOM	754	HG12	ILE	A	49	35.380	-28.011	-49.445	1.00	0.00	H
ATOM	755	HG13	ILE	A	49	36.316	-29.319	-50.156	1.00	0.00	H
ATOM	756	HG21	ILE	A	49	35.588	-31.407	-47.373	1.00	0.00	H
ATOM	757	HG22	ILE	A	49	34.526	-30.654	-48.587	1.00	0.00	H
ATOM	758	HG23	ILE	A	49	36.115	-31.301	-49.042	1.00	0.00	H
ATOM	759	HD11	ILE	A	49	37.547	-27.284	-50.443	1.00	0.00	H
ATOM	760	HD12	ILE	A	49	37.508	-26.926	-48.712	1.00	0.00	H
ATOM	761	HD13	ILE	A	49	38.426	-28.328	-49.310	1.00	0.00	H
ATOM	762	N	ALA	A	50	34.159	-29.948	-45.237	1.00	0.00	N
ATOM	763	CA	ALA	A	50	33.963	-30.791	-44.057	1.00	0.00	C
ATOM	764	C	ALA	A	50	34.711	-32.136	-44.171	1.00	0.00	C
ATOM	765	O	ALA	A	50	34.429	-32.908	-45.085	1.00	0.00	O
ATOM	766	CB	ALA	A	50	32.458	-31.011	-43.871	1.00	0.00	C
ATOM	767	H	ALA	A	50	33.364	-29.765	-45.825	1.00	0.00	H
ATOM	768	HA	ALA	A	50	34.340	-30.256	-43.185	1.00	0.00	H
ATOM	769	HB1	ALA	A	50	32.300	-31.663	-43.015	1.00	0.00	H
ATOM	770	HB2	ALA	A	50	32.039	-31.494	-44.754	1.00	0.00	H
ATOM	771	HB3	ALA	A	50	31.955	-30.058	-43.697	1.00	0.00	H
ATOM	772	N	LYS	A	51	35.543	-32.472	-43.175	1.00	0.00	N
ATOM	773	CA	LYS	A	51	36.100	-33.828	-42.993	1.00	0.00	C
ATOM	774	C	LYS	A	51	35.198	-34.708	-42.127	1.00	0.00	C
ATOM	775	O	LYS	A	51	34.843	-35.806	-42.535	1.00	0.00	O
ATOM	776	CB	LYS	A	51	37.523	-33.785	-42.404	1.00	0.00	C
ATOM	777	CG	LYS	A	51	38.551	-33.093	-43.320	1.00	0.00	C
ATOM	778	CD	LYS	A	51	39.938	-33.764	-43.288	1.00	0.00	C
ATOM	779	CE	LYS	A	51	40.584	-33.827	-41.897	1.00	0.00	C
ATOM	780	NZ	LYS	A	51	41.147	-32.528	-41.462	1.00	0.00	N
ATOM	781	H	LYS	A	51	35.676	-31.791	-42.433	1.00	0.00	H
ATOM	782	HA	LYS	A	51	36.151	-34.327	-43.963	1.00	0.00	H
ATOM	783	HB2	LYS	A	51	37.837	-34.818	-42.235	1.00	0.00	H

ATOM	784	HB3	LYS	A	51	37.507	-33.281	-41.438	1.00	0.00	H
ATOM	785	HG2	LYS	A	51	38.194	-33.133	-44.350	1.00	0.00	H
ATOM	786	HG3	LYS	A	51	38.639	-32.045	-43.031	1.00	0.00	H
ATOM	787	HD2	LYS	A	51	39.821	-34.788	-43.650	1.00	0.00	H
ATOM	788	HD3	LYS	A	51	40.608	-33.255	-43.981	1.00	0.00	H
ATOM	789	HE2	LYS	A	51	39.834	-34.160	-41.172	1.00	0.00	H
ATOM	790	HE3	LYS	A	51	41.379	-34.578	-41.904	1.00	0.00	H
ATOM	791	HZ1	LYS	A	51	42.028	-32.307	-41.901	1.00	0.00	H
ATOM	792	HZ2	LYS	A	51	40.487	-31.776	-41.593	1.00	0.00	H
ATOM	793	HZ3	LYS	A	51	41.281	-32.563	-40.443	1.00	0.00	H
ATOM	794	N	GLN	A	52	34.765	-34.202	-40.970	1.00	0.00	N
ATOM	795	CA	GLN	A	52	33.913	-34.935	-40.026	1.00	0.00	C
ATOM	796	C	GLN	A	52	33.124	-33.981	-39.118	1.00	0.00	C
ATOM	797	O	GLN	A	52	33.687	-33.060	-38.532	1.00	0.00	O
ATOM	798	CB	GLN	A	52	34.737	-35.946	-39.201	1.00	0.00	C
ATOM	799	CG	GLN	A	52	35.890	-35.327	-38.396	1.00	0.00	C
ATOM	800	CD	GLN	A	52	36.834	-36.376	-37.825	1.00	0.00	C
ATOM	801	OE1	GLN	A	52	36.428	-37.393	-37.287	1.00	0.00	O
ATOM	802	NE2	GLN	A	52	38.126	-36.138	-37.865	1.00	0.00	N
ATOM	803	H	GLN	A	52	35.093	-33.285	-40.698	1.00	0.00	H
ATOM	804	HA	GLN	A	52	33.203	-35.526	-40.600	1.00	0.00	H
ATOM	805	HB2	GLN	A	52	35.154	-36.686	-39.886	1.00	0.00	H
ATOM	806	HB3	GLN	A	52	34.071	-36.470	-38.515	1.00	0.00	H
ATOM	807	HG2	GLN	A	52	36.468	-34.685	-39.054	1.00	0.00	H
ATOM	808	HG3	GLN	A	52	35.503	-34.722	-37.577	1.00	0.00	H
ATOM	809	HE21	GLN	A	52	38.475	-35.301	-38.343	1.00	0.00	H
ATOM	810	HE22	GLN	A	52	38.736	-36.845	-37.504	1.00	0.00	H
ATOM	811	N	ARG	A	53	31.837	-34.276	-38.908	1.00	0.00	N
ATOM	812	CA	ARG	A	53	31.103	-33.891	-37.696	1.00	0.00	C
ATOM	813	C	ARG	A	53	31.421	-34.950	-36.645	1.00	0.00	C

ATOM	814	O	ARG A 53	31.179	-36.118	-36.926	1.00	0.00	O
ATOM	815	CB	ARG A 53	29.593	-33.831	-38.012	1.00	0.00	C
ATOM	816	CG	ARG A 53	28.643	-33.751	-36.794	1.00	0.00	C
ATOM	817	CD	ARG A 53	28.634	-32.400	-36.071	1.00	0.00	C
ATOM	818	NE	ARG A 53	28.074	-31.349	-36.937	1.00	0.00	N
ATOM	819	CZ	ARG A 53	27.935	-30.070	-36.651	1.00	0.00	C
ATOM	820	NH1	ARG A 53	27.457	-29.278	-37.555	1.00	0.00	N
ATOM	821	NH2	ARG A 53	28.225	-29.537	-35.500	1.00	0.00	N
ATOM	822	H	ARG A 53	31.490	-35.099	-39.380	1.00	0.00	H
ATOM	823	HA	ARG A 53	31.443	-32.922	-37.336	1.00	0.00	H
ATOM	824	HB2	ARG A 53	29.333	-34.730	-38.567	1.00	0.00	H
ATOM	825	HB3	ARG A 53	29.404	-32.989	-38.678	1.00	0.00	H
ATOM	826	HG2	ARG A 53	27.629	-33.950	-37.139	1.00	0.00	H
ATOM	827	HG3	ARG A 53	28.891	-34.532	-36.077	1.00	0.00	H
ATOM	828	HD2	ARG A 53	29.647	-32.139	-35.769	1.00	0.00	H
ATOM	829	HD3	ARG A 53	28.023	-32.487	-35.170	1.00	0.00	H
ATOM	830	HE	ARG A 53	27.794	-31.610	-37.868	1.00	0.00	H
ATOM	831	HH11	ARG A 53	27.018	-29.651	-38.389	1.00	0.00	H
ATOM	832	HH12	ARG A 53	27.295	-28.313	-37.259	1.00	0.00	H
ATOM	833	HH21	ARG A 53	28.509	-30.102	-34.712	1.00	0.00	H
ATOM	834	HH22	ARG A 53	28.038	-28.542	-35.384	1.00	0.00	H
ATOM	835	N	ILE A 54	31.771	-34.554	-35.426	1.00	0.00	N
ATOM	836	CA	ILE A 54	31.750	-35.456	-34.264	1.00	0.00	C
ATOM	837	C	ILE A 54	30.752	-34.940	-33.232	1.00	0.00	C
ATOM	838	O	ILE A 54	30.565	-33.728	-33.090	1.00	0.00	O
ATOM	839	CB	ILE A 54	33.154	-35.736	-33.671	1.00	0.00	C
ATOM	840	CG1	ILE A 54	33.655	-34.642	-32.699	1.00	0.00	C
ATOM	841	CG2	ILE A 54	34.173	-36.033	-34.788	1.00	0.00	C
ATOM	842	CD1	ILE A 54	34.960	-35.011	-31.982	1.00	0.00	C
ATOM	843	H	ILE A 54	31.884	-33.560	-35.253	1.00	0.00	H

ATOM	844	HA	ILE A 54	31.375	-36.428	-34.589	1.00	0.00	H
ATOM	845	HB	ILE A 54	33.054	-36.652	-33.084	1.00	0.00	H
ATOM	846	HG12	ILE A 54	32.912	-34.477	-31.918	1.00	0.00	H
ATOM	847	HG13	ILE A 54	33.786	-33.706	-33.240	1.00	0.00	H
ATOM	848	HG21	ILE A 54	35.075	-36.482	-34.372	1.00	0.00	H
ATOM	849	HG22	ILE A 54	34.437	-35.118	-35.316	1.00	0.00	H
ATOM	850	HG23	ILE A 54	33.748	-36.747	-35.495	1.00	0.00	H
ATOM	851	HD11	ILE A 54	34.847	-35.971	-31.477	1.00	0.00	H
ATOM	852	HD12	ILE A 54	35.193	-34.251	-31.239	1.00	0.00	H
ATOM	853	HD13	ILE A 54	35.784	-35.068	-32.692	1.00	0.00	H
ATOM	854	N	ILE A 55	30.161	-35.864	-32.481	1.00	0.00	N
ATOM	855	CA	ILE A 55	29.270	-35.602	-31.349	1.00	0.00	C
ATOM	856	C	ILE A 55	29.651	-36.583	-30.237	1.00	0.00	C
ATOM	857	O	ILE A 55	29.774	-37.775	-30.503	1.00	0.00	O
ATOM	858	CB	ILE A 55	27.786	-35.752	-31.762	1.00	0.00	C
ATOM	859	CG1	ILE A 55	27.451	-35.005	-33.078	1.00	0.00	C
ATOM	860	CG2	ILE A 55	26.899	-35.273	-30.600	1.00	0.00	C
ATOM	861	CD1	ILE A 55	25.974	-35.032	-33.482	1.00	0.00	C
ATOM	862	H	ILE A 55	30.328	-36.843	-32.708	1.00	0.00	H
ATOM	863	HA	ILE A 55	29.433	-34.586	-30.993	1.00	0.00	H
ATOM	864	HB	ILE A 55	27.583	-36.813	-31.926	1.00	0.00	H
ATOM	865	HG12	ILE A 55	28.007	-35.468	-33.894	1.00	0.00	H
ATOM	866	HG13	ILE A 55	27.764	-33.965	-33.001	1.00	0.00	H
ATOM	867	HD11	ILE A 55	25.867	-34.639	-34.494	1.00	0.00	H
ATOM	868	HD12	ILE A 55	25.603	-36.054	-33.453	1.00	0.00	H
ATOM	869	HD13	ILE A 55	25.387	-34.411	-32.805	1.00	0.00	H
ATOM	870	HG21	ILE A 55	27.131	-35.822	-29.687	1.00	0.00	H
ATOM	871	HG22	ILE A 55	25.855	-35.461	-30.840	1.00	0.00	H
ATOM	872	HG23	ILE A 55	27.050	-34.208	-30.425	1.00	0.00	H
ATOM	873	N	GLY A 56	29.941	-36.108	-29.029	1.00	0.00	N

ATOM	874	CA	GLY A 56	30.489	-36.947	-27.959	1.00	0.00	C
ATOM	875	C	GLY A 56	30.115	-36.481	-26.558	1.00	0.00	C
ATOM	876	O	GLY A 56	29.592	-35.380	-26.386	1.00	0.00	O
ATOM	877	H	GLY A 56	29.799	-35.120	-28.836	1.00	0.00	H
ATOM	878	HA2	GLY A 56	31.574	-36.976	-28.033	1.00	0.00	H
ATOM	879	HA3	GLY A 56	30.113	-37.963	-28.070	1.00	0.00	H
ATOM	880	N	VAL A 57	30.293	-37.367	-25.581	1.00	0.00	N
ATOM	881	CA	VAL A 57	29.871	-37.190	-24.183	1.00	0.00	C
ATOM	882	C	VAL A 57	30.884	-37.811	-23.218	1.00	0.00	C
ATOM	883	O	VAL A 57	31.718	-38.636	-23.611	1.00	0.00	O
ATOM	884	CB	VAL A 57	28.455	-37.762	-23.925	1.00	0.00	C
ATOM	885	CG1	VAL A 57	27.394	-37.155	-24.847	1.00	0.00	C
ATOM	886	CG2	VAL A 57	28.369	-39.280	-24.089	1.00	0.00	C
ATOM	887	H	VAL A 57	30.743	-38.249	-25.813	1.00	0.00	H
ATOM	888	HA	VAL A 57	29.846	-36.124	-23.967	1.00	0.00	H
ATOM	889	HB	VAL A 57	28.169	-37.529	-22.898	1.00	0.00	H
ATOM	890	HG21	VAL A 57	29.077	-39.771	-23.422	1.00	0.00	H
ATOM	891	HG22	VAL A 57	27.368	-39.625	-23.831	1.00	0.00	H
ATOM	892	HG23	VAL A 57	28.588	-39.545	-25.122	1.00	0.00	H
ATOM	893	HG11	VAL A 57	27.337	-36.083	-24.677	1.00	0.00	H
ATOM	894	HG12	VAL A 57	27.634	-37.345	-25.889	1.00	0.00	H
ATOM	895	HG13	VAL A 57	26.430	-37.606	-24.636	1.00	0.00	H
ATOM	896	N	GLY A 58	30.778	-37.455	-21.939	1.00	0.00	N
ATOM	897	CA	GLY A 58	31.604	-38.039	-20.889	1.00	0.00	C
ATOM	898	C	GLY A 58	31.428	-37.387	-19.522	1.00	0.00	C
ATOM	899	O	GLY A 58	30.374	-36.828	-19.220	1.00	0.00	O
ATOM	900	H	GLY A 58	30.100	-36.746	-21.679	1.00	0.00	H
ATOM	901	HA2	GLY A 58	31.372	-39.098	-20.788	1.00	0.00	H
ATOM	902	HA3	GLY A 58	32.642	-37.944	-21.189	1.00	0.00	H
ATOM	903	N	GLU A 59	32.484	-37.431	-18.709	1.00	0.00	N



ATOM	904	CA	GLU A 59	32.478	-37.059	-17.286	1.00	0.00	C
ATOM	905	C	GLU A 59	33.516	-35.947	-16.996	1.00	0.00	C
ATOM	906	O	GLU A 59	34.571	-35.895	-17.633	1.00	0.00	O
ATOM	907	CB	GLU A 59	32.691	-38.324	-16.420	1.00	0.00	C
ATOM	908	CG	GLU A 59	31.831	-39.527	-16.879	1.00	0.00	C
ATOM	909	CD	GLU A 59	31.691	-40.658	-15.847	1.00	0.00	C
ATOM	910	OE1	GLU A 59	32.668	-40.913	-15.109	1.00	0.00	O
ATOM	911	OE2	GLU A 59	30.652	-41.363	-15.901	1.00	0.00	O
ATOM	912	H	GLU A 59	33.330	-37.866	-19.064	1.00	0.00	H
ATOM	913	HA	GLU A 59	31.497	-36.661	-17.025	1.00	0.00	H
ATOM	914	HB2	GLU A 59	33.742	-38.614	-16.457	1.00	0.00	H
ATOM	915	HB3	GLU A 59	32.436	-38.072	-15.390	1.00	0.00	H
ATOM	916	HG2	GLU A 59	30.836	-39.163	-17.128	1.00	0.00	H
ATOM	917	HG3	GLU A 59	32.264	-39.943	-17.792	1.00	0.00	H
ATOM	918	N	VAL A 60	33.189	-34.980	-16.124	1.00	0.00	N
ATOM	919	CA	VAL A 60	33.978	-33.742	-15.898	1.00	0.00	C
ATOM	920	C	VAL A 60	34.874	-33.844	-14.647	1.00	0.00	C
ATOM	921	O	VAL A 60	34.716	-33.103	-13.677	1.00	0.00	O
ATOM	922	CB	VAL A 60	33.088	-32.474	-15.905	1.00	0.00	C
ATOM	923	CG1	VAL A 60	33.923	-31.183	-15.995	1.00	0.00	C
ATOM	924	CG2	VAL A 60	32.144	-32.432	-17.114	1.00	0.00	C
ATOM	925	H	VAL A 60	32.287	-35.044	-15.658	1.00	0.00	H
ATOM	926	HA	VAL A 60	34.658	-33.630	-16.740	1.00	0.00	H
ATOM	927	HB	VAL A 60	32.481	-32.447	-14.999	1.00	0.00	H
ATOM	928	HG11	VAL A 60	33.262	-30.317	-16.001	1.00	0.00	H
ATOM	929	HG12	VAL A 60	34.526	-31.188	-16.903	1.00	0.00	H
ATOM	930	HG13	VAL A 60	34.583	-31.098	-15.135	1.00	0.00	H
ATOM	931	HG21	VAL A 60	31.554	-31.515	-17.093	1.00	0.00	H
ATOM	932	HG22	VAL A 60	32.724	-32.465	-18.036	1.00	0.00	H
ATOM	933	HG23	VAL A 60	31.452	-33.273	-17.087	1.00	0.00	H

ATOM	934	N	LEU	A	61	35.668	-34.914	-14.577	1.00	0.00	N
ATOM	935	CA	LEU	A	61	36.376	-35.344	-13.362	1.00	0.00	C
ATOM	936	C	LEU	A	61	37.560	-34.429	-12.982	1.00	0.00	C
ATOM	937	O	LEU	A	61	38.222	-33.833	-13.839	1.00	0.00	O
ATOM	938	CB	LEU	A	61	36.828	-36.815	-13.502	1.00	0.00	C
ATOM	939	CG	LEU	A	61	35.766	-37.806	-14.024	1.00	0.00	C
ATOM	940	CD1	LEU	A	61	36.388	-39.192	-14.190	1.00	0.00	C
ATOM	941	CD2	LEU	A	61	34.568	-37.915	-13.081	1.00	0.00	C
ATOM	942	H	LEU	A	61	35.735	-35.486	-15.405	1.00	0.00	H
ATOM	943	HA	LEU	A	61	35.664	-35.294	-12.536	1.00	0.00	H
ATOM	944	HB2	LEU	A	61	37.679	-36.846	-14.176	1.00	0.00	H
ATOM	945	HB3	LEU	A	61	37.179	-37.160	-12.528	1.00	0.00	H
ATOM	946	HG	LEU	A	61	35.416	-37.483	-15.004	1.00	0.00	H
ATOM	947	HD11	LEU	A	61	35.634	-39.879	-14.583	1.00	0.00	H
ATOM	948	HD12	LEU	A	61	36.743	-39.563	-13.230	1.00	0.00	H
ATOM	949	HD13	LEU	A	61	37.217	-39.142	-14.896	1.00	0.00	H
ATOM	950	HD21	LEU	A	61	34.899	-38.199	-12.083	1.00	0.00	H
ATOM	951	HD22	LEU	A	61	34.039	-36.964	-13.037	1.00	0.00	H
ATOM	952	HD23	LEU	A	61	33.879	-38.676	-13.455	1.00	0.00	H
ATOM	953	N	ASP	A	62	37.947	-34.452	-11.706	1.00	0.00	N
ATOM	954	CA	ASP	A	62	39.197	-33.879	-11.194	1.00	0.00	C
ATOM	955	C	ASP	A	62	40.246	-34.977	-10.893	1.00	0.00	C
ATOM	956	O	ASP	A	62	40.281	-36.019	-11.554	1.00	0.00	O
ATOM	957	CB	ASP	A	62	38.898	-32.980	-9.981	1.00	0.00	C
ATOM	958	CG	ASP	A	62	38.368	-33.705	-8.737	1.00	0.00	C
ATOM	959	OD1	ASP	A	62	38.344	-33.038	-7.682	1.00	0.00	O
ATOM	960	OD2	ASP	A	62	38.142	-34.932	-8.817	1.00	0.00	O
ATOM	961	H	ASP	A	62	37.426	-35.013	-11.041	1.00	0.00	H
ATOM	962	HA	ASP	A	62	39.624	-33.219	-11.941	1.00	0.00	H
ATOM	963	HB2	ASP	A	62	39.807	-32.441	-9.713	1.00	0.00	H

ATOM	964	HB3	ASP	A	62	38.176	-32.227	-10.297	1.00	0.00	H
ATOM	965	N	ARG	A	63	41.282	-34.592	-10.139	1.00	0.00	N
ATOM	966	CA	ARG	A	63	42.199	-35.449	-9.365	1.00	0.00	C
ATOM	967	C	ARG	A	63	42.535	-34.676	-8.076	1.00	0.00	C
ATOM	968	O	ARG	A	63	42.035	-33.574	-7.877	1.00	0.00	O
ATOM	969	CB	ARG	A	63	43.478	-35.822	-10.155	1.00	0.00	C
ATOM	970	CG	ARG	A	63	43.325	-36.720	-11.398	1.00	0.00	C
ATOM	971	CD	ARG	A	63	43.109	-36.074	-12.781	1.00	0.00	C
ATOM	972	NE	ARG	A	63	43.115	-34.596	-12.795	1.00	0.00	N
ATOM	973	CZ	ARG	A	63	42.185	-33.804	-13.287	1.00	0.00	C
ATOM	974	NH1	ARG	A	63	41.069	-34.260	-13.779	1.00	0.00	N
ATOM	975	NH2	ARG	A	63	42.342	-32.523	-13.233	1.00	0.00	N
ATOM	976	H	ARG	A	63	41.182	-33.660	-9.752	1.00	0.00	H
ATOM	977	HA	ARG	A	63	41.664	-36.357	-9.078	1.00	0.00	H
ATOM	978	HB2	ARG	A	63	44.113	-36.398	-9.481	1.00	0.00	H
ATOM	979	HB3	ARG	A	63	44.040	-34.925	-10.398	1.00	0.00	H
ATOM	980	HG2	ARG	A	63	44.245	-37.302	-11.479	1.00	0.00	H
ATOM	981	HG3	ARG	A	63	42.528	-37.440	-11.216	1.00	0.00	H
ATOM	982	HD2	ARG	A	63	42.175	-36.461	-13.186	1.00	0.00	H
ATOM	983	HD3	ARG	A	63	43.903	-36.420	-13.445	1.00	0.00	H
ATOM	984	HE	ARG	A	63	43.900	-34.109	-12.353	1.00	0.00	H
ATOM	985	HH11	ARG	A	63	40.810	-35.185	-13.468	1.00	0.00	H
ATOM	986	HH12	ARG	A	63	40.301	-33.623	-13.952	1.00	0.00	H
ATOM	987	HH21	ARG	A	63	43.032	-32.184	-12.557	1.00	0.00	H
ATOM	988	HH22	ARG	A	63	41.523	-31.932	-13.333	1.00	0.00	H
ATOM	989	N	GLY	A	64	43.596	-35.063	-7.362	1.00	0.00	N
ATOM	990	CA	GLY	A	64	44.177	-34.264	-6.269	1.00	0.00	C
ATOM	991	C	GLY	A	64	44.691	-32.858	-6.646	1.00	0.00	C
ATOM	992	O	GLY	A	64	44.932	-32.060	-5.744	1.00	0.00	O
ATOM	993	H	GLY	A	64	44.027	-35.941	-7.599	1.00	0.00	H

ATOM	994	HA2	GLY	A	64	43.419	-34.136	-5.494	1.00	0.00	H
ATOM	995	HA3	GLY	A	64	45.013	-34.813	-5.838	1.00	0.00	H
ATOM	996	N	ASP	A	65	44.792	-32.517	-7.939	1.00	0.00	N
ATOM	997	CA	ASP	A	65	45.024	-31.142	-8.429	1.00	0.00	C
ATOM	998	C	ASP	A	65	43.776	-30.227	-8.348	1.00	0.00	C
ATOM	999	O	ASP	A	65	43.903	-28.999	-8.368	1.00	0.00	O
ATOM	1000	CB	ASP	A	65	45.556	-31.212	-9.873	1.00	0.00	C
ATOM	1001	CG	ASP	A	65	44.576	-31.843	-10.870	1.00	0.00	C
ATOM	1002	OD1	ASP	A	65	44.908	-32.874	-11.493	1.00	0.00	O
ATOM	1003	OD2	ASP	A	65	43.435	-31.355	-11.002	1.00	0.00	O
ATOM	1004	H	ASP	A	65	44.545	-33.209	-8.628	1.00	0.00	H
ATOM	1005	HA	ASP	A	65	45.793	-30.680	-7.810	1.00	0.00	H
ATOM	1006	HB2	ASP	A	65	45.792	-30.201	-10.209	1.00	0.00	H
ATOM	1007	HB3	ASP	A	65	46.486	-31.785	-9.872	1.00	0.00	H
ATOM	1008	N	LYS	A	66	42.592	-30.831	-8.185	1.00	0.00	N
ATOM	1009	CA	LYS	A	66	41.267	-30.221	-7.978	1.00	0.00	C
ATOM	1010	C	LYS	A	66	40.803	-29.293	-9.107	1.00	0.00	C
ATOM	1011	O	LYS	A	66	40.002	-28.384	-8.881	1.00	0.00	O
ATOM	1012	CB	LYS	A	66	41.139	-29.639	-6.559	1.00	0.00	C
ATOM	1013	CG	LYS	A	66	41.758	-30.592	-5.520	1.00	0.00	C
ATOM	1014	CD	LYS	A	66	41.206	-30.392	-4.115	1.00	0.00	C
ATOM	1015	CE	LYS	A	66	41.977	-31.308	-3.158	1.00	0.00	C
ATOM	1016	NZ	LYS	A	66	41.169	-31.616	-1.960	1.00	0.00	N
ATOM	1017	H	LYS	A	66	42.608	-31.843	-8.160	1.00	0.00	H
ATOM	1018	HA	LYS	A	66	40.554	-31.049	-8.011	1.00	0.00	H
ATOM	1019	HB2	LYS	A	66	41.645	-28.672	-6.506	1.00	0.00	H
ATOM	1020	HB3	LYS	A	66	40.081	-29.492	-6.341	1.00	0.00	H
ATOM	1021	HG2	LYS	A	66	42.837	-30.439	-5.503	1.00	0.00	H
ATOM	1022	HG3	LYS	A	66	41.551	-31.625	-5.808	1.00	0.00	H
ATOM	1023	HD2	LYS	A	66	41.310	-29.351	-3.806	1.00	0.00	H

ATOM	1024	HD3	LYS	A	66	40.148	-30.660	-4.137	1.00	0.00	H
ATOM	1025	HE2	LYS	A	66	42.910	-30.813	-2.883	1.00	0.00	H
ATOM	1026	HE3	LYS	A	66	42.221	-32.236	-3.679	1.00	0.00	H
ATOM	1027	HZ1	LYS	A	66	41.682	-31.991	-1.183	1.00	0.00	H
ATOM	1028	HZ2	LYS	A	66	40.404	-32.260	-2.193	1.00	0.00	H
ATOM	1029	HZ3	LYS	A	66	40.584	-30.823	-1.686	1.00	0.00	H
ATOM	1030	N	VAL	A	67	41.310	-29.508	-10.324	1.00	0.00	N
ATOM	1031	CA	VAL	A	67	40.852	-28.860	-11.563	1.00	0.00	C
ATOM	1032	C	VAL	A	67	39.850	-29.779	-12.285	1.00	0.00	C
ATOM	1033	O	VAL	A	67	40.228	-30.898	-12.642	1.00	0.00	O
ATOM	1034	CB	VAL	A	67	42.044	-28.531	-12.488	1.00	0.00	C
ATOM	1035	CG1	VAL	A	67	41.593	-27.774	-13.744	1.00	0.00	C
ATOM	1036	CG2	VAL	A	67	43.100	-27.665	-11.783	1.00	0.00	C
ATOM	1037	H	VAL	A	67	42.002	-30.252	-10.416	1.00	0.00	H
ATOM	1038	HA	VAL	A	67	40.371	-27.920	-11.307	1.00	0.00	H
ATOM	1039	HB	VAL	A	67	42.526	-29.456	-12.803	1.00	0.00	H
ATOM	1040	HG11	VAL	A	67	42.458	-27.519	-14.357	1.00	0.00	H
ATOM	1041	HG12	VAL	A	67	41.057	-26.866	-13.470	1.00	0.00	H
ATOM	1042	HG13	VAL	A	67	40.941	-28.408	-14.345	1.00	0.00	H
ATOM	1043	HG21	VAL	A	67	43.904	-27.427	-12.479	1.00	0.00	H
ATOM	1044	HG22	VAL	A	67	42.645	-26.752	-11.404	1.00	0.00	H
ATOM	1045	HG23	VAL	A	67	43.532	-28.223	-10.949	1.00	0.00	H
ATOM	1046	N	PRO	A	68	38.633	-29.325	-12.636	1.00	0.00	N
ATOM	1047	CA	PRO	A	68	37.737	-30.098	-13.493	1.00	0.00	C
ATOM	1048	C	PRO	A	68	38.318	-30.227	-14.910	1.00	0.00	C
ATOM	1049	O	PRO	A	68	38.679	-29.220	-15.524	1.00	0.00	O
ATOM	1050	CB	PRO	A	68	36.395	-29.355	-13.495	1.00	0.00	C
ATOM	1051	CG	PRO	A	68	36.513	-28.293	-12.401	1.00	0.00	C
ATOM	1052	CD	PRO	A	68	38.013	-28.077	-12.239	1.00	0.00	C
ATOM	1053	HA	PRO	A	68	37.596	-31.090	-13.062	1.00	0.00	H

ATOM	1054	HB2 PRO A	68	36.233	-28.867	-14.455	1.00	0.00	H
ATOM	1055	HB3 PRO A	68	35.575	-30.041	-13.282	1.00	0.00	H
ATOM	1056	HG2 PRO A	68	36.099	-28.678	-11.470	1.00	0.00	H
ATOM	1057	HG3 PRO A	68	36.007	-27.370	-12.685	1.00	0.00	H
ATOM	1058	HD2 PRO A	68	38.237	-27.834	-11.201	1.00	0.00	H
ATOM	1059	HD3 PRO A	68	38.350	-27.280	-12.904	1.00	0.00	H
ATOM	1060	N SER A	69	38.291	-31.436	-15.468	1.00	0.00	N
ATOM	1061	CA SER A	69	38.810	-31.764	-16.805	1.00	0.00	C
ATOM	1062	C SER A	69	37.825	-32.657	-17.558	1.00	0.00	C
ATOM	1063	O SER A	69	37.126	-33.456	-16.944	1.00	0.00	O
ATOM	1064	CB SER A	69	40.164	-32.477	-16.705	1.00	0.00	C
ATOM	1065	OG SER A	69	41.124	-31.676	-16.042	1.00	0.00	O
ATOM	1066	H SER A	69	37.953	-32.215	-14.909	1.00	0.00	H
ATOM	1067	HA SER A	69	38.953	-30.846	-17.375	1.00	0.00	H
ATOM	1068	HB2 SER A	69	40.033	-33.410	-16.159	1.00	0.00	H
ATOM	1069	HB3 SER A	69	40.525	-32.711	-17.708	1.00	0.00	H
ATOM	1070	HG SER A	69	41.895	-32.215	-15.835	1.00	0.00	H
ATOM	1071	N MET A	70	37.794	-32.584	-18.893	1.00	0.00	N
ATOM	1072	CA MET A	70	36.953	-33.487	-19.689	1.00	0.00	C
ATOM	1073	C MET A	70	37.548	-34.907	-19.730	1.00	0.00	C
ATOM	1074	O MET A	70	38.711	-35.080	-20.102	1.00	0.00	O
ATOM	1075	CB MET A	70	36.684	-32.908	-21.096	1.00	0.00	C
ATOM	1076	CG MET A	70	37.801	-33.133	-22.127	1.00	0.00	C
ATOM	1077	SD MET A	70	37.475	-32.468	-23.780	1.00	0.00	S
ATOM	1078	CE MET A	70	38.727	-33.401	-24.703	1.00	0.00	C
ATOM	1079	H MET A	70	38.431	-31.965	-19.371	1.00	0.00	H
ATOM	1080	HA MET A	70	35.984	-33.556	-19.189	1.00	0.00	H
ATOM	1081	HB2 MET A	70	35.782	-33.380	-21.485	1.00	0.00	H
ATOM	1082	HB3 MET A	70	36.486	-31.840	-21.012	1.00	0.00	H
ATOM	1083	HG2 MET A	70	37.941	-34.206	-22.247	1.00	0.00	H

ATOM	1084	HG3 MET A 70	38.733	-32.706	-21.750	1.00	0.00	H
ATOM	1085	HE1 MET A 70	38.688	-33.121	-25.755	1.00	0.00	H
ATOM	1086	HE2 MET A 70	38.528	-34.469	-24.609	1.00	0.00	H
ATOM	1087	HE3 MET A 70	39.718	-33.184	-24.303	1.00	0.00	H
ATOM	1088	N PHE A 71	36.694	-35.919	-19.593	1.00	0.00	N
ATOM	1089	CA PHE A 71	36.996	-37.318	-19.900	1.00	0.00	C
ATOM	1090	C PHE A 71	35.923	-37.860	-20.845	1.00	0.00	C
ATOM	1091	O PHE A 71	34.844	-38.256	-20.410	1.00	0.00	O
ATOM	1092	CB PHE A 71	37.115	-38.135	-18.601	1.00	0.00	C
ATOM	1093	CG PHE A 71	38.319	-37.751	-17.761	1.00	0.00	C
ATOM	1094	CD1 PHE A 71	39.526	-38.465	-17.878	1.00	0.00	C
ATOM	1095	CD2 PHE A 71	38.246	-36.649	-16.892	1.00	0.00	C
ATOM	1096	CE1 PHE A 71	40.654	-38.077	-17.131	1.00	0.00	C
ATOM	1097	CE2 PHE A 71	39.374	-36.256	-16.155	1.00	0.00	C
ATOM	1098	CZ PHE A 71	40.578	-36.968	-16.270	1.00	0.00	C
ATOM	1099	H PHE A 71	35.799	-35.736	-19.144	1.00	0.00	H
ATOM	1100	HA PHE A 71	37.956	-37.389	-20.412	1.00	0.00	H
ATOM	1101	HB2 PHE A 71	37.194	-39.193	-18.858	1.00	0.00	H
ATOM	1102	HB3 PHE A 71	36.209	-38.014	-18.006	1.00	0.00	H
ATOM	1103	HD1 PHE A 71	39.590	-39.311	-18.546	1.00	0.00	H
ATOM	1104	HD2 PHE A 71	37.322	-36.093	-16.800	1.00	0.00	H
ATOM	1105	HE1 PHE A 71	41.578	-38.629	-17.223	1.00	0.00	H
ATOM	1106	HE2 PHE A 71	39.297	-35.410	-15.492	1.00	0.00	H
ATOM	1107	HZ PHE A 71	41.444	-36.666	-15.698	1.00	0.00	H
ATOM	1108	N MET A 72	36.182	-37.772	-22.156	1.00	0.00	N
ATOM	1109	CA MET A 72	35.320	-38.366	-23.189	1.00	0.00	C
ATOM	1110	C MET A 72	35.211	-39.877	-22.971	1.00	0.00	C
ATOM	1111	O MET A 72	36.225	-40.572	-22.988	1.00	0.00	O
ATOM	1112	CB MET A 72	35.903	-38.118	-24.591	1.00	0.00	C
ATOM	1113	CG MET A 72	35.610	-36.727	-25.155	1.00	0.00	C

ATOM	1114	SD	MET A 72	33.900	-36.526	-25.726	1.00	0.00	S
ATOM	1115	CE	MET A 72	34.105	-35.118	-26.845	1.00	0.00	C
ATOM	1116	H	MET A 72	37.090	-37.441	-22.432	1.00	0.00	H
ATOM	1117	HA	MET A 72	34.319	-37.937	-23.128	1.00	0.00	H
ATOM	1118	HB2	MET A 72	35.486	-38.850	-25.286	1.00	0.00	H
ATOM	1119	HB3	MET A 72	36.983	-38.271	-24.559	1.00	0.00	H
ATOM	1120	HG2	MET A 72	35.848	-35.962	-24.415	1.00	0.00	H
ATOM	1121	HG3	MET A 72	36.267	-36.581	-26.012	1.00	0.00	H
ATOM	1122	HE1	MET A 72	33.158	-34.925	-27.345	1.00	0.00	H
ATOM	1123	HE2	MET A 72	34.410	-34.236	-26.281	1.00	0.00	H
ATOM	1124	HE3	MET A 72	34.861	-35.352	-27.596	1.00	0.00	H
ATOM	1125	N	THR A 73	33.985	-40.388	-22.892	1.00	0.00	N
ATOM	1126	CA	THR A 73	33.703	-41.828	-22.770	1.00	0.00	C
ATOM	1127	C	THR A 73	33.118	-42.423	-24.053	1.00	0.00	C
ATOM	1128	O	THR A 73	33.195	-43.634	-24.259	1.00	0.00	O
ATOM	1129	CB	THR A 73	32.724	-42.089	-21.619	1.00	0.00	C
ATOM	1130	OG1	THR A 73	31.494	-41.478	-21.922	1.00	0.00	O
ATOM	1131	CG2	THR A 73	33.207	-41.549	-20.275	1.00	0.00	C
ATOM	1132	H	THR A 73	33.187	-39.756	-22.898	1.00	0.00	H
ATOM	1133	HA	THR A 73	34.624	-42.369	-22.551	1.00	0.00	H
ATOM	1134	HB	THR A 73	32.587	-43.168	-21.532	1.00	0.00	H
ATOM	1135	HG1	THR A 73	30.965	-41.424	-21.101	1.00	0.00	H
ATOM	1136	HG21	THR A 73	34.183	-41.972	-20.046	1.00	0.00	H
ATOM	1137	HG22	THR A 73	32.517	-41.855	-19.491	1.00	0.00	H
ATOM	1138	HG23	THR A 73	33.283	-40.460	-20.285	1.00	0.00	H
ATOM	1139	N	ASN A 74	32.483	-41.597	-24.893	1.00	0.00	N
ATOM	1140	CA	ASN A 74	31.578	-42.048	-25.945	1.00	0.00	C
ATOM	1141	C	ASN A 74	31.463	-40.993	-27.060	1.00	0.00	C
ATOM	1142	O	ASN A 74	31.212	-39.822	-26.778	1.00	0.00	O
ATOM	1143	CB	ASN A 74	30.227	-42.298	-25.260	1.00	0.00	C



ATOM	1144	CG	ASN	A	74	29.172	-42.951	-26.120	1.00	0.00	C
ATOM	1145	OD1	ASN	A	74	29.389	-43.366	-27.247	1.00	0.00	O
ATOM	1146	ND2	ASN	A	74	28.011	-43.150	-25.556	1.00	0.00	N
ATOM	1147	H	ASN	A	74	32.390	-40.631	-24.598	1.00	0.00	H
ATOM	1148	HA	ASN	A	74	31.949	-42.983	-26.369	1.00	0.00	H
ATOM	1149	HB2	ASN	A	74	30.367	-42.925	-24.384	1.00	0.00	H
ATOM	1150	HB3	ASN	A	74	29.841	-41.352	-24.901	1.00	0.00	H
ATOM	1151	HD21	ASN	A	74	27.888	-42.863	-24.588	1.00	0.00	H
ATOM	1152	HD22	ASN	A	74	27.297	-43.655	-26.062	1.00	0.00	H
ATOM	1153	N	VAL	A	75	31.651	-41.390	-28.325	1.00	0.00	N
ATOM	1154	CA	VAL	A	75	31.692	-40.484	-29.489	1.00	0.00	C
ATOM	1155	C	VAL	A	75	31.021	-41.130	-30.705	1.00	0.00	C
ATOM	1156	O	VAL	A	75	31.187	-42.324	-30.954	1.00	0.00	O
ATOM	1157	CB	VAL	A	75	33.138	-40.041	-29.824	1.00	0.00	C
ATOM	1158	CG1	VAL	A	75	33.187	-39.020	-30.972	1.00	0.00	C
ATOM	1159	CG2	VAL	A	75	33.861	-39.399	-28.628	1.00	0.00	C
ATOM	1160	H	VAL	A	75	31.775	-42.376	-28.507	1.00	0.00	H
ATOM	1161	HA	VAL	A	75	31.122	-39.589	-29.247	1.00	0.00	H
ATOM	1162	HB	VAL	A	75	33.709	-40.920	-30.126	1.00	0.00	H
ATOM	1163	HG11	VAL	A	75	34.213	-38.694	-31.137	1.00	0.00	H
ATOM	1164	HG12	VAL	A	75	32.835	-39.471	-31.899	1.00	0.00	H
ATOM	1165	HG13	VAL	A	75	32.569	-38.154	-30.731	1.00	0.00	H
ATOM	1166	HG21	VAL	A	75	34.853	-39.060	-28.926	1.00	0.00	H
ATOM	1167	HG22	VAL	A	75	33.289	-38.551	-28.251	1.00	0.00	H
ATOM	1168	HG23	VAL	A	75	33.989	-40.127	-27.828	1.00	0.00	H
ATOM	1169	N	TRP	A	76	30.305	-40.329	-31.493	1.00	0.00	N
ATOM	1170	CA	TRP	A	76	29.620	-40.710	-32.727	1.00	0.00	C
ATOM	1171	C	TRP	A	76	29.911	-39.713	-33.860	1.00	0.00	C
ATOM	1172	O	TRP	A	76	30.058	-38.510	-33.629	1.00	0.00	O
ATOM	1173	CB	TRP	A	76	28.120	-40.845	-32.440	1.00	0.00	C

ATOM	1174	CG	TRP	A	76	27.261	-41.178	-33.622	1.00	0.00	C
ATOM	1175	CD1	TRP	A	76	27.079	-42.417	-34.126	1.00	0.00	C
ATOM	1176	CD2	TRP	A	76	26.498	-40.280	-34.488	1.00	0.00	C
ATOM	1177	NE1	TRP	A	76	26.255	-42.355	-35.232	1.00	0.00	N
ATOM	1178	CE2	TRP	A	76	25.853	-41.063	-35.492	1.00	0.00	C
ATOM	1179	CE3	TRP	A	76	26.269	-38.888	-34.515	1.00	0.00	C
ATOM	1180	CZ2	TRP	A	76	25.015	-40.499	-36.466	1.00	0.00	C
ATOM	1181	CZ3	TRP	A	76	25.418	-38.312	-35.478	1.00	0.00	C
ATOM	1182	CH2	TRP	A	76	24.795	-39.112	-36.454	1.00	0.00	C
ATOM	1183	H	TRP	A	76	30.218	-39.356	-31.219	1.00	0.00	H
ATOM	1184	HA	TRP	A	76	29.987	-41.684	-33.050	1.00	0.00	H
ATOM	1185	HB2	TRP	A	76	27.979	-41.617	-31.683	1.00	0.00	H
ATOM	1186	HB3	TRP	A	76	27.763	-39.905	-32.017	1.00	0.00	H
ATOM	1187	HD1	TRP	A	76	27.517	-43.322	-33.716	1.00	0.00	H
ATOM	1188	HE3	TRP	A	76	26.745	-38.267	-33.771	1.00	0.00	H
ATOM	1189	HZ2	TRP	A	76	24.538	-41.127	-37.203	1.00	0.00	H
ATOM	1190	HZ3	TRP	A	76	25.234	-37.247	-35.465	1.00	0.00	H
ATOM	1191	HH2	TRP	A	76	24.147	-38.660	-37.192	1.00	0.00	H
ATOM	1192	HE1	TRP	A	76	26.002	-43.167	-35.775	1.00	0.00	H
ATOM	1193	N	THR	A	77	29.888	-40.215	-35.096	1.00	0.00	N
ATOM	1194	CA	THR	A	77	30.163	-39.469	-36.333	1.00	0.00	C
ATOM	1195	C	THR	A	77	29.091	-39.823	-37.373	1.00	0.00	C
ATOM	1196	O	THR	A	77	28.882	-41.013	-37.620	1.00	0.00	O
ATOM	1197	CB	THR	A	77	31.572	-39.809	-36.853	1.00	0.00	C
ATOM	1198	OG1	THR	A	77	32.533	-39.288	-35.964	1.00	0.00	O
ATOM	1199	CG2	THR	A	77	31.900	-39.246	-38.236	1.00	0.00	C
ATOM	1200	H	THR	A	77	29.656	-41.191	-35.202	1.00	0.00	H
ATOM	1201	HA	THR	A	77	30.150	-38.404	-36.123	1.00	0.00	H
ATOM	1202	HB	THR	A	77	31.685	-40.894	-36.892	1.00	0.00	H
ATOM	1203	HG1	THR	A	77	33.399	-39.394	-36.366	1.00	0.00	H

ATOM	1204	HG21	THR	A	77	32.943	-39.449	-38.479	1.00	0.00	H
ATOM	1205	HG22	THR	A	77	31.275	-39.723	-38.991	1.00	0.00	H
ATOM	1206	HG23	THR	A	77	31.731	-38.172	-38.257	1.00	0.00	H
ATOM	1207	N	PRO	A	78	28.410	-38.850	-38.013	1.00	0.00	N
ATOM	1208	CA	PRO	A	78	27.413	-39.143	-39.041	1.00	0.00	C
ATOM	1209	C	PRO	A	78	28.034	-39.780	-40.298	1.00	0.00	C
ATOM	1210	O	PRO	A	78	29.108	-39.345	-40.715	1.00	0.00	O
ATOM	1211	CB	PRO	A	78	26.752	-37.807	-39.395	1.00	0.00	C
ATOM	1212	CG	PRO	A	78	27.151	-36.851	-38.277	1.00	0.00	C
ATOM	1213	CD	PRO	A	78	28.472	-37.420	-37.769	1.00	0.00	C
ATOM	1214	HA	PRO	A	78	26.674	-39.813	-38.604	1.00	0.00	H
ATOM	1215	HB2	PRO	A	78	25.669	-37.904	-39.471	1.00	0.00	H
ATOM	1216	HB3	PRO	A	78	27.160	-37.431	-40.330	1.00	0.00	H
ATOM	1217	HG2	PRO	A	78	27.265	-35.834	-38.650	1.00	0.00	H
ATOM	1218	HG3	PRO	A	78	26.407	-36.877	-37.485	1.00	0.00	H
ATOM	1219	HD2	PRO	A	78	28.585	-37.186	-36.710	1.00	0.00	H
ATOM	1220	HD3	PRO	A	78	29.297	-37.007	-38.348	1.00	0.00	H
ATOM	1221	N	PRO	A	79	27.249	-40.545	-41.085	1.00	0.00	N
ATOM	1222	CA	PRO	A	79	27.665	-41.049	-42.401	1.00	0.00	C
ATOM	1223	C	PRO	A	79	27.792	-39.964	-43.491	1.00	0.00	C
ATOM	1224	O	PRO	A	79	28.243	-40.258	-44.595	1.00	0.00	O
ATOM	1225	CB	PRO	A	79	26.621	-42.110	-42.768	1.00	0.00	C
ATOM	1226	CG	PRO	A	79	25.361	-41.621	-42.057	1.00	0.00	C
ATOM	1227	CD	PRO	A	79	25.912	-41.025	-40.763	1.00	0.00	C
ATOM	1228	HA	PRO	A	79	28.640	-41.531	-42.310	1.00	0.00	H
ATOM	1229	HB2	PRO	A	79	26.923	-43.072	-42.351	1.00	0.00	H
ATOM	1230	HB3	PRO	A	79	26.472	-42.197	-43.845	1.00	0.00	H
ATOM	1231	HG2	PRO	A	79	24.884	-40.839	-42.649	1.00	0.00	H
ATOM	1232	HG3	PRO	A	79	24.663	-42.437	-41.861	1.00	0.00	H
ATOM	1233	HD2	PRO	A	79	25.984	-41.802	-39.999	1.00	0.00	H

ATOM	1234	HD3 PRO A 79	25.264	-40.218	-40.419	1.00	0.00	H
ATOM	1235	N ASN A 80	27.436	-38.707	-43.199	1.00	0.00	N
ATOM	1236	CA ASN A 80	27.847	-37.546	-43.987	1.00	0.00	C
ATOM	1237	C ASN A 80	28.017	-36.308	-43.075	1.00	0.00	C
ATOM	1238	O ASN A 80	27.078	-35.952	-42.360	1.00	0.00	O
ATOM	1239	CB ASN A 80	26.834	-37.295	-45.115	1.00	0.00	C
ATOM	1240	CG ASN A 80	27.359	-36.266	-46.097	1.00	0.00	C
ATOM	1241	OD1 ASN A 80	27.651	-35.133	-45.750	1.00	0.00	O
ATOM	1242	ND2 ASN A 80	27.756	-36.689	-47.273	1.00	0.00	N
ATOM	1243	H ASN A 80	27.096	-38.523	-42.269	1.00	0.00	H
ATOM	1244	HA ASN A 80	28.803	-37.788	-44.451	1.00	0.00	H
ATOM	1245	HB2 ASN A 80	26.638	-38.228	-45.643	1.00	0.00	H
ATOM	1246	HB3 ASN A 80	25.893	-36.935	-44.700	1.00	0.00	H
ATOM	1247	HD21 ASN A 80	27.652	-37.655	-47.524	1.00	0.00	H
ATOM	1248	HD22 ASN A 80	28.212	-36.014	-47.861	1.00	0.00	H
ATOM	1249	N PRO A 81	29.185	-35.636	-43.073	1.00	0.00	N
ATOM	1250	CA PRO A 81	29.442	-34.505	-42.182	1.00	0.00	C
ATOM	1251	C PRO A 81	28.842	-33.176	-42.669	1.00	0.00	C
ATOM	1252	O PRO A 81	28.701	-32.248	-41.878	1.00	0.00	O
ATOM	1253	CB PRO A 81	30.966	-34.435	-42.125	1.00	0.00	C
ATOM	1254	CG PRO A 81	31.396	-34.856	-43.528	1.00	0.00	C
ATOM	1255	CD PRO A 81	30.382	-35.955	-43.846	1.00	0.00	C
ATOM	1256	HA PRO A 81	29.050	-34.711	-41.185	1.00	0.00	H
ATOM	1257	HB2 PRO A 81	31.305	-35.187	-41.416	1.00	0.00	H
ATOM	1258	HB3 PRO A 81	31.335	-33.447	-41.851	1.00	0.00	H
ATOM	1259	HG2 PRO A 81	31.279	-34.026	-44.224	1.00	0.00	H
ATOM	1260	HG3 PRO A 81	32.418	-35.233	-43.547	1.00	0.00	H
ATOM	1261	HD2 PRO A 81	30.777	-36.920	-43.522	1.00	0.00	H
ATOM	1262	HD3 PRO A 81	30.174	-35.972	-44.917	1.00	0.00	H
ATOM	1263	N SER A 82	28.540	-33.051	-43.965	1.00	0.00	N

ATOM	1264	CA	SER A 82	28.065	-31.816	-44.599	1.00	0.00	C
ATOM	1265	C	SER A 82	26.572	-31.547	-44.395	1.00	0.00	C
ATOM	1266	O	SER A 82	26.124	-30.445	-44.696	1.00	0.00	O
ATOM	1267	CB	SER A 82	28.344	-31.869	-46.106	1.00	0.00	C
ATOM	1268	OG	SER A 82	29.722	-32.086	-46.353	1.00	0.00	O
ATOM	1269	H	SER A 82	28.644	-33.861	-44.569	1.00	0.00	H
ATOM	1270	HA	SER A 82	28.606	-30.970	-44.175	1.00	0.00	H
ATOM	1271	HB2	SER A 82	28.038	-30.929	-46.568	1.00	0.00	H
ATOM	1272	HB3	SER A 82	27.768	-32.679	-46.554	1.00	0.00	H
ATOM	1273	HG	SER A 82	30.202	-31.285	-46.139	1.00	0.00	H
ATOM	1274	N	THR A 83	25.807	-32.544	-43.940	1.00	0.00	N
ATOM	1275	CA	THR A 83	24.331	-32.536	-43.904	1.00	0.00	C
ATOM	1276	C	THR A 83	23.748	-32.495	-42.483	1.00	0.00	C
ATOM	1277	O	THR A 83	22.591	-32.871	-42.299	1.00	0.00	O
ATOM	1278	CB	THR A 83	23.777	-33.749	-44.679	1.00	0.00	C
ATOM	1279	OG1	THR A 83	24.192	-34.950	-44.067	1.00	0.00	O
ATOM	1280	CG2	THR A 83	24.235	-33.792	-46.137	1.00	0.00	C
ATOM	1281	H	THR A 83	26.250	-33.443	-43.801	1.00	0.00	H
ATOM	1282	HA	THR A 83	23.966	-31.639	-44.405	1.00	0.00	H
ATOM	1283	HB	THR A 83	22.688	-33.719	-44.667	1.00	0.00	H
ATOM	1284	HG21	THR A 83	23.740	-34.620	-46.644	1.00	0.00	H
ATOM	1285	HG22	THR A 83	25.313	-33.932	-46.196	1.00	0.00	H
ATOM	1286	HG23	THR A 83	23.966	-32.859	-46.633	1.00	0.00	H
ATOM	1287	HG1	THR A 83	23.721	-35.017	-43.231	1.00	0.00	H
ATOM	1288	N	ILE A 84	24.568	-32.200	-41.464	1.00	0.00	N
ATOM	1289	CA	ILE A 84	24.195	-32.190	-40.036	1.00	0.00	C
ATOM	1290	C	ILE A 84	24.608	-30.855	-39.401	1.00	0.00	C
ATOM	1291	O	ILE A 84	25.792	-30.503	-39.420	1.00	0.00	O
ATOM	1292	CB	ILE A 84	24.820	-33.401	-39.299	1.00	0.00	C
ATOM	1293	CG1	ILE A 84	24.274	-34.758	-39.803	1.00	0.00	C

ATOM	1294	CG2 ILE A	84	24.653	-33.303	-37.770	1.00	0.00	C
ATOM	1295	CD1 ILE A	84	22.788	-35.029	-39.526	1.00	0.00	C
ATOM	1296	H ILE A	84	25.499	-31.887	-41.700	1.00	0.00	H
ATOM	1297	HA ILE A	84	23.113	-32.261	-39.952	1.00	0.00	H
ATOM	1298	HB ILE A	84	25.892	-33.394	-39.503	1.00	0.00	H
ATOM	1299	HG12 ILE A	84	24.846	-35.554	-39.329	1.00	0.00	H
ATOM	1300	HG13 ILE A	84	24.449	-34.840	-40.876	1.00	0.00	H
ATOM	1301	HG21 ILE A	84	25.232	-32.469	-37.371	1.00	0.00	H
ATOM	1302	HG22 ILE A	84	23.604	-33.154	-37.515	1.00	0.00	H
ATOM	1303	HG23 ILE A	84	25.006	-34.218	-37.294	1.00	0.00	H
ATOM	1304	HD11 ILE A	84	22.513	-35.993	-39.954	1.00	0.00	H
ATOM	1305	HD12 ILE A	84	22.171	-34.255	-39.981	1.00	0.00	H
ATOM	1306	HD13 ILE A	84	22.598	-35.060	-38.453	1.00	0.00	H
ATOM	1307	N HIS A	85	23.664	-30.163	-38.755	1.00	0.00	N
ATOM	1308	CA HIS A	85	23.795	-28.751	-38.366	1.00	0.00	C
ATOM	1309	C HIS A	85	23.184	-28.450	-36.986	1.00	0.00	C
ATOM	1310	O HIS A	85	22.183	-29.059	-36.604	1.00	0.00	O
ATOM	1311	CB HIS A	85	23.124	-27.860	-39.432	1.00	0.00	C
ATOM	1312	CG HIS A	85	23.448	-28.223	-40.858	1.00	0.00	C
ATOM	1313	ND1 HIS A	85	24.583	-27.875	-41.551	1.00	0.00	N
ATOM	1314	CD2 HIS A	85	22.744	-29.094	-41.645	1.00	0.00	C
ATOM	1315	CE1 HIS A	85	24.558	-28.511	-42.733	1.00	0.00	C
ATOM	1316	NE2 HIS A	85	23.461	-29.275	-42.830	1.00	0.00	N
ATOM	1317	H HIS A	85	22.721	-30.544	-38.758	1.00	0.00	H
ATOM	1318	HA HIS A	85	24.851	-28.486	-38.326	1.00	0.00	H
ATOM	1319	HB2 HIS A	85	22.043	-27.908	-39.311	1.00	0.00	H
ATOM	1320	HB3 HIS A	85	23.430	-26.828	-39.265	1.00	0.00	H
ATOM	1321	HD2 HIS A	85	21.832	-29.605	-41.366	1.00	0.00	H
ATOM	1322	HE1 HIS A	85	25.318	-28.433	-43.500	1.00	0.00	H
ATOM	1323	HD1 HIS A	85	25.298	-27.238	-41.235	1.00	0.00	H

ATOM	1324	N	HIS A 86	23.709	-27.410	-36.324	1.00	0.00	N
ATOM	1325	CA	HIS A 86	23.065	-26.677	-35.219	1.00	0.00	C
ATOM	1326	C	HIS A 86	22.537	-27.561	-34.072	1.00	0.00	C
ATOM	1327	O	HIS A 86	21.420	-27.382	-33.588	1.00	0.00	O
ATOM	1328	CB	HIS A 86	22.010	-25.694	-35.756	1.00	0.00	C
ATOM	1329	CG	HIS A 86	22.453	-24.893	-36.956	1.00	0.00	C
ATOM	1330	ND1	HIS A 86	23.614	-24.157	-37.090	1.00	0.00	N
ATOM	1331	CD2	HIS A 86	21.812	-24.856	-38.164	1.00	0.00	C
ATOM	1332	CE1	HIS A 86	23.649	-23.667	-38.343	1.00	0.00	C
ATOM	1333	NE2	HIS A 86	22.577	-24.080	-39.036	1.00	0.00	N
ATOM	1334	H	HIS A 86	24.543	-26.980	-36.704	1.00	0.00	H
ATOM	1335	HA	HIS A 86	23.850	-26.068	-34.769	1.00	0.00	H
ATOM	1336	HB2	HIS A 86	21.117	-26.258	-36.032	1.00	0.00	H
ATOM	1337	HB3	HIS A 86	21.729	-25.004	-34.960	1.00	0.00	H
ATOM	1338	HD2	HIS A 86	20.892	-25.367	-38.409	1.00	0.00	H
ATOM	1339	HE1	HIS A 86	24.437	-23.046	-38.753	1.00	0.00	H
ATOM	1340	HD1	HIS A 86	24.350	-24.049	-36.403	1.00	0.00	H
ATOM	1341	N	CYS A 87	23.316	-28.577	-33.692	1.00	0.00	N
ATOM	1342	CA	CYS A 87	22.938	-29.526	-32.649	1.00	0.00	C
ATOM	1343	C	CYS A 87	22.659	-28.844	-31.295	1.00	0.00	C
ATOM	1344	O	CYS A 87	23.218	-27.791	-30.989	1.00	0.00	O
ATOM	1345	CB	CYS A 87	24.023	-30.599	-32.526	1.00	0.00	C
ATOM	1346	SG	CYS A 87	24.293	-31.608	-34.012	1.00	0.00	S
ATOM	1347	H	CYS A 87	24.207	-28.690	-34.146	1.00	0.00	H
ATOM	1348	HA	CYS A 87	22.022	-30.012	-32.969	1.00	0.00	H
ATOM	1349	HB2	CYS A 87	23.763	-31.270	-31.705	1.00	0.00	H
ATOM	1350	HB3	CYS A 87	24.961	-30.107	-32.267	1.00	0.00	H
ATOM	1351	N	SER A 88	21.868	-29.506	-30.449	1.00	0.00	N
ATOM	1352	CA	SER A 88	21.390	-28.989	-29.164	1.00	0.00	C
ATOM	1353	C	SER A 88	21.182	-30.116	-28.155	1.00	0.00	C

ATOM	1354	O	SER A 88	20.615	-31.137	-28.526	1.00	0.00	O
ATOM	1355	CB	SER A 88	20.058	-28.282	-29.403	1.00	0.00	C
ATOM	1356	OG	SER A 88	19.662	-27.658	-28.205	1.00	0.00	O
ATOM	1357	H	SER A 88	21.394	-30.334	-30.803	1.00	0.00	H
ATOM	1358	HA	SER A 88	22.121	-28.294	-28.760	1.00	0.00	H
ATOM	1359	HB2	SER A 88	20.176	-27.522	-30.177	1.00	0.00	H
ATOM	1360	HB3	SER A 88	19.301	-29.000	-29.711	1.00	0.00	H
ATOM	1361	HG	SER A 88	20.285	-26.913	-28.103	1.00	0.00	H
ATOM	1362	N	SER A 89	21.634	-29.979	-26.904	1.00	0.00	N
ATOM	1363	CA	SER A 89	21.833	-31.136	-26.010	1.00	0.00	C
ATOM	1364	C	SER A 89	21.270	-30.982	-24.589	1.00	0.00	C
ATOM	1365	O	SER A 89	20.991	-29.875	-24.131	1.00	0.00	O
ATOM	1366	CB	SER A 89	23.321	-31.493	-25.993	1.00	0.00	C
ATOM	1367	OG	SER A 89	24.068	-30.503	-25.323	1.00	0.00	O
ATOM	1368	H	SER A 89	22.062	-29.099	-26.636	1.00	0.00	H
ATOM	1369	HA	SER A 89	21.318	-31.991	-26.438	1.00	0.00	H
ATOM	1370	HB2	SER A 89	23.459	-32.446	-25.482	1.00	0.00	H
ATOM	1371	HB3	SER A 89	23.684	-31.593	-27.016	1.00	0.00	H
ATOM	1372	HG	SER A 89	23.939	-29.631	-25.743	1.00	0.00	H
ATOM	1373	N	THR A 90	20.986	-32.108	-23.922	1.00	0.00	N
ATOM	1374	CA	THR A 90	20.414	-32.200	-22.558	1.00	0.00	C
ATOM	1375	C	THR A 90	20.697	-33.580	-21.939	1.00	0.00	C
ATOM	1376	O	THR A 90	20.427	-34.594	-22.583	1.00	0.00	O
ATOM	1377	CB	THR A 90	18.891	-31.980	-22.630	1.00	0.00	C
ATOM	1378	OG1	THR A 90	18.615	-30.636	-22.942	1.00	0.00	O
ATOM	1379	CG2	THR A 90	18.153	-32.261	-21.325	1.00	0.00	C
ATOM	1380	H	THR A 90	21.140	-32.989	-24.406	1.00	0.00	H
ATOM	1381	HA	THR A 90	20.850	-31.433	-21.915	1.00	0.00	H
ATOM	1382	HB	THR A 90	18.473	-32.618	-23.410	1.00	0.00	H
ATOM	1383	HG1	THR A 90	19.369	-30.297	-23.452	1.00	0.00	H



ATOM	1384	HG21	THR	A	90	18.583	-31.657	-20.526	1.00	0.00	H
ATOM	1385	HG22	THR	A	90	18.222	-33.316	-21.064	1.00	0.00	H
ATOM	1386	HG23	THR	A	90	17.100	-32.011	-21.456	1.00	0.00	H
ATOM	1387	N	TYR	A	91	21.145	-33.650	-20.677	1.00	0.00	N
ATOM	1388	CA	TYR	A	91	21.287	-34.919	-19.944	1.00	0.00	C
ATOM	1389	C	TYR	A	91	19.981	-35.370	-19.275	1.00	0.00	C
ATOM	1390	O	TYR	A	91	19.447	-34.636	-18.437	1.00	0.00	O
ATOM	1391	CB	TYR	A	91	22.385	-34.801	-18.881	1.00	0.00	C
ATOM	1392	CG	TYR	A	91	22.529	-36.011	-17.974	1.00	0.00	C
ATOM	1393	CD1	TYR	A	91	23.097	-37.195	-18.477	1.00	0.00	C
ATOM	1394	CD2	TYR	A	91	22.058	-35.969	-16.646	1.00	0.00	C
ATOM	1395	CE1	TYR	A	91	23.179	-38.337	-17.660	1.00	0.00	C
ATOM	1396	CE2	TYR	A	91	22.133	-37.110	-15.827	1.00	0.00	C
ATOM	1397	CZ	TYR	A	91	22.692	-38.299	-16.337	1.00	0.00	C
ATOM	1398	OH	TYR	A	91	22.755	-39.405	-15.553	1.00	0.00	O
ATOM	1399	H	TYR	A	91	21.417	-32.791	-20.195	1.00	0.00	H
ATOM	1400	HA	TYR	A	91	21.592	-35.697	-20.640	1.00	0.00	H
ATOM	1401	HB2	TYR	A	91	22.147	-33.946	-18.261	1.00	0.00	H
ATOM	1402	HB3	TYR	A	91	23.336	-34.614	-19.371	1.00	0.00	H
ATOM	1403	HD1	TYR	A	91	23.459	-37.228	-19.496	1.00	0.00	H
ATOM	1404	HD2	TYR	A	91	21.632	-35.066	-16.248	1.00	0.00	H
ATOM	1405	HE1	TYR	A	91	23.618	-39.245	-18.038	1.00	0.00	H
ATOM	1406	HE2	TYR	A	91	21.757	-37.080	-14.816	1.00	0.00	H
ATOM	1407	HH	TYR	A	91	22.729	-39.202	-14.618	1.00	0.00	H
ATOM	1408	N	HIS	A	92	19.656	-36.657	-19.398	1.00	0.00	N
ATOM	1409	CA	HIS	A	92	18.632	-37.365	-18.623	1.00	0.00	C
ATOM	1410	C	HIS	A	92	19.028	-38.845	-18.440	1.00	0.00	C
ATOM	1411	O	HIS	A	92	19.458	-39.490	-19.390	1.00	0.00	O
ATOM	1412	CB	HIS	A	92	17.262	-37.163	-19.304	1.00	0.00	C
ATOM	1413	CG	HIS	A	92	16.217	-38.180	-18.927	1.00	0.00	C

ATOM	1414	ND1	HIS	A	92	16.001	-39.401	-19.576	1.00	0.00	N
ATOM	1415	CD2	HIS	A	92	15.449	-38.127	-17.804	1.00	0.00	C
ATOM	1416	CE1	HIS	A	92	15.092	-40.046	-18.822	1.00	0.00	C
ATOM	1417	NE2	HIS	A	92	14.749	-39.308	-17.754	1.00	0.00	N
ATOM	1418	H	HIS	A	92	20.220	-37.236	-20.017	1.00	0.00	H
ATOM	1419	HA	HIS	A	92	18.572	-36.925	-17.630	1.00	0.00	H
ATOM	1420	HB2	HIS	A	92	16.889	-36.171	-19.051	1.00	0.00	H
ATOM	1421	HB3	HIS	A	92	17.380	-37.188	-20.384	1.00	0.00	H
ATOM	1422	HD2	HIS	A	92	15.440	-37.346	-17.059	1.00	0.00	H
ATOM	1423	HE1	HIS	A	92	14.743	-41.056	-18.995	1.00	0.00	H
ATOM	1424	HE2	HIS	A	92	14.274	-39.680	-16.923	1.00	0.00	H
ATOM	1425	N	GLU	A	93	19.054	-39.300	-17.181	1.00	0.00	N
ATOM	1426	CA	GLU	A	93	19.219	-40.703	-16.737	1.00	0.00	C
ATOM	1427	C	GLU	A	93	20.207	-41.561	-17.562	1.00	0.00	C
ATOM	1428	O	GLU	A	93	19.822	-42.365	-18.404	1.00	0.00	O
ATOM	1429	CB	GLU	A	93	17.835	-41.356	-16.555	1.00	0.00	C
ATOM	1430	CG	GLU	A	93	17.053	-40.651	-15.429	1.00	0.00	C
ATOM	1431	CD	GLU	A	93	15.624	-41.183	-15.266	1.00	0.00	C
ATOM	1432	OE1	GLU	A	93	15.458	-42.420	-15.209	1.00	0.00	O
ATOM	1433	OE2	GLU	A	93	14.707	-40.332	-15.183	1.00	0.00	O
ATOM	1434	H	GLU	A	93	18.656	-38.687	-16.491	1.00	0.00	H
ATOM	1435	HA	GLU	A	93	19.656	-40.670	-15.740	1.00	0.00	H
ATOM	1436	HB2	GLU	A	93	17.277	-41.300	-17.490	1.00	0.00	H
ATOM	1437	HB3	GLU	A	93	17.970	-42.404	-16.287	1.00	0.00	H
ATOM	1438	HG2	GLU	A	93	17.010	-39.577	-15.630	1.00	0.00	H
ATOM	1439	HG3	GLU	A	93	17.596	-40.782	-14.490	1.00	0.00	H
ATOM	1440	N	ASP	A	94	21.507	-41.383	-17.299	1.00	0.00	N
ATOM	1441	CA	ASP	A	94	22.657	-41.976	-18.005	1.00	0.00	C
ATOM	1442	C	ASP	A	94	22.823	-41.631	-19.496	1.00	0.00	C
ATOM	1443	O	ASP	A	94	23.880	-41.936	-20.052	1.00	0.00	O

ATOM	1444	CB	ASP	A	94	22.789	-43.492	-17.757	1.00	0.00	C
ATOM	1445	CG	ASP	A	94	23.340	-43.884	-16.386	1.00	0.00	C
ATOM	1446	OD1	ASP	A	94	24.017	-43.046	-15.742	1.00	0.00	O
ATOM	1447	OD2	ASP	A	94	23.561	-45.104	-16.227	1.00	0.00	O
ATOM	1448	H	ASP	A	94	21.744	-40.704	-16.588	1.00	0.00	H
ATOM	1449	HA	ASP	A	94	23.536	-41.525	-17.548	1.00	0.00	H
ATOM	1450	HB2	ASP	A	94	23.474	-43.906	-18.496	1.00	0.00	H
ATOM	1451	HB3	ASP	A	94	21.826	-43.980	-17.911	1.00	0.00	H
ATOM	1452	N	PHE	A	95	21.958	-40.813	-20.098	1.00	0.00	N
ATOM	1453	CA	PHE	A	95	22.097	-40.379	-21.491	1.00	0.00	C
ATOM	1454	C	PHE	A	95	22.221	-38.860	-21.615	1.00	0.00	C
ATOM	1455	O	PHE	A	95	21.340	-38.113	-21.195	1.00	0.00	O
ATOM	1456	CB	PHE	A	95	20.932	-40.910	-22.336	1.00	0.00	C
ATOM	1457	CG	PHE	A	95	20.602	-42.374	-22.111	1.00	0.00	C
ATOM	1458	CD1	PHE	A	95	21.484	-43.379	-22.547	1.00	0.00	C
ATOM	1459	CD2	PHE	A	95	19.443	-42.725	-21.395	1.00	0.00	C
ATOM	1460	CE1	PHE	A	95	21.209	-44.728	-22.267	1.00	0.00	C
ATOM	1461	CE2	PHE	A	95	19.175	-44.073	-21.102	1.00	0.00	C
ATOM	1462	CZ	PHE	A	95	20.058	-45.076	-21.538	1.00	0.00	C
ATOM	1463	H	PHE	A	95	21.096	-40.573	-19.613	1.00	0.00	H
ATOM	1464	HA	PHE	A	95	23.004	-40.810	-21.909	1.00	0.00	H
ATOM	1465	HB2	PHE	A	95	20.048	-40.322	-22.102	1.00	0.00	H
ATOM	1466	HB3	PHE	A	95	21.163	-40.751	-23.390	1.00	0.00	H
ATOM	1467	HD1	PHE	A	95	22.389	-43.114	-23.070	1.00	0.00	H
ATOM	1468	HD2	PHE	A	95	18.802	-41.953	-20.986	1.00	0.00	H
ATOM	1469	HE1	PHE	A	95	21.910	-45.489	-22.576	1.00	0.00	H
ATOM	1470	HE2	PHE	A	95	18.329	-44.319	-20.474	1.00	0.00	H
ATOM	1471	HZ	PHE	A	95	19.870	-46.104	-21.269	1.00	0.00	H
ATOM	1472	N	TYR	A	96	23.187	-38.399	-22.409	1.00	0.00	N
ATOM	1473	CA	TYR	A	96	23.070	-37.093	-23.052	1.00	0.00	C

ATOM	1474	C	TYR A 96	22.317	-37.261	-24.378	1.00	0.00	C
ATOM	1475	O	TYR A 96	22.768	-37.948	-25.301	1.00	0.00	O
ATOM	1476	CB	TYR A 96	24.439	-36.415	-23.192	1.00	0.00	C
ATOM	1477	CG	TYR A 96	24.534	-35.090	-22.456	1.00	0.00	C
ATOM	1478	CD1	TYR A 96	25.375	-34.950	-21.333	1.00	0.00	C
ATOM	1479	CD2	TYR A 96	23.805	-33.983	-22.933	1.00	0.00	C
ATOM	1480	CE1	TYR A 96	25.460	-33.709	-20.669	1.00	0.00	C
ATOM	1481	CE2	TYR A 96	23.900	-32.742	-22.276	1.00	0.00	C
ATOM	1482	CZ	TYR A 96	24.709	-32.609	-21.131	1.00	0.00	C
ATOM	1483	OH	TYR A 96	24.703	-31.442	-20.444	1.00	0.00	O
ATOM	1484	H	TYR A 96	23.824	-39.070	-22.826	1.00	0.00	H
ATOM	1485	HA	TYR A 96	22.469	-36.437	-22.424	1.00	0.00	H
ATOM	1486	HB2	TYR A 96	25.216	-37.080	-22.816	1.00	0.00	H
ATOM	1487	HB3	TYR A 96	24.639	-36.225	-24.248	1.00	0.00	H
ATOM	1488	HD1	TYR A 96	25.954	-35.788	-20.974	1.00	0.00	H
ATOM	1489	HD2	TYR A 96	23.179	-34.087	-23.807	1.00	0.00	H
ATOM	1490	HE1	TYR A 96	26.068	-33.594	-19.784	1.00	0.00	H
ATOM	1491	HE2	TYR A 96	23.364	-31.877	-22.634	1.00	0.00	H
ATOM	1492	HH	TYR A 96	23.810	-31.267	-20.096	1.00	0.00	H
ATOM	1493	N	TYR A 97	21.108	-36.709	-24.428	1.00	0.00	N
ATOM	1494	CA	TYR A 97	20.309	-36.566	-25.640	1.00	0.00	C
ATOM	1495	C	TYR A 97	20.795	-35.330	-26.407	1.00	0.00	C
ATOM	1496	O	TYR A 97	21.166	-34.322	-25.800	1.00	0.00	O
ATOM	1497	CB	TYR A 97	18.822	-36.437	-25.275	1.00	0.00	C
ATOM	1498	CG	TYR A 97	18.215	-37.618	-24.529	1.00	0.00	C
ATOM	1499	CD1	TYR A 97	17.333	-38.505	-25.182	1.00	0.00	C
ATOM	1500	CD2	TYR A 97	18.480	-37.796	-23.156	1.00	0.00	C
ATOM	1501	CE1	TYR A 97	16.731	-39.566	-24.473	1.00	0.00	C
ATOM	1502	CE2	TYR A 97	17.884	-38.857	-22.451	1.00	0.00	C
ATOM	1503	CZ	TYR A 97	17.000	-39.736	-23.099	1.00	0.00	C

ATOM	1504	OH	TYR	A	97	16.403	-40.728	-22.390	1.00	0.00	O
ATOM	1505	H	TYR	A	97	20.815	-36.155	-23.629	1.00	0.00	H
ATOM	1506	HA	TYR	A	97	20.436	-37.446	-26.270	1.00	0.00	H
ATOM	1507	HB2	TYR	A	97	18.692	-35.542	-24.663	1.00	0.00	H
ATOM	1508	HB3	TYR	A	97	18.261	-36.281	-26.194	1.00	0.00	H
ATOM	1509	HD1	TYR	A	97	17.082	-38.350	-26.218	1.00	0.00	H
ATOM	1510	HD2	TYR	A	97	19.132	-37.114	-22.625	1.00	0.00	H
ATOM	1511	HE1	TYR	A	97	16.030	-40.230	-24.953	1.00	0.00	H
ATOM	1512	HE2	TYR	A	97	18.101	-39.007	-21.404	1.00	0.00	H
ATOM	1513	HH	TYR	A	97	16.318	-40.466	-21.459	1.00	0.00	H
ATOM	1514	N	THR	A	98	20.795	-35.383	-27.739	1.00	0.00	N
ATOM	1515	CA	THR	A	98	21.269	-34.285	-28.588	1.00	0.00	C
ATOM	1516	C	THR	A	98	20.570	-34.264	-29.951	1.00	0.00	C
ATOM	1517	O	THR	A	98	20.570	-35.240	-30.698	1.00	0.00	O
ATOM	1518	CB	THR	A	98	22.803	-34.281	-28.676	1.00	0.00	C
ATOM	1519	OG1	THR	A	98	23.254	-33.191	-29.446	1.00	0.00	O
ATOM	1520	CG2	THR	A	98	23.419	-35.541	-29.275	1.00	0.00	C
ATOM	1521	H	THR	A	98	20.556	-36.259	-28.196	1.00	0.00	H
ATOM	1522	HA	THR	A	98	21.000	-33.368	-28.083	1.00	0.00	H
ATOM	1523	HB	THR	A	98	23.195	-34.164	-27.665	1.00	0.00	H
ATOM	1524	HG1	THR	A	98	24.213	-33.218	-29.435	1.00	0.00	H
ATOM	1525	HG21	THR	A	98	24.487	-35.544	-29.073	1.00	0.00	H
ATOM	1526	HG22	THR	A	98	23.238	-35.572	-30.349	1.00	0.00	H
ATOM	1527	HG23	THR	A	98	22.994	-36.428	-28.807	1.00	0.00	H
ATOM	1528	N	LEU	A	99	19.791	-33.206	-30.167	1.00	0.00	N
ATOM	1529	CA	LEU	A	99	18.923	-32.956	-31.312	1.00	0.00	C
ATOM	1530	C	LEU	A	99	19.660	-32.108	-32.361	1.00	0.00	C
ATOM	1531	O	LEU	A	99	20.055	-30.983	-32.065	1.00	0.00	O
ATOM	1532	CB	LEU	A	99	17.666	-32.258	-30.755	1.00	0.00	C
ATOM	1533	CG	LEU	A	99	16.650	-31.785	-31.805	1.00	0.00	C

ATOM	1534	CD1 LEU A 99	16.073	-32.946	-32.608	1.00	0.00	C
ATOM	1535	CD2 LEU A 99	15.499	-31.051	-31.120	1.00	0.00	C
ATOM	1536	H LEU A 99	19.866	-32.450	-29.494	1.00	0.00	H
ATOM	1537	HA LEU A 99	18.635	-33.903	-31.766	1.00	0.00	H
ATOM	1538	HB2 LEU A 99	17.166	-32.935	-30.061	1.00	0.00	H
ATOM	1539	HB3 LEU A 99	17.985	-31.383	-30.184	1.00	0.00	H
ATOM	1540	HG LEU A 99	17.130	-31.099	-32.495	1.00	0.00	H
ATOM	1541	HD11 LEU A 99	16.861	-33.447	-33.164	1.00	0.00	H
ATOM	1542	HD12 LEU A 99	15.591	-33.654	-31.935	1.00	0.00	H
ATOM	1543	HD13 LEU A 99	15.348	-32.563	-33.320	1.00	0.00	H
ATOM	1544	HD21 LEU A 99	15.886	-30.192	-30.570	1.00	0.00	H
ATOM	1545	HD22 LEU A 99	14.788	-30.701	-31.865	1.00	0.00	H
ATOM	1546	HD23 LEU A 99	14.996	-31.718	-30.420	1.00	0.00	H
ATOM	1547	N CYS A 100	19.743	-32.584	-33.603	1.00	0.00	N
ATOM	1548	CA CYS A 100	20.414	-31.916	-34.724	1.00	0.00	C
ATOM	1549	C CYS A 100	19.472	-31.741	-35.927	1.00	0.00	C
ATOM	1550	O CYS A 100	18.683	-32.636	-36.255	1.00	0.00	O
ATOM	1551	CB CYS A 100	21.642	-32.731	-35.147	1.00	0.00	C
ATOM	1552	SG CYS A 100	22.896	-33.093	-33.884	1.00	0.00	S
ATOM	1553	H CYS A 100	19.356	-33.504	-33.785	1.00	0.00	H
ATOM	1554	HA CYS A 100	20.748	-30.924	-34.419	1.00	0.00	H
ATOM	1555	HB2 CYS A 100	21.282	-33.691	-35.523	1.00	0.00	H
ATOM	1556	HB3 CYS A 100	22.131	-32.215	-35.973	1.00	0.00	H
ATOM	1557	N ALA A 101	19.672	-30.665	-36.687	1.00	0.00	N
ATOM	1558	CA ALA A 101	19.045	-30.474	-37.993	1.00	0.00	C
ATOM	1559	C ALA A 101	19.756	-31.302	-39.077	1.00	0.00	C
ATOM	1560	O ALA A 101	20.987	-31.284	-39.165	1.00	0.00	O
ATOM	1561	CB ALA A 101	19.064	-28.979	-38.318	1.00	0.00	C
ATOM	1562	H ALA A 101	20.419	-30.022	-36.439	1.00	0.00	H
ATOM	1563	HA ALA A 101	18.005	-30.799	-37.937	1.00	0.00	H

ATOM	1564	HB1	ALA	A 101	20.088	-28.641	-38.460	1.00	0.00	H
ATOM	1565	HB2	ALA	A 101	18.632	-28.425	-37.488	1.00	0.00	H
ATOM	1566	HB3	ALA	A 101	18.491	-28.784	-39.225	1.00	0.00	H
ATOM	1567	N	VAL	A 102	18.984	-31.951	-39.952	1.00	0.00	N
ATOM	1568	CA	VAL	A 102	19.468	-32.679	-41.135	1.00	0.00	C
ATOM	1569	C	VAL	A 102	19.127	-31.875	-42.390	1.00	0.00	C
ATOM	1570	O	VAL	A 102	18.004	-31.390	-42.515	1.00	0.00	O
ATOM	1571	CB	VAL	A 102	18.851	-34.090	-41.228	1.00	0.00	C
ATOM	1572	CG1	VAL	A 102	19.548	-34.932	-42.305	1.00	0.00	C
ATOM	1573	CG2	VAL	A 102	18.906	-34.861	-39.904	1.00	0.00	C
ATOM	1574	H	VAL	A 102	17.974	-31.892	-39.849	1.00	0.00	H
ATOM	1575	HA	VAL	A 102	20.547	-32.785	-41.066	1.00	0.00	H
ATOM	1576	HB	VAL	A 102	17.804	-33.996	-41.505	1.00	0.00	H
ATOM	1577	HG11	VAL	A 102	19.419	-34.475	-43.285	1.00	0.00	H
ATOM	1578	HG12	VAL	A 102	20.613	-35.014	-42.082	1.00	0.00	H
ATOM	1579	HG13	VAL	A 102	19.112	-35.929	-42.333	1.00	0.00	H
ATOM	1580	HG21	VAL	A 102	18.294	-34.358	-39.155	1.00	0.00	H
ATOM	1581	HG22	VAL	A 102	18.506	-35.865	-40.042	1.00	0.00	H
ATOM	1582	HG23	VAL	A 102	19.933	-34.928	-39.548	1.00	0.00	H
ATOM	1583	N	SER	A 103	20.038	-31.756	-43.361	1.00	0.00	N
ATOM	1584	CA	SER	A 103	19.801	-30.930	-44.556	1.00	0.00	C
ATOM	1585	C	SER	A 103	20.377	-31.517	-45.842	1.00	0.00	C
ATOM	1586	O	SER	A 103	21.553	-31.866	-45.909	1.00	0.00	O
ATOM	1587	CB	SER	A 103	20.364	-29.529	-44.337	1.00	0.00	C
ATOM	1588	OG	SER	A 103	20.047	-28.697	-45.429	1.00	0.00	O
ATOM	1589	H	SER	A 103	20.962	-32.151	-43.212	1.00	0.00	H
ATOM	1590	HA	SER	A 103	18.727	-30.823	-44.707	1.00	0.00	H
ATOM	1591	HB2	SER	A 103	19.955	-29.104	-43.421	1.00	0.00	H
ATOM	1592	HB3	SER	A 103	21.444	-29.596	-44.254	1.00	0.00	H
ATOM	1593	HG	SER	A 103	20.532	-27.860	-45.253	1.00	0.00	H

ATOM	1594	N	HIS A 104	19.592	-31.448	-46.923	1.00	0.00	N
ATOM	1595	CA	HIS A 104	20.047	-31.680	-48.303	1.00	0.00	C
ATOM	1596	C	HIS A 104	20.580	-30.412	-48.995	1.00	0.00	C
ATOM	1597	O	HIS A 104	21.123	-30.503	-50.091	1.00	0.00	O
ATOM	1598	CB	HIS A 104	18.896	-32.315	-49.116	1.00	0.00	C
ATOM	1599	CG	HIS A 104	19.210	-33.639	-49.769	1.00	0.00	C
ATOM	1600	ND1	HIS A 104	18.514	-34.157	-50.861	1.00	0.00	N
ATOM	1601	CD2	HIS A 104	20.090	-34.589	-49.328	1.00	0.00	C
ATOM	1602	CE1	HIS A 104	19.014	-35.380	-51.082	1.00	0.00	C
ATOM	1603	NE2	HIS A 104	19.964	-35.666	-50.177	1.00	0.00	N
ATOM	1604	H	HIS A 104	18.648	-31.116	-46.794	1.00	0.00	H
ATOM	1605	HA	HIS A 104	20.896	-32.362	-48.281	1.00	0.00	H
ATOM	1606	HB2	HIS A 104	18.031	-32.474	-48.472	1.00	0.00	H
ATOM	1607	HB3	HIS A 104	18.579	-31.622	-49.895	1.00	0.00	H
ATOM	1608	HD2	HIS A 104	20.733	-34.519	-48.463	1.00	0.00	H
ATOM	1609	HE1	HIS A 104	18.682	-36.042	-51.872	1.00	0.00	H
ATOM	1610	HE2	HIS A 104	20.477	-36.535	-50.124	1.00	0.00	H
ATOM	1611	N	VAL A 105	20.430	-29.234	-48.374	1.00	0.00	N
ATOM	1612	CA	VAL A 105	20.701	-27.912	-48.983	1.00	0.00	C
ATOM	1613	C	VAL A 105	21.814	-27.133	-48.266	1.00	0.00	C
ATOM	1614	O	VAL A 105	22.018	-25.951	-48.527	1.00	0.00	O
ATOM	1615	CB	VAL A 105	19.407	-27.081	-49.114	1.00	0.00	C
ATOM	1616	CG1	VAL A 105	18.363	-27.818	-49.964	1.00	0.00	C
ATOM	1617	CG2	VAL A 105	18.773	-26.731	-47.761	1.00	0.00	C
ATOM	1618	H	VAL A 105	20.024	-29.237	-47.447	1.00	0.00	H
ATOM	1619	HA	VAL A 105	21.073	-28.069	-49.995	1.00	0.00	H
ATOM	1620	HB	VAL A 105	19.642	-26.149	-49.626	1.00	0.00	H
ATOM	1621	HG11	VAL A 105	18.790	-28.068	-50.935	1.00	0.00	H
ATOM	1622	HG12	VAL A 105	17.494	-27.184	-50.118	1.00	0.00	H
ATOM	1623	HG13	VAL A 105	18.036	-28.734	-49.472	1.00	0.00	H



ATOM	1624	HG21 VAL A 105	19.497	-26.221	-47.124	1.00	0.00	H
ATOM	1625	HG22 VAL A 105	18.422	-27.632	-47.261	1.00	0.00	H
ATOM	1626	HG23 VAL A 105	17.929	-26.063	-47.917	1.00	0.00	H
ATOM	1627	N GLY A 106	22.529	-27.778	-47.341	1.00	0.00	N
ATOM	1628	CA GLY A 106	23.466	-27.114	-46.437	1.00	0.00	C
ATOM	1629	C GLY A 106	22.743	-26.305	-45.354	1.00	0.00	C
ATOM	1630	O GLY A 106	21.701	-26.724	-44.861	1.00	0.00	O
ATOM	1631	H GLY A 106	22.290	-28.738	-47.150	1.00	0.00	H
ATOM	1632	HA2 GLY A 106	24.106	-26.445	-47.009	1.00	0.00	H
ATOM	1633	HA3 GLY A 106	24.092	-27.856	-45.945	1.00	0.00	H
ATOM	1634	N ASP A 107	23.335	-25.183	-44.949	1.00	0.00	N
ATOM	1635	CA ASP A 107	22.908	-24.343	-43.821	1.00	0.00	C
ATOM	1636	C ASP A 107	21.398	-23.977	-43.870	1.00	0.00	C
ATOM	1637	O ASP A 107	20.968	-23.246	-44.770	1.00	0.00	O
ATOM	1638	CB ASP A 107	23.832	-23.116	-43.789	1.00	0.00	C
ATOM	1639	CG ASP A 107	23.573	-22.135	-42.639	1.00	0.00	C
ATOM	1640	OD1 ASP A 107	22.392	-21.792	-42.418	1.00	0.00	O
ATOM	1641	OD2 ASP A 107	24.564	-21.501	-42.229	1.00	0.00	O
ATOM	1642	H ASP A 107	24.144	-24.864	-45.456	1.00	0.00	H
ATOM	1643	HA ASP A 107	23.109	-24.885	-42.898	1.00	0.00	H
ATOM	1644	HB2 ASP A 107	24.861	-23.470	-43.713	1.00	0.00	H
ATOM	1645	HB3 ASP A 107	23.740	-22.579	-44.733	1.00	0.00	H
ATOM	1646	N PRO A 108	20.582	-24.454	-42.905	1.00	0.00	N
ATOM	1647	CA PRO A 108	19.149	-24.176	-42.858	1.00	0.00	C
ATOM	1648	C PRO A 108	18.764	-22.710	-42.664	1.00	0.00	C
ATOM	1649	O PRO A 108	17.672	-22.324	-43.072	1.00	0.00	O
ATOM	1650	CB PRO A 108	18.629	-24.989	-41.675	1.00	0.00	C
ATOM	1651	CG PRO A 108	19.568	-26.185	-41.627	1.00	0.00	C
ATOM	1652	CD PRO A 108	20.900	-25.519	-41.956	1.00	0.00	C
ATOM	1653	HA PRO A 108	18.693	-24.544	-43.778	1.00	0.00	H

ATOM	1654	HB2 PRO A 108	17.594	-25.279	-41.810	1.00	0.00	H
ATOM	1655	HB3 PRO A 108	18.742	-24.404	-40.765	1.00	0.00	H
ATOM	1656	HG2 PRO A 108	19.581	-26.661	-40.648	1.00	0.00	H
ATOM	1657	HG3 PRO A 108	19.306	-26.898	-42.409	1.00	0.00	H
ATOM	1658	HD2 PRO A 108	21.581	-26.261	-42.372	1.00	0.00	H
ATOM	1659	HD3 PRO A 108	21.327	-25.081	-41.055	1.00	0.00	H
ATOM	1660	N ILE A 109	19.603	-21.880	-42.039	1.00	0.00	N
ATOM	1661	CA ILE A 109	19.321	-20.449	-41.843	1.00	0.00	C
ATOM	1662	C ILE A 109	19.552	-19.687	-43.150	1.00	0.00	C
ATOM	1663	O ILE A 109	18.659	-18.987	-43.635	1.00	0.00	O
ATOM	1664	CB ILE A 109	20.190	-19.891	-40.690	1.00	0.00	C
ATOM	1665	CG1 ILE A 109	19.950	-20.631	-39.355	1.00	0.00	C
ATOM	1666	CG2 ILE A 109	19.987	-18.375	-40.511	1.00	0.00	C
ATOM	1667	CD1 ILE A 109	18.536	-20.497	-38.769	1.00	0.00	C
ATOM	1668	H ILE A 109	20.554	-22.197	-41.857	1.00	0.00	H
ATOM	1669	HA ILE A 109	18.272	-20.326	-41.581	1.00	0.00	H
ATOM	1670	HB ILE A 109	21.239	-20.039	-40.949	1.00	0.00	H
ATOM	1671	HG12 ILE A 109	20.172	-21.691	-39.483	1.00	0.00	H
ATOM	1672	HG13 ILE A 109	20.664	-20.252	-38.627	1.00	0.00	H
ATOM	1673	HG21 ILE A 109	20.393	-17.839	-41.368	1.00	0.00	H
ATOM	1674	HG22 ILE A 109	20.519	-18.039	-39.621	1.00	0.00	H
ATOM	1675	HG23 ILE A 109	18.928	-18.141	-40.410	1.00	0.00	H
ATOM	1676	HD11 ILE A 109	18.476	-21.052	-37.834	1.00	0.00	H
ATOM	1677	HD12 ILE A 109	18.302	-19.453	-38.565	1.00	0.00	H
ATOM	1678	HD13 ILE A 109	17.805	-20.906	-39.462	1.00	0.00	H
ATOM	1679	N LEU A 110	20.673	-19.970	-43.820	1.00	0.00	N
ATOM	1680	CA LEU A 110	21.036	-19.400	-45.119	1.00	0.00	C
ATOM	1681	C LEU A 110	20.267	-20.019	-46.304	1.00	0.00	C
ATOM	1682	O LEU A 110	20.334	-19.488	-47.415	1.00	0.00	O
ATOM	1683	CB LEU A 110	22.561	-19.507	-45.307	1.00	0.00	C

ATOM	1684	CG	LEU A 110	23.409	-18.823	-44.212	1.00	0.00	C
ATOM	1685	CD1	LEU A 110	24.893	-19.021	-44.522	1.00	0.00	C
ATOM	1686	CD2	LEU A 110	23.146	-17.316	-44.123	1.00	0.00	C
ATOM	1687	H	LEU A 110	21.330	-20.614	-43.371	1.00	0.00	H
ATOM	1688	HA	LEU A 110	20.767	-18.344	-45.112	1.00	0.00	H
ATOM	1689	HB2	LEU A 110	22.823	-19.070	-46.271	1.00	0.00	H
ATOM	1690	HB3	LEU A 110	22.824	-20.564	-45.340	1.00	0.00	H
ATOM	1691	HG	LEU A 110	23.195	-19.266	-43.241	1.00	0.00	H
ATOM	1692	HD11	LEU A 110	25.489	-18.585	-43.721	1.00	0.00	H
ATOM	1693	HD12	LEU A 110	25.110	-20.089	-44.552	1.00	0.00	H
ATOM	1694	HD13	LEU A 110	25.151	-18.562	-45.475	1.00	0.00	H
ATOM	1695	HD21	LEU A 110	22.127	-17.140	-43.782	1.00	0.00	H
ATOM	1696	HD22	LEU A 110	23.825	-16.874	-43.394	1.00	0.00	H
ATOM	1697	HD23	LEU A 110	23.299	-16.849	-45.095	1.00	0.00	H
ATOM	1698	N	ASN A 111	19.490	-21.088	-46.093	1.00	0.00	N
ATOM	1699	CA	ASN A 111	18.670	-21.736	-47.126	1.00	0.00	C
ATOM	1700	C	ASN A 111	17.295	-22.229	-46.622	1.00	0.00	C
ATOM	1701	O	ASN A 111	16.687	-23.113	-47.224	1.00	0.00	O
ATOM	1702	CB	ASN A 111	19.506	-22.812	-47.862	1.00	0.00	C
ATOM	1703	CG	ASN A 111	19.685	-22.480	-49.332	1.00	0.00	C
ATOM	1704	OD1	ASN A 111	19.054	-23.053	-50.205	1.00	0.00	O
ATOM	1705	ND2	ASN A 111	20.260	-21.338	-49.630	1.00	0.00	N
ATOM	1706	H	ASN A 111	19.628	-21.581	-45.215	1.00	0.00	H
ATOM	1707	HA	ASN A 111	18.409	-20.965	-47.852	1.00	0.00	H
ATOM	1708	HB2	ASN A 111	20.498	-22.897	-47.416	1.00	0.00	H
ATOM	1709	HB3	ASN A 111	19.039	-23.791	-47.781	1.00	0.00	H
ATOM	1710	HD21	ASN A 111	20.570	-20.723	-48.884	1.00	0.00	H
ATOM	1711	HD22	ASN A 111	20.264	-21.069	-50.594	1.00	0.00	H
ATOM	1712	N	SER A 112	16.679	-21.504	-45.681	1.00	0.00	N
ATOM	1713	CA	SER A 112	15.384	-21.867	-45.068	1.00	0.00	C

ATOM	1714	C	SER A 112	14.205	-22.026	-46.045	1.00	0.00	C
ATOM	1715	O	SER A 112	13.201	-22.648	-45.696	1.00	0.00	O
ATOM	1716	CB	SER A 112	15.010	-20.798	-44.037	1.00	0.00	C
ATOM	1717	OG	SER A 112	13.794	-21.127	-43.400	1.00	0.00	O
ATOM	1718	H	SER A 112	17.258	-20.848	-45.168	1.00	0.00	H
ATOM	1719	HA	SER A 112	15.509	-22.813	-44.538	1.00	0.00	H
ATOM	1720	HB2	SER A 112	15.794	-20.708	-43.285	1.00	0.00	H
ATOM	1721	HB3	SER A 112	14.899	-19.837	-44.539	1.00	0.00	H
ATOM	1722	HG	SER A 112	13.181	-21.505	-44.044	1.00	0.00	H
ATOM	1723	N	THR A 113	14.250	-21.373	-47.212	1.00	0.00	N
ATOM	1724	CA	THR A 113	13.223	-21.512	-48.268	1.00	0.00	C
ATOM	1725	C	THR A 113	13.362	-22.796	-49.095	1.00	0.00	C
ATOM	1726	O	THR A 113	12.437	-23.143	-49.824	1.00	0.00	O
ATOM	1727	CB	THR A 113	13.214	-20.278	-49.184	1.00	0.00	C
ATOM	1728	OG1	THR A 113	12.090	-20.308	-50.027	1.00	0.00	O
ATOM	1729	CG2	THR A 113	14.452	-20.149	-50.075	1.00	0.00	C
ATOM	1730	H	THR A 113	15.103	-20.884	-47.435	1.00	0.00	H
ATOM	1731	HA	THR A 113	12.242	-21.563	-47.795	1.00	0.00	H
ATOM	1732	HB	THR A 113	13.144	-19.386	-48.561	1.00	0.00	H
ATOM	1733	HG1	THR A 113	11.995	-21.216	-50.355	1.00	0.00	H
ATOM	1734	HG21	THR A 113	14.380	-19.230	-50.655	1.00	0.00	H
ATOM	1735	HG22	THR A 113	14.520	-20.993	-50.764	1.00	0.00	H
ATOM	1736	HG23	THR A 113	15.354	-20.111	-49.465	1.00	0.00	H
ATOM	1737	N	SER A 114	14.512	-23.465	-49.008	1.00	0.00	N
ATOM	1738	CA	SER A 114	14.844	-24.720	-49.695	1.00	0.00	C
ATOM	1739	C	SER A 114	14.860	-25.911	-48.726	1.00	0.00	C
ATOM	1740	O	SER A 114	14.755	-27.060	-49.147	1.00	0.00	O
ATOM	1741	CB	SER A 114	16.241	-24.607	-50.323	1.00	0.00	C
ATOM	1742	OG	SER A 114	16.469	-23.358	-50.948	1.00	0.00	O
ATOM	1743	H	SER A 114	15.252	-23.065	-48.446	1.00	0.00	H

ATOM	1744	HA	SER A 114	14.119	-24.921	-50.484	1.00	0.00	H
ATOM	1745	HB2	SER A 114	16.989	-24.726	-49.538	1.00	0.00	H
ATOM	1746	HB3	SER A 114	16.375	-25.406	-51.053	1.00	0.00	H
ATOM	1747	HG	SER A 114	17.429	-23.190	-50.864	1.00	0.00	H
ATOM	1748	N	TRP A 115	15.109	-25.654	-47.437	1.00	0.00	N
ATOM	1749	CA	TRP A 115	15.312	-26.683	-46.417	1.00	0.00	C
ATOM	1750	C	TRP A 115	14.010	-27.414	-46.049	1.00	0.00	C
ATOM	1751	O	TRP A 115	13.085	-26.836	-45.479	1.00	0.00	O
ATOM	1752	CB	TRP A 115	15.995	-26.054	-45.191	1.00	0.00	C
ATOM	1753	CG	TRP A 115	16.273	-26.997	-44.059	1.00	0.00	C
ATOM	1754	CD1	TRP A 115	17.028	-28.116	-44.137	1.00	0.00	C
ATOM	1755	CD2	TRP A 115	15.765	-26.965	-42.688	1.00	0.00	C
ATOM	1756	NE1	TRP A 115	17.006	-28.780	-42.927	1.00	0.00	N
ATOM	1757	CE2	TRP A 115	16.231	-28.124	-41.999	1.00	0.00	C
ATOM	1758	CE3	TRP A 115	14.969	-26.065	-41.948	1.00	0.00	C
ATOM	1759	CZ2	TRP A 115	15.877	-28.414	-40.675	1.00	0.00	C
ATOM	1760	CZ3	TRP A 115	14.600	-26.343	-40.618	1.00	0.00	C
ATOM	1761	CH2	TRP A 115	15.039	-27.521	-39.986	1.00	0.00	C
ATOM	1762	H	TRP A 115	15.291	-24.696	-47.175	1.00	0.00	H
ATOM	1763	HA	TRP A 115	15.998	-27.425	-46.824	1.00	0.00	H
ATOM	1764	HB2	TRP A 115	15.360	-25.250	-44.816	1.00	0.00	H
ATOM	1765	HB3	TRP A 115	16.940	-25.607	-45.502	1.00	0.00	H
ATOM	1766	HD1	TRP A 115	17.539	-28.457	-45.027	1.00	0.00	H
ATOM	1767	HE3	TRP A 115	14.664	-25.144	-42.416	1.00	0.00	H
ATOM	1768	HZ2	TRP A 115	16.220	-29.325	-40.208	1.00	0.00	H
ATOM	1769	HZ3	TRP A 115	13.974	-25.650	-40.071	1.00	0.00	H
ATOM	1770	HH2	TRP A 115	14.726	-27.735	-38.974	1.00	0.00	H
ATOM	1771	HE1	TRP A 115	17.381	-29.718	-42.788	1.00	0.00	H
ATOM	1772	N	THR A 116	13.988	-28.730	-46.260	1.00	0.00	N
ATOM	1773	CA	THR A 116	13.044	-29.659	-45.621	1.00	0.00	C

ATOM	1774	C	THR A 116	13.395	-29.802	-44.138	1.00	0.00	C
ATOM	1775	O	THR A 116	14.513	-30.224	-43.849	1.00	0.00	O
ATOM	1776	CB	THR A 116	13.144	-31.044	-46.284	1.00	0.00	C
ATOM	1777	OG1	THR A 116	14.486	-31.488	-46.274	1.00	0.00	O
ATOM	1778	CG2	THR A 116	12.672	-31.044	-47.737	1.00	0.00	C
ATOM	1779	H	THR A 116	14.766	-29.147	-46.750	1.00	0.00	H
ATOM	1780	HA	THR A 116	12.026	-29.282	-45.719	1.00	0.00	H
ATOM	1781	HB	THR A 116	12.533	-31.750	-45.720	1.00	0.00	H
ATOM	1782	HG1	THR A 116	14.822	-31.302	-45.383	1.00	0.00	H
ATOM	1783	HG21	THR A 116	12.747	-32.054	-48.139	1.00	0.00	H
ATOM	1784	HG22	THR A 116	11.634	-30.717	-47.789	1.00	0.00	H
ATOM	1785	HG23	THR A 116	13.292	-30.378	-48.338	1.00	0.00	H
ATOM	1786	N	GLU A 117	12.437	-29.637	-43.216	1.00	0.00	N
ATOM	1787	CA	GLU A 117	12.686	-29.657	-41.755	1.00	0.00	C
ATOM	1788	C	GLU A 117	12.916	-31.057	-41.138	1.00	0.00	C
ATOM	1789	O	GLU A 117	12.334	-31.429	-40.121	1.00	0.00	O
ATOM	1790	CB	GLU A 117	11.648	-28.810	-40.997	1.00	0.00	C
ATOM	1791	CG	GLU A 117	10.209	-29.360	-40.956	1.00	0.00	C
ATOM	1792	CD	GLU A 117	9.523	-29.123	-39.597	1.00	0.00	C
ATOM	1793	OE1	GLU A 117	8.442	-29.735	-39.428	1.00	0.00	O
ATOM	1794	OE2	GLU A 117	9.649	-27.990	-39.088	1.00	0.00	O
ATOM	1795	H	GLU A 117	11.525	-29.334	-43.515	1.00	0.00	H
ATOM	1796	HA	GLU A 117	13.629	-29.137	-41.609	1.00	0.00	H
ATOM	1797	HB2	GLU A 117	11.627	-27.825	-41.456	1.00	0.00	H
ATOM	1798	HB3	GLU A 117	12.018	-28.690	-39.977	1.00	0.00	H
ATOM	1799	HG2	GLU A 117	9.628	-28.887	-41.755	1.00	0.00	H
ATOM	1800	HG3	GLU A 117	10.212	-30.430	-41.164	1.00	0.00	H
ATOM	1801	N	SER A 118	13.772	-31.860	-41.769	1.00	0.00	N
ATOM	1802	CA	SER A 118	14.220	-33.148	-41.248	1.00	0.00	C
ATOM	1803	C	SER A 118	15.060	-32.944	-39.984	1.00	0.00	C

ATOM	1804	O	SER A 118	16.156	-32.380	-40.027	1.00	0.00	O
ATOM	1805	CB	SER A 118	15.004	-33.892	-42.328	1.00	0.00	C
ATOM	1806	OG	SER A 118	15.368	-35.179	-41.872	1.00	0.00	O
ATOM	1807	H	SER A 118	14.290	-31.451	-42.537	1.00	0.00	H
ATOM	1808	HA	SER A 118	13.345	-33.746	-40.994	1.00	0.00	H
ATOM	1809	HB2	SER A 118	14.379	-33.993	-43.217	1.00	0.00	H
ATOM	1810	HB3	SER A 118	15.897	-33.322	-42.589	1.00	0.00	H
ATOM	1811	HG	SER A 118	15.892	-35.609	-42.552	1.00	0.00	H
ATOM	1812	N	LEU A 119	14.518	-33.353	-38.839	1.00	0.00	N
ATOM	1813	CA	LEU A 119	15.201	-33.325	-37.548	1.00	0.00	C
ATOM	1814	C	LEU A 119	15.597	-34.743	-37.130	1.00	0.00	C
ATOM	1815	O	LEU A 119	14.848	-35.703	-37.335	1.00	0.00	O
ATOM	1816	CB	LEU A 119	14.324	-32.623	-36.494	1.00	0.00	C
ATOM	1817	CG	LEU A 119	13.955	-31.160	-36.823	1.00	0.00	C
ATOM	1818	CD1	LEU A 119	13.219	-30.532	-35.637	1.00	0.00	C
ATOM	1819	CD2	LEU A 119	15.189	-30.304	-37.114	1.00	0.00	C
ATOM	1820	H	LEU A 119	13.597	-33.764	-38.875	1.00	0.00	H
ATOM	1821	HA	LEU A 119	16.129	-32.761	-37.641	1.00	0.00	H
ATOM	1822	HB2	LEU A 119	14.862	-32.639	-35.548	1.00	0.00	H
ATOM	1823	HB3	LEU A 119	13.402	-33.191	-36.364	1.00	0.00	H
ATOM	1824	HG	LEU A 119	13.294	-31.134	-37.686	1.00	0.00	H
ATOM	1825	HD21	LEU A 119	14.894	-29.258	-37.186	1.00	0.00	H
ATOM	1826	HD22	LEU A 119	15.931	-30.436	-36.330	1.00	0.00	H
ATOM	1827	HD23	LEU A 119	15.611	-30.593	-38.075	1.00	0.00	H
ATOM	1828	HD11	LEU A 119	12.928	-29.512	-35.890	1.00	0.00	H
ATOM	1829	HD12	LEU A 119	12.313	-31.102	-35.435	1.00	0.00	H
ATOM	1830	HD13	LEU A 119	13.855	-30.525	-34.753	1.00	0.00	H
ATOM	1831	N	SER A 120	16.735	-34.867	-36.449	1.00	0.00	N
ATOM	1832	CA	SER A 120	17.180	-36.145	-35.891	1.00	0.00	C
ATOM	1833	C	SER A 120	17.784	-35.980	-34.505	1.00	0.00	C

ATOM	1834	O	SER A 120	18.568	-35.063	-34.266	1.00	0.00	O
ATOM	1835	CB	SER A 120	18.134	-36.857	-36.847	1.00	0.00	C
ATOM	1836	OG	SER A 120	19.362	-36.163	-37.000	1.00	0.00	O
ATOM	1837	H	SER A 120	17.292	-34.038	-36.257	1.00	0.00	H
ATOM	1838	HA	SER A 120	16.309	-36.787	-35.782	1.00	0.00	H
ATOM	1839	HB2	SER A 120	18.336	-37.857	-36.459	1.00	0.00	H
ATOM	1840	HB3	SER A 120	17.651	-36.957	-37.820	1.00	0.00	H
ATOM	1841	HG	SER A 120	19.170	-35.218	-36.926	1.00	0.00	H
ATOM	1842	N	LEU A 121	17.384	-36.852	-33.584	1.00	0.00	N
ATOM	1843	CA	LEU A 121	17.939	-36.929	-32.241	1.00	0.00	C
ATOM	1844	C	LEU A 121	18.898	-38.115	-32.152	1.00	0.00	C
ATOM	1845	O	LEU A 121	18.556	-39.241	-32.514	1.00	0.00	O
ATOM	1846	CB	LEU A 121	16.792	-36.955	-31.215	1.00	0.00	C
ATOM	1847	CG	LEU A 121	17.273	-36.979	-29.751	1.00	0.00	C
ATOM	1848	CD1	LEU A 121	16.301	-36.197	-28.866	1.00	0.00	C
ATOM	1849	CD2	LEU A 121	17.364	-38.404	-29.198	1.00	0.00	C
ATOM	1850	H	LEU A 121	16.810	-37.630	-33.894	1.00	0.00	H
ATOM	1851	HA	LEU A 121	18.523	-36.029	-32.046	1.00	0.00	H
ATOM	1852	HB2	LEU A 121	16.207	-36.048	-31.371	1.00	0.00	H
ATOM	1853	HB3	LEU A 121	16.138	-37.808	-31.404	1.00	0.00	H
ATOM	1854	HG	LEU A 121	18.250	-36.502	-29.678	1.00	0.00	H
ATOM	1855	HD21	LEU A 121	17.910	-39.049	-29.882	1.00	0.00	H
ATOM	1856	HD22	LEU A 121	17.906	-38.383	-28.255	1.00	0.00	H
ATOM	1857	HD23	LEU A 121	16.366	-38.815	-29.050	1.00	0.00	H
ATOM	1858	HD11	LEU A 121	16.600	-36.268	-27.822	1.00	0.00	H
ATOM	1859	HD12	LEU A 121	15.292	-36.594	-28.977	1.00	0.00	H
ATOM	1860	HD13	LEU A 121	16.302	-35.147	-29.157	1.00	0.00	H
ATOM	1861	N	ILE A 122	20.070	-37.873	-31.583	1.00	0.00	N
ATOM	1862	CA	ILE A 122	20.992	-38.899	-31.110	1.00	0.00	C
ATOM	1863	C	ILE A 122	20.883	-38.946	-29.584	1.00	0.00	C



ATOM	1864	O	ILE A 122	20.764	-37.905	-28.940	1.00	0.00	O
ATOM	1865	CB	ILE A 122	22.433	-38.619	-31.602	1.00	0.00	C
ATOM	1866	CG1	ILE A 122	22.492	-38.331	-33.123	1.00	0.00	C
ATOM	1867	CG2	ILE A 122	23.350	-39.815	-31.289	1.00	0.00	C
ATOM	1868	CD1	ILE A 122	22.469	-36.837	-33.475	1.00	0.00	C
ATOM	1869	H	ILE A 122	20.258	-36.921	-31.279	1.00	0.00	H
ATOM	1870	HA	ILE A 122	20.682	-39.862	-31.509	1.00	0.00	H
ATOM	1871	HB	ILE A 122	22.827	-37.756	-31.067	1.00	0.00	H
ATOM	1872	HG12	ILE A 122	23.413	-38.741	-33.537	1.00	0.00	H
ATOM	1873	HG13	ILE A 122	21.658	-38.825	-33.618	1.00	0.00	H
ATOM	1874	HG21	ILE A 122	24.365	-39.605	-31.630	1.00	0.00	H
ATOM	1875	HG22	ILE A 122	22.987	-40.711	-31.794	1.00	0.00	H
ATOM	1876	HG23	ILE A 122	23.393	-39.998	-30.217	1.00	0.00	H
ATOM	1877	HD11	ILE A 122	22.604	-36.718	-34.550	1.00	0.00	H
ATOM	1878	HD12	ILE A 122	21.519	-36.385	-33.194	1.00	0.00	H
ATOM	1879	HD13	ILE A 122	23.276	-36.321	-32.957	1.00	0.00	H
ATOM	1880	N	ARG A 123	20.995	-40.127	-28.978	1.00	0.00	N
ATOM	1881	CA	ARG A 123	21.327	-40.252	-27.551	1.00	0.00	C
ATOM	1882	C	ARG A 123	22.633	-41.013	-27.394	1.00	0.00	C
ATOM	1883	O	ARG A 123	22.848	-42.007	-28.090	1.00	0.00	O
ATOM	1884	CB	ARG A 123	20.135	-40.800	-26.743	1.00	0.00	C
ATOM	1885	CG	ARG A 123	19.896	-42.319	-26.839	1.00	0.00	C
ATOM	1886	CD	ARG A 123	20.722	-43.108	-25.810	1.00	0.00	C
ATOM	1887	NE	ARG A 123	20.310	-44.520	-25.709	1.00	0.00	N
ATOM	1888	CZ	ARG A 123	19.320	-44.996	-24.976	1.00	0.00	C
ATOM	1889	NH1	ARG A 123	18.534	-44.232	-24.270	1.00	0.00	N
ATOM	1890	NH2	ARG A 123	19.083	-46.274	-24.973	1.00	0.00	N
ATOM	1891	H	ARG A 123	21.082	-40.948	-29.571	1.00	0.00	H
ATOM	1892	HA	ARG A 123	21.525	-39.254	-27.156	1.00	0.00	H
ATOM	1893	HB2	ARG A 123	20.263	-40.524	-25.695	1.00	0.00	H

ATOM	1894	HB3 ARG A 123	19.234	-40.291	-27.089	1.00	0.00	H
ATOM	1895	HG2 ARG A 123	20.127	-42.665	-27.845	1.00	0.00	H
ATOM	1896	HG3 ARG A 123	18.838	-42.502	-26.646	1.00	0.00	H
ATOM	1897	HD2 ARG A 123	20.610	-42.626	-24.841	1.00	0.00	H
ATOM	1898	HD3 ARG A 123	21.779	-43.078	-26.070	1.00	0.00	H
ATOM	1899	HE ARG A 123	20.950	-45.212	-26.079	1.00	0.00	H
ATOM	1900	HH11 ARG A 123	18.831	-43.285	-24.107	1.00	0.00	H
ATOM	1901	HH12 ARG A 123	17.925	-44.635	-23.583	1.00	0.00	H
ATOM	1902	HH21 ARG A 123	19.667	-46.871	-25.557	1.00	0.00	H
ATOM	1903	HH22 ARG A 123	18.344	-46.658	-24.419	1.00	0.00	H
ATOM	1904	N LEU A 124	23.464	-40.577	-26.456	1.00	0.00	N
ATOM	1905	CA LEU A 124	24.765	-41.167	-26.145	1.00	0.00	C
ATOM	1906	C LEU A 124	24.841	-41.405	-24.633	1.00	0.00	C
ATOM	1907	O LEU A 124	24.603	-40.486	-23.850	1.00	0.00	O
ATOM	1908	CB LEU A 124	25.889	-40.228	-26.633	1.00	0.00	C
ATOM	1909	CG LEU A 124	25.898	-39.898	-28.140	1.00	0.00	C
ATOM	1910	CD1 LEU A 124	26.962	-38.845	-28.450	1.00	0.00	C
ATOM	1911	CD2 LEU A 124	26.195	-41.125	-29.000	1.00	0.00	C
ATOM	1912	H LEU A 124	23.208	-39.736	-25.943	1.00	0.00	H
ATOM	1913	HA LEU A 124	24.871	-42.129	-26.645	1.00	0.00	H
ATOM	1914	HB2 LEU A 124	25.795	-39.289	-26.088	1.00	0.00	H
ATOM	1915	HB3 LEU A 124	26.849	-40.670	-26.369	1.00	0.00	H
ATOM	1916	HG LEU A 124	24.931	-39.489	-28.431	1.00	0.00	H
ATOM	1917	HD11 LEU A 124	26.989	-38.646	-29.522	1.00	0.00	H
ATOM	1918	HD12 LEU A 124	26.719	-37.918	-27.933	1.00	0.00	H
ATOM	1919	HD13 LEU A 124	27.944	-39.195	-28.128	1.00	0.00	H
ATOM	1920	HD21 LEU A 124	27.173	-41.531	-28.740	1.00	0.00	H
ATOM	1921	HD22 LEU A 124	26.193	-40.846	-30.052	1.00	0.00	H
ATOM	1922	HD23 LEU A 124	25.428	-41.880	-28.847	1.00	0.00	H
ATOM	1923	N ALA A 125	25.099	-42.645	-24.214	1.00	0.00	N

ATOM	1924	CA	ALA A 125	25.290	-42.965	-22.801	1.00	0.00	C
ATOM	1925	C	ALA A 125	26.560	-42.286	-22.264	1.00	0.00	C
ATOM	1926	O	ALA A 125	27.632	-42.451	-22.848	1.00	0.00	O
ATOM	1927	CB	ALA A 125	25.332	-44.485	-22.613	1.00	0.00	C
ATOM	1928	H	ALA A 125	25.276	-43.368	-24.899	1.00	0.00	H
ATOM	1929	HA	ALA A 125	24.434	-42.584	-22.252	1.00	0.00	H
ATOM	1930	HB1	ALA A 125	25.383	-44.716	-21.547	1.00	0.00	H
ATOM	1931	HB2	ALA A 125	24.429	-44.938	-23.020	1.00	0.00	H
ATOM	1932	HB3	ALA A 125	26.209	-44.897	-23.110	1.00	0.00	H
ATOM	1933	N	VAL A 126	26.457	-41.559	-21.151	1.00	0.00	N
ATOM	1934	CA	VAL A 126	27.574	-40.805	-20.544	1.00	0.00	C
ATOM	1935	C	VAL A 126	28.640	-41.715	-19.926	1.00	0.00	C
ATOM	1936	O	VAL A 126	29.812	-41.351	-19.890	1.00	0.00	O
ATOM	1937	CB	VAL A 126	27.066	-39.795	-19.494	1.00	0.00	C
ATOM	1938	CG1	VAL A 126	26.022	-38.847	-20.098	1.00	0.00	C
ATOM	1939	CG2	VAL A 126	26.477	-40.468	-18.244	1.00	0.00	C
ATOM	1940	H	VAL A 126	25.541	-41.497	-20.711	1.00	0.00	H
ATOM	1941	HA	VAL A 126	28.072	-40.236	-21.326	1.00	0.00	H
ATOM	1942	HB	VAL A 126	27.913	-39.186	-19.179	1.00	0.00	H
ATOM	1943	HG11	VAL A 126	25.795	-38.059	-19.381	1.00	0.00	H
ATOM	1944	HG12	VAL A 126	26.421	-38.392	-21.003	1.00	0.00	H
ATOM	1945	HG13	VAL A 126	25.104	-39.385	-20.333	1.00	0.00	H
ATOM	1946	HG21	VAL A 126	25.731	-41.211	-18.511	1.00	0.00	H
ATOM	1947	HG22	VAL A 126	26.014	-39.720	-17.601	1.00	0.00	H
ATOM	1948	HG23	VAL A 126	27.271	-40.947	-17.675	1.00	0.00	H
ATOM	1949	N	ARG A 127	28.264	-42.957	-19.596	1.00	0.00	N
ATOM	1950	CA	ARG A 127	29.091	-43.949	-18.894	1.00	0.00	C
ATOM	1951	C	ARG A 127	28.913	-45.341	-19.537	1.00	0.00	C
ATOM	1952	O	ARG A 127	28.294	-46.226	-18.950	1.00	0.00	O
ATOM	1953	CB	ARG A 127	28.709	-43.859	-17.410	1.00	0.00	C

ATOM	1954	CG	ARG A 127	29.694	-44.532	-16.445	1.00	0.00	C
ATOM	1955	CD	ARG A 127	29.337	-44.218	-14.981	1.00	0.00	C
ATOM	1956	NE	ARG A 127	28.027	-44.785	-14.591	1.00	0.00	N
ATOM	1957	CZ	ARG A 127	26.842	-44.205	-14.700	1.00	0.00	C
ATOM	1958	NH1	ARG A 127	26.672	-42.965	-15.050	1.00	0.00	N
ATOM	1959	NH2	ARG A 127	25.764	-44.905	-14.536	1.00	0.00	N
ATOM	1960	H	ARG A 127	27.278	-43.157	-19.683	1.00	0.00	H
ATOM	1961	HA	ARG A 127	30.140	-43.665	-18.979	1.00	0.00	H
ATOM	1962	HB2	ARG A 127	27.711	-44.281	-17.284	1.00	0.00	H
ATOM	1963	HB3	ARG A 127	28.670	-42.803	-17.136	1.00	0.00	H
ATOM	1964	HG2	ARG A 127	29.689	-45.610	-16.603	1.00	0.00	H
ATOM	1965	HG3	ARG A 127	30.698	-44.151	-16.642	1.00	0.00	H
ATOM	1966	HD2	ARG A 127	30.114	-44.641	-14.341	1.00	0.00	H
ATOM	1967	HD3	ARG A 127	29.346	-43.139	-14.828	1.00	0.00	H
ATOM	1968	HE	ARG A 127	28.020	-45.746	-14.308	1.00	0.00	H
ATOM	1969	HH11	ARG A 127	27.463	-42.388	-15.274	1.00	0.00	H
ATOM	1970	HH12	ARG A 127	25.712	-42.688	-15.276	1.00	0.00	H
ATOM	1971	HH21	ARG A 127	25.793	-45.900	-14.511	1.00	0.00	H
ATOM	1972	HH22	ARG A 127	24.901	-44.499	-14.924	1.00	0.00	H
ATOM	1973	N	PRO A 128	29.234	-45.478	-20.837	1.00	0.00	N
ATOM	1974	CA	PRO A 128	28.738	-46.535	-21.723	1.00	0.00	C
ATOM	1975	C	PRO A 128	29.149	-47.935	-21.238	1.00	0.00	C
ATOM	1976	O	PRO A 128	29.228	-48.879	-22.029	1.00	0.00	O
ATOM	1977	CB	PRO A 128	29.303	-46.175	-23.105	1.00	0.00	C
ATOM	1978	CG	PRO A 128	30.610	-45.470	-22.761	1.00	0.00	C
ATOM	1979	CD	PRO A 128	30.194	-44.647	-21.547	1.00	0.00	C
ATOM	1980	HA	PRO A 128	27.650	-46.498	-21.756	1.00	0.00	H
ATOM	1981	HB2	PRO A 128	29.484	-47.038	-23.740	1.00	0.00	H
ATOM	1982	HB3	PRO A 128	28.632	-45.474	-23.607	1.00	0.00	H
ATOM	1983	HG2	PRO A 128	31.365	-46.203	-22.473	1.00	0.00	H

ATOM	1984	HG3 PRO A 128	30.969	-44.856	-23.581	1.00	0.00	H
ATOM	1985	HD2 PRO A 128	29.721	-43.719	-21.871	1.00	0.00	H
ATOM	1986	HD3 PRO A 128	31.060	-44.436	-20.922	1.00	0.00	H
ATOM	1987	H PRO A 128	29.373	-48.095	-20.184	1.00	0.00	H
ATOM	1988	N ASP A 129	22.436	-50.640	-28.124	1.00	0.00	N
ATOM	1989	CA ASP A 129	21.606	-49.436	-28.177	1.00	0.00	C
ATOM	1990	C ASP A 129	21.352	-48.782	-26.806	1.00	0.00	C
ATOM	1991	O ASP A 129	20.647	-47.771	-26.712	1.00	0.00	O
ATOM	1992	CB ASP A 129	20.295	-49.717	-28.923	1.00	0.00	C
ATOM	1993	CG ASP A 129	20.503	-49.899	-30.428	1.00	0.00	C
ATOM	1994	OD1 ASP A 129	21.168	-50.881	-30.805	1.00	0.00	O
ATOM	1995	OD2 ASP A 129	19.705	-49.263	-31.161	1.00	0.00	O
ATOM	1996	HA ASP A 129	22.156	-48.706	-28.763	1.00	0.00	H
ATOM	1997	HB2 ASP A 129	19.829	-50.611	-28.505	1.00	0.00	H
ATOM	1998	HB3 ASP A 129	19.606	-48.885	-28.765	1.00	0.00	H
ATOM	1999	H ASP A 129	22.454	-51.206	-28.976	1.00	0.00	H
ATOM	2000	H ASP A 129	22.090	-51.224	-27.369	1.00	0.00	H
ATOM	2001	N TYR A 130	21.992	-49.277	-25.741	1.00	0.00	N
ATOM	2002	CA TYR A 130	22.263	-48.464	-24.547	1.00	0.00	C
ATOM	2003	C TYR A 130	23.263	-47.350	-24.887	1.00	0.00	C
ATOM	2004	O TYR A 130	22.895	-46.176	-24.920	1.00	0.00	O
ATOM	2005	CB TYR A 130	22.771	-49.347	-23.391	1.00	0.00	C
ATOM	2006	CG TYR A 130	23.259	-48.569	-22.172	1.00	0.00	C
ATOM	2007	CD1 TYR A 130	22.338	-47.886	-21.352	1.00	0.00	C
ATOM	2008	CD2 TYR A 130	24.634	-48.510	-21.866	1.00	0.00	C
ATOM	2009	CE1 TYR A 130	22.785	-47.123	-20.250	1.00	0.00	C
ATOM	2010	CE2 TYR A 130	25.080	-47.762	-20.758	1.00	0.00	C
ATOM	2011	CZ TYR A 130	24.162	-47.061	-19.948	1.00	0.00	C
ATOM	2012	OH TYR A 130	24.632	-46.335	-18.897	1.00	0.00	O
ATOM	2013	H TYR A 130	22.543	-50.110	-25.901	1.00	0.00	H

ATOM	2014	HA	TYR A 130	21.342	-47.983	-24.217	1.00	0.00	H
ATOM	2015	HB2	TYR A 130	21.965	-50.014	-23.078	1.00	0.00	H
ATOM	2016	HB3	TYR A 130	23.587	-49.975	-23.755	1.00	0.00	H
ATOM	2017	HD1	TYR A 130	21.283	-47.942	-21.570	1.00	0.00	H
ATOM	2018	HD2	TYR A 130	25.352	-49.052	-22.468	1.00	0.00	H
ATOM	2019	HE1	TYR A 130	22.081	-46.579	-19.636	1.00	0.00	H
ATOM	2020	HE2	TYR A 130	26.126	-47.727	-20.497	1.00	0.00	H
ATOM	2021	HH	TYR A 130	23.968	-46.063	-18.248	1.00	0.00	H
ATOM	2022	N	ASN A 131	24.436	-47.753	-25.384	1.00	0.00	N
ATOM	2023	CA	ASN A 131	25.605	-46.901	-25.602	1.00	0.00	C
ATOM	2024	C	ASN A 131	25.331	-45.726	-26.552	1.00	0.00	C
ATOM	2025	O	ASN A 131	25.723	-44.598	-26.259	1.00	0.00	O
ATOM	2026	CB	ASN A 131	26.769	-47.771	-26.131	1.00	0.00	C
ATOM	2027	CG	ASN A 131	27.141	-48.939	-25.225	1.00	0.00	C
ATOM	2028	OD1	ASN A 131	26.299	-49.682	-24.752	1.00	0.00	O
ATOM	2029	ND2	ASN A 131	28.402	-49.105	-24.912	1.00	0.00	N
ATOM	2030	H	ASN A 131	24.631	-48.747	-25.325	1.00	0.00	H
ATOM	2031	HA	ASN A 131	25.902	-46.481	-24.641	1.00	0.00	H
ATOM	2032	HB2	ASN A 131	27.643	-47.132	-26.259	1.00	0.00	H
ATOM	2033	HB3	ASN A 131	26.512	-48.180	-27.108	1.00	0.00	H
ATOM	2034	HD21	ASN A 131	29.108	-48.482	-25.253	1.00	0.00	H
ATOM	2035	HD22	ASN A 131	28.594	-49.730	-24.141	1.00	0.00	H
ATOM	2036	N	GLN A 132	24.650	-45.977	-27.672	1.00	0.00	N
ATOM	2037	CA	GLN A 132	24.299	-44.979	-28.686	1.00	0.00	C
ATOM	2038	C	GLN A 132	22.949	-45.342	-29.317	1.00	0.00	C
ATOM	2039	O	GLN A 132	22.684	-46.522	-29.536	1.00	0.00	O
ATOM	2040	CB	GLN A 132	25.379	-44.902	-29.787	1.00	0.00	C
ATOM	2041	CG	GLN A 132	26.811	-44.675	-29.271	1.00	0.00	C
ATOM	2042	CD	GLN A 132	27.807	-44.298	-30.364	1.00	0.00	C
ATOM	2043	OE1	GLN A 132	27.565	-44.420	-31.554	1.00	0.00	O

ATOM	2044	NE2 GLN A 132	28.975	-43.842	-29.978	1.00	0.00	N
ATOM	2045	H GLN A 132	24.312	-46.916	-27.827	1.00	0.00	H
ATOM	2046	HA GLN A 132	24.215	-44.004	-28.212	1.00	0.00	H
ATOM	2047	HB2 GLN A 132	25.115	-44.077	-30.452	1.00	0.00	H
ATOM	2048	HB3 GLN A 132	25.366	-45.824	-30.371	1.00	0.00	H
ATOM	2049	HG2 GLN A 132	27.173	-45.578	-28.781	1.00	0.00	H
ATOM	2050	HG3 GLN A 132	26.801	-43.873	-28.536	1.00	0.00	H
ATOM	2051	HE21 GLN A 132	29.169	-43.718	-28.989	1.00	0.00	H
ATOM	2052	HE22 GLN A 132	29.648	-43.550	-30.675	1.00	0.00	H
ATOM	2053	N LYS A 133	22.153	-44.352	-29.736	1.00	0.00	N
ATOM	2054	CA LYS A 133	21.011	-44.567	-30.645	1.00	0.00	C
ATOM	2055	C LYS A 133	20.738	-43.321	-31.484	1.00	0.00	C
ATOM	2056	O LYS A 133	20.755	-42.215	-30.952	1.00	0.00	O
ATOM	2057	CB LYS A 133	19.764	-45.009	-29.854	1.00	0.00	C
ATOM	2058	CG LYS A 133	18.697	-45.632	-30.765	1.00	0.00	C
ATOM	2059	CD LYS A 133	17.467	-46.066	-29.954	1.00	0.00	C
ATOM	2060	CE LYS A 133	16.652	-47.133	-30.698	1.00	0.00	C
ATOM	2061	NZ LYS A 133	17.302	-48.464	-30.638	1.00	0.00	N
ATOM	2062	H LYS A 133	22.411	-43.397	-29.494	1.00	0.00	H
ATOM	2063	HA LYS A 133	21.283	-45.377	-31.326	1.00	0.00	H
ATOM	2064	HB2 LYS A 133	19.338	-44.155	-29.327	1.00	0.00	H
ATOM	2065	HB3 LYS A 133	20.060	-45.760	-29.119	1.00	0.00	H
ATOM	2066	HG2 LYS A 133	18.376	-44.909	-31.516	1.00	0.00	H
ATOM	2067	HG3 LYS A 133	19.136	-46.490	-31.276	1.00	0.00	H
ATOM	2068	HD2 LYS A 133	16.839	-45.187	-29.795	1.00	0.00	H
ATOM	2069	HD3 LYS A 133	17.773	-46.449	-28.977	1.00	0.00	H
ATOM	2070	HE2 LYS A 133	15.658	-47.188	-30.249	1.00	0.00	H
ATOM	2071	HE3 LYS A 133	16.541	-46.820	-31.741	1.00	0.00	H
ATOM	2072	HZ1 LYS A 133	16.801	-49.178	-31.143	1.00	0.00	H
ATOM	2073	HZ2 LYS A 133	17.484	-48.776	-29.693	1.00	0.00	H

ATOM	2074	HZ3	LYS	A	133	18.233	-48.448	-31.073	1.00	0.00	H
ATOM	2075	N	TYR	A	134	20.411	-43.516	-32.760	1.00	0.00	N
ATOM	2076	CA	TYR	A	134	19.962	-42.474	-33.692	1.00	0.00	C
ATOM	2077	C	TYR	A	134	18.449	-42.582	-33.945	1.00	0.00	C
ATOM	2078	O	TYR	A	134	17.930	-43.688	-34.102	1.00	0.00	O
ATOM	2079	CB	TYR	A	134	20.763	-42.612	-34.997	1.00	0.00	C
ATOM	2080	CG	TYR	A	134	20.545	-41.495	-36.000	1.00	0.00	C
ATOM	2081	CD1	TYR	A	134	19.536	-41.594	-36.980	1.00	0.00	C
ATOM	2082	CD2	TYR	A	134	21.367	-40.354	-35.955	1.00	0.00	C
ATOM	2083	CE1	TYR	A	134	19.352	-40.551	-37.911	1.00	0.00	C
ATOM	2084	CE2	TYR	A	134	21.163	-39.295	-36.859	1.00	0.00	C
ATOM	2085	CZ	TYR	A	134	20.167	-39.401	-37.851	1.00	0.00	C
ATOM	2086	OH	TYR	A	134	19.969	-38.379	-38.723	1.00	0.00	O
ATOM	2087	H	TYR	A	134	20.363	-44.465	-33.092	1.00	0.00	H
ATOM	2088	HA	TYR	A	134	20.168	-41.489	-33.270	1.00	0.00	H
ATOM	2089	HB2	TYR	A	134	20.511	-43.563	-35.470	1.00	0.00	H
ATOM	2090	HB3	TYR	A	134	21.825	-42.646	-34.753	1.00	0.00	H
ATOM	2091	HD1	TYR	A	134	18.906	-42.472	-37.022	1.00	0.00	H
ATOM	2092	HD2	TYR	A	134	22.161	-40.291	-35.224	1.00	0.00	H
ATOM	2093	HE1	TYR	A	134	18.586	-40.614	-38.668	1.00	0.00	H
ATOM	2094	HE2	TYR	A	134	21.772	-38.405	-36.805	1.00	0.00	H
ATOM	2095	HH	TYR	A	134	20.019	-37.528	-38.263	1.00	0.00	H
ATOM	2096	N	ILE	A	135	17.752	-41.449	-34.045	1.00	0.00	N
ATOM	2097	CA	ILE	A	135	16.310	-41.346	-34.315	1.00	0.00	C
ATOM	2098	C	ILE	A	135	16.084	-40.234	-35.346	1.00	0.00	C
ATOM	2099	O	ILE	A	135	16.319	-39.065	-35.051	1.00	0.00	O
ATOM	2100	CB	ILE	A	135	15.519	-41.072	-33.005	1.00	0.00	C
ATOM	2101	CG1	ILE	A	135	15.700	-42.219	-31.981	1.00	0.00	C
ATOM	2102	CG2	ILE	A	135	14.023	-40.840	-33.305	1.00	0.00	C
ATOM	2103	CD1	ILE	A	135	15.024	-41.976	-30.624	1.00	0.00	C



ATOM	2104	H	ILE A 135	18.227	-40.579	-33.816	1.00	0.00	H
ATOM	2105	HA	ILE A 135	15.952	-42.285	-34.738	1.00	0.00	H
ATOM	2106	HB	ILE A 135	15.911	-40.157	-32.556	1.00	0.00	H
ATOM	2107	HG12	ILE A 135	15.318	-43.148	-32.406	1.00	0.00	H
ATOM	2108	HG13	ILE A 135	16.762	-42.351	-31.778	1.00	0.00	H
ATOM	2109	HD11	ILE A 135	15.334	-42.751	-29.924	1.00	0.00	H
ATOM	2110	HD12	ILE A 135	13.939	-42.017	-30.722	1.00	0.00	H
ATOM	2111	HD13	ILE A 135	15.320	-41.003	-30.230	1.00	0.00	H
ATOM	2112	HG21	ILE A 135	13.889	-39.995	-33.979	1.00	0.00	H
ATOM	2113	HG22	ILE A 135	13.483	-40.591	-32.392	1.00	0.00	H
ATOM	2114	HG23	ILE A 135	13.582	-41.730	-33.755	1.00	0.00	H
ATOM	2115	N	ALA A 136	15.507	-40.564	-36.504	1.00	0.00	N
ATOM	2116	CA	ALA A 136	14.855	-39.575	-37.366	1.00	0.00	C
ATOM	2117	C	ALA A 136	13.444	-39.277	-36.826	1.00	0.00	C
ATOM	2118	O	ALA A 136	12.671	-40.205	-36.577	1.00	0.00	O
ATOM	2119	CB	ALA A 136	14.820	-40.109	-38.802	1.00	0.00	C
ATOM	2120	H	ALA A 136	15.260	-41.529	-36.651	1.00	0.00	H
ATOM	2121	HA	ALA A 136	15.431	-38.647	-37.364	1.00	0.00	H
ATOM	2122	HB1	ALA A 136	14.353	-39.370	-39.454	1.00	0.00	H
ATOM	2123	HB2	ALA A 136	15.836	-40.298	-39.152	1.00	0.00	H
ATOM	2124	HB3	ALA A 136	14.243	-41.034	-38.845	1.00	0.00	H
ATOM	2125	N	ILE A 137	13.132	-38.008	-36.556	1.00	0.00	N
ATOM	2126	CA	ILE A 137	11.854	-37.620	-35.944	1.00	0.00	C
ATOM	2127	C	ILE A 137	10.745	-37.585	-37.000	1.00	0.00	C
ATOM	2128	O	ILE A 137	10.852	-36.910	-38.018	1.00	0.00	O
ATOM	2129	CB	ILE A 137	12.017	-36.292	-35.178	1.00	0.00	C
ATOM	2130	CG1	ILE A 137	12.875	-36.523	-33.909	1.00	0.00	C
ATOM	2131	CG2	ILE A 137	10.665	-35.691	-34.762	1.00	0.00	C
ATOM	2132	CD1	ILE A 137	13.977	-35.475	-33.773	1.00	0.00	C
ATOM	2133	H	ILE A 137	13.774	-37.268	-36.828	1.00	0.00	H

ATOM	2134	HA	ILE A 137	11.579	-38.379	-35.211	1.00	0.00	H
ATOM	2135	HB	ILE A 137	12.512	-35.577	-35.839	1.00	0.00	H
ATOM	2136	HG12	ILE A 137	13.355	-37.502	-33.931	1.00	0.00	H
ATOM	2137	HG13	ILE A 137	12.246	-36.494	-33.016	1.00	0.00	H
ATOM	2138	HD11	ILE A 137	14.423	-35.551	-32.784	1.00	0.00	H
ATOM	2139	HD12	ILE A 137	14.739	-35.651	-34.526	1.00	0.00	H
ATOM	2140	HD13	ILE A 137	13.564	-34.483	-33.918	1.00	0.00	H
ATOM	2141	HG21	ILE A 137	10.103	-35.377	-35.642	1.00	0.00	H
ATOM	2142	HG22	ILE A 137	10.829	-34.807	-34.146	1.00	0.00	H
ATOM	2143	HG23	ILE A 137	10.085	-36.411	-34.182	1.00	0.00	H
ATOM	2144	N	THR A 138	9.645	-38.290	-36.726	1.00	0.00	N
ATOM	2145	CA	THR A 138	8.498	-38.440	-37.644	1.00	0.00	C
ATOM	2146	C	THR A 138	7.315	-37.520	-37.324	1.00	0.00	C
ATOM	2147	O	THR A 138	6.333	-37.513	-38.065	1.00	0.00	O
ATOM	2148	CB	THR A 138	8.022	-39.900	-37.684	1.00	0.00	C
ATOM	2149	OG1	THR A 138	7.709	-40.357	-36.387	1.00	0.00	O
ATOM	2150	CG2	THR A 138	9.081	-40.845	-38.253	1.00	0.00	C
ATOM	2151	H	THR A 138	9.632	-38.831	-35.875	1.00	0.00	H
ATOM	2152	HA	THR A 138	8.816	-38.175	-38.653	1.00	0.00	H
ATOM	2153	HB	THR A 138	7.132	-39.969	-38.309	1.00	0.00	H
ATOM	2154	HG21	THR A 138	8.679	-41.857	-38.302	1.00	0.00	H
ATOM	2155	HG22	THR A 138	9.346	-40.526	-39.261	1.00	0.00	H
ATOM	2156	HG23	THR A 138	9.980	-40.840	-37.635	1.00	0.00	H
ATOM	2157	HG1	THR A 138	8.436	-40.916	-36.102	1.00	0.00	H
ATOM	2158	N	LYS A 139	7.394	-36.724	-36.247	1.00	0.00	N
ATOM	2159	CA	LYS A 139	6.368	-35.755	-35.831	1.00	0.00	C
ATOM	2160	C	LYS A 139	7.001	-34.519	-35.196	1.00	0.00	C
ATOM	2161	O	LYS A 139	7.706	-34.636	-34.194	1.00	0.00	O
ATOM	2162	CB	LYS A 139	5.399	-36.390	-34.824	1.00	0.00	C
ATOM	2163	CG	LYS A 139	4.450	-37.429	-35.435	1.00	0.00	C

ATOM	2164	CD	LYS A 139	3.465	-37.888	-34.357	1.00	0.00	C
ATOM	2165	CE	LYS A 139	2.395	-38.813	-34.930	1.00	0.00	C
ATOM	2166	NZ	LYS A 139	1.403	-39.149	-33.879	1.00	0.00	N
ATOM	2167	H	LYS A 139	8.243	-36.764	-35.700	1.00	0.00	H
ATOM	2168	HA	LYS A 139	5.802	-35.432	-36.707	1.00	0.00	H
ATOM	2169	HB2	LYS A 139	5.976	-36.851	-34.021	1.00	0.00	H
ATOM	2170	HB3	LYS A 139	4.792	-35.590	-34.392	1.00	0.00	H
ATOM	2171	HG2	LYS A 139	3.903	-36.977	-36.263	1.00	0.00	H
ATOM	2172	HG3	LYS A 139	5.015	-38.289	-35.797	1.00	0.00	H
ATOM	2173	HD2	LYS A 139	4.016	-38.421	-33.582	1.00	0.00	H
ATOM	2174	HD3	LYS A 139	2.983	-37.010	-33.920	1.00	0.00	H
ATOM	2175	HE2	LYS A 139	1.906	-38.303	-35.766	1.00	0.00	H
ATOM	2176	HE3	LYS A 139	2.879	-39.716	-35.316	1.00	0.00	H
ATOM	2177	HZ1	LYS A 139	0.676	-39.746	-34.248	1.00	0.00	H
ATOM	2178	HZ2	LYS A 139	0.983	-38.298	-33.521	1.00	0.00	H
ATOM	2179	HZ3	LYS A 139	1.858	-39.619	-33.107	1.00	0.00	H
ATOM	2180	N	VAL A 140	6.590	-33.344	-35.672	1.00	0.00	N
ATOM	2181	CA	VAL A 140	6.974	-32.042	-35.118	1.00	0.00	C
ATOM	2182	C	VAL A 140	5.751	-31.125	-35.115	1.00	0.00	C
ATOM	2183	O	VAL A 140	5.136	-30.895	-36.155	1.00	0.00	O
ATOM	2184	CB	VAL A 140	8.144	-31.406	-35.897	1.00	0.00	C
ATOM	2185	CG1	VAL A 140	8.675	-30.189	-35.138	1.00	0.00	C
ATOM	2186	CG2	VAL A 140	9.329	-32.359	-36.109	1.00	0.00	C
ATOM	2187	H	VAL A 140	5.960	-33.334	-36.459	1.00	0.00	H
ATOM	2188	HA	VAL A 140	7.300	-32.185	-34.091	1.00	0.00	H
ATOM	2189	HB	VAL A 140	7.791	-31.083	-36.876	1.00	0.00	H
ATOM	2190	HG11	VAL A 140	9.022	-30.476	-34.147	1.00	0.00	H
ATOM	2191	HG12	VAL A 140	7.900	-29.432	-35.038	1.00	0.00	H
ATOM	2192	HG13	VAL A 140	9.506	-29.769	-35.702	1.00	0.00	H
ATOM	2193	HG21	VAL A 140	9.035	-33.188	-36.753	1.00	0.00	H

ATOM	2194	HG22 VAL A 140	10.142	-31.831	-36.607	1.00	0.00	H
ATOM	2195	HG23 VAL A 140	9.677	-32.746	-35.152	1.00	0.00	H
ATOM	2196	N GLU A 141	5.341	-30.653	-33.942	1.00	0.00	N
ATOM	2197	CA GLU A 141	4.078	-29.939	-33.729	1.00	0.00	C
ATOM	2198	C GLU A 141	4.362	-28.475	-33.356	1.00	0.00	C
ATOM	2199	O GLU A 141	4.981	-28.189	-32.332	1.00	0.00	O
ATOM	2200	CB GLU A 141	3.234	-30.676	-32.673	1.00	0.00	C
ATOM	2201	CG GLU A 141	2.808	-32.075	-33.166	1.00	0.00	C
ATOM	2202	CD GLU A 141	2.043	-32.922	-32.135	1.00	0.00	C
ATOM	2203	OE1 GLU A 141	2.082	-32.580	-30.929	1.00	0.00	O
ATOM	2204	OE2 GLU A 141	1.618	-34.032	-32.535	1.00	0.00	O
ATOM	2205	H GLU A 141	5.866	-30.921	-33.112	1.00	0.00	H
ATOM	2206	HA GLU A 141	3.498	-29.941	-34.652	1.00	0.00	H
ATOM	2207	HB2 GLU A 141	3.821	-30.764	-31.762	1.00	0.00	H
ATOM	2208	HB3 GLU A 141	2.340	-30.087	-32.460	1.00	0.00	H
ATOM	2209	HG2 GLU A 141	2.183	-31.945	-34.053	1.00	0.00	H
ATOM	2210	HG3 GLU A 141	3.694	-32.638	-33.465	1.00	0.00	H
ATOM	2211	N ARG A 142	4.044	-27.543	-34.268	1.00	0.00	N
ATOM	2212	CA ARG A 142	4.571	-26.161	-34.235	1.00	0.00	C
ATOM	2213	C ARG A 142	3.576	-25.054	-34.610	1.00	0.00	C
ATOM	2214	O ARG A 142	3.972	-23.962	-35.010	1.00	0.00	O
ATOM	2215	CB ARG A 142	5.925	-26.076	-34.971	1.00	0.00	C
ATOM	2216	CG ARG A 142	5.940	-26.320	-36.490	1.00	0.00	C
ATOM	2217	CD ARG A 142	5.754	-27.792	-36.899	1.00	0.00	C
ATOM	2218	NE ARG A 142	6.327	-28.106	-38.221	1.00	0.00	N
ATOM	2219	CZ ARG A 142	6.017	-27.592	-39.395	1.00	0.00	C
ATOM	2220	NH1 ARG A 142	5.168	-26.627	-39.572	1.00	0.00	N
ATOM	2221	NH2 ARG A 142	6.628	-27.982	-40.457	1.00	0.00	N
ATOM	2222	H ARG A 142	3.613	-27.868	-35.120	1.00	0.00	H
ATOM	2223	HA ARG A 142	4.797	-25.935	-33.190	1.00	0.00	H

ATOM	2224	HB2 ARG A 142	6.324	-25.079	-34.802	1.00	0.00	H
ATOM	2225	HB3 ARG A 142	6.623	-26.772	-34.506	1.00	0.00	H
ATOM	2226	HG2 ARG A 142	6.910	-25.996	-36.868	1.00	0.00	H
ATOM	2227	HG3 ARG A 142	5.173	-25.709	-36.964	1.00	0.00	H
ATOM	2228	HD2 ARG A 142	6.254	-28.422	-36.168	1.00	0.00	H
ATOM	2229	HD3 ARG A 142	4.697	-28.053	-36.888	1.00	0.00	H
ATOM	2230	HE ARG A 142	7.083	-28.795	-38.268	1.00	0.00	H
ATOM	2231	HH11 ARG A 142	4.839	-26.086	-38.799	1.00	0.00	H
ATOM	2232	HH12 ARG A 142	5.221	-26.165	-40.462	1.00	0.00	H
ATOM	2233	HH21 ARG A 142	7.363	-28.665	-40.273	1.00	0.00	H
ATOM	2234	HH22 ARG A 142	6.716	-27.339	-41.232	1.00	0.00	H
ATOM	2235	N GLY A 143	2.279	-25.299	-34.425	1.00	0.00	N
ATOM	2236	CA GLY A 143	1.241	-24.266	-34.534	1.00	0.00	C
ATOM	2237	C GLY A 143	1.241	-23.542	-35.888	1.00	0.00	C
ATOM	2238	O GLY A 143	1.014	-24.167	-36.921	1.00	0.00	O
ATOM	2239	H GLY A 143	2.026	-26.199	-34.050	1.00	0.00	H
ATOM	2240	HA2 GLY A 143	0.262	-24.725	-34.403	1.00	0.00	H
ATOM	2241	HA3 GLY A 143	1.380	-23.537	-33.736	1.00	0.00	H
ATOM	2242	N LYS A 144	1.447	-22.216	-35.879	1.00	0.00	N
ATOM	2243	CA LYS A 144	1.487	-21.372	-37.091	1.00	0.00	C
ATOM	2244	C LYS A 144	2.871	-21.250	-37.750	1.00	0.00	C
ATOM	2245	O LYS A 144	2.976	-20.586	-38.779	1.00	0.00	O
ATOM	2246	CB LYS A 144	0.877	-19.984	-36.784	1.00	0.00	C
ATOM	2247	CG LYS A 144	-0.319	-19.627	-37.686	1.00	0.00	C
ATOM	2248	CD LYS A 144	0.033	-19.432	-39.171	1.00	0.00	C
ATOM	2249	CE LYS A 144	-1.245	-19.149	-39.970	1.00	0.00	C
ATOM	2250	NZ LYS A 144	-0.968	-18.970	-41.415	1.00	0.00	N
ATOM	2251	H LYS A 144	1.653	-21.781	-34.990	1.00	0.00	H
ATOM	2252	HA LYS A 144	0.868	-21.864	-37.838	1.00	0.00	H
ATOM	2253	HB2 LYS A 144	0.523	-19.957	-35.750	1.00	0.00	H

ATOM	2254	HB3 LYS A 144	1.640	-19.206	-36.875	1.00	0.00	H
ATOM	2255	HG2 LYS A 144	-1.067	-20.415	-37.597	1.00	0.00	H
ATOM	2256	HG3 LYS A 144	-0.761	-18.701	-37.314	1.00	0.00	H
ATOM	2257	HD2 LYS A 144	0.732	-18.598	-39.273	1.00	0.00	H
ATOM	2258	HD3 LYS A 144	0.501	-20.337	-39.561	1.00	0.00	H
ATOM	2259	HE2 LYS A 144	-1.932	-19.987	-39.826	1.00	0.00	H
ATOM	2260	HE3 LYS A 144	-1.719	-18.246	-39.573	1.00	0.00	H
ATOM	2261	HZ1 LYS A 144	-0.380	-19.695	-41.794	1.00	0.00	H
ATOM	2262	HZ2 LYS A 144	-0.503	-18.074	-41.592	1.00	0.00	H
ATOM	2263	HZ3 LYS A 144	-1.813	-18.886	-41.959	1.00	0.00	H
ATOM	2264	N TYR A 145	3.925	-21.834	-37.176	1.00	0.00	N
ATOM	2265	CA TYR A 145	5.253	-21.852	-37.800	1.00	0.00	C
ATOM	2266	C TYR A 145	5.272	-22.804	-38.999	1.00	0.00	C
ATOM	2267	O TYR A 145	4.770	-23.925	-38.927	1.00	0.00	O
ATOM	2268	CB TYR A 145	6.342	-22.182	-36.769	1.00	0.00	C
ATOM	2269	CG TYR A 145	6.509	-21.056	-35.773	1.00	0.00	C
ATOM	2270	CD1 TYR A 145	5.715	-21.007	-34.613	1.00	0.00	C
ATOM	2271	CD2 TYR A 145	7.365	-19.982	-36.079	1.00	0.00	C
ATOM	2272	CE1 TYR A 145	5.729	-19.858	-33.800	1.00	0.00	C
ATOM	2273	CE2 TYR A 145	7.389	-18.837	-35.265	1.00	0.00	C
ATOM	2274	CZ TYR A 145	6.543	-18.758	-34.145	1.00	0.00	C
ATOM	2275	OH TYR A 145	6.492	-17.603	-33.440	1.00	0.00	O
ATOM	2276	H TYR A 145	3.782	-22.425	-36.368	1.00	0.00	H
ATOM	2277	HA TYR A 145	5.461	-20.851	-38.182	1.00	0.00	H
ATOM	2278	HB2 TYR A 145	6.094	-23.104	-36.249	1.00	0.00	H
ATOM	2279	HB3 TYR A 145	7.288	-22.332	-37.288	1.00	0.00	H
ATOM	2280	HD1 TYR A 145	5.060	-21.831	-34.367	1.00	0.00	H
ATOM	2281	HD2 TYR A 145	7.955	-20.007	-36.979	1.00	0.00	H
ATOM	2282	HE1 TYR A 145	5.096	-19.805	-32.928	1.00	0.00	H
ATOM	2283	HE2 TYR A 145	8.007	-17.991	-35.517	1.00	0.00	H

ATOM	2284	HH	TYR	A 145	5.833	-17.687	-32.700	1.00	0.00	H
ATOM	2285	N	ASP	A 146	5.869	-22.350	-40.102	1.00	0.00	N
ATOM	2286	CA	ASP	A 146	6.030	-23.118	-41.346	1.00	0.00	C
ATOM	2287	C	ASP	A 146	6.996	-24.298	-41.150	1.00	0.00	C
ATOM	2288	O	ASP	A 146	6.691	-25.415	-41.581	1.00	0.00	O
ATOM	2289	CB	ASP	A 146	6.495	-22.127	-42.428	1.00	0.00	C
ATOM	2290	CG	ASP	A 146	6.955	-22.724	-43.769	1.00	0.00	C
ATOM	2291	OD1	ASP	A 146	7.858	-23.583	-43.718	1.00	0.00	O
ATOM	2292	OD2	ASP	A 146	6.922	-21.945	-44.747	1.00	0.00	O
ATOM	2293	H	ASP	A 146	6.360	-21.466	-40.035	1.00	0.00	H
ATOM	2294	HA	ASP	A 146	5.067	-23.530	-41.647	1.00	0.00	H
ATOM	2295	HB2	ASP	A 146	5.683	-21.425	-42.616	1.00	0.00	H
ATOM	2296	HB3	ASP	A 146	7.331	-21.560	-42.018	1.00	0.00	H
ATOM	2297	N	LYS	A 147	8.019	-24.088	-40.310	1.00	0.00	N
ATOM	2298	CA	LYS	A 147	9.024	-25.069	-39.881	1.00	0.00	C
ATOM	2299	C	LYS	A 147	9.731	-24.635	-38.586	1.00	0.00	C
ATOM	2300	O	LYS	A 147	9.635	-23.466	-38.202	1.00	0.00	O
ATOM	2301	CB	LYS	A 147	10.021	-25.317	-41.030	1.00	0.00	C
ATOM	2302	CG	LYS	A 147	10.678	-24.031	-41.555	1.00	0.00	C
ATOM	2303	CD	LYS	A 147	11.762	-24.261	-42.610	1.00	0.00	C
ATOM	2304	CE	LYS	A 147	11.314	-24.966	-43.894	1.00	0.00	C
ATOM	2305	NZ	LYS	A 147	10.284	-24.214	-44.643	1.00	0.00	N
ATOM	2306	H	LYS	A 147	8.125	-23.148	-39.944	1.00	0.00	H
ATOM	2307	HA	LYS	A 147	8.518	-26.008	-39.661	1.00	0.00	H
ATOM	2308	HB2	LYS	A 147	9.499	-25.817	-41.847	1.00	0.00	H
ATOM	2309	HB3	LYS	A 147	10.803	-25.979	-40.663	1.00	0.00	H
ATOM	2310	HG2	LYS	A 147	9.925	-23.356	-41.962	1.00	0.00	H
ATOM	2311	HG3	LYS	A 147	11.161	-23.550	-40.713	1.00	0.00	H
ATOM	2312	HD2	LYS	A 147	12.206	-23.300	-42.868	1.00	0.00	H
ATOM	2313	HD3	LYS	A 147	12.532	-24.871	-42.149	1.00	0.00	H

ATOM	2314	HE2 LYS A 147	12.195	-25.084	-44.529	1.00	0.00	H
ATOM	2315	HE3 LYS A 147	10.945	-25.964	-43.643	1.00	0.00	H
ATOM	2316	HZ1 LYS A 147	10.019	-24.687	-45.491	1.00	0.00	H
ATOM	2317	HZ2 LYS A 147	10.584	-23.277	-44.886	1.00	0.00	H
ATOM	2318	HZ3 LYS A 147	9.424	-24.097	-44.098	1.00	0.00	H
ATOM	2319	N VAL A 148	10.462	-25.542	-37.933	1.00	0.00	N
ATOM	2320	CA VAL A 148	11.216	-25.325	-36.673	1.00	0.00	C
ATOM	2321	C VAL A 148	12.532	-26.126	-36.630	1.00	0.00	C
ATOM	2322	O VAL A 148	12.715	-27.076	-37.388	1.00	0.00	O
ATOM	2323	CB VAL A 148	10.369	-25.668	-35.428	1.00	0.00	C
ATOM	2324	CG1 VAL A 148	9.206	-24.701	-35.199	1.00	0.00	C
ATOM	2325	CG2 VAL A 148	9.812	-27.091	-35.480	1.00	0.00	C
ATOM	2326	H VAL A 148	10.440	-26.496	-38.303	1.00	0.00	H
ATOM	2327	HA VAL A 148	11.491	-24.275	-36.608	1.00	0.00	H
ATOM	2328	HB VAL A 148	11.008	-25.600	-34.548	1.00	0.00	H
ATOM	2329	HG11 VAL A 148	9.588	-23.726	-34.915	1.00	0.00	H
ATOM	2330	HG12 VAL A 148	8.584	-24.612	-36.085	1.00	0.00	H
ATOM	2331	HG13 VAL A 148	8.597	-25.057	-34.376	1.00	0.00	H
ATOM	2332	HG21 VAL A 148	9.257	-27.310	-34.569	1.00	0.00	H
ATOM	2333	HG22 VAL A 148	10.636	-27.800	-35.566	1.00	0.00	H
ATOM	2334	HG23 VAL A 148	9.150	-27.217	-36.338	1.00	0.00	H
ATOM	2335	N MET A 149	13.474	-25.744	-35.757	1.00	0.00	N
ATOM	2336	CA MET A 149	14.831	-26.317	-35.710	1.00	0.00	C
ATOM	2337	C MET A 149	15.505	-26.168	-34.325	1.00	0.00	C
ATOM	2338	O MET A 149	15.299	-25.136	-33.683	1.00	0.00	O
ATOM	2339	CB MET A 149	15.657	-25.606	-36.796	1.00	0.00	C
ATOM	2340	CG MET A 149	16.999	-26.261	-37.104	1.00	0.00	C
ATOM	2341	SD MET A 149	18.024	-25.355	-38.283	1.00	0.00	S
ATOM	2342	CE MET A 149	18.574	-23.966	-37.257	1.00	0.00	C
ATOM	2343	H MET A 149	13.302	-24.907	-35.208	1.00	0.00	H



ATOM	2344	HA	MET A 149	14.758	-27.374	-35.956	1.00	0.00	H
ATOM	2345	HB2	MET A 149	15.092	-25.600	-37.727	1.00	0.00	H
ATOM	2346	HB3	MET A 149	15.822	-24.574	-36.492	1.00	0.00	H
ATOM	2347	HG2	MET A 149	16.790	-27.244	-37.525	1.00	0.00	H
ATOM	2348	HG3	MET A 149	17.573	-26.388	-36.191	1.00	0.00	H
ATOM	2349	HE1	MET A 149	19.254	-23.339	-37.832	1.00	0.00	H
ATOM	2350	HE2	MET A 149	19.097	-24.346	-36.381	1.00	0.00	H
ATOM	2351	HE3	MET A 149	17.719	-23.370	-36.939	1.00	0.00	H
ATOM	2352	N	PRO A 150	16.368	-27.107	-33.872	1.00	0.00	N
ATOM	2353	CA	PRO A 150	17.294	-26.876	-32.751	1.00	0.00	C
ATOM	2354	C	PRO A 150	18.264	-25.722	-33.045	1.00	0.00	C
ATOM	2355	O	PRO A 150	18.670	-25.519	-34.189	1.00	0.00	O
ATOM	2356	CB	PRO A 150	18.069	-28.187	-32.574	1.00	0.00	C
ATOM	2357	CG	PRO A 150	18.061	-28.772	-33.985	1.00	0.00	C
ATOM	2358	CD	PRO A 150	16.663	-28.402	-34.473	1.00	0.00	C
ATOM	2359	HA	PRO A 150	16.737	-26.654	-31.840	1.00	0.00	H
ATOM	2360	HB2	PRO A 150	19.085	-28.025	-32.216	1.00	0.00	H
ATOM	2361	HB3	PRO A 150	17.527	-28.841	-31.893	1.00	0.00	H
ATOM	2362	HG2	PRO A 150	18.223	-29.849	-33.990	1.00	0.00	H
ATOM	2363	HG3	PRO A 150	18.813	-28.274	-34.600	1.00	0.00	H
ATOM	2364	HD2	PRO A 150	16.654	-28.371	-35.559	1.00	0.00	H
ATOM	2365	HD3	PRO A 150	15.941	-29.136	-34.113	1.00	0.00	H
ATOM	2366	N	TYR A 151	18.590	-24.917	-32.031	1.00	0.00	N
ATOM	2367	CA	TYR A 151	19.341	-23.674	-32.233	1.00	0.00	C
ATOM	2368	C	TYR A 151	20.016	-23.186	-30.941	1.00	0.00	C
ATOM	2369	O	TYR A 151	19.713	-22.114	-30.419	1.00	0.00	O
ATOM	2370	CB	TYR A 151	18.403	-22.623	-32.868	1.00	0.00	C
ATOM	2371	CG	TYR A 151	19.048	-21.560	-33.743	1.00	0.00	C
ATOM	2372	CD1	TYR A 151	18.568	-20.241	-33.676	1.00	0.00	C
ATOM	2373	CD2	TYR A 151	19.979	-21.910	-34.745	1.00	0.00	C

ATOM	2374	CE1 TYR A 151	18.960	-19.297	-34.640	1.00	0.00	C
ATOM	2375	CE2 TYR A 151	20.447	-20.939	-35.653	1.00	0.00	C
ATOM	2376	CZ TYR A 151	19.924	-19.630	-35.610	1.00	0.00	C
ATOM	2377	OH TYR A 151	20.328	-18.683	-36.497	1.00	0.00	O
ATOM	2378	H TYR A 151	18.203	-25.107	-31.111	1.00	0.00	H
ATOM	2379	HA TYR A 151	20.143	-23.896	-32.934	1.00	0.00	H
ATOM	2380	HB2 TYR A 151	17.689	-23.134	-33.513	1.00	0.00	H
ATOM	2381	HB3 TYR A 151	17.809	-22.150	-32.085	1.00	0.00	H
ATOM	2382	HD1 TYR A 151	17.850	-19.967	-32.915	1.00	0.00	H
ATOM	2383	HD2 TYR A 151	20.312	-22.934	-34.848	1.00	0.00	H
ATOM	2384	HE1 TYR A 151	18.510	-18.323	-34.653	1.00	0.00	H
ATOM	2385	HE2 TYR A 151	21.162	-21.202	-36.419	1.00	0.00	H
ATOM	2386	HH TYR A 151	19.667	-17.995	-36.601	1.00	0.00	H
ATOM	2387	N GLY A 152	20.890	-24.009	-30.359	1.00	0.00	N
ATOM	2388	CA GLY A 152	21.552	-23.673	-29.097	1.00	0.00	C
ATOM	2389	C GLY A 152	22.239	-24.860	-28.426	1.00	0.00	C
ATOM	2390	O GLY A 152	21.687	-25.952	-28.480	1.00	0.00	O
ATOM	2391	H GLY A 152	21.040	-24.929	-30.754	1.00	0.00	H
ATOM	2392	HA2 GLY A 152	22.258	-22.859	-29.262	1.00	0.00	H
ATOM	2393	HA3 GLY A 152	20.781	-23.339	-28.416	1.00	0.00	H
ATOM	2394	N PRO A 153	23.405	-24.702	-27.776	1.00	0.00	N
ATOM	2395	CA PRO A 153	24.228	-25.843	-27.369	1.00	0.00	C
ATOM	2396	C PRO A 153	23.640	-26.672	-26.212	1.00	0.00	C
ATOM	2397	O PRO A 153	23.677	-27.905	-26.268	1.00	0.00	O
ATOM	2398	CB PRO A 153	25.579	-25.225	-27.000	1.00	0.00	C
ATOM	2399	CG PRO A 153	25.225	-23.812	-26.537	1.00	0.00	C
ATOM	2400	CD PRO A 153	24.061	-23.444	-27.457	1.00	0.00	C
ATOM	2401	HA PRO A 153	24.365	-26.512	-28.219	1.00	0.00	H
ATOM	2402	HB2 PRO A 153	26.205	-25.169	-27.891	1.00	0.00	H
ATOM	2403	HB3 PRO A 153	26.083	-25.789	-26.220	1.00	0.00	H

ATOM	2404	HG2 PRO A 153	24.885	-23.833	-25.499	1.00	0.00	H
ATOM	2405	HG3 PRO A 153	26.064	-23.127	-26.650	1.00	0.00	H
ATOM	2406	HD2 PRO A 153	24.442	-22.986	-28.370	1.00	0.00	H
ATOM	2407	HD3 PRO A 153	23.379	-22.762	-26.948	1.00	0.00	H
ATOM	2408	N SER A 154	23.019	-26.020	-25.223	1.00	0.00	N
ATOM	2409	CA SER A 154	22.569	-26.648	-23.975	1.00	0.00	C
ATOM	2410	C SER A 154	21.151	-26.224	-23.568	1.00	0.00	C
ATOM	2411	O SER A 154	20.751	-25.060	-23.687	1.00	0.00	O
ATOM	2412	CB SER A 154	23.597	-26.414	-22.855	1.00	0.00	C
ATOM	2413	OG SER A 154	23.932	-25.055	-22.654	1.00	0.00	O
ATOM	2414	H SER A 154	23.007	-25.012	-25.238	1.00	0.00	H
ATOM	2415	HA SER A 154	22.538	-27.727	-24.127	1.00	0.00	H
ATOM	2416	HB2 SER A 154	23.223	-26.842	-21.924	1.00	0.00	H
ATOM	2417	HB3 SER A 154	24.514	-26.929	-23.128	1.00	0.00	H
ATOM	2418	HG SER A 154	24.684	-25.048	-22.044	1.00	0.00	H
ATOM	2419	N GLY A 155	20.356	-27.239	-23.228	1.00	0.00	N
ATOM	2420	CA GLY A 155	18.976	-27.155	-22.759	1.00	0.00	C
ATOM	2421	C GLY A 155	18.775	-27.849	-21.409	1.00	0.00	C
ATOM	2422	O GLY A 155	19.743	-28.164	-20.717	1.00	0.00	O
ATOM	2423	H GLY A 155	20.767	-28.166	-23.215	1.00	0.00	H
ATOM	2424	HA2 GLY A 155	18.323	-27.627	-23.491	1.00	0.00	H
ATOM	2425	HA3 GLY A 155	18.692	-26.115	-22.651	1.00	0.00	H
ATOM	2426	N ILE A 156	17.518	-28.117	-21.035	1.00	0.00	N
ATOM	2427	CA ILE A 156	17.182	-28.738	-19.741	1.00	0.00	C
ATOM	2428	C ILE A 156	16.191	-29.894	-19.860	1.00	0.00	C
ATOM	2429	O ILE A 156	15.198	-29.823	-20.575	1.00	0.00	O
ATOM	2430	CB ILE A 156	16.704	-27.705	-18.693	1.00	0.00	C
ATOM	2431	CG1 ILE A 156	15.406	-26.972	-19.102	1.00	0.00	C
ATOM	2432	CG2 ILE A 156	17.847	-26.733	-18.368	1.00	0.00	C
ATOM	2433	CD1 ILE A 156	14.821	-26.095	-17.991	1.00	0.00	C

ATOM	2434	H	ILE A 156	16.773	-27.945	-21.701	1.00	0.00	H
ATOM	2435	HA	ILE A 156	18.095	-29.181	-19.343	1.00	0.00	H
ATOM	2436	HB	ILE A 156	16.488	-28.256	-17.778	1.00	0.00	H
ATOM	2437	HG12	ILE A 156	14.640	-27.700	-19.360	1.00	0.00	H
ATOM	2438	HG13	ILE A 156	15.593	-26.353	-19.980	1.00	0.00	H
ATOM	2439	HD11	ILE A 156	14.602	-26.705	-17.115	1.00	0.00	H
ATOM	2440	HD12	ILE A 156	15.524	-25.312	-17.721	1.00	0.00	H
ATOM	2441	HD13	ILE A 156	13.904	-25.628	-18.349	1.00	0.00	H
ATOM	2442	HG21	ILE A 156	18.759	-27.288	-18.143	1.00	0.00	H
ATOM	2443	HG22	ILE A 156	17.595	-26.106	-17.516	1.00	0.00	H
ATOM	2444	HG23	ILE A 156	18.029	-26.098	-19.230	1.00	0.00	H
ATOM	2445	N	LYS A 157	16.353	-30.863	-18.959	1.00	0.00	N
ATOM	2446	CA	LYS A 157	15.305	-31.793	-18.525	1.00	0.00	C
ATOM	2447	C	LYS A 157	14.466	-31.186	-17.398	1.00	0.00	C
ATOM	2448	O	LYS A 157	15.002	-30.494	-16.528	1.00	0.00	O
ATOM	2449	CB	LYS A 157	15.896	-33.169	-18.159	1.00	0.00	C
ATOM	2450	CG	LYS A 157	16.745	-33.254	-16.876	1.00	0.00	C
ATOM	2451	CD	LYS A 157	18.001	-32.367	-16.897	1.00	0.00	C
ATOM	2452	CE	LYS A 157	19.039	-32.862	-15.886	1.00	0.00	C
ATOM	2453	NZ	LYS A 157	20.409	-32.719	-16.420	1.00	0.00	N
ATOM	2454	H	LYS A 157	17.180	-30.805	-18.389	1.00	0.00	H
ATOM	2455	HA	LYS A 157	14.626	-31.954	-19.365	1.00	0.00	H
ATOM	2456	HB2	LYS A 157	15.068	-33.871	-18.050	1.00	0.00	H
ATOM	2457	HB3	LYS A 157	16.497	-33.526	-18.997	1.00	0.00	H
ATOM	2458	HG2	LYS A 157	17.052	-34.294	-16.767	1.00	0.00	H
ATOM	2459	HG3	LYS A 157	16.136	-32.996	-16.010	1.00	0.00	H
ATOM	2460	HD2	LYS A 157	18.429	-32.395	-17.900	1.00	0.00	H
ATOM	2461	HD3	LYS A 157	17.737	-31.337	-16.660	1.00	0.00	H
ATOM	2462	HE2	LYS A 157	18.929	-32.313	-14.948	1.00	0.00	H
ATOM	2463	HE3	LYS A 157	18.856	-33.922	-15.690	1.00	0.00	H

ATOM	2464	HZ1	LYS	A	157	21.110	-32.990	-15.734	1.00	0.00	H
ATOM	2465	HZ2	LYS	A	157	20.655	-31.761	-16.687	1.00	0.00	H
ATOM	2466	HZ3	LYS	A	157	20.513	-33.278	-17.262	1.00	0.00	H
ATOM	2467	N	GLN	A	158	13.197	-31.573	-17.347	1.00	0.00	N
ATOM	2468	CA	GLN	A	158	12.217	-31.262	-16.303	1.00	0.00	C
ATOM	2469	C	GLN	A	158	11.470	-32.550	-15.928	1.00	0.00	C
ATOM	2470	O	GLN	A	158	10.349	-32.794	-16.373	1.00	0.00	O
ATOM	2471	CB	GLN	A	158	11.275	-30.136	-16.765	1.00	0.00	C
ATOM	2472	CG	GLN	A	158	12.010	-28.797	-16.962	1.00	0.00	C
ATOM	2473	CD	GLN	A	158	11.070	-27.595	-17.027	1.00	0.00	C
ATOM	2474	OE1	GLN	A	158	9.859	-27.693	-17.077	1.00	0.00	O
ATOM	2475	NE2	GLN	A	158	11.590	-26.390	-16.974	1.00	0.00	N
ATOM	2476	H	GLN	A	158	12.863	-32.133	-18.128	1.00	0.00	H
ATOM	2477	HA	GLN	A	158	12.734	-30.924	-15.405	1.00	0.00	H
ATOM	2478	HB2	GLN	A	158	10.513	-30.006	-15.996	1.00	0.00	H
ATOM	2479	HB3	GLN	A	158	10.781	-30.421	-17.696	1.00	0.00	H
ATOM	2480	HG2	GLN	A	158	12.691	-28.641	-16.125	1.00	0.00	H
ATOM	2481	HG3	GLN	A	158	12.600	-28.835	-17.878	1.00	0.00	H
ATOM	2482	HE21	GLN	A	158	12.582	-26.256	-16.929	1.00	0.00	H
ATOM	2483	HE22	GLN	A	158	10.924	-25.639	-17.010	1.00	0.00	H
ATOM	2484	N	GLY	A	159	12.221	-33.490	-15.345	1.00	0.00	N
ATOM	2485	CA	GLY	A	159	11.855	-34.907	-15.367	1.00	0.00	C
ATOM	2486	C	GLY	A	159	11.900	-35.471	-16.789	1.00	0.00	C
ATOM	2487	O	GLY	A	159	12.805	-35.151	-17.557	1.00	0.00	O
ATOM	2488	H	GLY	A	159	13.179	-33.263	-15.148	1.00	0.00	H
ATOM	2489	HA2	GLY	A	159	12.547	-35.481	-14.755	1.00	0.00	H
ATOM	2490	HA3	GLY	A	159	10.849	-35.029	-14.962	1.00	0.00	H
ATOM	2491	N	ASP	A	160	10.856	-36.212	-17.148	1.00	0.00	N
ATOM	2492	CA	ASP	A	160	10.718	-36.950	-18.411	1.00	0.00	C
ATOM	2493	C	ASP	A	160	10.544	-36.057	-19.669	1.00	0.00	C

ATOM	2494	O	ASP A 160	10.648	-36.533	-20.801	1.00	0.00	O
ATOM	2495	CB	ASP A 160	9.501	-37.876	-18.246	1.00	0.00	C
ATOM	2496	CG	ASP A 160	9.617	-39.195	-19.005	1.00	0.00	C
ATOM	2497	OD1	ASP A 160	10.722	-39.773	-19.040	1.00	0.00	O
ATOM	2498	OD2	ASP A 160	8.542	-39.697	-19.403	1.00	0.00	O
ATOM	2499	H	ASP A 160	10.151	-36.391	-16.452	1.00	0.00	H
ATOM	2500	HA	ASP A 160	11.619	-37.554	-18.538	1.00	0.00	H
ATOM	2501	HB2	ASP A 160	9.380	-38.139	-17.193	1.00	0.00	H
ATOM	2502	HB3	ASP A 160	8.599	-37.340	-18.550	1.00	0.00	H
ATOM	2503	N	THR A 161	10.279	-34.752	-19.499	1.00	0.00	N
ATOM	2504	CA	THR A 161	10.316	-33.761	-20.587	1.00	0.00	C
ATOM	2505	C	THR A 161	11.706	-33.151	-20.735	1.00	0.00	C
ATOM	2506	O	THR A 161	12.170	-32.458	-19.831	1.00	0.00	O
ATOM	2507	CB	THR A 161	9.261	-32.660	-20.394	1.00	0.00	C
ATOM	2508	OG1	THR A 161	7.967	-33.191	-20.555	1.00	0.00	O
ATOM	2509	CG2	THR A 161	9.338	-31.581	-21.477	1.00	0.00	C
ATOM	2510	H	THR A 161	10.264	-34.401	-18.550	1.00	0.00	H
ATOM	2511	HA	THR A 161	10.092	-34.261	-21.522	1.00	0.00	H
ATOM	2512	HB	THR A 161	9.364	-32.202	-19.404	1.00	0.00	H
ATOM	2513	HG1	THR A 161	7.968	-34.123	-20.262	1.00	0.00	H
ATOM	2514	HG21	THR A 161	8.545	-30.852	-21.325	1.00	0.00	H
ATOM	2515	HG22	THR A 161	10.278	-31.046	-21.398	1.00	0.00	H
ATOM	2516	HG23	THR A 161	9.261	-32.014	-22.477	1.00	0.00	H
ATOM	2517	N	LEU A 162	12.286	-33.230	-21.938	1.00	0.00	N
ATOM	2518	CA	LEU A 162	13.448	-32.434	-22.352	1.00	0.00	C
ATOM	2519	C	LEU A 162	12.988	-31.128	-23.029	1.00	0.00	C
ATOM	2520	O	LEU A 162	11.986	-31.130	-23.745	1.00	0.00	O
ATOM	2521	CB	LEU A 162	14.363	-33.255	-23.287	1.00	0.00	C
ATOM	2522	CG	LEU A 162	14.598	-34.727	-22.894	1.00	0.00	C
ATOM	2523	CD1	LEU A 162	15.581	-35.352	-23.883	1.00	0.00	C

ATOM	2524	CD2 LEU A 162	15.179	-34.897	-21.490	1.00	0.00	C
ATOM	2525	H LEU A 162	11.832	-33.794	-22.648	1.00	0.00	H
ATOM	2526	HA LEU A 162	14.035	-32.169	-21.474	1.00	0.00	H
ATOM	2527	HB2 LEU A 162	13.923	-33.245	-24.282	1.00	0.00	H
ATOM	2528	HB3 LEU A 162	15.327	-32.746	-23.358	1.00	0.00	H
ATOM	2529	HG LEU A 162	13.660	-35.276	-22.958	1.00	0.00	H
ATOM	2530	HD11 LEU A 162	15.705	-36.409	-23.648	1.00	0.00	H
ATOM	2531	HD12 LEU A 162	16.545	-34.850	-23.808	1.00	0.00	H
ATOM	2532	HD13 LEU A 162	15.199	-35.254	-24.898	1.00	0.00	H
ATOM	2533	HD21 LEU A 162	15.324	-35.958	-21.287	1.00	0.00	H
ATOM	2534	HD22 LEU A 162	14.485	-34.508	-20.744	1.00	0.00	H
ATOM	2535	HD23 LEU A 162	16.132	-34.380	-21.410	1.00	0.00	H
ATOM	2536	N TYR A 163	13.800	-30.073	-22.944	1.00	0.00	N
ATOM	2537	CA TYR A 163	13.611	-28.778	-23.602	1.00	0.00	C
ATOM	2538	C TYR A 163	14.925	-28.317	-24.241	1.00	0.00	C
ATOM	2539	O TYR A 163	15.799	-27.756	-23.573	1.00	0.00	O
ATOM	2540	CB TYR A 163	13.137	-27.738	-22.581	1.00	0.00	C
ATOM	2541	CG TYR A 163	11.701	-27.871	-22.128	1.00	0.00	C
ATOM	2542	CD1 TYR A 163	10.684	-27.299	-22.913	1.00	0.00	C
ATOM	2543	CD2 TYR A 163	11.393	-28.466	-20.890	1.00	0.00	C
ATOM	2544	CE1 TYR A 163	9.363	-27.265	-22.439	1.00	0.00	C
ATOM	2545	CE2 TYR A 163	10.066	-28.449	-20.419	1.00	0.00	C
ATOM	2546	CZ TYR A 163	9.057	-27.832	-21.188	1.00	0.00	C
ATOM	2547	OH TYR A 163	7.783	-27.790	-20.733	1.00	0.00	O
ATOM	2548	H TYR A 163	14.566	-30.127	-22.282	1.00	0.00	H
ATOM	2549	HA TYR A 163	12.860	-28.859	-24.390	1.00	0.00	H
ATOM	2550	HB2 TYR A 163	13.794	-27.766	-21.709	1.00	0.00	H
ATOM	2551	HB3 TYR A 163	13.248	-26.747	-23.023	1.00	0.00	H
ATOM	2552	HD1 TYR A 163	10.921	-26.844	-23.861	1.00	0.00	H
ATOM	2553	HD2 TYR A 163	12.176	-28.920	-20.297	1.00	0.00	H

ATOM	2554	HE1 TYR A 163	8.586	-26.780	-23.015	1.00	0.00	H
ATOM	2555	HE2 TYR A 163	9.808	-28.883	-19.465	1.00	0.00	H
ATOM	2556	HH TYR A 163	7.313	-27.014	-21.131	1.00	0.00	H
ATOM	2557	N PHE A 164	15.043	-28.501	-25.555	1.00	0.00	N
ATOM	2558	CA PHE A 164	16.165	-28.004	-26.353	1.00	0.00	C
ATOM	2559	C PHE A 164	15.931	-26.532	-26.753	1.00	0.00	C
ATOM	2560	O PHE A 164	14.851	-26.237	-27.271	1.00	0.00	O
ATOM	2561	CB PHE A 164	16.309	-28.888	-27.602	1.00	0.00	C
ATOM	2562	CG PHE A 164	16.519	-30.365	-27.309	1.00	0.00	C
ATOM	2563	CD1 PHE A 164	17.792	-30.828	-26.931	1.00	0.00	C
ATOM	2564	CD2 PHE A 164	15.443	-31.272	-27.393	1.00	0.00	C
ATOM	2565	CE1 PHE A 164	17.994	-32.191	-26.645	1.00	0.00	C
ATOM	2566	CE2 PHE A 164	15.644	-32.635	-27.105	1.00	0.00	C
ATOM	2567	CZ PHE A 164	16.919	-33.093	-26.730	1.00	0.00	C
ATOM	2568	H PHE A 164	14.272	-28.939	-26.050	1.00	0.00	H
ATOM	2569	HA PHE A 164	17.080	-28.090	-25.768	1.00	0.00	H
ATOM	2570	HB2 PHE A 164	15.414	-28.777	-28.215	1.00	0.00	H
ATOM	2571	HB3 PHE A 164	17.149	-28.529	-28.195	1.00	0.00	H
ATOM	2572	HD1 PHE A 164	18.615	-30.133	-26.855	1.00	0.00	H
ATOM	2573	HD2 PHE A 164	14.458	-30.922	-27.667	1.00	0.00	H
ATOM	2574	HE1 PHE A 164	18.973	-32.541	-26.355	1.00	0.00	H
ATOM	2575	HE2 PHE A 164	14.815	-33.327	-27.162	1.00	0.00	H
ATOM	2576	HZ PHE A 164	17.071	-34.136	-26.499	1.00	0.00	H
ATOM	2577	N PRO A 165	16.905	-25.607	-26.631	1.00	0.00	N
ATOM	2578	CA PRO A 165	16.816	-24.278	-27.248	1.00	0.00	C
ATOM	2579	C PRO A 165	16.688	-24.370	-28.777	1.00	0.00	C
ATOM	2580	O PRO A 165	17.375	-25.156	-29.434	1.00	0.00	O
ATOM	2581	CB PRO A 165	18.091	-23.538	-26.832	1.00	0.00	C
ATOM	2582	CG PRO A 165	19.075	-24.682	-26.614	1.00	0.00	C
ATOM	2583	CD PRO A 165	18.198	-25.757	-25.982	1.00	0.00	C



ATOM	2584	HA	PRO A 165	15.949	-23.748	-26.855	1.00	0.00	H
ATOM	2585	HB2	PRO A 165	17.924	-23.011	-25.891	1.00	0.00	H
ATOM	2586	HB3	PRO A 165	18.442	-22.853	-27.604	1.00	0.00	H
ATOM	2587	HG2	PRO A 165	19.432	-25.033	-27.580	1.00	0.00	H
ATOM	2588	HG3	PRO A 165	19.908	-24.392	-25.979	1.00	0.00	H
ATOM	2589	HD2	PRO A 165	18.085	-25.562	-24.916	1.00	0.00	H
ATOM	2590	HD3	PRO A 165	18.635	-26.741	-26.138	1.00	0.00	H
ATOM	2591	N	ALA A 166	15.809	-23.551	-29.352	1.00	0.00	N
ATOM	2592	CA	ALA A 166	15.298	-23.750	-30.706	1.00	0.00	C
ATOM	2593	C	ALA A 166	14.928	-22.440	-31.420	1.00	0.00	C
ATOM	2594	O	ALA A 166	14.850	-21.373	-30.810	1.00	0.00	O
ATOM	2595	CB	ALA A 166	14.084	-24.678	-30.595	1.00	0.00	C
ATOM	2596	H	ALA A 166	15.276	-22.924	-28.757	1.00	0.00	H
ATOM	2597	HA	ALA A 166	16.053	-24.246	-31.316	1.00	0.00	H
ATOM	2598	HB1	ALA A 166	13.307	-24.201	-29.999	1.00	0.00	H
ATOM	2599	HB2	ALA A 166	13.688	-24.895	-31.586	1.00	0.00	H
ATOM	2600	HB3	ALA A 166	14.379	-25.615	-30.120	1.00	0.00	H
ATOM	2601	N	VAL A 167	14.563	-22.559	-32.699	1.00	0.00	N
ATOM	2602	CA	VAL A 167	14.020	-21.481	-33.530	1.00	0.00	C
ATOM	2603	C	VAL A 167	12.843	-21.965	-34.377	1.00	0.00	C
ATOM	2604	O	VAL A 167	12.872	-23.062	-34.934	1.00	0.00	O
ATOM	2605	CB	VAL A 167	15.137	-20.835	-34.373	1.00	0.00	C
ATOM	2606	CG1	VAL A 167	15.714	-21.752	-35.457	1.00	0.00	C
ATOM	2607	CG2	VAL A 167	14.710	-19.527	-35.044	1.00	0.00	C
ATOM	2608	H	VAL A 167	14.650	-23.477	-33.128	1.00	0.00	H
ATOM	2609	HA	VAL A 167	13.643	-20.715	-32.858	1.00	0.00	H
ATOM	2610	HB	VAL A 167	15.935	-20.585	-33.682	1.00	0.00	H
ATOM	2611	HG21	VAL A 167	14.352	-18.832	-34.289	1.00	0.00	H
ATOM	2612	HG22	VAL A 167	13.928	-19.710	-35.781	1.00	0.00	H
ATOM	2613	HG23	VAL A 167	15.573	-19.087	-35.544	1.00	0.00	H

ATOM	2614	HG11 VAL A 167	16.595	-21.289	-35.901	1.00	0.00	H
ATOM	2615	HG12 VAL A 167	16.007	-22.706	-35.021	1.00	0.00	H
ATOM	2616	HG13 VAL A 167	14.975	-21.931	-36.235	1.00	0.00	H
ATOM	2617	N GLY A 168	11.819	-21.123	-34.499	1.00	0.00	N
ATOM	2618	CA GLY A 168	10.718	-21.270	-35.445	1.00	0.00	C
ATOM	2619	C GLY A 168	10.811	-20.262	-36.584	1.00	0.00	C
ATOM	2620	O GLY A 168	11.202	-19.110	-36.383	1.00	0.00	O
ATOM	2621	H GLY A 168	11.868	-20.253	-33.981	1.00	0.00	H
ATOM	2622	HA2 GLY A 168	10.741	-22.264	-35.883	1.00	0.00	H
ATOM	2623	HA3 GLY A 168	9.767	-21.137	-34.930	1.00	0.00	H
ATOM	2624	N PHE A 169	10.417	-20.698	-37.779	1.00	0.00	N
ATOM	2625	CA PHE A 169	10.414	-19.909	-39.007	1.00	0.00	C
ATOM	2626	C PHE A 169	8.964	-19.639	-39.429	1.00	0.00	C
ATOM	2627	O PHE A 169	8.154	-20.566	-39.541	1.00	0.00	O
ATOM	2628	CB PHE A 169	11.165	-20.655	-40.117	1.00	0.00	C
ATOM	2629	CG PHE A 169	12.571	-21.156	-39.803	1.00	0.00	C
ATOM	2630	CD1 PHE A 169	13.682	-20.589	-40.452	1.00	0.00	C
ATOM	2631	CD2 PHE A 169	12.778	-22.253	-38.943	1.00	0.00	C
ATOM	2632	CE1 PHE A 169	14.973	-21.115	-40.257	1.00	0.00	C
ATOM	2633	CE2 PHE A 169	14.065	-22.768	-38.733	1.00	0.00	C
ATOM	2634	CZ PHE A 169	15.166	-22.208	-39.397	1.00	0.00	C
ATOM	2635	H PHE A 169	10.095	-21.659	-37.855	1.00	0.00	H
ATOM	2636	HA PHE A 169	10.919	-18.958	-38.836	1.00	0.00	H
ATOM	2637	HB2 PHE A 169	10.556	-21.505	-40.411	1.00	0.00	H
ATOM	2638	HB3 PHE A 169	11.219	-20.000	-40.985	1.00	0.00	H
ATOM	2639	HD1 PHE A 169	13.542	-19.771	-41.143	1.00	0.00	H
ATOM	2640	HD2 PHE A 169	11.947	-22.725	-38.451	1.00	0.00	H
ATOM	2641	HE1 PHE A 169	15.812	-20.696	-40.794	1.00	0.00	H
ATOM	2642	HE2 PHE A 169	14.200	-23.606	-38.070	1.00	0.00	H
ATOM	2643	HZ PHE A 169	16.153	-22.628	-39.257	1.00	0.00	H

ATOM	2644	N	LEU A 170	8.610	-18.370	-39.631	1.00	0.00	N
ATOM	2645	CA	LEU A 170	7.235	-17.944	-39.911	1.00	0.00	C
ATOM	2646	C	LEU A 170	7.226	-16.895	-41.036	1.00	0.00	C
ATOM	2647	O	LEU A 170	7.999	-15.938	-40.953	1.00	0.00	O
ATOM	2648	CB	LEU A 170	6.611	-17.465	-38.587	1.00	0.00	C
ATOM	2649	CG	LEU A 170	5.220	-16.811	-38.689	1.00	0.00	C
ATOM	2650	CD1	LEU A 170	4.343	-17.228	-37.507	1.00	0.00	C
ATOM	2651	CD2	LEU A 170	5.334	-15.287	-38.658	1.00	0.00	C
ATOM	2652	H	LEU A 170	9.313	-17.648	-39.494	1.00	0.00	H
ATOM	2653	HA	LEU A 170	6.657	-18.807	-40.236	1.00	0.00	H
ATOM	2654	HB2	LEU A 170	6.520	-18.348	-37.960	1.00	0.00	H
ATOM	2655	HB3	LEU A 170	7.298	-16.784	-38.084	1.00	0.00	H
ATOM	2656	HG	LEU A 170	4.725	-17.125	-39.609	1.00	0.00	H
ATOM	2657	HD21	LEU A 170	5.849	-14.965	-37.754	1.00	0.00	H
ATOM	2658	HD22	LEU A 170	5.882	-14.941	-39.532	1.00	0.00	H
ATOM	2659	HD23	LEU A 170	4.342	-14.844	-38.668	1.00	0.00	H
ATOM	2660	HD11	LEU A 170	3.366	-16.751	-37.582	1.00	0.00	H
ATOM	2661	HD12	LEU A 170	4.815	-16.940	-36.567	1.00	0.00	H
ATOM	2662	HD13	LEU A 170	4.204	-18.310	-37.517	1.00	0.00	H
ATOM	2663	N	PRO A 171	6.494	-17.104	-42.149	1.00	0.00	N
ATOM	2664	CA	PRO A 171	6.512	-16.161	-43.262	1.00	0.00	C
ATOM	2665	C	PRO A 171	6.012	-14.780	-42.819	1.00	0.00	C
ATOM	2666	O	PRO A 171	5.013	-14.667	-42.111	1.00	0.00	O
ATOM	2667	CB	PRO A 171	5.670	-16.776	-44.383	1.00	0.00	C
ATOM	2668	CG	PRO A 171	4.951	-17.976	-43.765	1.00	0.00	C
ATOM	2669	CD	PRO A 171	5.685	-18.272	-42.458	1.00	0.00	C
ATOM	2670	HA	PRO A 171	7.535	-16.066	-43.621	1.00	0.00	H
ATOM	2671	HB2	PRO A 171	4.954	-16.063	-44.792	1.00	0.00	H
ATOM	2672	HB3	PRO A 171	6.330	-17.119	-45.175	1.00	0.00	H
ATOM	2673	HG2	PRO A 171	3.916	-17.719	-43.554	1.00	0.00	H

ATOM	2674	HG3 PRO A 171	4.983	-18.839	-44.432	1.00	0.00	H
ATOM	2675	HD2 PRO A 171	6.336	-19.136	-42.594	1.00	0.00	H
ATOM	2676	HD3 PRO A 171	4.961	-18.470	-41.667	1.00	0.00	H
ATOM	2677	N ARG A 172	6.701	-13.705	-43.221	1.00	0.00	N
ATOM	2678	CA ARG A 172	6.431	-12.338	-42.734	1.00	0.00	C
ATOM	2679	C ARG A 172	5.151	-11.691	-43.289	1.00	0.00	C
ATOM	2680	O ARG A 172	4.867	-10.549	-42.949	1.00	0.00	O
ATOM	2681	CB ARG A 172	7.687	-11.449	-42.829	1.00	0.00	C
ATOM	2682	CG ARG A 172	8.079	-10.972	-44.233	1.00	0.00	C
ATOM	2683	CD ARG A 172	9.132	-9.846	-44.201	1.00	0.00	C
ATOM	2684	NE ARG A 172	10.407	-10.198	-43.527	1.00	0.00	N
ATOM	2685	CZ ARG A 172	10.953	-9.577	-42.489	1.00	0.00	C
ATOM	2686	NH1 ARG A 172	10.243	-8.821	-41.699	1.00	0.00	N
ATOM	2687	NH2 ARG A 172	12.215	-9.714	-42.204	1.00	0.00	N
ATOM	2688	H ARG A 172	7.532	-13.866	-43.784	1.00	0.00	H
ATOM	2689	HA ARG A 172	6.223	-12.440	-41.669	1.00	0.00	H
ATOM	2690	HB2 ARG A 172	7.526	-10.575	-42.195	1.00	0.00	H
ATOM	2691	HB3 ARG A 172	8.530	-12.009	-42.430	1.00	0.00	H
ATOM	2692	HG2 ARG A 172	8.455	-11.814	-44.808	1.00	0.00	H
ATOM	2693	HG3 ARG A 172	7.197	-10.585	-44.742	1.00	0.00	H
ATOM	2694	HD2 ARG A 172	8.684	-8.965	-43.741	1.00	0.00	H
ATOM	2695	HD3 ARG A 172	9.363	-9.581	-45.234	1.00	0.00	H
ATOM	2696	HE ARG A 172	11.009	-10.840	-44.031	1.00	0.00	H
ATOM	2697	HH11 ARG A 172	9.255	-8.798	-41.837	1.00	0.00	H
ATOM	2698	HH12 ARG A 172	10.639	-8.449	-40.841	1.00	0.00	H
ATOM	2699	HH21 ARG A 172	12.810	-10.224	-42.850	1.00	0.00	H
ATOM	2700	HH22 ARG A 172	12.662	-9.093	-41.539	1.00	0.00	H
ATOM	2701	N THR A 173	4.352	-12.439	-44.050	1.00	0.00	N
ATOM	2702	CA THR A 173	2.921	-12.186	-44.302	1.00	0.00	C
ATOM	2703	C THR A 173	2.055	-12.459	-43.067	1.00	0.00	C

ATOM	2704	O	THR A 173	1.123	-11.712	-42.792	1.00	0.00	O
ATOM	2705	CB	THR A 173	2.430	-13.098	-45.441	1.00	0.00	C
ATOM	2706	OG1	THR A 173	2.840	-14.431	-45.221	1.00	0.00	O
ATOM	2707	CG2	THR A 173	3.014	-12.677	-46.789	1.00	0.00	C
ATOM	2708	H	THR A 173	4.659	-13.378	-44.258	1.00	0.00	H
ATOM	2709	HA	THR A 173	2.769	-11.146	-44.586	1.00	0.00	H
ATOM	2710	HB	THR A 173	1.341	-13.057	-45.503	1.00	0.00	H
ATOM	2711	HG21	THR A 173	2.618	-13.329	-47.568	1.00	0.00	H
ATOM	2712	HG22	THR A 173	2.727	-11.649	-47.009	1.00	0.00	H
ATOM	2713	HG23	THR A 173	4.100	-12.759	-46.774	1.00	0.00	H
ATOM	2714	HG1	THR A 173	2.075	-14.915	-44.813	1.00	0.00	H
ATOM	2715	N	GLU A 174	2.429	-13.447	-42.252	1.00	0.00	N
ATOM	2716	CA	GLU A 174	1.701	-13.846	-41.041	1.00	0.00	C
ATOM	2717	C	GLU A 174	2.125	-13.032	-39.809	1.00	0.00	C
ATOM	2718	O	GLU A 174	1.435	-13.051	-38.789	1.00	0.00	O
ATOM	2719	CB	GLU A 174	1.941	-15.341	-40.750	1.00	0.00	C
ATOM	2720	CG	GLU A 174	1.946	-16.266	-41.972	1.00	0.00	C
ATOM	2721	CD	GLU A 174	0.715	-16.072	-42.854	1.00	0.00	C
ATOM	2722	OE1	GLU A 174	-0.327	-16.638	-42.451	1.00	0.00	O
ATOM	2723	OE2	GLU A 174	0.905	-15.677	-44.024	1.00	0.00	O
ATOM	2724	H	GLU A 174	3.217	-14.023	-42.529	1.00	0.00	H
ATOM	2725	HA	GLU A 174	0.632	-13.687	-41.199	1.00	0.00	H
ATOM	2726	HB2	GLU A 174	1.175	-15.685	-40.053	1.00	0.00	H
ATOM	2727	HB3	GLU A 174	2.906	-15.458	-40.263	1.00	0.00	H
ATOM	2728	HG2	GLU A 174	2.846	-16.071	-42.554	1.00	0.00	H
ATOM	2729	HG3	GLU A 174	1.994	-17.303	-41.628	1.00	0.00	H
ATOM	2730	N	PHE A 175	3.310	-12.413	-39.855	1.00	0.00	N
ATOM	2731	CA	PHE A 175	3.981	-11.826	-38.696	1.00	0.00	C
ATOM	2732	C	PHE A 175	3.301	-10.538	-38.209	1.00	0.00	C
ATOM	2733	O	PHE A 175	3.645	-9.430	-38.621	1.00	0.00	O

ATOM	2734	CB	PHE A 175	5.469	-11.610	-39.010	1.00	0.00	C
ATOM	2735	CG	PHE A 175	6.268	-11.037	-37.851	1.00	0.00	C
ATOM	2736	CD1	PHE A 175	6.228	-11.653	-36.583	1.00	0.00	C
ATOM	2737	CD2	PHE A 175	7.054	-9.884	-38.037	1.00	0.00	C
ATOM	2738	CE1	PHE A 175	6.949	-11.107	-35.507	1.00	0.00	C
ATOM	2739	CE2	PHE A 175	7.789	-9.350	-36.965	1.00	0.00	C
ATOM	2740	CZ	PHE A 175	7.728	-9.954	-35.697	1.00	0.00	C
ATOM	2741	H	PHE A 175	3.806	-12.439	-40.732	1.00	0.00	H
ATOM	2742	HA	PHE A 175	3.919	-12.549	-37.882	1.00	0.00	H
ATOM	2743	HB2	PHE A 175	5.917	-12.562	-39.292	1.00	0.00	H
ATOM	2744	HB3	PHE A 175	5.549	-10.940	-39.867	1.00	0.00	H
ATOM	2745	HD1	PHE A 175	5.634	-12.541	-36.423	1.00	0.00	H
ATOM	2746	HD2	PHE A 175	7.080	-9.401	-39.002	1.00	0.00	H
ATOM	2747	HE1	PHE A 175	6.891	-11.566	-34.530	1.00	0.00	H
ATOM	2748	HE2	PHE A 175	8.382	-8.462	-37.108	1.00	0.00	H
ATOM	2749	HZ	PHE A 175	8.261	-9.521	-34.863	1.00	0.00	H
ATOM	2750	N	GLN A 176	2.383	-10.694	-37.256	1.00	0.00	N
ATOM	2751	CA	GLN A 176	1.738	-9.579	-36.567	1.00	0.00	C
ATOM	2752	C	GLN A 176	2.737	-8.891	-35.625	1.00	0.00	C
ATOM	2753	O	GLN A 176	3.091	-9.432	-34.579	1.00	0.00	O
ATOM	2754	CB	GLN A 176	0.488	-10.068	-35.806	1.00	0.00	C
ATOM	2755	CG	GLN A 176	-0.487	-10.906	-36.653	1.00	0.00	C
ATOM	2756	CD	GLN A 176	-0.809	-10.270	-38.002	1.00	0.00	C
ATOM	2757	OE1	GLN A 176	-1.278	-9.150	-38.092	1.00	0.00	O
ATOM	2758	NE2	GLN A 176	-0.492	-10.926	-39.095	1.00	0.00	N
ATOM	2759	H	GLN A 176	2.120	-11.633	-36.997	1.00	0.00	H
ATOM	2760	HA	GLN A 176	1.414	-8.850	-37.313	1.00	0.00	H
ATOM	2761	HB2	GLN A 176	0.797	-10.674	-34.952	1.00	0.00	H
ATOM	2762	HB3	GLN A 176	-0.042	-9.195	-35.424	1.00	0.00	H
ATOM	2763	HG2	GLN A 176	-0.061	-11.897	-36.809	1.00	0.00	H

ATOM	2764	HG3 GLN A 176	-1.416	-11.035	-36.098	1.00	0.00	H
ATOM	2765	HE21 GLN A 176	0.033	-11.789	-39.025	1.00	0.00	H
ATOM	2766	HE22 GLN A 176	-0.625	-10.447	-39.967	1.00	0.00	H
ATOM	2767	N TYR A 177	3.134	-7.664	-35.963	1.00	0.00	N
ATOM	2768	CA TYR A 177	3.960	-6.806	-35.116	1.00	0.00	C
ATOM	2769	C TYR A 177	3.527	-5.347	-35.267	1.00	0.00	C
ATOM	2770	O TYR A 177	3.466	-4.825	-36.379	1.00	0.00	O
ATOM	2771	CB TYR A 177	5.446	-6.992	-35.456	1.00	0.00	C
ATOM	2772	CG TYR A 177	6.376	-6.200	-34.552	1.00	0.00	C
ATOM	2773	CD1 TYR A 177	6.861	-6.783	-33.363	1.00	0.00	C
ATOM	2774	CD2 TYR A 177	6.705	-4.865	-34.863	1.00	0.00	C
ATOM	2775	CE1 TYR A 177	7.661	-6.029	-32.482	1.00	0.00	C
ATOM	2776	CE2 TYR A 177	7.506	-4.112	-33.984	1.00	0.00	C
ATOM	2777	CZ TYR A 177	7.970	-4.687	-32.784	1.00	0.00	C
ATOM	2778	OH TYR A 177	8.698	-3.943	-31.913	1.00	0.00	O
ATOM	2779	H TYR A 177	2.846	-7.297	-36.858	1.00	0.00	H
ATOM	2780	HA TYR A 177	3.819	-7.097	-34.074	1.00	0.00	H
ATOM	2781	HB2 TYR A 177	5.691	-8.051	-35.367	1.00	0.00	H
ATOM	2782	HB3 TYR A 177	5.621	-6.698	-36.493	1.00	0.00	H
ATOM	2783	HD1 TYR A 177	6.594	-7.803	-33.115	1.00	0.00	H
ATOM	2784	HD2 TYR A 177	6.310	-4.399	-35.760	1.00	0.00	H
ATOM	2785	HE1 TYR A 177	8.015	-6.457	-31.555	1.00	0.00	H
ATOM	2786	HE2 TYR A 177	7.732	-3.084	-34.212	1.00	0.00	H
ATOM	2787	HH TYR A 177	8.548	-3.005	-32.037	1.00	0.00	H
ATOM	2788	N ASN A 178	3.233	-4.682	-34.149	1.00	0.00	N
ATOM	2789	CA ASN A 178	2.982	-3.245	-34.128	1.00	0.00	C
ATOM	2790	C ASN A 178	4.315	-2.486	-34.128	1.00	0.00	C
ATOM	2791	O ASN A 178	4.971	-2.394	-33.091	1.00	0.00	O
ATOM	2792	CB ASN A 178	2.116	-2.907	-32.903	1.00	0.00	C
ATOM	2793	CG ASN A 178	1.811	-1.422	-32.771	1.00	0.00	C

ATOM	2794	OD1 ASN A 178	1.848	-0.646	-33.716	1.00	0.00	O
ATOM	2795	ND2 ASN A 178	1.605	-0.944	-31.571	1.00	0.00	N
ATOM	2796	H ASN A 178	3.358	-5.150	-33.266	1.00	0.00	H
ATOM	2797	HA ASN A 178	2.428	-2.958	-35.024	1.00	0.00	H
ATOM	2798	HB2 ASN A 178	1.168	-3.440	-32.970	1.00	0.00	H
ATOM	2799	HB3 ASN A 178	2.627	-3.238	-32.000	1.00	0.00	H
ATOM	2800	HD21 ASN A 178	1.918	-1.486	-30.769	1.00	0.00	H
ATOM	2801	HD22 ASN A 178	1.418	0.036	-31.483	1.00	0.00	H
ATOM	2802	N ASP A 179	4.616	-1.790	-35.224	1.00	0.00	N
ATOM	2803	CA ASP A 179	5.781	-0.901	-35.332	1.00	0.00	C
ATOM	2804	C ASP A 179	5.823	0.182	-34.234	1.00	0.00	C
ATOM	2805	O ASP A 179	6.901	0.489	-33.732	1.00	0.00	O
ATOM	2806	CB ASP A 179	5.811	-0.257	-36.723	1.00	0.00	C
ATOM	2807	CG ASP A 179	6.158	-1.207	-37.861	1.00	0.00	C
ATOM	2808	OD1 ASP A 179	6.438	-2.407	-37.647	1.00	0.00	O
ATOM	2809	OD2 ASP A 179	6.246	-0.712	-39.003	1.00	0.00	O
ATOM	2810	H ASP A 179	4.087	-1.975	-36.064	1.00	0.00	H
ATOM	2811	HA ASP A 179	6.691	-1.491	-35.234	1.00	0.00	H
ATOM	2812	HB2 ASP A 179	4.842	0.196	-36.931	1.00	0.00	H
ATOM	2813	HB3 ASP A 179	6.553	0.537	-36.728	1.00	0.00	H
ATOM	2814	N SER A 180	4.669	0.594	-33.692	1.00	0.00	N
ATOM	2815	CA SER A 180	4.578	1.555	-32.575	1.00	0.00	C
ATOM	2816	C SER A 180	5.143	1.023	-31.245	1.00	0.00	C
ATOM	2817	O SER A 180	5.414	1.814	-30.346	1.00	0.00	O
ATOM	2818	CB SER A 180	3.135	2.033	-32.337	1.00	0.00	C
ATOM	2819	OG SER A 180	2.353	2.057	-33.519	1.00	0.00	O
ATOM	2820	H SER A 180	3.809	0.241	-34.087	1.00	0.00	H
ATOM	2821	HA SER A 180	5.170	2.433	-32.838	1.00	0.00	H
ATOM	2822	HB2 SER A 180	2.651	1.389	-31.608	1.00	0.00	H
ATOM	2823	HB3 SER A 180	3.166	3.037	-31.912	1.00	0.00	H



ATOM	2824	HG	SER A 180	2.073	1.147	-33.727	1.00	0.00	H
ATOM	2825	N	ASN A 181	5.360	-0.294	-31.110	1.00	0.00	N
ATOM	2826	CA	ASN A 181	6.080	-0.889	-29.977	1.00	0.00	C
ATOM	2827	C	ASN A 181	7.609	-0.696	-30.074	1.00	0.00	C
ATOM	2828	O	ASN A 181	8.325	-1.043	-29.136	1.00	0.00	O
ATOM	2829	CB	ASN A 181	5.755	-2.398	-29.866	1.00	0.00	C
ATOM	2830	CG	ASN A 181	4.333	-2.748	-29.453	1.00	0.00	C
ATOM	2831	OD1	ASN A 181	3.362	-2.050	-29.695	1.00	0.00	O
ATOM	2832	ND2	ASN A 181	4.150	-3.883	-28.819	1.00	0.00	N
ATOM	2833	H	ASN A 181	5.129	-0.897	-31.892	1.00	0.00	H
ATOM	2834	HA	ASN A 181	5.759	-0.398	-29.057	1.00	0.00	H
ATOM	2835	HB2	ASN A 181	5.977	-2.900	-30.806	1.00	0.00	H
ATOM	2836	HB3	ASN A 181	6.419	-2.825	-29.114	1.00	0.00	H
ATOM	2837	HD21	ASN A 181	4.931	-4.471	-28.585	1.00	0.00	H
ATOM	2838	HD22	ASN A 181	3.217	-4.090	-28.514	1.00	0.00	H
ATOM	2839	N	CYS A 182	8.142	-0.330	-31.246	1.00	0.00	N
ATOM	2840	CA	CYS A 182	9.580	-0.286	-31.497	1.00	0.00	C
ATOM	2841	C	CYS A 182	10.253	0.877	-30.720	1.00	0.00	C
ATOM	2842	O	CYS A 182	9.856	2.022	-30.940	1.00	0.00	O
ATOM	2843	CB	CYS A 182	9.796	-0.203	-33.014	1.00	0.00	C
ATOM	2844	SG	CYS A 182	11.476	-0.555	-33.576	1.00	0.00	S
ATOM	2845	H	CYS A 182	7.524	-0.020	-31.990	1.00	0.00	H
ATOM	2846	HA	CYS A 182	9.986	-1.241	-31.181	1.00	0.00	H
ATOM	2847	HB2	CYS A 182	9.129	-0.910	-33.509	1.00	0.00	H
ATOM	2848	HB3	CYS A 182	9.515	0.795	-33.352	1.00	0.00	H
ATOM	2849	N	PRO A 183	11.278	0.652	-29.860	1.00	0.00	N
ATOM	2850	CA	PRO A 183	11.807	1.655	-28.904	1.00	0.00	C
ATOM	2851	C	PRO A 183	12.537	2.911	-29.444	1.00	0.00	C
ATOM	2852	O	PRO A 183	13.381	3.477	-28.752	1.00	0.00	O
ATOM	2853	CB	PRO A 183	12.718	0.874	-27.945	1.00	0.00	C

ATOM	2854	CG	PRO A 183	12.134	-0.530	-27.966	1.00	0.00	C
ATOM	2855	CD	PRO A 183	11.715	-0.676	-29.423	1.00	0.00	C
ATOM	2856	HA	PRO A 183	10.952	2.016	-28.331	1.00	0.00	H
ATOM	2857	HB2	PRO A 183	12.705	1.300	-26.940	1.00	0.00	H
ATOM	2858	HB3	PRO A 183	13.737	0.842	-28.334	1.00	0.00	H
ATOM	2859	HG2	PRO A 183	12.869	-1.283	-27.677	1.00	0.00	H
ATOM	2860	HG3	PRO A 183	11.253	-0.576	-27.323	1.00	0.00	H
ATOM	2861	HD2	PRO A 183	10.923	-1.421	-29.462	1.00	0.00	H
ATOM	2862	HD3	PRO A 183	12.563	-1.002	-30.024	1.00	0.00	H
ATOM	2863	N	ILE A 184	12.220	3.398	-30.643	1.00	0.00	N
ATOM	2864	CA	ILE A 184	12.958	4.432	-31.395	1.00	0.00	C
ATOM	2865	C	ILE A 184	12.998	5.847	-30.775	1.00	0.00	C
ATOM	2866	O	ILE A 184	13.517	6.759	-31.408	1.00	0.00	O
ATOM	2867	CB	ILE A 184	12.403	4.515	-32.837	1.00	0.00	C
ATOM	2868	CG1	ILE A 184	10.954	5.064	-32.857	1.00	0.00	C
ATOM	2869	CG2	ILE A 184	12.518	3.153	-33.545	1.00	0.00	C
ATOM	2870	CD1	ILE A 184	10.458	5.442	-34.253	1.00	0.00	C
ATOM	2871	H	ILE A 184	11.435	2.960	-31.114	1.00	0.00	H
ATOM	2872	HA	ILE A 184	13.996	4.105	-31.458	1.00	0.00	H
ATOM	2873	HB	ILE A 184	13.034	5.212	-33.393	1.00	0.00	H
ATOM	2874	HG12	ILE A 184	10.274	4.326	-32.431	1.00	0.00	H
ATOM	2875	HG13	ILE A 184	10.891	5.966	-32.249	1.00	0.00	H
ATOM	2876	HD11	ILE A 184	9.459	5.873	-34.178	1.00	0.00	H
ATOM	2877	HD12	ILE A 184	11.129	6.174	-34.703	1.00	0.00	H
ATOM	2878	HD13	ILE A 184	10.410	4.556	-34.877	1.00	0.00	H
ATOM	2879	HG21	ILE A 184	13.522	2.749	-33.417	1.00	0.00	H
ATOM	2880	HG22	ILE A 184	12.348	3.284	-34.610	1.00	0.00	H
ATOM	2881	HG23	ILE A 184	11.787	2.448	-33.152	1.00	0.00	H
ATOM	2882	N	ILE A 185	12.392	6.090	-29.610	1.00	0.00	N
ATOM	2883	CA	ILE A 185	12.001	7.441	-29.146	1.00	0.00	C

ATOM	2884	C	ILE A 185	13.188	8.421	-29.028	1.00	0.00	C
ATOM	2885	O	ILE A 185	13.058	9.583	-29.403	1.00	0.00	O
ATOM	2886	CB	ILE A 185	11.196	7.326	-27.825	1.00	0.00	C
ATOM	2887	CG1	ILE A 185	9.871	6.565	-28.090	1.00	0.00	C
ATOM	2888	CG2	ILE A 185	10.911	8.706	-27.199	1.00	0.00	C
ATOM	2889	CD1	ILE A 185	9.036	6.268	-26.837	1.00	0.00	C
ATOM	2890	H	ILE A 185	12.039	5.288	-29.108	1.00	0.00	H
ATOM	2891	HA	ILE A 185	11.339	7.873	-29.898	1.00	0.00	H
ATOM	2892	HB	ILE A 185	11.790	6.753	-27.111	1.00	0.00	H
ATOM	2893	HG12	ILE A 185	9.260	7.138	-28.789	1.00	0.00	H
ATOM	2894	HG13	ILE A 185	10.092	5.604	-28.554	1.00	0.00	H
ATOM	2895	HG21	ILE A 185	11.843	9.214	-26.946	1.00	0.00	H
ATOM	2896	HG22	ILE A 185	10.346	8.603	-26.275	1.00	0.00	H
ATOM	2897	HG23	ILE A 185	10.349	9.326	-27.899	1.00	0.00	H
ATOM	2898	HD11	ILE A 185	8.212	5.606	-27.106	1.00	0.00	H
ATOM	2899	HD12	ILE A 185	8.616	7.187	-26.429	1.00	0.00	H
ATOM	2900	HD13	ILE A 185	9.654	5.778	-26.084	1.00	0.00	H
ATOM	2901	N	HIS A 186	14.368	7.941	-28.626	1.00	0.00	N
ATOM	2902	CA	HIS A 186	15.611	8.740	-28.572	1.00	0.00	C
ATOM	2903	C	HIS A 186	16.465	8.635	-29.852	1.00	0.00	C
ATOM	2904	O	HIS A 186	17.497	9.294	-29.995	1.00	0.00	O
ATOM	2905	CB	HIS A 186	16.415	8.312	-27.335	1.00	0.00	C
ATOM	2906	CG	HIS A 186	15.611	8.358	-26.059	1.00	0.00	C
ATOM	2907	ND1	HIS A 186	15.133	9.520	-25.452	1.00	0.00	N
ATOM	2908	CD2	HIS A 186	15.178	7.278	-25.345	1.00	0.00	C
ATOM	2909	CE1	HIS A 186	14.431	9.118	-24.384	1.00	0.00	C
ATOM	2910	NE2	HIS A 186	14.440	7.776	-24.293	1.00	0.00	N
ATOM	2911	H	HIS A 186	14.411	6.969	-28.363	1.00	0.00	H
ATOM	2912	HA	HIS A 186	15.350	9.793	-28.449	1.00	0.00	H
ATOM	2913	HB2	HIS A 186	17.275	8.974	-27.222	1.00	0.00	H

ATOM	2914	HB3 HIS A 186	16.787	7.297	-27.482	1.00	0.00	H
ATOM	2915	HD2 HIS A 186	15.374	6.240	-25.575	1.00	0.00	H
ATOM	2916	HE1 HIS A 186	13.930	9.786	-23.696	1.00	0.00	H
ATOM	2917	HE2 HIS A 186	13.986	7.236	-23.571	1.00	0.00	H
ATOM	2918	N CYS A 187	16.106	7.719	-30.747	1.00	0.00	N
ATOM	2919	CA CYS A 187	16.943	7.215	-31.828	1.00	0.00	C
ATOM	2920	C CYS A 187	16.730	8.024	-33.110	1.00	0.00	C
ATOM	2921	O CYS A 187	15.987	7.623	-33.999	1.00	0.00	O
ATOM	2922	CB CYS A 187	16.640	5.727	-31.996	1.00	0.00	C
ATOM	2923	SG CYS A 187	16.989	4.785	-30.494	1.00	0.00	S
ATOM	2924	H CYS A 187	15.189	7.300	-30.651	1.00	0.00	H
ATOM	2925	HA CYS A 187	17.992	7.304	-31.539	1.00	0.00	H
ATOM	2926	HB2 CYS A 187	15.593	5.603	-32.266	1.00	0.00	H
ATOM	2927	HB3 CYS A 187	17.245	5.326	-32.810	1.00	0.00	H
ATOM	2928	N LYS A 188	17.468	9.137	-33.223	1.00	0.00	N
ATOM	2929	CA LYS A 188	17.288	10.247	-34.190	1.00	0.00	C
ATOM	2930	C LYS A 188	17.003	9.892	-35.669	1.00	0.00	C
ATOM	2931	O LYS A 188	16.627	10.788	-36.419	1.00	0.00	O
ATOM	2932	CB LYS A 188	18.555	11.125	-34.132	1.00	0.00	C
ATOM	2933	CG LYS A 188	18.271	12.622	-34.346	1.00	0.00	C
ATOM	2934	CD LYS A 188	19.472	13.439	-34.854	1.00	0.00	C
ATOM	2935	CE LYS A 188	20.773	13.279	-34.050	1.00	0.00	C
ATOM	2936	NZ LYS A 188	21.578	12.114	-34.501	1.00	0.00	N
ATOM	2937	H LYS A 188	17.979	9.359	-32.377	1.00	0.00	H
ATOM	2938	HA LYS A 188	16.429	10.831	-33.854	1.00	0.00	H
ATOM	2939	HB2 LYS A 188	19.038	11.019	-33.158	1.00	0.00	H
ATOM	2940	HB3 LYS A 188	19.246	10.766	-34.897	1.00	0.00	H
ATOM	2941	HG2 LYS A 188	17.929	13.045	-33.400	1.00	0.00	H
ATOM	2942	HG3 LYS A 188	17.465	12.750	-35.067	1.00	0.00	H
ATOM	2943	HD2 LYS A 188	19.654	13.195	-35.900	1.00	0.00	H

ATOM	2944	HD3 LYS A 188	19.182	14.490	-34.821	1.00	0.00	H
ATOM	2945	HE2 LYS A 188	21.364	14.190	-34.184	1.00	0.00	H
ATOM	2946	HE3 LYS A 188	20.525	13.196	-32.987	1.00	0.00	H
ATOM	2947	HZ1 LYS A 188	22.433	12.032	-33.968	1.00	0.00	H
ATOM	2948	HZ2 LYS A 188	21.825	12.216	-35.484	1.00	0.00	H
ATOM	2949	HZ3 LYS A 188	21.054	11.254	-34.408	1.00	0.00	H
ATOM	2950	N TYR A 189	17.363	8.693	-36.128	1.00	0.00	N
ATOM	2951	CA TYR A 189	17.205	8.242	-37.521	1.00	0.00	C
ATOM	2952	C TYR A 189	16.382	6.947	-37.672	1.00	0.00	C
ATOM	2953	O TYR A 189	16.008	6.594	-38.790	1.00	0.00	O
ATOM	2954	CB TYR A 189	18.598	8.056	-38.152	1.00	0.00	C
ATOM	2955	CG TYR A 189	19.576	9.209	-37.974	1.00	0.00	C
ATOM	2956	CD1 TYR A 189	19.188	10.530	-38.274	1.00	0.00	C
ATOM	2957	CD2 TYR A 189	20.883	8.952	-37.514	1.00	0.00	C
ATOM	2958	CE1 TYR A 189	20.093	11.594	-38.094	1.00	0.00	C
ATOM	2959	CE2 TYR A 189	21.793	10.011	-37.333	1.00	0.00	C
ATOM	2960	CZ TYR A 189	21.396	11.331	-37.625	1.00	0.00	C
ATOM	2961	OH TYR A 189	22.249	12.355	-37.364	1.00	0.00	O
ATOM	2962	H TYR A 189	17.625	8.005	-35.441	1.00	0.00	H
ATOM	2963	HA TYR A 189	16.673	9.004	-38.090	1.00	0.00	H
ATOM	2964	HB2 TYR A 189	18.473	7.878	-39.221	1.00	0.00	H
ATOM	2965	HB3 TYR A 189	19.041	7.153	-37.726	1.00	0.00	H
ATOM	2966	HD1 TYR A 189	18.185	10.729	-38.630	1.00	0.00	H
ATOM	2967	HD2 TYR A 189	21.192	7.932	-37.316	1.00	0.00	H
ATOM	2968	HE1 TYR A 189	19.784	12.605	-38.316	1.00	0.00	H
ATOM	2969	HE2 TYR A 189	22.800	9.806	-36.999	1.00	0.00	H
ATOM	2970	HH TYR A 189	22.741	12.588	-38.161	1.00	0.00	H
ATOM	2971	N SER A 190	16.131	6.226	-36.577	1.00	0.00	N
ATOM	2972	CA SER A 190	15.590	4.867	-36.598	1.00	0.00	C
ATOM	2973	C SER A 190	14.095	4.848	-36.899	1.00	0.00	C

ATOM	2974	O	SER A 190	13.304	5.553	-36.271	1.00	0.00	O
ATOM	2975	CB	SER A 190	15.873	4.168	-35.269	1.00	0.00	C
ATOM	2976	OG	SER A 190	17.270	4.118	-35.054	1.00	0.00	O
ATOM	2977	H	SER A 190	16.345	6.610	-35.667	1.00	0.00	H
ATOM	2978	HA	SER A 190	16.098	4.310	-37.385	1.00	0.00	H
ATOM	2979	HB2	SER A 190	15.464	3.160	-35.295	1.00	0.00	H
ATOM	2980	HB3	SER A 190	15.396	4.719	-34.458	1.00	0.00	H
ATOM	2981	HG	SER A 190	17.654	3.627	-35.827	1.00	0.00	H
ATOM	2982	N	LYS A 191	13.677	3.990	-37.833	1.00	0.00	N
ATOM	2983	CA	LYS A 191	12.264	3.831	-38.199	1.00	0.00	C
ATOM	2984	C	LYS A 191	11.568	2.893	-37.218	1.00	0.00	C
ATOM	2985	O	LYS A 191	12.111	1.845	-36.884	1.00	0.00	O
ATOM	2986	CB	LYS A 191	12.112	3.321	-39.641	1.00	0.00	C
ATOM	2987	CG	LYS A 191	12.939	4.121	-40.664	1.00	0.00	C
ATOM	2988	CD	LYS A 191	12.654	3.665	-42.100	1.00	0.00	C
ATOM	2989	CE	LYS A 191	11.297	4.189	-42.585	1.00	0.00	C
ATOM	2990	NZ	LYS A 191	10.905	3.574	-43.874	1.00	0.00	N
ATOM	2991	H	LYS A 191	14.360	3.343	-38.215	1.00	0.00	H
ATOM	2992	HA	LYS A 191	11.787	4.810	-38.122	1.00	0.00	H
ATOM	2993	HB2	LYS A 191	12.415	2.276	-39.685	1.00	0.00	H
ATOM	2994	HB3	LYS A 191	11.056	3.371	-39.905	1.00	0.00	H
ATOM	2995	HG2	LYS A 191	12.722	5.186	-40.566	1.00	0.00	H
ATOM	2996	HG3	LYS A 191	14.001	3.964	-40.464	1.00	0.00	H
ATOM	2997	HD2	LYS A 191	13.442	4.051	-42.750	1.00	0.00	H
ATOM	2998	HD3	LYS A 191	12.676	2.573	-42.138	1.00	0.00	H
ATOM	2999	HE2	LYS A 191	11.359	5.277	-42.679	1.00	0.00	H
ATOM	3000	HE3	LYS A 191	10.535	3.954	-41.836	1.00	0.00	H
ATOM	3001	HZ1	LYS A 191	10.055	3.980	-44.235	1.00	0.00	H
ATOM	3002	HZ2	LYS A 191	11.641	3.610	-44.560	1.00	0.00	H
ATOM	3003	HZ3	LYS A 191	10.650	2.590	-43.717	1.00	0.00	H

ATOM	3004	N	ALA A 192	10.265	3.094	-37.037	1.00	0.00	N
ATOM	3005	CA	ALA A 192	9.406	2.165	-36.295	1.00	0.00	C
ATOM	3006	C	ALA A 192	9.332	0.763	-36.950	1.00	0.00	C
ATOM	3007	O	ALA A 192	9.303	-0.252	-36.257	1.00	0.00	O
ATOM	3008	CB	ALA A 192	8.033	2.837	-36.171	1.00	0.00	C
ATOM	3009	H	ALA A 192	9.870	3.969	-37.335	1.00	0.00	H
ATOM	3010	HA	ALA A 192	9.817	2.033	-35.292	1.00	0.00	H
ATOM	3011	HB1	ALA A 192	7.403	2.260	-35.498	1.00	0.00	H
ATOM	3012	HB2	ALA A 192	7.551	2.900	-37.148	1.00	0.00	H
ATOM	3013	HB3	ALA A 192	8.141	3.838	-35.753	1.00	0.00	H
ATOM	3014	N	GLU A 193	9.560	0.701	-38.268	1.00	0.00	N
ATOM	3015	CA	GLU A 193	9.720	-0.543	-39.030	1.00	0.00	C
ATOM	3016	C	GLU A 193	10.927	-1.393	-38.602	1.00	0.00	C
ATOM	3017	O	GLU A 193	10.941	-2.596	-38.856	1.00	0.00	O
ATOM	3018	CB	GLU A 193	9.937	-0.226	-40.517	1.00	0.00	C
ATOM	3019	CG	GLU A 193	8.928	0.727	-41.166	1.00	0.00	C
ATOM	3020	CD	GLU A 193	8.927	0.524	-42.686	1.00	0.00	C
ATOM	3021	OE1	GLU A 193	8.488	-0.569	-43.126	1.00	0.00	O
ATOM	3022	OE2	GLU A 193	9.553	1.363	-43.372	1.00	0.00	O
ATOM	3023	H	GLU A 193	9.592	1.566	-38.777	1.00	0.00	H
ATOM	3024	HA	GLU A 193	8.822	-1.152	-38.918	1.00	0.00	H
ATOM	3025	HB2	GLU A 193	10.934	0.198	-40.655	1.00	0.00	H
ATOM	3026	HB3	GLU A 193	9.908	-1.178	-41.047	1.00	0.00	H
ATOM	3027	HG2	GLU A 193	7.929	0.531	-40.779	1.00	0.00	H
ATOM	3028	HG3	GLU A 193	9.188	1.760	-40.914	1.00	0.00	H
ATOM	3029	N	ASN A 194	11.999	-0.778	-38.088	1.00	0.00	N
ATOM	3030	CA	ASN A 194	13.317	-1.412	-37.983	1.00	0.00	C
ATOM	3031	C	ASN A 194	13.295	-2.685	-37.127	1.00	0.00	C
ATOM	3032	O	ASN A 194	13.847	-3.702	-37.548	1.00	0.00	O
ATOM	3033	CB	ASN A 194	14.334	-0.401	-37.432	1.00	0.00	C

ATOM	3034	CG	ASN A 194	14.736	0.694	-38.409	1.00	0.00	C
ATOM	3035	OD1	ASN A 194	14.377	0.694	-39.578	1.00	0.00	O
ATOM	3036	ND2	ASN A 194	15.578	1.597	-37.972	1.00	0.00	N
ATOM	3037	H	ASN A 194	11.936	0.209	-37.867	1.00	0.00	H
ATOM	3038	HA	ASN A 194	13.638	-1.712	-38.981	1.00	0.00	H
ATOM	3039	HB2	ASN A 194	13.953	0.057	-36.520	1.00	0.00	H
ATOM	3040	HB3	ASN A 194	15.240	-0.942	-37.171	1.00	0.00	H
ATOM	3041	HD21	ASN A 194	15.926	1.499	-37.019	1.00	0.00	H
ATOM	3042	HD22	ASN A 194	16.283	1.933	-38.624	1.00	0.00	H
ATOM	3043	N	CYS A 195	12.455	-2.704	-36.085	1.00	0.00	N
ATOM	3044	CA	CYS A 195	12.134	-3.904	-35.319	1.00	0.00	C
ATOM	3045	C	CYS A 195	11.551	-5.013	-36.213	1.00	0.00	C
ATOM	3046	O	CYS A 195	12.182	-6.054	-36.388	1.00	0.00	O
ATOM	3047	CB	CYS A 195	11.164	-3.548	-34.183	1.00	0.00	C
ATOM	3048	SG	CYS A 195	11.826	-2.451	-32.905	1.00	0.00	S
ATOM	3049	H	CYS A 195	11.987	-1.841	-35.844	1.00	0.00	H
ATOM	3050	HA	CYS A 195	13.053	-4.289	-34.877	1.00	0.00	H
ATOM	3051	HB2	CYS A 195	10.872	-4.475	-33.688	1.00	0.00	H
ATOM	3052	HB3	CYS A 195	10.262	-3.095	-34.596	1.00	0.00	H
ATOM	3053	N	ARG A 196	10.420	-4.751	-36.883	1.00	0.00	N
ATOM	3054	CA	ARG A 196	9.716	-5.702	-37.764	1.00	0.00	C
ATOM	3055	C	ARG A 196	10.585	-6.213	-38.916	1.00	0.00	C
ATOM	3056	O	ARG A 196	10.500	-7.387	-39.285	1.00	0.00	O
ATOM	3057	CB	ARG A 196	8.444	-5.004	-38.282	1.00	0.00	C
ATOM	3058	CG	ARG A 196	7.640	-5.814	-39.317	1.00	0.00	C
ATOM	3059	CD	ARG A 196	6.301	-5.154	-39.682	1.00	0.00	C
ATOM	3060	NE	ARG A 196	6.446	-3.741	-40.066	1.00	0.00	N
ATOM	3061	CZ	ARG A 196	6.895	-3.205	-41.180	1.00	0.00	C
ATOM	3062	NH1	ARG A 196	7.261	-3.903	-42.213	1.00	0.00	N
ATOM	3063	NH2	ARG A 196	6.977	-1.924	-41.282	1.00	0.00	N



ATOM	3064	H	ARG A 196	10.031	-3.820	-36.799	1.00	0.00	H
ATOM	3065	HA	ARG A 196	9.426	-6.570	-37.175	1.00	0.00	H
ATOM	3066	HB2	ARG A 196	7.798	-4.790	-37.432	1.00	0.00	H
ATOM	3067	HB3	ARG A 196	8.725	-4.051	-38.733	1.00	0.00	H
ATOM	3068	HG2	ARG A 196	8.229	-5.930	-40.227	1.00	0.00	H
ATOM	3069	HG3	ARG A 196	7.429	-6.803	-38.911	1.00	0.00	H
ATOM	3070	HD2	ARG A 196	5.648	-5.189	-38.807	1.00	0.00	H
ATOM	3071	HD3	ARG A 196	5.813	-5.714	-40.481	1.00	0.00	H
ATOM	3072	HE	ARG A 196	6.292	-3.071	-39.305	1.00	0.00	H
ATOM	3073	HH11	ARG A 196	7.090	-4.884	-42.204	1.00	0.00	H
ATOM	3074	HH12	ARG A 196	7.563	-3.401	-43.028	1.00	0.00	H
ATOM	3075	HH21	ARG A 196	6.688	-1.368	-40.472	1.00	0.00	H
ATOM	3076	HH22	ARG A 196	7.436	-1.455	-42.062	1.00	0.00	H
ATOM	3077	N	LEU A 197	11.412	-5.347	-39.496	1.00	0.00	N
ATOM	3078	CA	LEU A 197	12.327	-5.696	-40.582	1.00	0.00	C
ATOM	3079	C	LEU A 197	13.477	-6.595	-40.096	1.00	0.00	C
ATOM	3080	O	LEU A 197	13.667	-7.663	-40.682	1.00	0.00	O
ATOM	3081	CB	LEU A 197	12.843	-4.406	-41.246	1.00	0.00	C
ATOM	3082	CG	LEU A 197	11.758	-3.560	-41.947	1.00	0.00	C
ATOM	3083	CD1	LEU A 197	12.386	-2.273	-42.481	1.00	0.00	C
ATOM	3084	CD2	LEU A 197	11.077	-4.288	-43.109	1.00	0.00	C
ATOM	3085	H	LEU A 197	11.393	-4.387	-39.159	1.00	0.00	H
ATOM	3086	HA	LEU A 197	11.783	-6.273	-41.329	1.00	0.00	H
ATOM	3087	HB2	LEU A 197	13.316	-3.794	-40.478	1.00	0.00	H
ATOM	3088	HB3	LEU A 197	13.605	-4.671	-41.978	1.00	0.00	H
ATOM	3089	HG	LEU A 197	10.983	-3.293	-41.236	1.00	0.00	H
ATOM	3090	HD11	LEU A 197	13.163	-2.500	-43.210	1.00	0.00	H
ATOM	3091	HD12	LEU A 197	12.819	-1.708	-41.654	1.00	0.00	H
ATOM	3092	HD13	LEU A 197	11.617	-1.656	-42.948	1.00	0.00	H
ATOM	3093	HD21	LEU A 197	10.374	-3.608	-43.592	1.00	0.00	H

ATOM	3094	HD22	LEU	A	197	11.810	-4.619	-43.839	1.00	0.00	H
ATOM	3095	HD23	LEU	A	197	10.518	-5.145	-42.739	1.00	0.00	H
ATOM	3096	N	SER	A	198	14.107	-6.260	-38.961	1.00	0.00	N
ATOM	3097	CA	SER	A	198	15.251	-6.986	-38.379	1.00	0.00	C
ATOM	3098	C	SER	A	198	14.941	-8.426	-37.955	1.00	0.00	C
ATOM	3099	O	SER	A	198	15.838	-9.256	-38.021	1.00	0.00	O
ATOM	3100	CB	SER	A	198	15.818	-6.197	-37.186	1.00	0.00	C
ATOM	3101	OG	SER	A	198	16.835	-6.905	-36.490	1.00	0.00	O
ATOM	3102	H	SER	A	198	13.827	-5.400	-38.495	1.00	0.00	H
ATOM	3103	HA	SER	A	198	16.036	-7.048	-39.133	1.00	0.00	H
ATOM	3104	HB2	SER	A	198	16.217	-5.248	-37.544	1.00	0.00	H
ATOM	3105	HB3	SER	A	198	15.008	-5.986	-36.485	1.00	0.00	H
ATOM	3106	HG	SER	A	198	17.565	-7.113	-37.108	1.00	0.00	H
ATOM	3107	N	MET	A	199	13.676	-8.795	-37.708	1.00	0.00	N
ATOM	3108	CA	MET	A	199	13.304	-10.161	-37.283	1.00	0.00	C
ATOM	3109	C	MET	A	199	13.583	-11.284	-38.309	1.00	0.00	C
ATOM	3110	O	MET	A	199	13.324	-12.448	-38.011	1.00	0.00	O
ATOM	3111	CB	MET	A	199	11.833	-10.229	-36.832	1.00	0.00	C
ATOM	3112	CG	MET	A	199	11.420	-9.198	-35.782	1.00	0.00	C
ATOM	3113	SD	MET	A	199	12.495	-9.055	-34.328	1.00	0.00	S
ATOM	3114	CE	MET	A	199	11.635	-7.723	-33.450	1.00	0.00	C
ATOM	3115	H	MET	A	199	12.984	-8.061	-37.633	1.00	0.00	H
ATOM	3116	HA	MET	A	199	13.914	-10.398	-36.413	1.00	0.00	H
ATOM	3117	HB2	MET	A	199	11.193	-10.096	-37.702	1.00	0.00	H
ATOM	3118	HB3	MET	A	199	11.643	-11.219	-36.413	1.00	0.00	H
ATOM	3119	HG2	MET	A	199	11.348	-8.232	-36.269	1.00	0.00	H
ATOM	3120	HG3	MET	A	199	10.423	-9.458	-35.435	1.00	0.00	H
ATOM	3121	HE1	MET	A	199	11.651	-6.816	-34.049	1.00	0.00	H
ATOM	3122	HE2	MET	A	199	12.135	-7.528	-32.504	1.00	0.00	H
ATOM	3123	HE3	MET	A	199	10.602	-8.010	-33.260	1.00	0.00	H

ATOM	3124	N	GLY A 200	14.090	-10.986	-39.510	1.00	0.00	N
ATOM	3125	CA	GLY A 200	14.535	-11.989	-40.483	1.00	0.00	C
ATOM	3126	C	GLY A 200	15.872	-11.627	-41.135	1.00	0.00	C
ATOM	3127	O	GLY A 200	16.190	-10.452	-41.289	1.00	0.00	O
ATOM	3128	H	GLY A 200	14.437	-10.043	-39.638	1.00	0.00	H
ATOM	3129	HA2	GLY A 200	14.650	-12.957	-39.994	1.00	0.00	H
ATOM	3130	HA3	GLY A 200	13.784	-12.093	-41.264	1.00	0.00	H
ATOM	3131	N	VAL A 201	16.570	-12.642	-41.661	1.00	0.00	N
ATOM	3132	CA	VAL A 201	17.931	-12.569	-42.255	1.00	0.00	C
ATOM	3133	C	VAL A 201	18.082	-11.520	-43.374	1.00	0.00	C
ATOM	3134	O	VAL A 201	19.172	-11.009	-43.616	1.00	0.00	O
ATOM	3135	CB	VAL A 201	18.325	-13.981	-42.756	1.00	0.00	C
ATOM	3136	CG1	VAL A 201	19.585	-14.037	-43.629	1.00	0.00	C
ATOM	3137	CG2	VAL A 201	18.532	-14.928	-41.567	1.00	0.00	C
ATOM	3138	H	VAL A 201	16.219	-13.569	-41.474	1.00	0.00	H
ATOM	3139	HA	VAL A 201	18.637	-12.280	-41.474	1.00	0.00	H
ATOM	3140	HB	VAL A 201	17.502	-14.371	-43.357	1.00	0.00	H
ATOM	3141	HG11	VAL A 201	19.409	-13.547	-44.585	1.00	0.00	H
ATOM	3142	HG12	VAL A 201	19.862	-15.074	-43.823	1.00	0.00	H
ATOM	3143	HG13	VAL A 201	20.410	-13.540	-43.121	1.00	0.00	H
ATOM	3144	HG21	VAL A 201	18.754	-15.933	-41.929	1.00	0.00	H
ATOM	3145	HG22	VAL A 201	17.640	-14.978	-40.946	1.00	0.00	H
ATOM	3146	HG23	VAL A 201	19.370	-14.585	-40.957	1.00	0.00	H
ATOM	3147	N	ASN A 202	16.979	-11.096	-43.994	1.00	0.00	N
ATOM	3148	CA	ASN A 202	16.870	-9.793	-44.650	1.00	0.00	C
ATOM	3149	C	ASN A 202	15.631	-9.063	-44.101	1.00	0.00	C
ATOM	3150	O	ASN A 202	14.590	-9.697	-43.926	1.00	0.00	O
ATOM	3151	CB	ASN A 202	16.735	-9.944	-46.180	1.00	0.00	C
ATOM	3152	CG	ASN A 202	17.873	-10.554	-46.983	1.00	0.00	C
ATOM	3153	OD1	ASN A 202	17.722	-10.733	-48.180	1.00	0.00	O

ATOM	3154	ND2 ASN A 202	19.032	-10.814	-46.431	1.00	0.00	N
ATOM	3155	H ASN A 202	16.115	-11.462	-43.624	1.00	0.00	H
ATOM	3156	HA ASN A 202	17.746	-9.182	-44.418	1.00	0.00	H
ATOM	3157	HB2 ASN A 202	16.587	-8.950	-46.595	1.00	0.00	H
ATOM	3158	HB3 ASN A 202	15.851	-10.539	-46.393	1.00	0.00	H
ATOM	3159	HD21 ASN A 202	19.178	-10.720	-45.429	1.00	0.00	H
ATOM	3160	HD22 ASN A 202	19.747	-11.200	-47.020	1.00	0.00	H
ATOM	3161	N SER A 203	15.602	-7.739	-44.270	1.00	0.00	N
ATOM	3162	CA SER A 203	14.370	-6.929	-44.221	1.00	0.00	C
ATOM	3163	C SER A 203	13.289	-7.416	-45.203	1.00	0.00	C
ATOM	3164	O SER A 203	12.124	-7.542	-44.834	1.00	0.00	O
ATOM	3165	CB SER A 203	14.743	-5.479	-44.547	1.00	0.00	C
ATOM	3166	OG SER A 203	15.415	-5.410	-45.796	1.00	0.00	O
ATOM	3167	H SER A 203	16.455	-7.263	-44.525	1.00	0.00	H
ATOM	3168	HA SER A 203	13.953	-6.970	-43.215	1.00	0.00	H
ATOM	3169	HB2 SER A 203	13.845	-4.863	-44.583	1.00	0.00	H
ATOM	3170	HB3 SER A 203	15.398	-5.100	-43.765	1.00	0.00	H
ATOM	3171	HG SER A 203	15.723	-4.504	-45.924	1.00	0.00	H
ATOM	3172	N LYS A 204	13.710	-7.847	-46.401	1.00	0.00	N
ATOM	3173	CA LYS A 204	12.878	-8.440	-47.466	1.00	0.00	C
ATOM	3174	C LYS A 204	12.785	-9.978	-47.449	1.00	0.00	C
ATOM	3175	O LYS A 204	12.532	-10.576	-48.494	1.00	0.00	O
ATOM	3176	CB LYS A 204	13.310	-7.858	-48.830	1.00	0.00	C
ATOM	3177	CG LYS A 204	14.747	-8.213	-49.281	1.00	0.00	C
ATOM	3178	CD LYS A 204	14.869	-9.300	-50.362	1.00	0.00	C
ATOM	3179	CE LYS A 204	14.234	-8.861	-51.689	1.00	0.00	C
ATOM	3180	NZ LYS A 204	14.296	-9.943	-52.702	1.00	0.00	N
ATOM	3181	H LYS A 204	14.678	-7.649	-46.608	1.00	0.00	H
ATOM	3182	HA LYS A 204	11.852	-8.109	-47.292	1.00	0.00	H
ATOM	3183	HB2 LYS A 204	12.588	-8.162	-49.587	1.00	0.00	H

ATOM	3184	HB3 LYS A 204	13.244	-6.770	-48.756	1.00	0.00	H
ATOM	3185	HG2 LYS A 204	15.217	-7.307	-49.666	1.00	0.00	H
ATOM	3186	HG3 LYS A 204	15.330	-8.531	-48.420	1.00	0.00	H
ATOM	3187	HD2 LYS A 204	14.407	-10.223	-50.016	1.00	0.00	H
ATOM	3188	HD3 LYS A 204	15.929	-9.503	-50.522	1.00	0.00	H
ATOM	3189	HE2 LYS A 204	13.191	-8.584	-51.508	1.00	0.00	H
ATOM	3190	HE3 LYS A 204	14.762	-7.971	-52.048	1.00	0.00	H
ATOM	3191	HZ1 LYS A 204	13.897	-9.633	-53.579	1.00	0.00	H
ATOM	3192	HZ2 LYS A 204	13.776	-10.749	-52.378	1.00	0.00	H
ATOM	3193	HZ3 LYS A 204	15.256	-10.223	-52.860	1.00	0.00	H
ATOM	3194	N SER A 205	13.146	-10.635	-46.343	1.00	0.00	N
ATOM	3195	CA SER A 205	13.092	-12.102	-46.226	1.00	0.00	C
ATOM	3196	C SER A 205	11.665	-12.640	-46.381	1.00	0.00	C
ATOM	3197	O SER A 205	10.704	-11.955	-46.042	1.00	0.00	O
ATOM	3198	CB SER A 205	13.662	-12.563	-44.879	1.00	0.00	C
ATOM	3199	OG SER A 205	12.888	-12.063	-43.807	1.00	0.00	O
ATOM	3200	H SER A 205	13.349	-10.104	-45.505	1.00	0.00	H
ATOM	3201	HA SER A 205	13.704	-12.532	-47.018	1.00	0.00	H
ATOM	3202	HB2 SER A 205	13.660	-13.654	-44.840	1.00	0.00	H
ATOM	3203	HB3 SER A 205	14.690	-12.219	-44.782	1.00	0.00	H
ATOM	3204	HG SER A 205	12.640	-12.825	-43.234	1.00	0.00	H
ATOM	3205	N HIS A 206	11.546	-13.915	-46.763	1.00	0.00	N
ATOM	3206	CA HIS A 206	10.296	-14.679	-46.658	1.00	0.00	C
ATOM	3207	C HIS A 206	9.943	-14.948	-45.185	1.00	0.00	C
ATOM	3208	O HIS A 206	9.006	-14.345	-44.673	1.00	0.00	O
ATOM	3209	CB HIS A 206	10.432	-15.959	-47.502	1.00	0.00	C
ATOM	3210	CG HIS A 206	9.279	-16.924	-47.406	1.00	0.00	C
ATOM	3211	ND1 HIS A 206	8.969	-17.668	-46.273	1.00	0.00	N
ATOM	3212	CD2 HIS A 206	8.496	-17.350	-48.440	1.00	0.00	C
ATOM	3213	CE1 HIS A 206	8.020	-18.540	-46.645	1.00	0.00	C

ATOM	3214	NE2	HIS A 206	7.702	-18.357	-47.936	1.00	0.00	N
ATOM	3215	H	HIS A 206	12.379	-14.419	-47.020	1.00	0.00	H
ATOM	3216	HA	HIS A 206	9.473	-14.088	-47.064	1.00	0.00	H
ATOM	3217	HB2	HIS A 206	11.330	-16.496	-47.193	1.00	0.00	H
ATOM	3218	HB3	HIS A 206	10.561	-15.675	-48.547	1.00	0.00	H
ATOM	3219	HD2	HIS A 206	8.551	-17.017	-49.466	1.00	0.00	H
ATOM	3220	HE1	HIS A 206	7.586	-19.295	-45.999	1.00	0.00	H
ATOM	3221	HE2	HIS A 206	7.050	-18.931	-48.454	1.00	0.00	H
ATOM	3222	N	TYR A 207	10.840	-15.602	-44.442	1.00	0.00	N
ATOM	3223	CA	TYR A 207	10.692	-15.844	-43.003	1.00	0.00	C
ATOM	3224	C	TYR A 207	11.130	-14.660	-42.129	1.00	0.00	C
ATOM	3225	O	TYR A 207	12.218	-14.113	-42.339	1.00	0.00	O
ATOM	3226	CB	TYR A 207	11.478	-17.109	-42.625	1.00	0.00	C
ATOM	3227	CG	TYR A 207	10.986	-18.339	-43.353	1.00	0.00	C
ATOM	3228	CD1	TYR A 207	9.708	-18.833	-43.050	1.00	0.00	C
ATOM	3229	CD2	TYR A 207	11.751	-18.941	-44.370	1.00	0.00	C
ATOM	3230	CE1	TYR A 207	9.187	-19.924	-43.757	1.00	0.00	C
ATOM	3231	CE2	TYR A 207	11.227	-20.040	-45.081	1.00	0.00	C
ATOM	3232	CZ	TYR A 207	9.943	-20.535	-44.776	1.00	0.00	C
ATOM	3233	OH	TYR A 207	9.435	-21.585	-45.474	1.00	0.00	O
ATOM	3234	H	TYR A 207	11.551	-16.125	-44.923	1.00	0.00	H
ATOM	3235	HA	TYR A 207	9.640	-16.035	-42.799	1.00	0.00	H
ATOM	3236	HB2	TYR A 207	12.538	-16.955	-42.833	1.00	0.00	H
ATOM	3237	HB3	TYR A 207	11.375	-17.288	-41.555	1.00	0.00	H
ATOM	3238	HD1	TYR A 207	9.112	-18.356	-42.291	1.00	0.00	H
ATOM	3239	HD2	TYR A 207	12.734	-18.564	-44.607	1.00	0.00	H
ATOM	3240	HE1	TYR A 207	8.191	-20.264	-43.550	1.00	0.00	H
ATOM	3241	HE2	TYR A 207	11.780	-20.492	-45.882	1.00	0.00	H
ATOM	3242	HH	TYR A 207	8.488	-21.742	-45.241	1.00	0.00	H
ATOM	3243	N	ILE A 208	10.432	-14.453	-41.007	1.00	0.00	N

ATOM	3244	CA	ILE A 208	11.074	-14.082	-39.736	1.00	0.00	C
ATOM	3245	C	ILE A 208	11.494	-15.341	-38.971	1.00	0.00	C
ATOM	3246	O	ILE A 208	10.919	-16.417	-39.155	1.00	0.00	O
ATOM	3247	CB	ILE A 208	10.209	-13.143	-38.860	1.00	0.00	C
ATOM	3248	CG1	ILE A 208	8.884	-13.727	-38.318	1.00	0.00	C
ATOM	3249	CG2	ILE A 208	9.940	-11.835	-39.618	1.00	0.00	C
ATOM	3250	CD1	ILE A 208	9.015	-14.513	-37.005	1.00	0.00	C
ATOM	3251	H	ILE A 208	9.570	-14.983	-40.912	1.00	0.00	H
ATOM	3252	HA	ILE A 208	11.991	-13.539	-39.960	1.00	0.00	H
ATOM	3253	HB	ILE A 208	10.805	-12.866	-37.991	1.00	0.00	H
ATOM	3254	HG12	ILE A 208	8.406	-14.345	-39.072	1.00	0.00	H
ATOM	3255	HG13	ILE A 208	8.212	-12.899	-38.108	1.00	0.00	H
ATOM	3256	HG21	ILE A 208	9.251	-12.027	-40.432	1.00	0.00	H
ATOM	3257	HG22	ILE A 208	9.491	-11.105	-38.945	1.00	0.00	H
ATOM	3258	HG23	ILE A 208	10.874	-11.432	-40.008	1.00	0.00	H
ATOM	3259	HD11	ILE A 208	8.020	-14.728	-36.616	1.00	0.00	H
ATOM	3260	HD12	ILE A 208	9.557	-13.921	-36.266	1.00	0.00	H
ATOM	3261	HD13	ILE A 208	9.530	-15.457	-37.165	1.00	0.00	H
ATOM	3262	N	LEU A 209	12.480	-15.180	-38.091	1.00	0.00	N
ATOM	3263	CA	LEU A 209	12.918	-16.181	-37.124	1.00	0.00	C
ATOM	3264	C	LEU A 209	12.405	-15.803	-35.725	1.00	0.00	C
ATOM	3265	O	LEU A 209	12.503	-14.639	-35.334	1.00	0.00	O
ATOM	3266	CB	LEU A 209	14.457	-16.280	-37.146	1.00	0.00	C
ATOM	3267	CG	LEU A 209	15.110	-16.514	-38.520	1.00	0.00	C
ATOM	3268	CD1	LEU A 209	16.625	-16.636	-38.357	1.00	0.00	C
ATOM	3269	CD2	LEU A 209	14.604	-17.787	-39.190	1.00	0.00	C
ATOM	3270	H	LEU A 209	12.833	-14.237	-37.958	1.00	0.00	H
ATOM	3271	HA	LEU A 209	12.503	-17.155	-37.388	1.00	0.00	H
ATOM	3272	HB2	LEU A 209	14.866	-15.355	-36.745	1.00	0.00	H
ATOM	3273	HB3	LEU A 209	14.755	-17.089	-36.483	1.00	0.00	H

ATOM	3274	HG	LEU	A	209	14.906	-15.665	-39.175	1.00	0.00	H
ATOM	3275	HD11	LEU	A	209	17.023	-15.726	-37.907	1.00	0.00	H
ATOM	3276	HD12	LEU	A	209	16.863	-17.481	-37.710	1.00	0.00	H
ATOM	3277	HD13	LEU	A	209	17.095	-16.786	-39.328	1.00	0.00	H
ATOM	3278	HD21	LEU	A	209	15.135	-17.948	-40.127	1.00	0.00	H
ATOM	3279	HD22	LEU	A	209	13.540	-17.702	-39.405	1.00	0.00	H
ATOM	3280	HD23	LEU	A	209	14.770	-18.644	-38.536	1.00	0.00	H
ATOM	3281	N	ARG	A	210	12.060	-16.798	-34.904	1.00	0.00	N
ATOM	3282	CA	ARG	A	210	11.633	-16.638	-33.500	1.00	0.00	C
ATOM	3283	C	ARG	A	210	12.342	-17.667	-32.619	1.00	0.00	C
ATOM	3284	O	ARG	A	210	12.143	-18.859	-32.826	1.00	0.00	O
ATOM	3285	CB	ARG	A	210	10.104	-16.832	-33.448	1.00	0.00	C
ATOM	3286	CG	ARG	A	210	9.463	-16.556	-32.076	1.00	0.00	C
ATOM	3287	CD	ARG	A	210	9.222	-15.060	-31.838	1.00	0.00	C
ATOM	3288	NE	ARG	A	210	8.336	-14.813	-30.683	1.00	0.00	N
ATOM	3289	CZ	ARG	A	210	7.015	-14.863	-30.657	1.00	0.00	C
ATOM	3290	NH1	ARG	A	210	6.290	-15.248	-31.660	1.00	0.00	N
ATOM	3291	NH2	ARG	A	210	6.388	-14.676	-29.542	1.00	0.00	N
ATOM	3292	H	ARG	A	210	11.967	-17.724	-35.319	1.00	0.00	H
ATOM	3293	HA	ARG	A	210	11.884	-15.636	-33.148	1.00	0.00	H
ATOM	3294	HB2	ARG	A	210	9.630	-16.192	-34.195	1.00	0.00	H
ATOM	3295	HB3	ARG	A	210	9.878	-17.864	-33.725	1.00	0.00	H
ATOM	3296	HG2	ARG	A	210	8.511	-17.078	-32.040	1.00	0.00	H
ATOM	3297	HG3	ARG	A	210	10.081	-16.959	-31.276	1.00	0.00	H
ATOM	3298	HD2	ARG	A	210	10.185	-14.583	-31.657	1.00	0.00	H
ATOM	3299	HD3	ARG	A	210	8.781	-14.613	-32.731	1.00	0.00	H
ATOM	3300	HE	ARG	A	210	8.762	-14.671	-29.774	1.00	0.00	H
ATOM	3301	HH11	ARG	A	210	6.741	-15.705	-32.431	1.00	0.00	H
ATOM	3302	HH12	ARG	A	210	5.372	-15.615	-31.394	1.00	0.00	H
ATOM	3303	HH21	ARG	A	210	6.952	-14.687	-28.703	1.00	0.00	H



ATOM	3304	HH22	ARG	A 210	5.451	-15.085	-29.499	1.00	0.00	H
ATOM	3305	N	SER	A 211	13.165	-17.241	-31.657	1.00	0.00	N
ATOM	3306	CA	SER	A 211	13.763	-18.166	-30.675	1.00	0.00	C
ATOM	3307	C	SER	A 211	12.689	-18.807	-29.785	1.00	0.00	C
ATOM	3308	O	SER	A 211	11.583	-18.282	-29.644	1.00	0.00	O
ATOM	3309	CB	SER	A 211	14.818	-17.475	-29.800	1.00	0.00	C
ATOM	3310	OG	SER	A 211	15.889	-16.997	-30.591	1.00	0.00	O
ATOM	3311	H	SER	A 211	13.305	-16.253	-31.526	1.00	0.00	H
ATOM	3312	HA	SER	A 211	14.262	-18.969	-31.217	1.00	0.00	H
ATOM	3313	HB2	SER	A 211	14.359	-16.639	-29.271	1.00	0.00	H
ATOM	3314	HB3	SER	A 211	15.208	-18.183	-29.066	1.00	0.00	H
ATOM	3315	HG	SER	A 211	16.656	-17.591	-30.483	1.00	0.00	H
ATOM	3316	N	GLY	A 212	13.016	-19.934	-29.161	1.00	0.00	N
ATOM	3317	CA	GLY	A 212	12.067	-20.702	-28.366	1.00	0.00	C
ATOM	3318	C	GLY	A 212	12.660	-21.996	-27.816	1.00	0.00	C
ATOM	3319	O	GLY	A 212	13.880	-22.133	-27.699	1.00	0.00	O
ATOM	3320	H	GLY	A 212	13.903	-20.379	-29.383	1.00	0.00	H
ATOM	3321	HA2	GLY	A 212	11.697	-20.105	-27.533	1.00	0.00	H
ATOM	3322	HA3	GLY	A 212	11.225	-20.953	-29.009	1.00	0.00	H
ATOM	3323	N	LEU	A 213	11.789	-22.969	-27.559	1.00	0.00	N
ATOM	3324	CA	LEU	A 213	12.137	-24.318	-27.114	1.00	0.00	C
ATOM	3325	C	LEU	A 213	11.505	-25.368	-28.033	1.00	0.00	C
ATOM	3326	O	LEU	A 213	10.344	-25.238	-28.416	1.00	0.00	O
ATOM	3327	CB	LEU	A 213	11.678	-24.547	-25.660	1.00	0.00	C
ATOM	3328	CG	LEU	A 213	12.202	-23.538	-24.625	1.00	0.00	C
ATOM	3329	CD1	LEU	A 213	11.518	-23.746	-23.275	1.00	0.00	C
ATOM	3330	CD2	LEU	A 213	13.712	-23.665	-24.418	1.00	0.00	C
ATOM	3331	H	LEU	A 213	10.806	-22.779	-27.742	1.00	0.00	H
ATOM	3332	HA	LEU	A 213	13.218	-24.440	-27.158	1.00	0.00	H
ATOM	3333	HB2	LEU	A 213	10.588	-24.518	-25.642	1.00	0.00	H

ATOM	3334	HB3 LEU A 213	11.989	-25.547	-25.360	1.00	0.00	H
ATOM	3335	HG LEU A 213	11.971	-22.530	-24.959	1.00	0.00	H
ATOM	3336	HD11 LEU A 213	11.852	-22.985	-22.572	1.00	0.00	H
ATOM	3337	HD12 LEU A 213	11.757	-24.728	-22.872	1.00	0.00	H
ATOM	3338	HD13 LEU A 213	10.435	-23.658	-23.387	1.00	0.00	H
ATOM	3339	HD21 LEU A 213	14.231	-23.387	-25.332	1.00	0.00	H
ATOM	3340	HD22 LEU A 213	13.969	-24.692	-24.157	1.00	0.00	H
ATOM	3341	HD23 LEU A 213	14.029	-23.001	-23.616	1.00	0.00	H
ATOM	3342	N LEU A 214	12.201	-26.486	-28.235	1.00	0.00	N
ATOM	3343	CA LEU A 214	11.608	-27.748	-28.674	1.00	0.00	C
ATOM	3344	C LEU A 214	11.495	-28.692	-27.470	1.00	0.00	C
ATOM	3345	O LEU A 214	12.492	-29.215	-26.969	1.00	0.00	O
ATOM	3346	CB LEU A 214	12.415	-28.337	-29.844	1.00	0.00	C
ATOM	3347	CG LEU A 214	12.166	-27.599	-31.172	1.00	0.00	C
ATOM	3348	CD1 LEU A 214	13.267	-27.907	-32.187	1.00	0.00	C
ATOM	3349	CD2 LEU A 214	10.832	-27.982	-31.814	1.00	0.00	C
ATOM	3350	H LEU A 214	13.141	-26.525	-27.851	1.00	0.00	H
ATOM	3351	HA LEU A 214	10.595	-27.567	-29.029	1.00	0.00	H
ATOM	3352	HB2 LEU A 214	12.132	-29.377	-29.972	1.00	0.00	H
ATOM	3353	HB3 LEU A 214	13.476	-28.301	-29.593	1.00	0.00	H
ATOM	3354	HG LEU A 214	12.156	-26.528	-30.990	1.00	0.00	H
ATOM	3355	HD11 LEU A 214	13.274	-28.970	-32.419	1.00	0.00	H
ATOM	3356	HD12 LEU A 214	13.088	-27.340	-33.100	1.00	0.00	H
ATOM	3357	HD13 LEU A 214	14.235	-27.618	-31.776	1.00	0.00	H
ATOM	3358	HD21 LEU A 214	10.012	-27.833	-31.113	1.00	0.00	H
ATOM	3359	HD22 LEU A 214	10.852	-29.023	-32.129	1.00	0.00	H
ATOM	3360	HD23 LEU A 214	10.662	-27.352	-32.684	1.00	0.00	H
ATOM	3361	N LYS A 215	10.266	-28.811	-26.967	1.00	0.00	N
ATOM	3362	CA LYS A 215	9.820	-29.747	-25.930	1.00	0.00	C
ATOM	3363	C LYS A 215	9.801	-31.174	-26.493	1.00	0.00	C

ATOM	3364	O	LYS A 215	9.338	-31.381	-27.615	1.00	0.00	O
ATOM	3365	CB	LYS A 215	8.419	-29.274	-25.499	1.00	0.00	C
ATOM	3366	CG	LYS A 215	7.795	-30.022	-24.315	1.00	0.00	C
ATOM	3367	CD	LYS A 215	6.318	-29.619	-24.171	1.00	0.00	C
ATOM	3368	CE	LYS A 215	5.649	-30.297	-22.970	1.00	0.00	C
ATOM	3369	NZ	LYS A 215	5.777	-29.485	-21.736	1.00	0.00	N
ATOM	3370	H	LYS A 215	9.527	-28.344	-27.486	1.00	0.00	H
ATOM	3371	HA	LYS A 215	10.500	-29.701	-25.078	1.00	0.00	H
ATOM	3372	HB2	LYS A 215	8.469	-28.215	-25.238	1.00	0.00	H
ATOM	3373	HB3	LYS A 215	7.754	-29.368	-26.356	1.00	0.00	H
ATOM	3374	HG2	LYS A 215	7.851	-31.098	-24.481	1.00	0.00	H
ATOM	3375	HG3	LYS A 215	8.341	-29.765	-23.409	1.00	0.00	H
ATOM	3376	HD2	LYS A 215	6.227	-28.533	-24.085	1.00	0.00	H
ATOM	3377	HD3	LYS A 215	5.788	-29.930	-25.072	1.00	0.00	H
ATOM	3378	HE2	LYS A 215	6.085	-31.290	-22.828	1.00	0.00	H
ATOM	3379	HE3	LYS A 215	4.587	-30.421	-23.203	1.00	0.00	H
ATOM	3380	HZ1	LYS A 215	5.371	-29.936	-20.933	1.00	0.00	H
ATOM	3381	HZ2	LYS A 215	6.738	-29.237	-21.523	1.00	0.00	H
ATOM	3382	HZ3	LYS A 215	5.300	-28.584	-21.849	1.00	0.00	H
ATOM	3383	N	TYR A 216	10.211	-32.163	-25.703	1.00	0.00	N
ATOM	3384	CA	TYR A 216	10.307	-33.574	-26.106	1.00	0.00	C
ATOM	3385	C	TYR A 216	10.047	-34.480	-24.896	1.00	0.00	C
ATOM	3386	O	TYR A 216	10.918	-34.632	-24.041	1.00	0.00	O
ATOM	3387	CB	TYR A 216	11.706	-33.807	-26.698	1.00	0.00	C
ATOM	3388	CG	TYR A 216	11.950	-35.166	-27.331	1.00	0.00	C
ATOM	3389	CD1	TYR A 216	11.496	-35.426	-28.639	1.00	0.00	C
ATOM	3390	CD2	TYR A 216	12.696	-36.143	-26.644	1.00	0.00	C
ATOM	3391	CE1	TYR A 216	11.835	-36.632	-29.285	1.00	0.00	C
ATOM	3392	CE2	TYR A 216	13.027	-37.356	-27.279	1.00	0.00	C
ATOM	3393	CZ	TYR A 216	12.609	-37.596	-28.606	1.00	0.00	C

ATOM	3394	OH	TYR A 216	12.942	-38.761	-29.220	1.00	0.00	O
ATOM	3395	H	TYR A 216	10.663	-31.897	-24.833	1.00	0.00	H
ATOM	3396	HA	TYR A 216	9.565	-33.794	-26.877	1.00	0.00	H
ATOM	3397	HB2	TYR A 216	11.902	-33.045	-27.449	1.00	0.00	H
ATOM	3398	HB3	TYR A 216	12.448	-33.645	-25.918	1.00	0.00	H
ATOM	3399	HD1	TYR A 216	10.881	-34.700	-29.150	1.00	0.00	H
ATOM	3400	HD2	TYR A 216	13.019	-35.959	-25.627	1.00	0.00	H
ATOM	3401	HE1	TYR A 216	11.491	-36.834	-30.288	1.00	0.00	H
ATOM	3402	HE2	TYR A 216	13.614	-38.094	-26.756	1.00	0.00	H
ATOM	3403	HH	TYR A 216	13.212	-39.420	-28.580	1.00	0.00	H
ATOM	3404	N	ASN A 217	8.797	-34.913	-24.708	1.00	0.00	N
ATOM	3405	CA	ASN A 217	8.398	-35.717	-23.546	1.00	0.00	C
ATOM	3406	C	ASN A 217	8.552	-37.221	-23.814	1.00	0.00	C
ATOM	3407	O	ASN A 217	7.847	-37.780	-24.657	1.00	0.00	O
ATOM	3408	CB	ASN A 217	6.977	-35.331	-23.115	1.00	0.00	C
ATOM	3409	CG	ASN A 217	6.643	-35.996	-21.793	1.00	0.00	C
ATOM	3410	OD1	ASN A 217	7.339	-35.828	-20.808	1.00	0.00	O
ATOM	3411	ND2	ASN A 217	5.697	-36.901	-21.776	1.00	0.00	N
ATOM	3412	H	ASN A 217	8.115	-34.752	-25.432	1.00	0.00	H
ATOM	3413	HA	ASN A 217	9.056	-35.486	-22.711	1.00	0.00	H
ATOM	3414	HB2	ASN A 217	6.912	-34.252	-22.971	1.00	0.00	H
ATOM	3415	HB3	ASN A 217	6.260	-35.630	-23.878	1.00	0.00	H
ATOM	3416	HD21	ASN A 217	5.228	-37.169	-22.616	1.00	0.00	H
ATOM	3417	HD22	ASN A 217	5.710	-37.505	-20.954	1.00	0.00	H
ATOM	3418	N	LEU A 218	9.434	-37.880	-23.063	1.00	0.00	N
ATOM	3419	CA	LEU A 218	9.832	-39.273	-23.281	1.00	0.00	C
ATOM	3420	C	LEU A 218	8.716	-40.293	-22.977	1.00	0.00	C
ATOM	3421	O	LEU A 218	8.602	-41.267	-23.723	1.00	0.00	O
ATOM	3422	CB	LEU A 218	11.102	-39.547	-22.456	1.00	0.00	C
ATOM	3423	CG	LEU A 218	12.344	-38.735	-22.875	1.00	0.00	C

ATOM	3424	CD1 LEU A 218	13.437	-38.838	-21.816	1.00	0.00	C
ATOM	3425	CD2 LEU A 218	12.925	-39.242	-24.199	1.00	0.00	C
ATOM	3426	H LEU A 218	9.926	-37.370	-22.331	1.00	0.00	H
ATOM	3427	HA LEU A 218	10.072	-39.399	-24.335	1.00	0.00	H
ATOM	3428	HB2 LEU A 218	11.339	-40.610	-22.494	1.00	0.00	H
ATOM	3429	HB3 LEU A 218	10.878	-39.301	-21.424	1.00	0.00	H
ATOM	3430	HG LEU A 218	12.085	-37.682	-22.993	1.00	0.00	H
ATOM	3431	HD21 LEU A 218	12.190	-39.122	-24.992	1.00	0.00	H
ATOM	3432	HD22 LEU A 218	13.816	-38.665	-24.440	1.00	0.00	H
ATOM	3433	HD23 LEU A 218	13.191	-40.294	-24.099	1.00	0.00	H
ATOM	3434	HD11 LEU A 218	14.313	-38.263	-22.113	1.00	0.00	H
ATOM	3435	HD12 LEU A 218	13.717	-39.879	-21.662	1.00	0.00	H
ATOM	3436	HD13 LEU A 218	13.064	-38.438	-20.871	1.00	0.00	H
ATOM	3437	N SER A 219	7.728	-39.936	-22.142	1.00	0.00	N
ATOM	3438	CA SER A 219	6.552	-40.782	-21.839	1.00	0.00	C
ATOM	3439	C SER A 219	5.671	-41.085	-23.058	1.00	0.00	C
ATOM	3440	O SER A 219	4.808	-41.958	-23.002	1.00	0.00	O
ATOM	3441	CB SER A 219	5.637	-40.178	-20.752	1.00	0.00	C
ATOM	3442	OG SER A 219	6.194	-39.092	-20.043	1.00	0.00	O
ATOM	3443	H SER A 219	7.941	-39.201	-21.477	1.00	0.00	H
ATOM	3444	HA SER A 219	6.925	-41.734	-21.462	1.00	0.00	H
ATOM	3445	HB2 SER A 219	5.363	-40.963	-20.044	1.00	0.00	H
ATOM	3446	HB3 SER A 219	4.719	-39.814	-21.215	1.00	0.00	H
ATOM	3447	HG SER A 219	7.087	-39.380	-19.692	1.00	0.00	H
ATOM	3448	N LEU A 220	5.814	-40.321	-24.148	1.00	0.00	N
ATOM	3449	CA LEU A 220	5.107	-40.551	-25.407	1.00	0.00	C
ATOM	3450	C LEU A 220	5.605	-41.847	-26.065	1.00	0.00	C
ATOM	3451	O LEU A 220	5.358	-42.083	-27.251	1.00	0.00	O
ATOM	3452	CB LEU A 220	5.281	-39.321	-26.318	1.00	0.00	C
ATOM	3453	CG LEU A 220	4.695	-38.007	-25.766	1.00	0.00	C

ATOM	3454	CD1 LEU A 220	5.059	-36.857	-26.705	1.00	0.00	C
ATOM	3455	CD2 LEU A 220	3.170	-38.064	-25.653	1.00	0.00	C
ATOM	3456	H LEU A 220	6.579	-39.655	-24.143	1.00	0.00	H
ATOM	3457	HA LEU A 220	4.048	-40.699	-25.193	1.00	0.00	H
ATOM	3458	HB2 LEU A 220	6.347	-39.181	-26.481	1.00	0.00	H
ATOM	3459	HB3 LEU A 220	4.818	-39.526	-27.284	1.00	0.00	H
ATOM	3460	HG LEU A 220	5.110	-37.793	-24.781	1.00	0.00	H
ATOM	3461	HD11 LEU A 220	4.649	-35.922	-26.324	1.00	0.00	H
ATOM	3462	HD12 LEU A 220	4.655	-37.047	-27.698	1.00	0.00	H
ATOM	3463	HD13 LEU A 220	6.143	-36.760	-26.761	1.00	0.00	H
ATOM	3464	HD21 LEU A 220	2.879	-38.806	-24.911	1.00	0.00	H
ATOM	3465	HD22 LEU A 220	2.789	-37.094	-25.333	1.00	0.00	H
ATOM	3466	HD23 LEU A 220	2.732	-38.321	-26.617	1.00	0.00	H
ATOM	3467	H LEU A 220	6.181	-42.563	-25.480	1.00	0.00	H
ATOM	3468	N ILE A 221	9.238	-40.378	-30.930	1.00	0.00	N
ATOM	3469	CA ILE A 221	8.601	-39.460	-29.982	1.00	0.00	C
ATOM	3470	C ILE A 221	8.507	-38.058	-30.614	1.00	0.00	C
ATOM	3471	O ILE A 221	9.183	-37.754	-31.600	1.00	0.00	O
ATOM	3472	CB ILE A 221	9.332	-39.510	-28.611	1.00	0.00	C
ATOM	3473	CG1 ILE A 221	8.897	-40.727	-27.757	1.00	0.00	C
ATOM	3474	CG2 ILE A 221	9.106	-38.265	-27.731	1.00	0.00	C
ATOM	3475	CD1 ILE A 221	9.225	-42.107	-28.341	1.00	0.00	C
ATOM	3476	HA ILE A 221	7.578	-39.802	-29.821	1.00	0.00	H
ATOM	3477	HB ILE A 221	10.404	-39.583	-28.794	1.00	0.00	H
ATOM	3478	HG12 ILE A 221	9.390	-40.667	-26.785	1.00	0.00	H
ATOM	3479	HG13 ILE A 221	7.822	-40.677	-27.586	1.00	0.00	H
ATOM	3480	HG21 ILE A 221	9.468	-37.365	-28.224	1.00	0.00	H
ATOM	3481	HG22 ILE A 221	9.656	-38.365	-26.794	1.00	0.00	H
ATOM	3482	HG23 ILE A 221	8.051	-38.142	-27.500	1.00	0.00	H
ATOM	3483	HD11 ILE A 221	9.016	-42.871	-27.591	1.00	0.00	H

ATOM	3484	HD12	ILE A 221	8.602	-42.307	-29.212	1.00	0.00	H
ATOM	3485	HD13	ILE A 221	10.278	-42.155	-28.618	1.00	0.00	H
ATOM	3486	H	ILE A 221	9.789	-39.946	-31.664	1.00	0.00	H
ATOM	3487	H	ILE A 221	8.507	-40.925	-31.372	1.00	0.00	H
ATOM	3488	N	ILE A 222	7.499	-37.295	-30.186	1.00	0.00	N
ATOM	3489	CA	ILE A 222	7.091	-36.014	-30.780	1.00	0.00	C
ATOM	3490	C	ILE A 222	7.971	-34.871	-30.258	1.00	0.00	C
ATOM	3491	O	ILE A 222	8.118	-34.718	-29.045	1.00	0.00	O
ATOM	3492	CB	ILE A 222	5.590	-35.754	-30.493	1.00	0.00	C
ATOM	3493	CG1	ILE A 222	4.731	-36.970	-30.920	1.00	0.00	C
ATOM	3494	CG2	ILE A 222	5.124	-34.465	-31.186	1.00	0.00	C
ATOM	3495	CD1	ILE A 222	3.213	-36.800	-30.784	1.00	0.00	C
ATOM	3496	H	ILE A 222	7.020	-37.586	-29.349	1.00	0.00	H
ATOM	3497	HA	ILE A 222	7.225	-36.075	-31.862	1.00	0.00	H
ATOM	3498	HB	ILE A 222	5.463	-35.611	-29.420	1.00	0.00	H
ATOM	3499	HG12	ILE A 222	4.963	-37.211	-31.953	1.00	0.00	H
ATOM	3500	HG13	ILE A 222	5.002	-37.830	-30.307	1.00	0.00	H
ATOM	3501	HD11	ILE A 222	2.725	-37.760	-30.948	1.00	0.00	H
ATOM	3502	HD12	ILE A 222	2.965	-36.438	-29.786	1.00	0.00	H
ATOM	3503	HD13	ILE A 222	2.844	-36.096	-31.530	1.00	0.00	H
ATOM	3504	HG21	ILE A 222	5.672	-33.608	-30.803	1.00	0.00	H
ATOM	3505	HG22	ILE A 222	4.077	-34.276	-30.958	1.00	0.00	H
ATOM	3506	HG23	ILE A 222	5.256	-34.528	-32.265	1.00	0.00	H
ATOM	3507	N	LEU A 223	8.415	-33.980	-31.152	1.00	0.00	N
ATOM	3508	CA	LEU A 223	8.852	-32.629	-30.778	1.00	0.00	C
ATOM	3509	C	LEU A 223	7.671	-31.651	-30.800	1.00	0.00	C
ATOM	3510	O	LEU A 223	6.949	-31.593	-31.793	1.00	0.00	O
ATOM	3511	CB	LEU A 223	9.948	-32.132	-31.734	1.00	0.00	C
ATOM	3512	CG	LEU A 223	11.311	-32.821	-31.586	1.00	0.00	C
ATOM	3513	CD1	LEU A 223	12.212	-32.365	-32.730	1.00	0.00	C

ATOM	3514	CD2 LEU A 223	12.032	-32.444	-30.292	1.00	0.00	C
ATOM	3515	H LEU A 223	8.192	-34.144	-32.128	1.00	0.00	H
ATOM	3516	HA LEU A 223	9.242	-32.647	-29.762	1.00	0.00	H
ATOM	3517	HB2 LEU A 223	10.087	-31.064	-31.568	1.00	0.00	H
ATOM	3518	HB3 LEU A 223	9.593	-32.270	-32.755	1.00	0.00	H
ATOM	3519	HG LEU A 223	11.188	-33.903	-31.633	1.00	0.00	H
ATOM	3520	HD11 LEU A 223	12.268	-31.278	-32.755	1.00	0.00	H
ATOM	3521	HD12 LEU A 223	13.209	-32.767	-32.573	1.00	0.00	H
ATOM	3522	HD13 LEU A 223	11.818	-32.727	-33.678	1.00	0.00	H
ATOM	3523	HD21 LEU A 223	12.466	-31.453	-30.370	1.00	0.00	H
ATOM	3524	HD22 LEU A 223	11.339	-32.449	-29.457	1.00	0.00	H
ATOM	3525	HD23 LEU A 223	12.832	-33.160	-30.099	1.00	0.00	H
ATOM	3526	N GLN A 224	7.596	-30.752	-29.820	1.00	0.00	N
ATOM	3527	CA GLN A 224	6.581	-29.692	-29.748	1.00	0.00	C
ATOM	3528	C GLN A 224	7.254	-28.324	-29.547	1.00	0.00	C
ATOM	3529	O GLN A 224	8.116	-28.184	-28.680	1.00	0.00	O
ATOM	3530	CB GLN A 224	5.561	-30.008	-28.638	1.00	0.00	C
ATOM	3531	CG GLN A 224	4.902	-31.390	-28.796	1.00	0.00	C
ATOM	3532	CD GLN A 224	3.775	-31.615	-27.796	1.00	0.00	C
ATOM	3533	OE1 GLN A 224	3.917	-31.395	-26.601	1.00	0.00	O
ATOM	3534	NE2 GLN A 224	2.643	-32.127	-28.223	1.00	0.00	N
ATOM	3535	H GLN A 224	8.243	-30.836	-29.041	1.00	0.00	H
ATOM	3536	HA GLN A 224	6.032	-29.657	-30.686	1.00	0.00	H
ATOM	3537	HB2 GLN A 224	4.782	-29.244	-28.660	1.00	0.00	H
ATOM	3538	HB3 GLN A 224	6.052	-29.965	-27.667	1.00	0.00	H
ATOM	3539	HG2 GLN A 224	4.504	-31.483	-29.803	1.00	0.00	H
ATOM	3540	HG3 GLN A 224	5.641	-32.178	-28.650	1.00	0.00	H
ATOM	3541	HE21 GLN A 224	2.484	-32.304	-29.226	1.00	0.00	H
ATOM	3542	HE22 GLN A 224	1.918	-32.267	-27.551	1.00	0.00	H
ATOM	3543	N PHE A 225	6.965	-27.338	-30.401	1.00	0.00	N



ATOM	3544	CA	PHE A 225	7.614	-26.020	-30.343	1.00	0.00	C
ATOM	3545	C	PHE A 225	6.866	-25.024	-29.446	1.00	0.00	C
ATOM	3546	O	PHE A 225	5.677	-24.774	-29.647	1.00	0.00	O
ATOM	3547	CB	PHE A 225	7.821	-25.455	-31.751	1.00	0.00	C
ATOM	3548	CG	PHE A 225	8.544	-24.116	-31.779	1.00	0.00	C
ATOM	3549	CD1	PHE A 225	9.917	-24.045	-31.475	1.00	0.00	C
ATOM	3550	CD2	PHE A 225	7.844	-22.933	-32.088	1.00	0.00	C
ATOM	3551	CE1	PHE A 225	10.584	-22.806	-31.473	1.00	0.00	C
ATOM	3552	CE2	PHE A 225	8.512	-21.694	-32.093	1.00	0.00	C
ATOM	3553	CZ	PHE A 225	9.881	-21.629	-31.782	1.00	0.00	C
ATOM	3554	H	PHE A 225	6.244	-27.497	-31.099	1.00	0.00	H
ATOM	3555	HA	PHE A 225	8.607	-26.151	-29.916	1.00	0.00	H
ATOM	3556	HB2	PHE A 225	6.849	-25.344	-32.229	1.00	0.00	H
ATOM	3557	HB3	PHE A 225	8.398	-26.175	-32.331	1.00	0.00	H
ATOM	3558	HD1	PHE A 225	10.458	-24.943	-31.217	1.00	0.00	H
ATOM	3559	HD2	PHE A 225	6.787	-22.970	-32.308	1.00	0.00	H
ATOM	3560	HE1	PHE A 225	11.634	-22.756	-31.222	1.00	0.00	H
ATOM	3561	HE2	PHE A 225	7.968	-20.790	-32.325	1.00	0.00	H
ATOM	3562	HZ	PHE A 225	10.390	-20.675	-31.772	1.00	0.00	H
ATOM	3563	N	ILE A 226	7.625	-24.304	-28.618	1.00	0.00	N
ATOM	3564	CA	ILE A 226	7.180	-23.154	-27.828	1.00	0.00	C
ATOM	3565	C	ILE A 226	7.976	-21.914	-28.254	1.00	0.00	C
ATOM	3566	O	ILE A 226	9.201	-21.909	-28.168	1.00	0.00	O
ATOM	3567	CB	ILE A 226	7.353	-23.469	-26.324	1.00	0.00	C
ATOM	3568	CG1	ILE A 226	6.435	-24.610	-25.818	1.00	0.00	C
ATOM	3569	CG2	ILE A 226	7.161	-22.206	-25.477	1.00	0.00	C
ATOM	3570	CD1	ILE A 226	4.926	-24.325	-25.867	1.00	0.00	C
ATOM	3571	H	ILE A 226	8.612	-24.539	-28.562	1.00	0.00	H
ATOM	3572	HA	ILE A 226	6.127	-22.956	-28.024	1.00	0.00	H
ATOM	3573	HB	ILE A 226	8.382	-23.801	-26.171	1.00	0.00	H

ATOM	3574	HG12	ILE A 226	6.634	-25.513	-26.396	1.00	0.00	H
ATOM	3575	HG13	ILE A 226	6.700	-24.830	-24.782	1.00	0.00	H
ATOM	3576	HG21	ILE A 226	6.226	-21.710	-25.735	1.00	0.00	H
ATOM	3577	HG22	ILE A 226	7.161	-22.483	-24.425	1.00	0.00	H
ATOM	3578	HG23	ILE A 226	7.990	-21.516	-25.638	1.00	0.00	H
ATOM	3579	HD11	ILE A 226	4.386	-25.191	-25.486	1.00	0.00	H
ATOM	3580	HD12	ILE A 226	4.608	-24.141	-26.893	1.00	0.00	H
ATOM	3581	HD13	ILE A 226	4.680	-23.463	-25.247	1.00	0.00	H
ATOM	3582	N	GLU A 227	7.288	-20.835	-28.626	1.00	0.00	N
ATOM	3583	CA	GLU A 227	7.908	-19.535	-28.907	1.00	0.00	C
ATOM	3584	C	GLU A 227	8.277	-18.760	-27.628	1.00	0.00	C
ATOM	3585	O	GLU A 227	7.578	-18.840	-26.617	1.00	0.00	O
ATOM	3586	CB	GLU A 227	6.991	-18.713	-29.825	1.00	0.00	C
ATOM	3587	CG	GLU A 227	5.584	-18.406	-29.270	1.00	0.00	C
ATOM	3588	CD	GLU A 227	4.750	-17.576	-30.263	1.00	0.00	C
ATOM	3589	OE1	GLU A 227	4.931	-17.794	-31.481	1.00	0.00	O
ATOM	3590	OE2	GLU A 227	4.396	-16.433	-29.902	1.00	0.00	O
ATOM	3591	H	GLU A 227	6.282	-20.874	-28.594	1.00	0.00	H
ATOM	3592	HA	GLU A 227	8.835	-19.710	-29.456	1.00	0.00	H
ATOM	3593	HB2	GLU A 227	7.484	-17.766	-30.045	1.00	0.00	H
ATOM	3594	HB3	GLU A 227	6.886	-19.263	-30.760	1.00	0.00	H
ATOM	3595	HG2	GLU A 227	5.060	-19.342	-29.061	1.00	0.00	H
ATOM	3596	HG3	GLU A 227	5.681	-17.858	-28.330	1.00	0.00	H
ATOM	3597	N	ILE A 228	9.330	-17.936	-27.700	1.00	0.00	N
ATOM	3598	CA	ILE A 228	9.667	-16.948	-26.661	1.00	0.00	C
ATOM	3599	C	ILE A 228	8.743	-15.723	-26.719	1.00	0.00	C
ATOM	3600	O	ILE A 228	8.392	-15.267	-27.809	1.00	0.00	O
ATOM	3601	CB	ILE A 228	11.162	-16.557	-26.753	1.00	0.00	C
ATOM	3602	CG1	ILE A 228	11.657	-15.952	-25.422	1.00	0.00	C
ATOM	3603	CG2	ILE A 228	11.480	-15.590	-27.913	1.00	0.00	C

ATOM	3604	CD1 ILE A 228	13.176	-16.067	-25.260	1.00	0.00	C
ATOM	3605	H ILE A 228	9.904	-17.948	-28.535	1.00	0.00	H
ATOM	3606	HA ILE A 228	9.504	-17.430	-25.697	1.00	0.00	H
ATOM	3607	HB ILE A 228	11.717	-17.482	-26.922	1.00	0.00	H
ATOM	3608	HG12 ILE A 228	11.200	-16.487	-24.591	1.00	0.00	H
ATOM	3609	HG13 ILE A 228	11.361	-14.905	-25.346	1.00	0.00	H
ATOM	3610	HG21 ILE A 228	11.091	-14.594	-27.697	1.00	0.00	H
ATOM	3611	HG22 ILE A 228	12.557	-15.524	-28.056	1.00	0.00	H
ATOM	3612	HG23 ILE A 228	11.025	-15.946	-28.835	1.00	0.00	H
ATOM	3613	HD11 ILE A 228	13.481	-17.105	-25.380	1.00	0.00	H
ATOM	3614	HD12 ILE A 228	13.688	-15.457	-26.004	1.00	0.00	H
ATOM	3615	HD13 ILE A 228	13.458	-15.730	-24.262	1.00	0.00	H
ATOM	3616	N ALA A 229	8.451	-15.112	-25.569	1.00	0.00	N
ATOM	3617	CA ALA A 229	7.614	-13.914	-25.441	1.00	0.00	C
ATOM	3618	C ALA A 229	8.048	-12.710	-26.315	1.00	0.00	C
ATOM	3619	O ALA A 229	9.199	-12.581	-26.734	1.00	0.00	O
ATOM	3620	CB ALA A 229	7.552	-13.532	-23.955	1.00	0.00	C
ATOM	3621	H ALA A 229	8.679	-15.614	-24.717	1.00	0.00	H
ATOM	3622	HA ALA A 229	6.605	-14.188	-25.754	1.00	0.00	H
ATOM	3623	HB1 ALA A 229	6.865	-12.696	-23.817	1.00	0.00	H
ATOM	3624	HB2 ALA A 229	8.544	-13.245	-23.605	1.00	0.00	H
ATOM	3625	HB3 ALA A 229	7.192	-14.381	-23.373	1.00	0.00	H
ATOM	3626	N ASP A 230	7.120	-11.771	-26.517	1.00	0.00	N
ATOM	3627	CA ASP A 230	7.316	-10.492	-27.218	1.00	0.00	C
ATOM	3628	C ASP A 230	8.240	-9.513	-26.462	1.00	0.00	C
ATOM	3629	O ASP A 230	8.782	-8.571	-27.045	1.00	0.00	O
ATOM	3630	CB ASP A 230	5.942	-9.817	-27.387	1.00	0.00	C
ATOM	3631	CG ASP A 230	5.325	-9.431	-26.033	1.00	0.00	C
ATOM	3632	OD1 ASP A 230	5.072	-10.388	-25.267	1.00	0.00	O
ATOM	3633	OD2 ASP A 230	5.645	-8.305	-25.587	1.00	0.00	O

ATOM	3634	H	ASP A 230	6.227	-11.859	-26.036	1.00	0.00	H
ATOM	3635	HA	ASP A 230	7.739	-10.686	-28.202	1.00	0.00	H
ATOM	3636	HB2	ASP A 230	5.267	-10.496	-27.912	1.00	0.00	H
ATOM	3637	HB3	ASP A 230	6.057	-8.923	-28.003	1.00	0.00	H
ATOM	3638	N	ASN A 231	8.360	-9.683	-25.142	1.00	0.00	N
ATOM	3639	CA	ASN A 231	9.047	-8.740	-24.267	1.00	0.00	C
ATOM	3640	C	ASN A 231	10.544	-8.696	-24.639	1.00	0.00	C
ATOM	3641	O	ASN A 231	11.232	-9.709	-24.520	1.00	0.00	O
ATOM	3642	CB	ASN A 231	8.842	-9.156	-22.794	1.00	0.00	C
ATOM	3643	CG	ASN A 231	7.414	-9.377	-22.302	1.00	0.00	C
ATOM	3644	OD1	ASN A 231	7.223	-9.968	-21.250	1.00	0.00	O
ATOM	3645	ND2	ASN A 231	6.375	-8.931	-22.964	1.00	0.00	N
ATOM	3646	H	ASN A 231	7.796	-10.411	-24.730	1.00	0.00	H
ATOM	3647	HA	ASN A 231	8.612	-7.751	-24.418	1.00	0.00	H
ATOM	3648	HB2	ASN A 231	9.383	-10.086	-22.616	1.00	0.00	H
ATOM	3649	HB3	ASN A 231	9.282	-8.389	-22.157	1.00	0.00	H
ATOM	3650	HD21	ASN A 231	6.424	-8.600	-23.933	1.00	0.00	H
ATOM	3651	HD22	ASN A 231	5.475	-9.282	-22.691	1.00	0.00	H
ATOM	3652	N	ARG A 232	11.042	-7.553	-25.144	1.00	0.00	N
ATOM	3653	CA	ARG A 232	12.352	-7.442	-25.837	1.00	0.00	C
ATOM	3654	C	ARG A 232	12.522	-8.508	-26.936	1.00	0.00	C
ATOM	3655	O	ARG A 232	13.543	-9.192	-27.007	1.00	0.00	O
ATOM	3656	CB	ARG A 232	13.546	-7.390	-24.850	1.00	0.00	C
ATOM	3657	CG	ARG A 232	13.652	-6.054	-24.097	1.00	0.00	C
ATOM	3658	CD	ARG A 232	14.786	-6.038	-23.058	1.00	0.00	C
ATOM	3659	NE	ARG A 232	16.146	-6.118	-23.637	1.00	0.00	N
ATOM	3660	CZ	ARG A 232	17.259	-6.313	-22.953	1.00	0.00	C
ATOM	3661	NH1	ARG A 232	18.393	-6.455	-23.566	1.00	0.00	N
ATOM	3662	NH2	ARG A 232	17.264	-6.371	-21.650	1.00	0.00	N
ATOM	3663	H	ARG A 232	10.377	-6.805	-25.281	1.00	0.00	H

ATOM	3664	HA	ARG A 232	12.359	-6.502	-26.389	1.00	0.00	H
ATOM	3665	HB2	ARG A 232	14.476	-7.514	-25.408	1.00	0.00	H
ATOM	3666	HB3	ARG A 232	13.469	-8.211	-24.138	1.00	0.00	H
ATOM	3667	HG2	ARG A 232	13.809	-5.245	-24.812	1.00	0.00	H
ATOM	3668	HG3	ARG A 232	12.713	-5.873	-23.573	1.00	0.00	H
ATOM	3669	HD2	ARG A 232	14.639	-6.878	-22.375	1.00	0.00	H
ATOM	3670	HD3	ARG A 232	14.707	-5.115	-22.480	1.00	0.00	H
ATOM	3671	HE	ARG A 232	16.274	-6.116	-24.653	1.00	0.00	H
ATOM	3672	HH11	ARG A 232	18.430	-6.224	-24.572	1.00	0.00	H
ATOM	3673	HH12	ARG A 232	19.255	-6.499	-23.067	1.00	0.00	H
ATOM	3674	HH21	ARG A 232	16.464	-6.020	-21.136	1.00	0.00	H
ATOM	3675	HH22	ARG A 232	18.084	-6.677	-21.145	1.00	0.00	H
ATOM	3676	N	LEU A 233	11.526	-8.657	-27.811	1.00	0.00	N
ATOM	3677	CA	LEU A 233	11.640	-9.473	-29.019	1.00	0.00	C
ATOM	3678	C	LEU A 233	12.813	-8.994	-29.889	1.00	0.00	C
ATOM	3679	O	LEU A 233	12.936	-7.812	-30.199	1.00	0.00	O
ATOM	3680	CB	LEU A 233	10.307	-9.446	-29.792	1.00	0.00	C
ATOM	3681	CG	LEU A 233	10.280	-10.286	-31.081	1.00	0.00	C
ATOM	3682	CD1	LEU A 233	10.450	-11.781	-30.806	1.00	0.00	C
ATOM	3683	CD2	LEU A 233	8.944	-10.092	-31.801	1.00	0.00	C
ATOM	3684	H	LEU A 233	10.642	-8.197	-27.629	1.00	0.00	H
ATOM	3685	HA	LEU A 233	11.834	-10.499	-28.703	1.00	0.00	H
ATOM	3686	HB2	LEU A 233	9.520	-9.812	-29.137	1.00	0.00	H
ATOM	3687	HB3	LEU A 233	10.080	-8.410	-30.047	1.00	0.00	H
ATOM	3688	HG	LEU A 233	11.076	-9.963	-31.748	1.00	0.00	H
ATOM	3689	HD11	LEU A 233	10.381	-12.324	-31.747	1.00	0.00	H
ATOM	3690	HD12	LEU A 233	9.674	-12.125	-30.120	1.00	0.00	H
ATOM	3691	HD13	LEU A 233	11.427	-11.980	-30.372	1.00	0.00	H
ATOM	3692	HD21	LEU A 233	8.804	-9.037	-32.036	1.00	0.00	H
ATOM	3693	HD22	LEU A 233	8.124	-10.427	-31.165	1.00	0.00	H

ATOM	3694	HD23 LEU A 233	8.940	-10.665	-32.727	1.00	0.00	H
ATOM	3695	N THR A 234	13.595	-9.950	-30.380	1.00	0.00	N
ATOM	3696	CA THR A 234	14.648	-9.774	-31.390	1.00	0.00	C
ATOM	3697	C THR A 234	14.591	-10.953	-32.357	1.00	0.00	C
ATOM	3698	O THR A 234	13.956	-11.966	-32.048	1.00	0.00	O
ATOM	3699	CB THR A 234	16.049	-9.672	-30.755	1.00	0.00	C
ATOM	3700	OG1 THR A 234	16.340	-10.798	-29.952	1.00	0.00	O
ATOM	3701	CG2 THR A 234	16.215	-8.444	-29.867	1.00	0.00	C
ATOM	3702	H THR A 234	13.367	-10.906	-30.153	1.00	0.00	H
ATOM	3703	HA THR A 234	14.462	-8.862	-31.958	1.00	0.00	H
ATOM	3704	HB THR A 234	16.794	-9.612	-31.549	1.00	0.00	H
ATOM	3705	HG1 THR A 234	16.567	-11.540	-30.532	1.00	0.00	H
ATOM	3706	HG21 THR A 234	16.038	-7.539	-30.451	1.00	0.00	H
ATOM	3707	HG22 THR A 234	15.518	-8.465	-29.030	1.00	0.00	H
ATOM	3708	HG23 THR A 234	17.233	-8.423	-29.485	1.00	0.00	H
ATOM	3709	N ILE A 235	15.323	-10.871	-33.474	1.00	0.00	N
ATOM	3710	CA ILE A 235	15.451	-11.970	-34.441	1.00	0.00	C
ATOM	3711	C ILE A 235	15.783	-13.296	-33.752	1.00	0.00	C
ATOM	3712	O ILE A 235	16.641	-13.347	-32.869	1.00	0.00	O
ATOM	3713	CB ILE A 235	16.486	-11.627	-35.539	1.00	0.00	C
ATOM	3714	CG1 ILE A 235	16.565	-12.770	-36.578	1.00	0.00	C
ATOM	3715	CG2 ILE A 235	17.888	-11.313	-34.978	1.00	0.00	C
ATOM	3716	CD1 ILE A 235	17.174	-12.369	-37.923	1.00	0.00	C
ATOM	3717	H ILE A 235	15.847	-10.028	-33.654	1.00	0.00	H
ATOM	3718	HA ILE A 235	14.480	-12.089	-34.924	1.00	0.00	H
ATOM	3719	HB ILE A 235	16.127	-10.730	-36.038	1.00	0.00	H
ATOM	3720	HG12 ILE A 235	15.559	-13.135	-36.779	1.00	0.00	H
ATOM	3721	HG13 ILE A 235	17.147	-13.596	-36.169	1.00	0.00	H
ATOM	3722	HG21 ILE A 235	18.510	-10.894	-35.766	1.00	0.00	H
ATOM	3723	HG22 ILE A 235	17.834	-10.575	-34.180	1.00	0.00	H

ATOM	3724	HG23	ILE A 235	18.358	-12.217	-34.590	1.00	0.00	H
ATOM	3725	HD11	ILE A 235	18.155	-11.930	-37.781	1.00	0.00	H
ATOM	3726	HD12	ILE A 235	16.539	-11.639	-38.411	1.00	0.00	H
ATOM	3727	HD13	ILE A 235	17.263	-13.247	-38.562	1.00	0.00	H
ATOM	3728	N	GLY A 236	15.112	-14.368	-34.178	1.00	0.00	N
ATOM	3729	CA	GLY A 236	15.406	-15.726	-33.742	1.00	0.00	C
ATOM	3730	C	GLY A 236	16.870	-16.076	-33.984	1.00	0.00	C
ATOM	3731	O	GLY A 236	17.353	-16.100	-35.115	1.00	0.00	O
ATOM	3732	H	GLY A 236	14.345	-14.232	-34.828	1.00	0.00	H
ATOM	3733	HA2	GLY A 236	14.783	-16.441	-34.274	1.00	0.00	H
ATOM	3734	HA3	GLY A 236	15.188	-15.800	-32.680	1.00	0.00	H
ATOM	3735	N	SER A 237	17.580	-16.295	-32.888	1.00	0.00	N
ATOM	3736	CA	SER A 237	19.033	-16.396	-32.801	1.00	0.00	C
ATOM	3737	C	SER A 237	19.416	-17.476	-31.783	1.00	0.00	C
ATOM	3738	O	SER A 237	18.564	-17.853	-30.967	1.00	0.00	O
ATOM	3739	CB	SER A 237	19.610	-15.037	-32.419	1.00	0.00	C
ATOM	3740	OG	SER A 237	19.157	-14.633	-31.146	1.00	0.00	O
ATOM	3741	H	SER A 237	17.090	-16.249	-32.002	1.00	0.00	H
ATOM	3742	HA	SER A 237	19.436	-16.655	-33.776	1.00	0.00	H
ATOM	3743	HB2	SER A 237	19.318	-14.298	-33.167	1.00	0.00	H
ATOM	3744	HB3	SER A 237	20.696	-15.110	-32.400	1.00	0.00	H
ATOM	3745	HG	SER A 237	19.886	-14.136	-30.719	1.00	0.00	H
ATOM	3746	N	PRO A 238	20.635	-18.048	-31.853	1.00	0.00	N
ATOM	3747	CA	PRO A 238	20.950	-19.217	-31.049	1.00	0.00	C
ATOM	3748	C	PRO A 238	20.926	-18.900	-29.551	1.00	0.00	C
ATOM	3749	O	PRO A 238	21.413	-17.858	-29.106	1.00	0.00	O
ATOM	3750	CB	PRO A 238	22.297	-19.750	-31.538	1.00	0.00	C
ATOM	3751	CG	PRO A 238	22.463	-19.121	-32.921	1.00	0.00	C
ATOM	3752	CD	PRO A 238	21.701	-17.800	-32.813	1.00	0.00	C
ATOM	3753	HA	PRO A 238	20.189	-19.960	-31.269	1.00	0.00	H

ATOM	3754	HB2 PRO A 238	22.300	-20.840	-31.592	1.00	0.00	H
ATOM	3755	HB3 PRO A 238	23.095	-19.408	-30.888	1.00	0.00	H
ATOM	3756	HG2 PRO A 238	23.513	-18.963	-33.175	1.00	0.00	H
ATOM	3757	HG3 PRO A 238	21.986	-19.759	-33.664	1.00	0.00	H
ATOM	3758	HD2 PRO A 238	21.328	-17.518	-33.798	1.00	0.00	H
ATOM	3759	HD3 PRO A 238	22.364	-17.025	-32.426	1.00	0.00	H
ATOM	3760	N SER A 239	20.348	-19.803	-28.769	1.00	0.00	N
ATOM	3761	CA SER A 239	19.942	-19.567	-27.378	1.00	0.00	C
ATOM	3762	C SER A 239	20.324	-20.732	-26.459	1.00	0.00	C
ATOM	3763	O SER A 239	20.978	-21.674	-26.889	1.00	0.00	O
ATOM	3764	CB SER A 239	18.436	-19.250	-27.353	1.00	0.00	C
ATOM	3765	OG SER A 239	17.650	-20.206	-28.044	1.00	0.00	O
ATOM	3766	H SER A 239	19.967	-20.631	-29.220	1.00	0.00	H
ATOM	3767	HA SER A 239	20.461	-18.690	-26.992	1.00	0.00	H
ATOM	3768	HB2 SER A 239	18.088	-19.188	-26.323	1.00	0.00	H
ATOM	3769	HB3 SER A 239	18.277	-18.276	-27.822	1.00	0.00	H
ATOM	3770	HG SER A 239	17.740	-21.064	-27.624	1.00	0.00	H
ATOM	3771	N LYS A 240	20.030	-20.626	-25.164	1.00	0.00	N
ATOM	3772	CA LYS A 240	20.440	-21.590	-24.133	1.00	0.00	C
ATOM	3773	C LYS A 240	19.489	-21.507	-22.945	1.00	0.00	C
ATOM	3774	O LYS A 240	19.059	-20.413	-22.584	1.00	0.00	O
ATOM	3775	CB LYS A 240	21.907	-21.288	-23.771	1.00	0.00	C
ATOM	3776	CG LYS A 240	22.463	-21.918	-22.488	1.00	0.00	C
ATOM	3777	CD LYS A 240	23.974	-21.646	-22.418	1.00	0.00	C
ATOM	3778	CE LYS A 240	24.557	-21.807	-21.009	1.00	0.00	C
ATOM	3779	NZ LYS A 240	26.030	-21.700	-21.040	1.00	0.00	N
ATOM	3780	H LYS A 240	19.565	-19.778	-24.849	1.00	0.00	H
ATOM	3781	HA LYS A 240	20.393	-22.605	-24.527	1.00	0.00	H
ATOM	3782	HB2 LYS A 240	22.018	-20.212	-23.652	1.00	0.00	H
ATOM	3783	HB3 LYS A 240	22.535	-21.600	-24.611	1.00	0.00	H



ATOM	3784	HG2 LYS A 240	22.269	-22.989	-22.470	1.00	0.00	H
ATOM	3785	HG3 LYS A 240	21.980	-21.444	-21.640	1.00	0.00	H
ATOM	3786	HD2 LYS A 240	24.486	-22.318	-23.105	1.00	0.00	H
ATOM	3787	HD3 LYS A 240	24.160	-20.619	-22.730	1.00	0.00	H
ATOM	3788	HE2 LYS A 240	24.265	-22.783	-20.599	1.00	0.00	H
ATOM	3789	HE3 LYS A 240	24.130	-21.027	-20.368	1.00	0.00	H
ATOM	3790	HZ1 LYS A 240	26.447	-22.624	-21.122	1.00	0.00	H
ATOM	3791	HZ2 LYS A 240	26.382	-21.071	-21.756	1.00	0.00	H
ATOM	3792	HZ3 LYS A 240	26.420	-21.388	-20.160	1.00	0.00	H
ATOM	3793	N ILE A 241	19.182	-22.642	-22.323	1.00	0.00	N
ATOM	3794	CA ILE A 241	18.385	-22.719	-21.090	1.00	0.00	C
ATOM	3795	C ILE A 241	19.063	-23.682	-20.113	1.00	0.00	C
ATOM	3796	O ILE A 241	19.596	-24.700	-20.544	1.00	0.00	O
ATOM	3797	CB ILE A 241	16.902	-23.058	-21.381	1.00	0.00	C
ATOM	3798	CG1 ILE A 241	16.067	-22.967	-20.081	1.00	0.00	C
ATOM	3799	CG2 ILE A 241	16.719	-24.417	-22.073	1.00	0.00	C
ATOM	3800	CD1 ILE A 241	14.549	-23.078	-20.279	1.00	0.00	C
ATOM	3801	H ILE A 241	19.635	-23.499	-22.633	1.00	0.00	H
ATOM	3802	HA ILE A 241	18.400	-21.736	-20.625	1.00	0.00	H
ATOM	3803	HB ILE A 241	16.535	-22.304	-22.072	1.00	0.00	H
ATOM	3804	HG12 ILE A 241	16.382	-23.749	-19.390	1.00	0.00	H
ATOM	3805	HG13 ILE A 241	16.264	-22.003	-19.610	1.00	0.00	H
ATOM	3806	HG21 ILE A 241	17.289	-24.439	-22.999	1.00	0.00	H
ATOM	3807	HG22 ILE A 241	15.674	-24.584	-22.326	1.00	0.00	H
ATOM	3808	HG23 ILE A 241	17.053	-25.219	-21.418	1.00	0.00	H
ATOM	3809	HD11 ILE A 241	14.208	-22.338	-21.003	1.00	0.00	H
ATOM	3810	HD12 ILE A 241	14.050	-22.899	-19.328	1.00	0.00	H
ATOM	3811	HD13 ILE A 241	14.279	-24.076	-20.624	1.00	0.00	H
ATOM	3812	N TYR A 242	19.190	-23.295	-18.840	1.00	0.00	N
ATOM	3813	CA TYR A 242	20.089	-23.972	-17.897	1.00	0.00	C

ATOM	3814	C	TYR A 242	19.654	-23.806	-16.429	1.00	0.00	C
ATOM	3815	O	TYR A 242	19.313	-22.713	-15.976	1.00	0.00	O
ATOM	3816	CB	TYR A 242	21.533	-23.505	-18.147	1.00	0.00	C
ATOM	3817	CG	TYR A 242	21.815	-22.020	-17.985	1.00	0.00	C
ATOM	3818	CD1	TYR A 242	22.528	-21.574	-16.862	1.00	0.00	C
ATOM	3819	CD2	TYR A 242	21.433	-21.089	-18.973	1.00	0.00	C
ATOM	3820	CE1	TYR A 242	22.873	-20.219	-16.732	1.00	0.00	C
ATOM	3821	CE2	TYR A 242	21.788	-19.730	-18.857	1.00	0.00	C
ATOM	3822	CZ	TYR A 242	22.519	-19.293	-17.733	1.00	0.00	C
ATOM	3823	OH	TYR A 242	22.879	-17.990	-17.604	1.00	0.00	O
ATOM	3824	H	TYR A 242	18.831	-22.380	-18.577	1.00	0.00	H
ATOM	3825	HA	TYR A 242	20.063	-25.040	-18.120	1.00	0.00	H
ATOM	3826	HB2	TYR A 242	22.188	-24.065	-17.480	1.00	0.00	H
ATOM	3827	HB3	TYR A 242	21.816	-23.789	-19.162	1.00	0.00	H
ATOM	3828	HD1	TYR A 242	22.830	-22.274	-16.096	1.00	0.00	H
ATOM	3829	HD2	TYR A 242	20.851	-21.414	-19.820	1.00	0.00	H
ATOM	3830	HE1	TYR A 242	23.421	-19.895	-15.865	1.00	0.00	H
ATOM	3831	HE2	TYR A 242	21.488	-19.015	-19.608	1.00	0.00	H
ATOM	3832	HH	TYR A 242	23.598	-17.760	-18.221	1.00	0.00	H
ATOM	3833	N	ASN A 243	19.658	-24.910	-15.672	1.00	0.00	N
ATOM	3834	CA	ASN A 243	19.094	-25.023	-14.315	1.00	0.00	C
ATOM	3835	C	ASN A 243	19.984	-24.412	-13.205	1.00	0.00	C
ATOM	3836	O	ASN A 243	20.363	-25.095	-12.251	1.00	0.00	O
ATOM	3837	CB	ASN A 243	18.737	-26.503	-14.042	1.00	0.00	C
ATOM	3838	CG	ASN A 243	17.537	-27.004	-14.826	1.00	0.00	C
ATOM	3839	OD1	ASN A 243	16.602	-26.276	-15.103	1.00	0.00	O
ATOM	3840	ND2	ASN A 243	17.488	-28.277	-15.142	1.00	0.00	N
ATOM	3841	H	ASN A 243	19.974	-25.762	-16.111	1.00	0.00	H
ATOM	3842	HA	ASN A 243	18.165	-24.451	-14.285	1.00	0.00	H
ATOM	3843	HB2	ASN A 243	19.605	-27.129	-14.253	1.00	0.00	H

ATOM	3844	HB3 ASN A 243	18.484	-26.627	-12.989	1.00	0.00	H
ATOM	3845	HD21 ASN A 243	18.243	-28.889	-14.904	1.00	0.00	H
ATOM	3846	HD22 ASN A 243	16.638	-28.603	-15.579	1.00	0.00	H
ATOM	3847	N SER A 244	20.320	-23.122	-13.300	1.00	0.00	N
ATOM	3848	CA SER A 244	21.146	-22.438	-12.292	1.00	0.00	C
ATOM	3849	C SER A 244	20.483	-22.451	-10.914	1.00	0.00	C
ATOM	3850	O SER A 244	19.441	-21.827	-10.715	1.00	0.00	O
ATOM	3851	CB SER A 244	21.423	-20.979	-12.658	1.00	0.00	C
ATOM	3852	OG SER A 244	22.041	-20.887	-13.917	1.00	0.00	O
ATOM	3853	H SER A 244	19.959	-22.596	-14.087	1.00	0.00	H
ATOM	3854	HA SER A 244	22.107	-22.949	-12.227	1.00	0.00	H
ATOM	3855	HB2 SER A 244	20.494	-20.412	-12.658	1.00	0.00	H
ATOM	3856	HB3 SER A 244	22.090	-20.547	-11.909	1.00	0.00	H
ATOM	3857	HG SER A 244	21.383	-20.965	-14.616	1.00	0.00	H
ATOM	3858	N LEU A 245	21.168	-23.003	-9.908	1.00	0.00	N
ATOM	3859	CA LEU A 245	20.837	-22.810	-8.487	1.00	0.00	C
ATOM	3860	C LEU A 245	19.348	-23.088	-8.158	1.00	0.00	C
ATOM	3861	O LEU A 245	18.684	-22.270	-7.524	1.00	0.00	O
ATOM	3862	CB LEU A 245	21.321	-21.415	-8.024	1.00	0.00	C
ATOM	3863	CG LEU A 245	22.781	-21.057	-8.365	1.00	0.00	C
ATOM	3864	CD1 LEU A 245	23.047	-19.604	-7.985	1.00	0.00	C
ATOM	3865	CD2 LEU A 245	23.780	-21.952	-7.631	1.00	0.00	C
ATOM	3866	H LEU A 245	22.026	-23.483	-10.137	1.00	0.00	H
ATOM	3867	HA LEU A 245	21.401	-23.552	-7.921	1.00	0.00	H
ATOM	3868	HB2 LEU A 245	20.684	-20.665	-8.488	1.00	0.00	H
ATOM	3869	HB3 LEU A 245	21.185	-21.338	-6.944	1.00	0.00	H
ATOM	3870	HG LEU A 245	22.946	-21.153	-9.438	1.00	0.00	H
ATOM	3871	HD11 LEU A 245	22.375	-18.949	-8.539	1.00	0.00	H
ATOM	3872	HD12 LEU A 245	22.911	-19.460	-6.913	1.00	0.00	H
ATOM	3873	HD13 LEU A 245	24.072	-19.352	-8.256	1.00	0.00	H

ATOM	3874	HD21	LEU A 245	24.795	-21.631	-7.869	1.00	0.00	H
ATOM	3875	HD22	LEU A 245	23.663	-22.987	-7.948	1.00	0.00	H
ATOM	3876	HD23	LEU A 245	23.628	-21.878	-6.554	1.00	0.00	H
ATOM	3877	N	GLY A 246	18.781	-24.152	-8.742	1.00	0.00	N
ATOM	3878	CA	GLY A 246	17.403	-24.604	-8.489	1.00	0.00	C
ATOM	3879	C	GLY A 246	16.291	-23.976	-9.343	1.00	0.00	C
ATOM	3880	O	GLY A 246	15.135	-24.330	-9.145	1.00	0.00	O
ATOM	3881	H	GLY A 246	19.359	-24.719	-9.345	1.00	0.00	H
ATOM	3882	HA2	GLY A 246	17.357	-25.681	-8.640	1.00	0.00	H
ATOM	3883	HA3	GLY A 246	17.154	-24.406	-7.445	1.00	0.00	H
ATOM	3884	N	GLN A 247	16.608	-23.114	-10.314	1.00	0.00	N
ATOM	3885	CA	GLN A 247	15.624	-22.408	-11.156	1.00	0.00	C
ATOM	3886	C	GLN A 247	16.215	-22.161	-12.562	1.00	0.00	C
ATOM	3887	O	GLN A 247	17.385	-21.771	-12.643	1.00	0.00	O
ATOM	3888	CB	GLN A 247	15.210	-21.115	-10.416	1.00	0.00	C
ATOM	3889	CG	GLN A 247	14.780	-19.906	-11.266	1.00	0.00	C
ATOM	3890	CD	GLN A 247	13.436	-20.042	-11.966	1.00	0.00	C
ATOM	3891	OE1	GLN A 247	12.672	-20.968	-11.755	1.00	0.00	O
ATOM	3892	NE2	GLN A 247	13.119	-19.091	-12.809	1.00	0.00	N
ATOM	3893	H	GLN A 247	17.581	-22.865	-10.440	1.00	0.00	H
ATOM	3894	HA	GLN A 247	14.731	-23.023	-11.250	1.00	0.00	H
ATOM	3895	HB2	GLN A 247	14.413	-21.356	-9.710	1.00	0.00	H
ATOM	3896	HB3	GLN A 247	16.051	-20.782	-9.814	1.00	0.00	H
ATOM	3897	HG2	GLN A 247	14.719	-19.035	-10.613	1.00	0.00	H
ATOM	3898	HG3	GLN A 247	15.536	-19.686	-12.017	1.00	0.00	H
ATOM	3899	HE21	GLN A 247	13.765	-18.350	-13.000	1.00	0.00	H
ATOM	3900	HE22	GLN A 247	12.212	-19.109	-13.265	1.00	0.00	H
ATOM	3901	N	PRO A 248	15.478	-22.358	-13.675	1.00	0.00	N
ATOM	3902	CA	PRO A 248	16.040	-22.151	-15.006	1.00	0.00	C
ATOM	3903	C	PRO A 248	16.356	-20.681	-15.306	1.00	0.00	C

ATOM	3904	O	PRO A 248	15.513	-19.795	-15.154	1.00	0.00	O
ATOM	3905	CB	PRO A 248	15.046	-22.736	-16.012	1.00	0.00	C
ATOM	3906	CG	PRO A 248	14.166	-23.658	-15.169	1.00	0.00	C
ATOM	3907	CD	PRO A 248	14.169	-22.986	-13.798	1.00	0.00	C
ATOM	3908	HA	PRO A 248	16.958	-22.731	-15.071	1.00	0.00	H
ATOM	3909	HB2	PRO A 248	15.565	-23.279	-16.800	1.00	0.00	H
ATOM	3910	HB3	PRO A 248	14.441	-21.947	-16.452	1.00	0.00	H
ATOM	3911	HG2	PRO A 248	14.627	-24.641	-15.092	1.00	0.00	H
ATOM	3912	HG3	PRO A 248	13.159	-23.740	-15.577	1.00	0.00	H
ATOM	3913	HD2	PRO A 248	13.394	-22.221	-13.776	1.00	0.00	H
ATOM	3914	HD3	PRO A 248	13.987	-23.734	-13.027	1.00	0.00	H
ATOM	3915	N	VAL A 249	17.515	-20.472	-15.924	1.00	0.00	N
ATOM	3916	CA	VAL A 249	17.921	-19.226	-16.585	1.00	0.00	C
ATOM	3917	C	VAL A 249	17.888	-19.452	-18.093	1.00	0.00	C
ATOM	3918	O	VAL A 249	18.285	-20.518	-18.568	1.00	0.00	O
ATOM	3919	CB	VAL A 249	19.322	-18.783	-16.121	1.00	0.00	C
ATOM	3920	CG1	VAL A 249	19.739	-17.423	-16.695	1.00	0.00	C
ATOM	3921	CG2	VAL A 249	19.403	-18.657	-14.599	1.00	0.00	C
ATOM	3922	H	VAL A 249	18.123	-21.272	-16.060	1.00	0.00	H
ATOM	3923	HA	VAL A 249	17.215	-18.434	-16.338	1.00	0.00	H
ATOM	3924	HB	VAL A 249	20.043	-19.537	-16.433	1.00	0.00	H
ATOM	3925	HG11	VAL A 249	20.722	-17.148	-16.312	1.00	0.00	H
ATOM	3926	HG12	VAL A 249	19.796	-17.466	-17.781	1.00	0.00	H
ATOM	3927	HG13	VAL A 249	19.028	-16.658	-16.392	1.00	0.00	H
ATOM	3928	HG21	VAL A 249	20.424	-18.423	-14.308	1.00	0.00	H
ATOM	3929	HG22	VAL A 249	18.742	-17.861	-14.261	1.00	0.00	H
ATOM	3930	HG23	VAL A 249	19.108	-19.590	-14.126	1.00	0.00	H
ATOM	3931	N	PHE A 250	17.418	-18.464	-18.848	1.00	0.00	N
ATOM	3932	CA	PHE A 250	17.481	-18.426	-20.305	1.00	0.00	C
ATOM	3933	C	PHE A 250	18.518	-17.397	-20.779	1.00	0.00	C

ATOM	3934	O	PHE A 250	18.691	-16.342	-20.166	1.00	0.00	O
ATOM	3935	CB	PHE A 250	16.084	-18.132	-20.869	1.00	0.00	C
ATOM	3936	CG	PHE A 250	15.937	-18.457	-22.345	1.00	0.00	C
ATOM	3937	CD1	PHE A 250	15.575	-19.760	-22.729	1.00	0.00	C
ATOM	3938	CD2	PHE A 250	16.180	-17.485	-23.334	1.00	0.00	C
ATOM	3939	CE1	PHE A 250	15.489	-20.107	-24.089	1.00	0.00	C
ATOM	3940	CE2	PHE A 250	16.076	-17.827	-24.695	1.00	0.00	C
ATOM	3941	CZ	PHE A 250	15.729	-19.136	-25.073	1.00	0.00	C
ATOM	3942	H	PHE A 250	17.135	-17.608	-18.380	1.00	0.00	H
ATOM	3943	HA	PHE A 250	17.786	-19.405	-20.674	1.00	0.00	H
ATOM	3944	HB2	PHE A 250	15.351	-18.725	-20.320	1.00	0.00	H
ATOM	3945	HB3	PHE A 250	15.848	-17.082	-20.700	1.00	0.00	H
ATOM	3946	HD1	PHE A 250	15.354	-20.492	-21.968	1.00	0.00	H
ATOM	3947	HD2	PHE A 250	16.450	-16.480	-23.047	1.00	0.00	H
ATOM	3948	HE1	PHE A 250	15.211	-21.109	-24.379	1.00	0.00	H
ATOM	3949	HE2	PHE A 250	16.257	-17.083	-25.454	1.00	0.00	H
ATOM	3950	HZ	PHE A 250	15.637	-19.396	-26.119	1.00	0.00	H
ATOM	3951	N	TYR A 251	19.100	-17.638	-21.951	1.00	0.00	N
ATOM	3952	CA	TYR A 251	19.944	-16.706	-22.695	1.00	0.00	C
ATOM	3953	C	TYR A 251	19.599	-16.759	-24.190	1.00	0.00	C
ATOM	3954	O	TYR A 251	19.381	-17.837	-24.745	1.00	0.00	O
ATOM	3955	CB	TYR A 251	21.429	-17.005	-22.416	1.00	0.00	C
ATOM	3956	CG	TYR A 251	22.399	-16.590	-23.512	1.00	0.00	C
ATOM	3957	CD1	TYR A 251	23.106	-15.372	-23.450	1.00	0.00	C
ATOM	3958	CD2	TYR A 251	22.575	-17.439	-24.620	1.00	0.00	C
ATOM	3959	CE1	TYR A 251	24.017	-15.034	-24.474	1.00	0.00	C
ATOM	3960	CE2	TYR A 251	23.468	-17.100	-25.644	1.00	0.00	C
ATOM	3961	CZ	TYR A 251	24.214	-15.911	-25.563	1.00	0.00	C
ATOM	3962	OH	TYR A 251	25.143	-15.666	-26.523	1.00	0.00	O
ATOM	3963	H	TYR A 251	18.900	-18.531	-22.395	1.00	0.00	H

ATOM	3964	HA	TYR A 251	19.740	-15.694	-22.355	1.00	0.00	H
ATOM	3965	HB2	TYR A 251	21.712	-16.524	-21.477	1.00	0.00	H
ATOM	3966	HB3	TYR A 251	21.548	-18.081	-22.270	1.00	0.00	H
ATOM	3967	HD1	TYR A 251	22.960	-14.702	-22.613	1.00	0.00	H
ATOM	3968	HD2	TYR A 251	22.009	-18.354	-24.696	1.00	0.00	H
ATOM	3969	HE1	TYR A 251	24.593	-14.122	-24.421	1.00	0.00	H
ATOM	3970	HE2	TYR A 251	23.586	-17.756	-26.487	1.00	0.00	H
ATOM	3971	HH	TYR A 251	24.914	-16.176	-27.303	1.00	0.00	H
ATOM	3972	N	GLN A 252	19.701	-15.618	-24.870	1.00	0.00	N
ATOM	3973	CA	GLN A 252	19.637	-15.494	-26.324	1.00	0.00	C
ATOM	3974	C	GLN A 252	20.860	-14.718	-26.823	1.00	0.00	C
ATOM	3975	O	GLN A 252	21.095	-13.594	-26.387	1.00	0.00	O
ATOM	3976	CB	GLN A 252	18.308	-14.816	-26.706	1.00	0.00	C
ATOM	3977	CG	GLN A 252	18.171	-14.571	-28.215	1.00	0.00	C
ATOM	3978	CD	GLN A 252	16.823	-13.982	-28.631	1.00	0.00	C
ATOM	3979	OE1	GLN A 252	16.031	-13.501	-27.830	1.00	0.00	O
ATOM	3980	NE2	GLN A 252	16.584	-13.846	-29.915	1.00	0.00	N
ATOM	3981	H	GLN A 252	19.973	-14.785	-24.353	1.00	0.00	H
ATOM	3982	HA	GLN A 252	19.660	-16.484	-26.781	1.00	0.00	H
ATOM	3983	HB2	GLN A 252	17.489	-15.456	-26.385	1.00	0.00	H
ATOM	3984	HB3	GLN A 252	18.229	-13.861	-26.185	1.00	0.00	H
ATOM	3985	HG2	GLN A 252	18.304	-15.520	-28.736	1.00	0.00	H
ATOM	3986	HG3	GLN A 252	18.948	-13.881	-28.541	1.00	0.00	H
ATOM	3987	HE21	GLN A 252	17.261	-14.193	-30.592	1.00	0.00	H
ATOM	3988	HE22	GLN A 252	15.667	-13.558	-30.206	1.00	0.00	H
ATOM	3989	N	ALA A 253	21.560	-15.232	-27.836	1.00	0.00	N
ATOM	3990	CA	ALA A 253	22.638	-14.482	-28.468	1.00	0.00	C
ATOM	3991	C	ALA A 253	22.082	-13.266	-29.226	1.00	0.00	C
ATOM	3992	O	ALA A 253	21.237	-13.405	-30.114	1.00	0.00	O
ATOM	3993	CB	ALA A 253	23.439	-15.415	-29.375	1.00	0.00	C

ATOM	3994	H	ALA A 253	21.343	-16.157	-28.193	1.00	0.00	H
ATOM	3995	HA	ALA A 253	23.306	-14.118	-27.685	1.00	0.00	H
ATOM	3996	HB1	ALA A 253	23.830	-16.240	-28.784	1.00	0.00	H
ATOM	3997	HB2	ALA A 253	24.269	-14.862	-29.814	1.00	0.00	H
ATOM	3998	HB3	ALA A 253	22.799	-15.816	-30.161	1.00	0.00	H
ATOM	3999	N	SER A 254	22.593	-12.080	-28.905	1.00	0.00	N
ATOM	4000	CA	SER A 254	22.084	-10.776	-29.349	1.00	0.00	C
ATOM	4001	C	SER A 254	22.418	-10.437	-30.816	1.00	0.00	C
ATOM	4002	O	SER A 254	23.145	-9.493	-31.105	1.00	0.00	O
ATOM	4003	CB	SER A 254	22.608	-9.713	-28.377	1.00	0.00	C
ATOM	4004	OG	SER A 254	22.256	-10.059	-27.050	1.00	0.00	O
ATOM	4005	H	SER A 254	23.167	-12.049	-28.074	1.00	0.00	H
ATOM	4006	HA	SER A 254	20.998	-10.782	-29.259	1.00	0.00	H
ATOM	4007	HB2	SER A 254	23.691	-9.663	-28.444	1.00	0.00	H
ATOM	4008	HB3	SER A 254	22.191	-8.747	-28.642	1.00	0.00	H
ATOM	4009	HG	SER A 254	22.183	-9.229	-26.530	1.00	0.00	H
ATOM	4010	N	TYR A 255	21.943	-11.249	-31.763	1.00	0.00	N
ATOM	4011	CA	TYR A 255	22.236	-11.165	-33.205	1.00	0.00	C
ATOM	4012	C	TYR A 255	21.496	-10.041	-33.969	1.00	0.00	C
ATOM	4013	O	TYR A 255	21.383	-10.106	-35.192	1.00	0.00	O
ATOM	4014	CB	TYR A 255	22.029	-12.550	-33.848	1.00	0.00	C
ATOM	4015	CG	TYR A 255	23.259	-13.434	-33.824	1.00	0.00	C
ATOM	4016	CD1	TYR A 255	24.161	-13.391	-34.905	1.00	0.00	C
ATOM	4017	CD2	TYR A 255	23.505	-14.296	-32.741	1.00	0.00	C
ATOM	4018	CE1	TYR A 255	25.306	-14.211	-34.904	1.00	0.00	C
ATOM	4019	CE2	TYR A 255	24.648	-15.120	-32.737	1.00	0.00	C
ATOM	4020	CZ	TYR A 255	25.552	-15.076	-33.818	1.00	0.00	C
ATOM	4021	OH	TYR A 255	26.658	-15.866	-33.802	1.00	0.00	O
ATOM	4022	H	TYR A 255	21.406	-12.045	-31.441	1.00	0.00	H
ATOM	4023	HA	TYR A 255	23.294	-10.924	-33.308	1.00	0.00	H



ATOM	4024	HB2 TYR A 255	21.740	-12.452	-34.891	1.00	0.00	H
ATOM	4025	HB3 TYR A 255	21.203	-13.052	-33.353	1.00	0.00	H
ATOM	4026	HD1 TYR A 255	23.979	-12.723	-35.738	1.00	0.00	H
ATOM	4027	HD2 TYR A 255	22.815	-14.320	-31.913	1.00	0.00	H
ATOM	4028	HE1 TYR A 255	26.004	-14.158	-35.727	1.00	0.00	H
ATOM	4029	HE2 TYR A 255	24.845	-15.789	-31.917	1.00	0.00	H
ATOM	4030	HH TYR A 255	26.718	-16.384	-34.609	1.00	0.00	H
ATOM	4031	N SER A 256	21.010	-8.994	-33.300	1.00	0.00	N
ATOM	4032	CA SER A 256	20.677	-7.727	-33.972	1.00	0.00	C
ATOM	4033	C SER A 256	20.798	-6.541	-33.004	1.00	0.00	C
ATOM	4034	O SER A 256	21.832	-6.417	-32.354	1.00	0.00	O
ATOM	4035	CB SER A 256	19.353	-7.796	-34.762	1.00	0.00	C
ATOM	4036	OG SER A 256	18.171	-7.810	-33.983	1.00	0.00	O
ATOM	4037	H SER A 256	21.242	-8.931	-32.319	1.00	0.00	H
ATOM	4038	HA SER A 256	21.452	-7.552	-34.719	1.00	0.00	H
ATOM	4039	HB2 SER A 256	19.311	-6.919	-35.406	1.00	0.00	H
ATOM	4040	HB3 SER A 256	19.358	-8.668	-35.415	1.00	0.00	H
ATOM	4041	HG SER A 256	17.454	-7.611	-34.607	1.00	0.00	H
ATOM	4042	N TRP A 257	19.880	-5.576	-33.061	1.00	0.00	N
ATOM	4043	CA TRP A 257	20.076	-4.195	-32.608	1.00	0.00	C
ATOM	4044	C TRP A 257	20.078	-3.988	-31.083	1.00	0.00	C
ATOM	4045	O TRP A 257	20.686	-3.028	-30.620	1.00	0.00	O
ATOM	4046	CB TRP A 257	19.001	-3.336	-33.283	1.00	0.00	C
ATOM	4047	CG TRP A 257	17.585	-3.776	-33.052	1.00	0.00	C
ATOM	4048	CD1 TRP A 257	16.830	-4.473	-33.931	1.00	0.00	C
ATOM	4049	CD2 TRP A 257	16.740	-3.570	-31.876	1.00	0.00	C
ATOM	4050	NE1 TRP A 257	15.603	-4.758	-33.364	1.00	0.00	N
ATOM	4051	CE2 TRP A 257	15.489	-4.219	-32.099	1.00	0.00	C
ATOM	4052	CE3 TRP A 257	16.891	-2.866	-30.660	1.00	0.00	C
ATOM	4053	CZ2 TRP A 257	14.461	-4.217	-31.145	1.00	0.00	C

ATOM	4054	CZ3 TRP A 257	15.861	-2.843	-29.702	1.00	0.00	C
ATOM	4055	CH2 TRP A 257	14.653	-3.525	-29.935	1.00	0.00	C
ATOM	4056	H TRP A 257	19.040	-5.767	-33.588	1.00	0.00	H
ATOM	4057	HA TRP A 257	21.049	-3.851	-32.960	1.00	0.00	H
ATOM	4058	HB2 TRP A 257	19.189	-3.326	-34.357	1.00	0.00	H
ATOM	4059	HB3 TRP A 257	19.109	-2.314	-32.930	1.00	0.00	H
ATOM	4060	HD1 TRP A 257	17.157	-4.774	-34.921	1.00	0.00	H
ATOM	4061	HE3 TRP A 257	17.813	-2.336	-30.461	1.00	0.00	H
ATOM	4062	HZ2 TRP A 257	13.537	-4.744	-31.331	1.00	0.00	H
ATOM	4063	HZ3 TRP A 257	16.011	-2.303	-28.776	1.00	0.00	H
ATOM	4064	HH2 TRP A 257	13.875	-3.518	-29.185	1.00	0.00	H
ATOM	4065	HE1 TRP A 257	14.892	-5.302	-33.829	1.00	0.00	H
ATOM	4066	N ASP A 258	19.457	-4.875	-30.303	1.00	0.00	N
ATOM	4067	CA ASP A 258	19.566	-4.928	-28.833	1.00	0.00	C
ATOM	4068	C ASP A 258	20.871	-5.653	-28.450	1.00	0.00	C
ATOM	4069	O ASP A 258	20.862	-6.870	-28.266	1.00	0.00	O
ATOM	4070	CB ASP A 258	18.299	-5.613	-28.266	1.00	0.00	C
ATOM	4071	CG ASP A 258	18.248	-5.793	-26.738	1.00	0.00	C
ATOM	4072	OD1 ASP A 258	19.117	-5.276	-26.005	1.00	0.00	O
ATOM	4073	OD2 ASP A 258	17.266	-6.389	-26.227	1.00	0.00	O
ATOM	4074	H ASP A 258	18.995	-5.644	-30.757	1.00	0.00	H
ATOM	4075	HA ASP A 258	19.613	-3.915	-28.429	1.00	0.00	H
ATOM	4076	HB2 ASP A 258	17.427	-5.031	-28.566	1.00	0.00	H
ATOM	4077	HB3 ASP A 258	18.211	-6.596	-28.723	1.00	0.00	H
ATOM	4078	N THR A 259	22.026	-4.993	-28.636	1.00	0.00	N
ATOM	4079	CA THR A 259	23.347	-5.671	-28.669	1.00	0.00	C
ATOM	4080	C THR A 259	23.848	-6.126	-27.297	1.00	0.00	C
ATOM	4081	O THR A 259	24.853	-6.842	-27.205	1.00	0.00	O
ATOM	4082	CB THR A 259	24.438	-4.816	-29.336	1.00	0.00	C
ATOM	4083	OG1 THR A 259	24.910	-3.772	-28.516	1.00	0.00	O

ATOM	4084	CG2 THR A 259	23.978	-4.224	-30.663	1.00	0.00	C
ATOM	4085	H THR A 259	21.989	-4.007	-28.886	1.00	0.00	H
ATOM	4086	HA THR A 259	23.235	-6.569	-29.275	1.00	0.00	H
ATOM	4087	HB THR A 259	25.286	-5.467	-29.530	1.00	0.00	H
ATOM	4088	HG1 THR A 259	25.388	-4.172	-27.777	1.00	0.00	H
ATOM	4089	HG21 THR A 259	23.209	-3.478	-30.490	1.00	0.00	H
ATOM	4090	HG22 THR A 259	23.583	-5.010	-31.298	1.00	0.00	H
ATOM	4091	HG23 THR A 259	24.817	-3.760	-31.169	1.00	0.00	H
ATOM	4092	N MET A 260	23.191	-5.654	-26.237	1.00	0.00	N
ATOM	4093	CA MET A 260	23.445	-6.013	-24.843	1.00	0.00	C
ATOM	4094	C MET A 260	23.123	-7.489	-24.592	1.00	0.00	C
ATOM	4095	O MET A 260	22.294	-8.077	-25.287	1.00	0.00	O
ATOM	4096	CB MET A 260	22.605	-5.113	-23.918	1.00	0.00	C
ATOM	4097	CG MET A 260	22.806	-3.613	-24.184	1.00	0.00	C
ATOM	4098	SD MET A 260	24.529	-3.038	-24.210	1.00	0.00	S
ATOM	4099	CE MET A 260	24.994	-3.363	-22.491	1.00	0.00	C
ATOM	4100	H MET A 260	22.361	-5.113	-26.430	1.00	0.00	H
ATOM	4101	HA MET A 260	24.500	-5.850	-24.627	1.00	0.00	H
ATOM	4102	HB2 MET A 260	21.548	-5.345	-24.058	1.00	0.00	H
ATOM	4103	HB3 MET A 260	22.862	-5.331	-22.881	1.00	0.00	H
ATOM	4104	HG2 MET A 260	22.357	-3.367	-25.147	1.00	0.00	H
ATOM	4105	HG3 MET A 260	22.265	-3.052	-23.421	1.00	0.00	H
ATOM	4106	HE1 MET A 260	24.352	-2.776	-21.840	1.00	0.00	H
ATOM	4107	HE2 MET A 260	24.873	-4.420	-22.259	1.00	0.00	H
ATOM	4108	HE3 MET A 260	26.031	-3.077	-22.328	1.00	0.00	H
ATOM	4109	N ILE A 261	23.755	-8.113	-23.594	1.00	0.00	N
ATOM	4110	CA ILE A 261	23.518	-9.533	-23.295	1.00	0.00	C
ATOM	4111	C ILE A 261	22.059	-9.792	-22.872	1.00	0.00	C
ATOM	4112	O ILE A 261	21.601	-9.360	-21.813	1.00	0.00	O
ATOM	4113	CB ILE A 261	24.561	-10.088	-22.299	1.00	0.00	C

ATOM	4114	CG1 ILE A 261	24.378	-11.617	-22.165	1.00	0.00	C
ATOM	4115	CG2 ILE A 261	24.552	-9.373	-20.933	1.00	0.00	C
ATOM	4116	CD1 ILE A 261	25.534	-12.326	-21.448	1.00	0.00	C
ATOM	4117	H ILE A 261	24.461	-7.605	-23.070	1.00	0.00	H
ATOM	4118	HA ILE A 261	23.673	-10.072	-24.231	1.00	0.00	H
ATOM	4119	HB ILE A 261	25.540	-9.919	-22.749	1.00	0.00	H
ATOM	4120	HG12 ILE A 261	23.449	-11.839	-21.640	1.00	0.00	H
ATOM	4121	HG13 ILE A 261	24.304	-12.046	-23.165	1.00	0.00	H
ATOM	4122	HG21 ILE A 261	25.359	-9.745	-20.307	1.00	0.00	H
ATOM	4123	HG22 ILE A 261	23.614	-9.531	-20.410	1.00	0.00	H
ATOM	4124	HG23 ILE A 261	24.685	-8.300	-21.073	1.00	0.00	H
ATOM	4125	HD11 ILE A 261	25.372	-13.404	-21.483	1.00	0.00	H
ATOM	4126	HD12 ILE A 261	26.477	-12.095	-21.945	1.00	0.00	H
ATOM	4127	HD13 ILE A 261	25.583	-12.015	-20.407	1.00	0.00	H
ATOM	4128	N LYS A 262	21.324	-10.557	-23.686	1.00	0.00	N
ATOM	4129	CA LYS A 262	19.965	-11.004	-23.363	1.00	0.00	C
ATOM	4130	C LYS A 262	20.021	-12.295	-22.544	1.00	0.00	C
ATOM	4131	O LYS A 262	20.094	-13.389	-23.098	1.00	0.00	O
ATOM	4132	CB LYS A 262	19.143	-11.166	-24.648	1.00	0.00	C
ATOM	4133	CG LYS A 262	18.958	-9.846	-25.415	1.00	0.00	C
ATOM	4134	CD LYS A 262	18.036	-10.048	-26.622	1.00	0.00	C
ATOM	4135	CE LYS A 262	16.576	-10.145	-26.168	1.00	0.00	C
ATOM	4136	NZ LYS A 262	15.732	-10.797	-27.188	1.00	0.00	N
ATOM	4137	H LYS A 262	21.719	-10.837	-24.576	1.00	0.00	H
ATOM	4138	HA LYS A 262	19.473	-10.246	-22.752	1.00	0.00	H
ATOM	4139	HB2 LYS A 262	19.629	-11.887	-25.302	1.00	0.00	H
ATOM	4140	HB3 LYS A 262	18.166	-11.561	-24.377	1.00	0.00	H
ATOM	4141	HG2 LYS A 262	19.925	-9.497	-25.774	1.00	0.00	H
ATOM	4142	HG3 LYS A 262	18.538	-9.085	-24.756	1.00	0.00	H
ATOM	4143	HD2 LYS A 262	18.140	-9.192	-27.291	1.00	0.00	H

ATOM	4144	HD3 LYS A 262	18.337	-10.951	-27.157	1.00	0.00	H
ATOM	4145	HE2 LYS A 262	16.509	-10.706	-25.232	1.00	0.00	H
ATOM	4146	HE3 LYS A 262	16.216	-9.128	-25.979	1.00	0.00	H
ATOM	4147	HZ1 LYS A 262	15.982	-10.487	-28.123	1.00	0.00	H
ATOM	4148	HZ2 LYS A 262	15.824	-11.811	-27.178	1.00	0.00	H
ATOM	4149	HZ3 LYS A 262	14.760	-10.538	-27.038	1.00	0.00	H
ATOM	4150	N LEU A 263	19.926	-12.165	-21.223	1.00	0.00	N
ATOM	4151	CA LEU A 263	19.771	-13.278	-20.276	1.00	0.00	C
ATOM	4152	C LEU A 263	18.744	-12.944	-19.186	1.00	0.00	C
ATOM	4153	O LEU A 263	18.462	-11.769	-18.959	1.00	0.00	O
ATOM	4154	CB LEU A 263	21.144	-13.706	-19.709	1.00	0.00	C
ATOM	4155	CG LEU A 263	21.687	-12.914	-18.499	1.00	0.00	C
ATOM	4156	CD1 LEU A 263	23.035	-13.501	-18.074	1.00	0.00	C
ATOM	4157	CD2 LEU A 263	21.903	-11.426	-18.774	1.00	0.00	C
ATOM	4158	H LEU A 263	19.902	-11.228	-20.846	1.00	0.00	H
ATOM	4159	HA LEU A 263	19.369	-14.124	-20.829	1.00	0.00	H
ATOM	4160	HB2 LEU A 263	21.047	-14.746	-19.394	1.00	0.00	H
ATOM	4161	HB3 LEU A 263	21.881	-13.685	-20.514	1.00	0.00	H
ATOM	4162	HG LEU A 263	20.994	-13.011	-17.665	1.00	0.00	H
ATOM	4163	HD11 LEU A 263	23.756	-13.418	-18.886	1.00	0.00	H
ATOM	4164	HD12 LEU A 263	23.416	-12.972	-17.200	1.00	0.00	H
ATOM	4165	HD13 LEU A 263	22.912	-14.552	-17.808	1.00	0.00	H
ATOM	4166	HD21 LEU A 263	22.342	-10.946	-17.899	1.00	0.00	H
ATOM	4167	HD22 LEU A 263	22.568	-11.309	-19.624	1.00	0.00	H
ATOM	4168	HD23 LEU A 263	20.957	-10.937	-18.991	1.00	0.00	H
ATOM	4169	N GLY A 264	18.201	-13.947	-18.498	1.00	0.00	N
ATOM	4170	CA GLY A 264	17.263	-13.753	-17.386	1.00	0.00	C
ATOM	4171	C GLY A 264	16.701	-15.063	-16.836	1.00	0.00	C
ATOM	4172	O GLY A 264	16.761	-16.093	-17.500	1.00	0.00	O
ATOM	4173	H GLY A 264	18.392	-14.902	-18.793	1.00	0.00	H

ATOM	4174	HA2 GLY A 264	17.766	-13.220	-16.579	1.00	0.00	H
ATOM	4175	HA3 GLY A 264	16.425	-13.147	-17.725	1.00	0.00	H
ATOM	4176	N ASP A 265	16.158	-15.038	-15.620	1.00	0.00	N
ATOM	4177	CA ASP A 265	15.366	-16.158	-15.088	1.00	0.00	C
ATOM	4178	C ASP A 265	14.077	-16.373	-15.905	1.00	0.00	C
ATOM	4179	O ASP A 265	13.507	-15.413	-16.431	1.00	0.00	O
ATOM	4180	CB ASP A 265	15.066	-15.909	-13.599	1.00	0.00	C
ATOM	4181	CG ASP A 265	16.284	-16.202	-12.721	1.00	0.00	C
ATOM	4182	OD1 ASP A 265	16.769	-17.349	-12.790	1.00	0.00	O
ATOM	4183	OD2 ASP A 265	16.570	-15.445	-11.768	1.00	0.00	O
ATOM	4184	H ASP A 265	16.061	-14.148	-15.159	1.00	0.00	H
ATOM	4185	HA ASP A 265	15.950	-17.076	-15.165	1.00	0.00	H
ATOM	4186	HB2 ASP A 265	14.736	-14.879	-13.454	1.00	0.00	H
ATOM	4187	HB3 ASP A 265	14.256	-16.568	-13.285	1.00	0.00	H
ATOM	4188	N VAL A 266	13.608	-17.621	-16.024	1.00	0.00	N
ATOM	4189	CA VAL A 266	12.295	-17.905	-16.636	1.00	0.00	C
ATOM	4190	C VAL A 266	11.166	-17.600	-15.648	1.00	0.00	C
ATOM	4191	O VAL A 266	11.154	-18.108	-14.529	1.00	0.00	O
ATOM	4192	CB VAL A 266	12.182	-19.337	-17.208	1.00	0.00	C
ATOM	4193	CG1 VAL A 266	13.321	-19.630	-18.194	1.00	0.00	C
ATOM	4194	CG2 VAL A 266	12.133	-20.456	-16.160	1.00	0.00	C
ATOM	4195	H VAL A 266	14.120	-18.388	-15.598	1.00	0.00	H
ATOM	4196	HA VAL A 266	12.171	-17.234	-17.484	1.00	0.00	H
ATOM	4197	HB VAL A 266	11.250	-19.387	-17.773	1.00	0.00	H
ATOM	4198	HG11 VAL A 266	13.355	-18.847	-18.948	1.00	0.00	H
ATOM	4199	HG12 VAL A 266	13.141	-20.583	-18.690	1.00	0.00	H
ATOM	4200	HG13 VAL A 266	14.278	-19.670	-17.673	1.00	0.00	H
ATOM	4201	HG21 VAL A 266	11.198	-20.408	-15.604	1.00	0.00	H
ATOM	4202	HG22 VAL A 266	12.964	-20.359	-15.463	1.00	0.00	H
ATOM	4203	HG23 VAL A 266	12.178	-21.427	-16.649	1.00	0.00	H

ATOM	4204	N	ASP A 267	10.173	-16.818	-16.063	1.00	0.00	N
ATOM	4205	CA	ASP A 267	8.910	-16.665	-15.328	1.00	0.00	C
ATOM	4206	C	ASP A 267	7.862	-17.700	-15.777	1.00	0.00	C
ATOM	4207	O	ASP A 267	6.863	-17.916	-15.092	1.00	0.00	O
ATOM	4208	CB	ASP A 267	8.352	-15.234	-15.444	1.00	0.00	C
ATOM	4209	CG	ASP A 267	9.416	-14.160	-15.680	1.00	0.00	C
ATOM	4210	OD1	ASP A 267	9.761	-13.988	-16.869	1.00	0.00	O
ATOM	4211	OD2	ASP A 267	9.451	-13.186	-14.897	1.00	0.00	O
ATOM	4212	H	ASP A 267	10.232	-16.412	-16.993	1.00	0.00	H
ATOM	4213	HA	ASP A 267	9.098	-16.846	-14.268	1.00	0.00	H
ATOM	4214	HB2	ASP A 267	7.648	-15.202	-16.275	1.00	0.00	H
ATOM	4215	HB3	ASP A 267	7.787	-15.005	-14.540	1.00	0.00	H
ATOM	4216	N	THR A 268	8.035	-18.305	-16.959	1.00	0.00	N
ATOM	4217	CA	THR A 268	7.220	-19.432	-17.452	1.00	0.00	C
ATOM	4218	C	THR A 268	7.951	-20.164	-18.589	1.00	0.00	C
ATOM	4219	O	THR A 268	8.837	-19.582	-19.218	1.00	0.00	O
ATOM	4220	CB	THR A 268	5.803	-19.002	-17.913	1.00	0.00	C
ATOM	4221	OG1	THR A 268	5.441	-17.708	-17.480	1.00	0.00	O
ATOM	4222	CG2	THR A 268	4.748	-19.935	-17.320	1.00	0.00	C
ATOM	4223	H	THR A 268	8.834	-18.035	-17.523	1.00	0.00	H
ATOM	4224	HA	THR A 268	7.116	-20.137	-16.629	1.00	0.00	H
ATOM	4225	HB	THR A 268	5.735	-19.029	-18.997	1.00	0.00	H
ATOM	4226	HG21	THR A 268	3.760	-19.623	-17.658	1.00	0.00	H
ATOM	4227	HG22	THR A 268	4.920	-20.959	-17.647	1.00	0.00	H
ATOM	4228	HG23	THR A 268	4.779	-19.887	-16.230	1.00	0.00	H
ATOM	4229	HG1	THR A 268	5.708	-17.665	-16.547	1.00	0.00	H
ATOM	4230	N	VAL A 269	7.686	-21.466	-18.772	1.00	0.00	N
ATOM	4231	CA	VAL A 269	8.402	-22.337	-19.738	1.00	0.00	C
ATOM	4232	C	VAL A 269	7.494	-22.853	-20.860	1.00	0.00	C
ATOM	4233	O	VAL A 269	7.849	-22.692	-22.025	1.00	0.00	O

ATOM	4234	CB	VAL A 269	9.124	-23.493	-19.015	1.00	0.00	C
ATOM	4235	CG1	VAL A 269	9.828	-24.459	-19.977	1.00	0.00	C
ATOM	4236	CG2	VAL A 269	10.195	-22.941	-18.063	1.00	0.00	C
ATOM	4237	H	VAL A 269	6.951	-21.878	-18.221	1.00	0.00	H
ATOM	4238	HA	VAL A 269	9.172	-21.752	-20.241	1.00	0.00	H
ATOM	4239	HB	VAL A 269	8.396	-24.059	-18.432	1.00	0.00	H
ATOM	4240	HG11	VAL A 269	9.101	-24.923	-20.645	1.00	0.00	H
ATOM	4241	HG12	VAL A 269	10.318	-25.257	-19.421	1.00	0.00	H
ATOM	4242	HG13	VAL A 269	10.567	-23.924	-20.573	1.00	0.00	H
ATOM	4243	HG21	VAL A 269	9.732	-22.333	-17.286	1.00	0.00	H
ATOM	4244	HG22	VAL A 269	10.903	-22.327	-18.620	1.00	0.00	H
ATOM	4245	HG23	VAL A 269	10.730	-23.757	-17.584	1.00	0.00	H
ATOM	4246	N	ASP A 270	6.255	-23.232	-20.532	1.00	0.00	N
ATOM	4247	CA	ASP A 270	5.142	-23.327	-21.483	1.00	0.00	C
ATOM	4248	C	ASP A 270	4.130	-22.195	-21.183	1.00	0.00	C
ATOM	4249	O	ASP A 270	3.421	-22.291	-20.177	1.00	0.00	O
ATOM	4250	CB	ASP A 270	4.431	-24.700	-21.403	1.00	0.00	C
ATOM	4251	CG	ASP A 270	5.237	-25.949	-21.791	1.00	0.00	C
ATOM	4252	OD1	ASP A 270	6.480	-25.913	-21.897	1.00	0.00	O
ATOM	4253	OD2	ASP A 270	4.629	-27.043	-21.840	1.00	0.00	O
ATOM	4254	H	ASP A 270	6.017	-23.307	-19.561	1.00	0.00	H
ATOM	4255	HA	ASP A 270	5.515	-23.226	-22.500	1.00	0.00	H
ATOM	4256	HB2	ASP A 270	3.557	-24.658	-22.055	1.00	0.00	H
ATOM	4257	HB3	ASP A 270	4.072	-24.846	-20.383	1.00	0.00	H
ATOM	4258	N	PRO A 271	3.998	-21.149	-22.026	1.00	0.00	N
ATOM	4259	CA	PRO A 271	4.957	-20.696	-23.040	1.00	0.00	C
ATOM	4260	C	PRO A 271	6.233	-20.106	-22.406	1.00	0.00	C
ATOM	4261	O	PRO A 271	6.238	-19.761	-21.226	1.00	0.00	O
ATOM	4262	CB	PRO A 271	4.200	-19.625	-23.830	1.00	0.00	C
ATOM	4263	CG	PRO A 271	3.339	-18.966	-22.753	1.00	0.00	C



ATOM	4264	CD	PRO A 271	2.956	-20.143	-21.855	1.00	0.00	C
ATOM	4265	HA	PRO A 271	5.223	-21.511	-23.705	1.00	0.00	H
ATOM	4266	HB2	PRO A 271	3.557	-20.103	-24.571	1.00	0.00	H
ATOM	4267	HB3	PRO A 271	4.867	-18.908	-24.312	1.00	0.00	H
ATOM	4268	HG2	PRO A 271	3.937	-18.251	-22.185	1.00	0.00	H
ATOM	4269	HG3	PRO A 271	2.460	-18.479	-23.176	1.00	0.00	H
ATOM	4270	HD2	PRO A 271	2.000	-20.560	-22.174	1.00	0.00	H
ATOM	4271	HD3	PRO A 271	2.892	-19.816	-20.816	1.00	0.00	H
ATOM	4272	N	LEU A 272	7.292	-19.889	-23.194	1.00	0.00	N
ATOM	4273	CA	LEU A 272	8.548	-19.352	-22.669	1.00	0.00	C
ATOM	4274	C	LEU A 272	8.460	-17.831	-22.454	1.00	0.00	C
ATOM	4275	O	LEU A 272	8.470	-17.048	-23.410	1.00	0.00	O
ATOM	4276	CB	LEU A 272	9.727	-19.773	-23.563	1.00	0.00	C
ATOM	4277	CG	LEU A 272	11.075	-19.184	-23.099	1.00	0.00	C
ATOM	4278	CD1	LEU A 272	11.530	-19.709	-21.735	1.00	0.00	C
ATOM	4279	CD2	LEU A 272	12.164	-19.495	-24.118	1.00	0.00	C
ATOM	4280	H	LEU A 272	7.242	-20.124	-24.175	1.00	0.00	H
ATOM	4281	HA	LEU A 272	8.713	-19.815	-21.695	1.00	0.00	H
ATOM	4282	HB2	LEU A 272	9.794	-20.862	-23.574	1.00	0.00	H
ATOM	4283	HB3	LEU A 272	9.525	-19.437	-24.580	1.00	0.00	H
ATOM	4284	HG	LEU A 272	10.997	-18.101	-23.034	1.00	0.00	H
ATOM	4285	HD11	LEU A 272	12.528	-19.334	-21.509	1.00	0.00	H
ATOM	4286	HD12	LEU A 272	10.854	-19.362	-20.954	1.00	0.00	H
ATOM	4287	HD13	LEU A 272	11.542	-20.797	-21.735	1.00	0.00	H
ATOM	4288	HD21	LEU A 272	11.833	-19.220	-25.118	1.00	0.00	H
ATOM	4289	HD22	LEU A 272	13.051	-18.917	-23.868	1.00	0.00	H
ATOM	4290	HD23	LEU A 272	12.409	-20.553	-24.091	1.00	0.00	H
ATOM	4291	N	ARG A 273	8.621	-17.405	-21.201	1.00	0.00	N
ATOM	4292	CA	ARG A 273	8.668	-15.999	-20.776	1.00	0.00	C
ATOM	4293	C	ARG A 273	9.810	-15.802	-19.776	1.00	0.00	C

ATOM	4294	O	ARG A 273	10.035	-16.637	-18.903	1.00	0.00	O
ATOM	4295	CB	ARG A 273	7.262	-15.604	-20.275	1.00	0.00	C
ATOM	4296	CG	ARG A 273	7.163	-14.381	-19.355	1.00	0.00	C
ATOM	4297	CD	ARG A 273	7.777	-13.066	-19.871	1.00	0.00	C
ATOM	4298	NE	ARG A 273	8.600	-12.473	-18.803	1.00	0.00	N
ATOM	4299	CZ	ARG A 273	8.393	-11.370	-18.118	1.00	0.00	C
ATOM	4300	NH1	ARG A 273	7.639	-10.399	-18.545	1.00	0.00	N
ATOM	4301	NH2	ARG A 273	8.920	-11.253	-16.936	1.00	0.00	N
ATOM	4302	H	ARG A 273	8.672	-18.118	-20.474	1.00	0.00	H
ATOM	4303	HA	ARG A 273	8.896	-15.384	-21.647	1.00	0.00	H
ATOM	4304	HB2	ARG A 273	6.620	-15.443	-21.142	1.00	0.00	H
ATOM	4305	HB3	ARG A 273	6.844	-16.446	-19.718	1.00	0.00	H
ATOM	4306	HG2	ARG A 273	6.112	-14.202	-19.125	1.00	0.00	H
ATOM	4307	HG3	ARG A 273	7.644	-14.658	-18.418	1.00	0.00	H
ATOM	4308	HD2	ARG A 273	8.404	-13.255	-20.741	1.00	0.00	H
ATOM	4309	HD3	ARG A 273	6.973	-12.393	-20.174	1.00	0.00	H
ATOM	4310	HE	ARG A 273	9.198	-13.126	-18.294	1.00	0.00	H
ATOM	4311	HH11	ARG A 273	7.356	-10.416	-19.523	1.00	0.00	H
ATOM	4312	HH12	ARG A 273	7.552	-9.560	-18.016	1.00	0.00	H
ATOM	4313	HH21	ARG A 273	9.345	-12.100	-16.530	1.00	0.00	H
ATOM	4314	HH22	ARG A 273	8.623	-10.545	-16.303	1.00	0.00	H
ATOM	4315	N	VAL A 274	10.613	-14.763	-20.019	1.00	0.00	N
ATOM	4316	CA	VAL A 274	11.924	-14.529	-19.395	1.00	0.00	C
ATOM	4317	C	VAL A 274	11.989	-13.105	-18.848	1.00	0.00	C
ATOM	4318	O	VAL A 274	11.765	-12.147	-19.593	1.00	0.00	O
ATOM	4319	CB	VAL A 274	13.061	-14.764	-20.418	1.00	0.00	C
ATOM	4320	CG1	VAL A 274	14.453	-14.578	-19.799	1.00	0.00	C
ATOM	4321	CG2	VAL A 274	13.002	-16.166	-21.040	1.00	0.00	C
ATOM	4322	H	VAL A 274	10.353	-14.131	-20.758	1.00	0.00	H
ATOM	4323	HA	VAL A 274	12.061	-15.219	-18.561	1.00	0.00	H

ATOM	4324	HB	VAL A 274	12.955	-14.041	-21.227	1.00	0.00	H
ATOM	4325	HG11	VAL A 274	15.219	-14.748	-20.555	1.00	0.00	H
ATOM	4326	HG12	VAL A 274	14.573	-13.563	-19.427	1.00	0.00	H
ATOM	4327	HG13	VAL A 274	14.592	-15.285	-18.981	1.00	0.00	H
ATOM	4328	HG21	VAL A 274	13.822	-16.290	-21.746	1.00	0.00	H
ATOM	4329	HG22	VAL A 274	13.076	-16.921	-20.259	1.00	0.00	H
ATOM	4330	HG23	VAL A 274	12.071	-16.304	-21.587	1.00	0.00	H
ATOM	4331	N	GLN A 275	12.409	-12.939	-17.594	1.00	0.00	N
ATOM	4332	CA	GLN A 275	12.701	-11.630	-17.008	1.00	0.00	C
ATOM	4333	C	GLN A 275	14.114	-11.186	-17.397	1.00	0.00	C
ATOM	4334	O	GLN A 275	15.071	-11.307	-16.628	1.00	0.00	O
ATOM	4335	CB	GLN A 275	12.414	-11.589	-15.498	1.00	0.00	C
ATOM	4336	CG	GLN A 275	12.926	-12.780	-14.676	1.00	0.00	C
ATOM	4337	CD	GLN A 275	12.600	-12.608	-13.202	1.00	0.00	C
ATOM	4338	OE1	GLN A 275	13.440	-12.240	-12.394	1.00	0.00	O
ATOM	4339	NE2	GLN A 275	11.341	-12.699	-12.834	1.00	0.00	N
ATOM	4340	H	GLN A 275	12.590	-13.771	-17.037	1.00	0.00	H
ATOM	4341	HA	GLN A 275	12.022	-10.901	-17.453	1.00	0.00	H
ATOM	4342	HB2	GLN A 275	12.840	-10.672	-15.089	1.00	0.00	H
ATOM	4343	HB3	GLN A 275	11.336	-11.523	-15.370	1.00	0.00	H
ATOM	4344	HG2	GLN A 275	12.431	-13.688	-15.013	1.00	0.00	H
ATOM	4345	HG3	GLN A 275	14.003	-12.888	-14.798	1.00	0.00	H
ATOM	4346	HE21	GLN A 275	10.622	-12.923	-13.530	1.00	0.00	H
ATOM	4347	HE22	GLN A 275	11.133	-12.578	-11.863	1.00	0.00	H
ATOM	4348	N	TRP A 276	14.245	-10.732	-18.647	1.00	0.00	N
ATOM	4349	CA	TRP A 276	15.504	-10.239	-19.203	1.00	0.00	C
ATOM	4350	C	TRP A 276	16.131	-9.175	-18.297	1.00	0.00	C
ATOM	4351	O	TRP A 276	15.516	-8.140	-18.027	1.00	0.00	O
ATOM	4352	CB	TRP A 276	15.290	-9.624	-20.590	1.00	0.00	C
ATOM	4353	CG	TRP A 276	14.655	-10.480	-21.637	1.00	0.00	C

ATOM	4354	CD1 TRP A 276	13.444	-10.248	-22.186	1.00	0.00	C
ATOM	4355	CD2 TRP A 276	15.197	-11.638	-22.346	1.00	0.00	C
ATOM	4356	NE1 TRP A 276	13.223	-11.134	-23.215	1.00	0.00	N
ATOM	4357	CE2 TRP A 276	14.281	-11.998	-23.380	1.00	0.00	C
ATOM	4358	CE3 TRP A 276	16.379	-12.403	-22.246	1.00	0.00	C
ATOM	4359	CZ2 TRP A 276	14.544	-13.021	-24.298	1.00	0.00	C
ATOM	4360	CZ3 TRP A 276	16.636	-13.464	-23.137	1.00	0.00	C
ATOM	4361	CH2 TRP A 276	15.730	-13.761	-24.172	1.00	0.00	C
ATOM	4362	H TRP A 276	13.437	-10.783	-19.256	1.00	0.00	H
ATOM	4363	HA TRP A 276	16.185	-11.080	-19.297	1.00	0.00	H
ATOM	4364	HB2 TRP A 276	14.682	-8.725	-20.479	1.00	0.00	H
ATOM	4365	HB3 TRP A 276	16.261	-9.307	-20.971	1.00	0.00	H
ATOM	4366	HD1 TRP A 276	12.774	-9.445	-21.907	1.00	0.00	H
ATOM	4367	HE3 TRP A 276	17.082	-12.173	-21.461	1.00	0.00	H
ATOM	4368	HZ2 TRP A 276	13.826	-13.250	-25.071	1.00	0.00	H
ATOM	4369	HZ3 TRP A 276	17.540	-14.049	-23.034	1.00	0.00	H
ATOM	4370	HH2 TRP A 276	15.934	-14.572	-24.857	1.00	0.00	H
ATOM	4371	HE1 TRP A 276	12.414	-11.051	-23.833	1.00	0.00	H
ATOM	4372	N ARG A 277	17.423	-9.323	-17.997	1.00	0.00	N
ATOM	4373	CA ARG A 277	18.202	-8.260	-17.361	1.00	0.00	C
ATOM	4374	C ARG A 277	18.344	-7.103	-18.347	1.00	0.00	C
ATOM	4375	O ARG A 277	18.833	-7.284	-19.465	1.00	0.00	O
ATOM	4376	CB ARG A 277	19.578	-8.760	-16.886	1.00	0.00	C
ATOM	4377	CG ARG A 277	19.602	-10.100	-16.125	1.00	0.00	C
ATOM	4378	CD ARG A 277	18.531	-10.307	-15.045	1.00	0.00	C
ATOM	4379	NE ARG A 277	18.764	-9.476	-13.856	1.00	0.00	N
ATOM	4380	CZ ARG A 277	18.156	-9.603	-12.693	1.00	0.00	C
ATOM	4381	NH1 ARG A 277	17.198	-10.467	-12.496	1.00	0.00	N
ATOM	4382	NH2 ARG A 277	18.486	-8.830	-11.706	1.00	0.00	N
ATOM	4383	H ARG A 277	17.893	-10.170	-18.300	1.00	0.00	H

ATOM	4384	HA	ARG A 277	17.648	-7.904	-16.490	1.00	0.00	H
ATOM	4385	HB2	ARG A 277	20.235	-8.866	-17.751	1.00	0.00	H
ATOM	4386	HB3	ARG A 277	20.006	-7.987	-16.250	1.00	0.00	H
ATOM	4387	HG2	ARG A 277	19.491	-10.905	-16.846	1.00	0.00	H
ATOM	4388	HG3	ARG A 277	20.587	-10.215	-15.673	1.00	0.00	H
ATOM	4389	HD2	ARG A 277	17.540	-10.105	-15.453	1.00	0.00	H
ATOM	4390	HD3	ARG A 277	18.562	-11.356	-14.749	1.00	0.00	H
ATOM	4391	HE	ARG A 277	19.579	-8.856	-13.866	1.00	0.00	H
ATOM	4392	HH11	ARG A 277	16.963	-11.096	-13.240	1.00	0.00	H
ATOM	4393	HH12	ARG A 277	16.833	-10.625	-11.578	1.00	0.00	H
ATOM	4394	HH21	ARG A 277	19.139	-8.069	-11.927	1.00	0.00	H
ATOM	4395	HH22	ARG A 277	18.040	-8.887	-10.818	1.00	0.00	H
ATOM	4396	N	ASN A 278	18.054	-5.883	-17.907	1.00	0.00	N
ATOM	4397	CA	ASN A 278	18.405	-4.664	-18.644	1.00	0.00	C
ATOM	4398	C	ASN A 278	19.880	-4.295	-18.407	1.00	0.00	C
ATOM	4399	O	ASN A 278	20.185	-3.249	-17.843	1.00	0.00	O
ATOM	4400	CB	ASN A 278	17.381	-3.558	-18.338	1.00	0.00	C
ATOM	4401	CG	ASN A 278	15.995	-3.900	-18.867	1.00	0.00	C
ATOM	4402	OD1	ASN A 278	15.818	-4.607	-19.852	1.00	0.00	O
ATOM	4403	ND2	ASN A 278	14.959	-3.418	-18.221	1.00	0.00	N
ATOM	4404	H	ASN A 278	17.696	-5.791	-16.970	1.00	0.00	H
ATOM	4405	HA	ASN A 278	18.337	-4.861	-19.715	1.00	0.00	H
ATOM	4406	HB2	ASN A 278	17.339	-3.393	-17.262	1.00	0.00	H
ATOM	4407	HB3	ASN A 278	17.699	-2.629	-18.810	1.00	0.00	H
ATOM	4408	HD21	ASN A 278	15.089	-2.844	-17.409	1.00	0.00	H
ATOM	4409	HD22	ASN A 278	14.053	-3.684	-18.562	1.00	0.00	H
ATOM	4410	N	ASN A 279	20.765	-5.264	-18.670	1.00	0.00	N
ATOM	4411	CA	ASN A 279	22.193	-5.176	-18.399	1.00	0.00	C
ATOM	4412	C	ASN A 279	22.821	-4.008	-19.176	1.00	0.00	C
ATOM	4413	O	ASN A 279	22.593	-3.875	-20.378	1.00	0.00	O

ATOM	4414	CB	ASN A 279	22.844	-6.532	-18.740	1.00	0.00	C
ATOM	4415	CG	ASN A 279	24.335	-6.559	-18.440	1.00	0.00	C
ATOM	4416	OD1	ASN A 279	25.143	-5.925	-19.101	1.00	0.00	O
ATOM	4417	ND2	ASN A 279	24.755	-7.296	-17.440	1.00	0.00	N
ATOM	4418	H	ASN A 279	20.426	-6.101	-19.127	1.00	0.00	H
ATOM	4419	HA	ASN A 279	22.305	-4.981	-17.335	1.00	0.00	H
ATOM	4420	HB2	ASN A 279	22.351	-7.322	-18.176	1.00	0.00	H
ATOM	4421	HB3	ASN A 279	22.714	-6.741	-19.802	1.00	0.00	H
ATOM	4422	HD21	ASN A 279	24.094	-7.747	-16.838	1.00	0.00	H
ATOM	4423	HD22	ASN A 279	25.715	-7.166	-17.171	1.00	0.00	H
ATOM	4424	N	SER A 280	23.633	-3.194	-18.499	1.00	0.00	N
ATOM	4425	CA	SER A 280	24.206	-1.961	-19.055	1.00	0.00	C
ATOM	4426	C	SER A 280	25.717	-2.041	-19.328	1.00	0.00	C
ATOM	4427	O	SER A 280	26.358	-0.996	-19.424	1.00	0.00	O
ATOM	4428	CB	SER A 280	23.839	-0.764	-18.164	1.00	0.00	C
ATOM	4429	OG	SER A 280	24.672	-0.685	-17.025	1.00	0.00	O
ATOM	4430	H	SER A 280	23.784	-3.386	-17.512	1.00	0.00	H
ATOM	4431	HA	SER A 280	23.735	-1.770	-20.017	1.00	0.00	H
ATOM	4432	HB2	SER A 280	22.797	-0.850	-17.851	1.00	0.00	H
ATOM	4433	HB3	SER A 280	23.950	0.154	-18.743	1.00	0.00	H
ATOM	4434	HG	SER A 280	25.550	-0.433	-17.341	1.00	0.00	H
ATOM	4435	N	VAL A 281	26.322	-3.240	-19.299	1.00	0.00	N
ATOM	4436	CA	VAL A 281	27.792	-3.401	-19.235	1.00	0.00	C
ATOM	4437	C	VAL A 281	28.392	-4.503	-20.121	1.00	0.00	C
ATOM	4438	O	VAL A 281	29.519	-4.331	-20.576	1.00	0.00	O
ATOM	4439	CB	VAL A 281	28.276	-3.578	-17.780	1.00	0.00	C
ATOM	4440	CG1	VAL A 281	27.994	-2.347	-16.913	1.00	0.00	C
ATOM	4441	CG2	VAL A 281	27.683	-4.806	-17.074	1.00	0.00	C
ATOM	4442	H	VAL A 281	25.741	-4.058	-19.142	1.00	0.00	H
ATOM	4443	HA	VAL A 281	28.251	-2.481	-19.599	1.00	0.00	H

ATOM	4444	HB	VAL A 281	29.357	-3.692	-17.815	1.00	0.00	H
ATOM	4445	HG11	VAL A 281	28.360	-1.451	-17.414	1.00	0.00	H
ATOM	4446	HG12	VAL A 281	28.502	-2.446	-15.956	1.00	0.00	H
ATOM	4447	HG13	VAL A 281	26.924	-2.249	-16.735	1.00	0.00	H
ATOM	4448	HG21	VAL A 281	26.599	-4.719	-17.009	1.00	0.00	H
ATOM	4449	HG22	VAL A 281	28.083	-4.887	-16.065	1.00	0.00	H
ATOM	4450	HG23	VAL A 281	27.938	-5.710	-17.618	1.00	0.00	H
ATOM	4451	N	ILE A 282	27.653	-5.558	-20.483	1.00	0.00	N
ATOM	4452	CA	ILE A 282	28.118	-6.590	-21.430	1.00	0.00	C
ATOM	4453	C	ILE A 282	27.390	-6.438	-22.773	1.00	0.00	C
ATOM	4454	O	ILE A 282	26.171	-6.586	-22.852	1.00	0.00	O
ATOM	4455	CB	ILE A 282	27.965	-8.011	-20.837	1.00	0.00	C
ATOM	4456	CG1	ILE A 282	28.742	-8.247	-19.522	1.00	0.00	C
ATOM	4457	CG2	ILE A 282	28.343	-9.100	-21.863	1.00	0.00	C
ATOM	4458	CD1	ILE A 282	30.271	-8.168	-19.618	1.00	0.00	C
ATOM	4459	H	ILE A 282	26.713	-5.645	-20.108	1.00	0.00	H
ATOM	4460	HA	ILE A 282	29.181	-6.446	-21.624	1.00	0.00	H
ATOM	4461	HB	ILE A 282	26.915	-8.137	-20.596	1.00	0.00	H
ATOM	4462	HG12	ILE A 282	28.406	-7.530	-18.777	1.00	0.00	H
ATOM	4463	HG13	ILE A 282	28.481	-9.236	-19.142	1.00	0.00	H
ATOM	4464	HD11	ILE A 282	30.700	-8.300	-18.625	1.00	0.00	H
ATOM	4465	HD12	ILE A 282	30.575	-7.199	-20.009	1.00	0.00	H
ATOM	4466	HD13	ILE A 282	30.652	-8.958	-20.262	1.00	0.00	H
ATOM	4467	HG21	ILE A 282	28.257	-10.086	-21.404	1.00	0.00	H
ATOM	4468	HG22	ILE A 282	27.678	-9.069	-22.724	1.00	0.00	H
ATOM	4469	HG23	ILE A 282	29.367	-8.960	-22.206	1.00	0.00	H
ATOM	4470	N	SER A 283	28.164	-6.314	-23.856	1.00	0.00	N
ATOM	4471	CA	SER A 283	27.695	-6.274	-25.249	1.00	0.00	C
ATOM	4472	C	SER A 283	28.661	-7.033	-26.161	1.00	0.00	C
ATOM	4473	O	SER A 283	29.875	-6.905	-25.995	1.00	0.00	O

ATOM	4474	CB	SER A 283	27.566	-4.819	-25.716	1.00	0.00	C
ATOM	4475	OG	SER A 283	27.142	-4.757	-27.068	1.00	0.00	O
ATOM	4476	H	SER A 283	29.161	-6.257	-23.709	1.00	0.00	H
ATOM	4477	HA	SER A 283	26.713	-6.743	-25.315	1.00	0.00	H
ATOM	4478	HB2	SER A 283	26.842	-4.304	-25.087	1.00	0.00	H
ATOM	4479	HB3	SER A 283	28.530	-4.315	-25.618	1.00	0.00	H
ATOM	4480	HG	SER A 283	27.785	-5.220	-27.620	1.00	0.00	H
ATOM	4481	N	ARG A 284	28.136	-7.689	-27.207	1.00	0.00	N
ATOM	4482	CA	ARG A 284	28.914	-8.449	-28.215	1.00	0.00	C
ATOM	4483	C	ARG A 284	29.420	-7.589	-29.397	1.00	0.00	C
ATOM	4484	O	ARG A 284	28.713	-6.634	-29.742	1.00	0.00	O
ATOM	4485	CB	ARG A 284	28.085	-9.670	-28.681	1.00	0.00	C
ATOM	4486	CG	ARG A 284	27.147	-9.478	-29.889	1.00	0.00	C
ATOM	4487	CD	ARG A 284	26.108	-8.354	-29.782	1.00	0.00	C
ATOM	4488	NE	ARG A 284	25.513	-8.047	-31.097	1.00	0.00	N
ATOM	4489	CZ	ARG A 284	25.760	-7.007	-31.873	1.00	0.00	C
ATOM	4490	NH1	ARG A 284	26.658	-6.110	-31.603	1.00	0.00	N
ATOM	4491	NH2	ARG A 284	25.081	-6.808	-32.956	1.00	0.00	N
ATOM	4492	H	ARG A 284	27.124	-7.683	-27.287	1.00	0.00	H
ATOM	4493	HA	ARG A 284	29.803	-8.833	-27.707	1.00	0.00	H
ATOM	4494	HB2	ARG A 284	28.788	-10.450	-28.966	1.00	0.00	H
ATOM	4495	HB3	ARG A 284	27.508	-10.060	-27.840	1.00	0.00	H
ATOM	4496	HG2	ARG A 284	26.617	-10.415	-30.066	1.00	0.00	H
ATOM	4497	HG3	ARG A 284	27.763	-9.298	-30.761	1.00	0.00	H
ATOM	4498	HD2	ARG A 284	25.325	-8.667	-29.097	1.00	0.00	H
ATOM	4499	HD3	ARG A 284	26.544	-7.456	-29.357	1.00	0.00	H
ATOM	4500	HE	ARG A 284	24.695	-8.588	-31.360	1.00	0.00	H
ATOM	4501	HH11	ARG A 284	27.328	-6.265	-30.862	1.00	0.00	H
ATOM	4502	HH12	ARG A 284	26.705	-5.297	-32.204	1.00	0.00	H
ATOM	4503	HH21	ARG A 284	24.466	-7.528	-33.321	1.00	0.00	H



ATOM	4504	HH22	ARG A 284	25.262	-5.967	-33.488	1.00	0.00	H
ATOM	4505	N	PRO A 285	30.507	-7.957	-30.109	1.00	0.00	N
ATOM	4506	CA	PRO A 285	30.891	-7.349	-31.393	1.00	0.00	C
ATOM	4507	C	PRO A 285	29.763	-7.421	-32.424	1.00	0.00	C
ATOM	4508	O	PRO A 285	29.118	-8.457	-32.563	1.00	0.00	O
ATOM	4509	CB	PRO A 285	32.114	-8.123	-31.905	1.00	0.00	C
ATOM	4510	CG	PRO A 285	32.098	-9.419	-31.101	1.00	0.00	C
ATOM	4511	CD	PRO A 285	31.452	-9.011	-29.779	1.00	0.00	C
ATOM	4512	HA	PRO A 285	31.175	-6.309	-31.242	1.00	0.00	H
ATOM	4513	HB2	PRO A 285	32.062	-8.325	-32.977	1.00	0.00	H
ATOM	4514	HB3	PRO A 285	33.027	-7.574	-31.692	1.00	0.00	H
ATOM	4515	HG2	PRO A 285	31.467	-10.155	-31.602	1.00	0.00	H
ATOM	4516	HG3	PRO A 285	33.106	-9.808	-30.959	1.00	0.00	H
ATOM	4517	HD2	PRO A 285	32.214	-8.601	-29.113	1.00	0.00	H
ATOM	4518	HD3	PRO A 285	30.975	-9.875	-29.320	1.00	0.00	H
ATOM	4519	N	GLY A 286	29.500	-6.314	-33.119	1.00	0.00	N
ATOM	4520	CA	GLY A 286	28.614	-6.288	-34.289	1.00	0.00	C
ATOM	4521	C	GLY A 286	29.406	-6.298	-35.591	1.00	0.00	C
ATOM	4522	O	GLY A 286	30.530	-6.783	-35.618	1.00	0.00	O
ATOM	4523	H	GLY A 286	30.129	-5.528	-32.998	1.00	0.00	H
ATOM	4524	HA2	GLY A 286	27.933	-7.140	-34.290	1.00	0.00	H
ATOM	4525	HA3	GLY A 286	28.023	-5.378	-34.263	1.00	0.00	H
ATOM	4526	N	GLN A 287	28.922	-5.534	-36.565	1.00	0.00	N
ATOM	4527	CA	GLN A 287	29.726	-4.814	-37.553	1.00	0.00	C
ATOM	4528	C	GLN A 287	29.271	-3.339	-37.550	1.00	0.00	C
ATOM	4529	O	GLN A 287	28.921	-2.813	-36.493	1.00	0.00	O
ATOM	4530	CB	GLN A 287	29.648	-5.525	-38.920	1.00	0.00	C
ATOM	4531	CG	GLN A 287	30.257	-6.936	-38.841	1.00	0.00	C
ATOM	4532	CD	GLN A 287	30.789	-7.450	-40.172	1.00	0.00	C
ATOM	4533	OE1	GLN A 287	30.216	-7.275	-41.234	1.00	0.00	O

ATOM	4534	NE2	GLN A 287	31.918	-8.122	-40.165	1.00	0.00	N
ATOM	4535	H	GLN A 287	27.972	-5.177	-36.466	1.00	0.00	H
ATOM	4536	HA	GLN A 287	30.770	-4.811	-37.238	1.00	0.00	H
ATOM	4537	HB2	GLN A 287	30.224	-4.948	-39.644	1.00	0.00	H
ATOM	4538	HB3	GLN A 287	28.613	-5.585	-39.261	1.00	0.00	H
ATOM	4539	HG2	GLN A 287	31.097	-6.914	-38.148	1.00	0.00	H
ATOM	4540	HG3	GLN A 287	29.519	-7.639	-38.454	1.00	0.00	H
ATOM	4541	HE21	GLN A 287	32.434	-8.213	-39.305	1.00	0.00	H
ATOM	4542	HE22	GLN A 287	32.272	-8.410	-41.056	1.00	0.00	H
ATOM	4543	N	SER A 288	29.408	-2.608	-38.658	1.00	0.00	N
ATOM	4544	CA	SER A 288	29.243	-1.145	-38.701	1.00	0.00	C
ATOM	4545	C	SER A 288	27.787	-0.633	-38.694	1.00	0.00	C
ATOM	4546	O	SER A 288	27.565	0.519	-39.060	1.00	0.00	O
ATOM	4547	CB	SER A 288	30.008	-0.592	-39.908	1.00	0.00	C
ATOM	4548	OG	SER A 288	29.399	-1.019	-41.112	1.00	0.00	O
ATOM	4549	H	SER A 288	29.699	-3.063	-39.511	1.00	0.00	H
ATOM	4550	HA	SER A 288	29.711	-0.733	-37.806	1.00	0.00	H
ATOM	4551	HB2	SER A 288	30.015	0.498	-39.871	1.00	0.00	H
ATOM	4552	HB3	SER A 288	31.039	-0.945	-39.874	1.00	0.00	H
ATOM	4553	HG	SER A 288	28.564	-0.541	-41.193	1.00	0.00	H
ATOM	4554	N	GLN A 289	26.794	-1.485	-38.414	1.00	0.00	N
ATOM	4555	CA	GLN A 289	25.361	-1.137	-38.421	1.00	0.00	C
ATOM	4556	C	GLN A 289	24.715	-1.346	-37.037	1.00	0.00	C
ATOM	4557	O	GLN A 289	24.024	-0.459	-36.543	1.00	0.00	O
ATOM	4558	CB	GLN A 289	24.688	-1.946	-39.547	1.00	0.00	C
ATOM	4559	CG	GLN A 289	23.149	-1.946	-39.566	1.00	0.00	C
ATOM	4560	CD	GLN A 289	22.488	-0.656	-40.041	1.00	0.00	C
ATOM	4561	OE1	GLN A 289	23.092	0.389	-40.212	1.00	0.00	O
ATOM	4562	NE2	GLN A 289	21.204	-0.705	-40.325	1.00	0.00	N
ATOM	4563	H	GLN A 289	27.040	-2.430	-38.150	1.00	0.00	H

ATOM	4564	HA	GLN A 289	25.237	-0.079	-38.661	1.00	0.00	H
ATOM	4565	HB2	GLN A 289	25.054	-1.589	-40.511	1.00	0.00	H
ATOM	4566	HB3	GLN A 289	25.007	-2.982	-39.450	1.00	0.00	H
ATOM	4567	HG2	GLN A 289	22.769	-2.172	-38.573	1.00	0.00	H
ATOM	4568	HG3	GLN A 289	22.827	-2.748	-40.231	1.00	0.00	H
ATOM	4569	HE21	GLN A 289	20.720	-1.590	-40.283	1.00	0.00	H
ATOM	4570	HE22	GLN A 289	20.749	0.175	-40.494	1.00	0.00	H
ATOM	4571	N	CYS A 290	25.108	-2.403	-36.322	1.00	0.00	N
ATOM	4572	CA	CYS A 290	24.735	-2.694	-34.935	1.00	0.00	C
ATOM	4573	C	CYS A 290	25.978	-3.091	-34.092	1.00	0.00	C
ATOM	4574	O	CYS A 290	26.039	-4.225	-33.598	1.00	0.00	O
ATOM	4575	CB	CYS A 290	23.617	-3.757	-34.952	1.00	0.00	C
ATOM	4576	SG	CYS A 290	22.037	-3.172	-35.631	1.00	0.00	S
ATOM	4577	H	CYS A 290	25.664	-3.112	-36.797	1.00	0.00	H
ATOM	4578	HA	CYS A 290	24.319	-1.796	-34.477	1.00	0.00	H
ATOM	4579	HB2	CYS A 290	23.957	-4.601	-35.549	1.00	0.00	H
ATOM	4580	HB3	CYS A 290	23.438	-4.109	-33.936	1.00	0.00	H
ATOM	4581	N	PRO A 291	26.996	-2.210	-33.939	1.00	0.00	N
ATOM	4582	CA	PRO A 291	28.217	-2.450	-33.146	1.00	0.00	C
ATOM	4583	C	PRO A 291	27.943	-2.540	-31.630	1.00	0.00	C
ATOM	4584	O	PRO A 291	26.814	-2.340	-31.186	1.00	0.00	O
ATOM	4585	CB	PRO A 291	29.138	-1.266	-33.472	1.00	0.00	C
ATOM	4586	CG	PRO A 291	28.155	-0.132	-33.747	1.00	0.00	C
ATOM	4587	CD	PRO A 291	27.021	-0.852	-34.470	1.00	0.00	C
ATOM	4588	HA	PRO A 291	28.701	-3.370	-33.471	1.00	0.00	H
ATOM	4589	HB2	PRO A 291	29.820	-1.019	-32.658	1.00	0.00	H
ATOM	4590	HB3	PRO A 291	29.705	-1.479	-34.378	1.00	0.00	H
ATOM	4591	HG2	PRO A 291	28.599	0.648	-34.367	1.00	0.00	H
ATOM	4592	HG3	PRO A 291	27.791	0.281	-32.804	1.00	0.00	H
ATOM	4593	HD2	PRO A 291	26.078	-0.331	-34.299	1.00	0.00	H

ATOM	4594	HD3 PRO A 291	27.242	-0.885	-35.538	1.00	0.00	H
ATOM	4595	N ARG A 292	28.974	-2.818	-30.810	1.00	0.00	N
ATOM	4596	CA ARG A 292	28.834	-2.867	-29.334	1.00	0.00	C
ATOM	4597	C ARG A 292	28.155	-1.619	-28.757	1.00	0.00	C
ATOM	4598	O ARG A 292	28.538	-0.498	-29.079	1.00	0.00	O
ATOM	4599	CB ARG A 292	30.183	-3.090	-28.615	1.00	0.00	C
ATOM	4600	CG ARG A 292	30.550	-4.571	-28.567	1.00	0.00	C
ATOM	4601	CD ARG A 292	31.876	-4.925	-27.891	1.00	0.00	C
ATOM	4602	NE ARG A 292	31.867	-4.848	-26.423	1.00	0.00	N
ATOM	4603	CZ ARG A 292	32.892	-4.379	-25.733	1.00	0.00	C
ATOM	4604	NH1 ARG A 292	33.262	-4.972	-24.638	1.00	0.00	N
ATOM	4605	NH2 ARG A 292	33.638	-3.397	-26.146	1.00	0.00	N
ATOM	4606	H ARG A 292	29.881	-2.976	-31.229	1.00	0.00	H
ATOM	4607	HA ARG A 292	28.168	-3.697	-29.112	1.00	0.00	H
ATOM	4608	HB2 ARG A 292	30.111	-2.740	-27.586	1.00	0.00	H
ATOM	4609	HB3 ARG A 292	30.958	-2.517	-29.118	1.00	0.00	H
ATOM	4610	HG2 ARG A 292	29.759	-5.104	-28.048	1.00	0.00	H
ATOM	4611	HG3 ARG A 292	30.606	-4.923	-29.595	1.00	0.00	H
ATOM	4612	HD2 ARG A 292	32.087	-5.968	-28.133	1.00	0.00	H
ATOM	4613	HD3 ARG A 292	32.678	-4.326	-28.311	1.00	0.00	H
ATOM	4614	HE ARG A 292	31.346	-5.594	-25.980	1.00	0.00	H
ATOM	4615	HH11 ARG A 292	32.906	-5.888	-24.440	1.00	0.00	H
ATOM	4616	HH12 ARG A 292	34.176	-4.727	-24.261	1.00	0.00	H
ATOM	4617	HH21 ARG A 292	33.468	-3.022	-27.073	1.00	0.00	H
ATOM	4618	HH22 ARG A 292	34.607	-3.434	-25.862	1.00	0.00	H
ATOM	4619	N PHE A 293	27.319	-1.858	-27.746	1.00	0.00	N
ATOM	4620	CA PHE A 293	26.547	-0.867	-26.988	1.00	0.00	C
ATOM	4621	C PHE A 293	25.545	-0.047	-27.821	1.00	0.00	C
ATOM	4622	O PHE A 293	25.055	0.979	-27.347	1.00	0.00	O
ATOM	4623	CB PHE A 293	27.466	-0.017	-26.092	1.00	0.00	C

ATOM	4624	CG	PHE A 293	28.371	-0.830	-25.183	1.00	0.00	C
ATOM	4625	CD1	PHE A 293	27.847	-1.411	-24.014	1.00	0.00	C
ATOM	4626	CD2	PHE A 293	29.730	-1.010	-25.502	1.00	0.00	C
ATOM	4627	CE1	PHE A 293	28.674	-2.178	-23.174	1.00	0.00	C
ATOM	4628	CE2	PHE A 293	30.557	-1.778	-24.661	1.00	0.00	C
ATOM	4629	CZ	PHE A 293	30.027	-2.367	-23.499	1.00	0.00	C
ATOM	4630	H	PHE A 293	27.116	-2.826	-27.544	1.00	0.00	H
ATOM	4631	HA	PHE A 293	25.914	-1.441	-26.312	1.00	0.00	H
ATOM	4632	HB2	PHE A 293	26.846	0.625	-25.464	1.00	0.00	H
ATOM	4633	HB3	PHE A 293	28.073	0.638	-26.718	1.00	0.00	H
ATOM	4634	HD1	PHE A 293	26.811	-1.252	-23.754	1.00	0.00	H
ATOM	4635	HD2	PHE A 293	30.140	-0.552	-26.391	1.00	0.00	H
ATOM	4636	HE1	PHE A 293	28.276	-2.603	-22.265	1.00	0.00	H
ATOM	4637	HE2	PHE A 293	31.604	-1.898	-24.897	1.00	0.00	H
ATOM	4638	HZ	PHE A 293	30.664	-2.941	-22.837	1.00	0.00	H
ATOM	4639	N	ASN A 294	25.114	-0.550	-28.986	1.00	0.00	N
ATOM	4640	CA	ASN A 294	23.877	-0.066	-29.589	1.00	0.00	C
ATOM	4641	C	ASN A 294	22.645	-0.597	-28.831	1.00	0.00	C
ATOM	4642	O	ASN A 294	22.563	-1.768	-28.463	1.00	0.00	O
ATOM	4643	CB	ASN A 294	23.820	-0.390	-31.089	1.00	0.00	C
ATOM	4644	CG	ASN A 294	22.542	0.156	-31.708	1.00	0.00	C
ATOM	4645	OD1	ASN A 294	22.216	1.324	-31.546	1.00	0.00	O
ATOM	4646	ND2	ASN A 294	21.611	-0.706	-32.032	1.00	0.00	N
ATOM	4647	H	ASN A 294	25.459	-1.454	-29.284	1.00	0.00	H
ATOM	4648	HA	ASN A 294	23.868	1.023	-29.502	1.00	0.00	H
ATOM	4649	HB2	ASN A 294	24.668	0.067	-31.597	1.00	0.00	H
ATOM	4650	HB3	ASN A 294	23.876	-1.464	-31.242	1.00	0.00	H
ATOM	4651	HD21	ASN A 294	21.680	-1.666	-31.723	1.00	0.00	H
ATOM	4652	HD22	ASN A 294	20.714	-0.331	-32.322	1.00	0.00	H
ATOM	4653	N	VAL A 295	21.638	0.266	-28.711	1.00	0.00	N

ATOM	4654	CA	VAL A 295	20.312	-0.046	-28.147	1.00	0.00	C
ATOM	4655	C	VAL A 295	19.185	0.477	-29.057	1.00	0.00	C
ATOM	4656	O	VAL A 295	18.021	0.120	-28.887	1.00	0.00	O
ATOM	4657	CB	VAL A 295	20.211	0.502	-26.700	1.00	0.00	C
ATOM	4658	CG1	VAL A 295	18.941	0.051	-25.965	1.00	0.00	C
ATOM	4659	CG2	VAL A 295	21.400	0.070	-25.823	1.00	0.00	C
ATOM	4660	H	VAL A 295	21.803	1.201	-29.053	1.00	0.00	H
ATOM	4661	HA	VAL A 295	20.196	-1.130	-28.104	1.00	0.00	H
ATOM	4662	HB	VAL A 295	20.209	1.592	-26.742	1.00	0.00	H
ATOM	4663	HG21	VAL A 295	22.329	0.501	-26.197	1.00	0.00	H
ATOM	4664	HG22	VAL A 295	21.489	-1.018	-25.825	1.00	0.00	H
ATOM	4665	HG23	VAL A 295	21.265	0.419	-24.799	1.00	0.00	H
ATOM	4666	HG11	VAL A 295	18.057	0.476	-26.437	1.00	0.00	H
ATOM	4667	HG12	VAL A 295	18.871	-1.037	-25.979	1.00	0.00	H
ATOM	4668	HG13	VAL A 295	18.963	0.396	-24.931	1.00	0.00	H
ATOM	4669	N	CYS A 296	19.512	1.294	-30.066	1.00	0.00	N
ATOM	4670	CA	CYS A 296	18.532	1.829	-31.004	1.00	0.00	C
ATOM	4671	C	CYS A 296	18.097	0.776	-32.034	1.00	0.00	C
ATOM	4672	O	CYS A 296	18.969	0.156	-32.645	1.00	0.00	O
ATOM	4673	CB	CYS A 296	19.099	3.074	-31.688	1.00	0.00	C
ATOM	4674	SG	CYS A 296	19.005	4.528	-30.616	1.00	0.00	S
ATOM	4675	H	CYS A 296	20.487	1.419	-30.300	1.00	0.00	H
ATOM	4676	HA	CYS A 296	17.668	2.139	-30.426	1.00	0.00	H
ATOM	4677	HB2	CYS A 296	20.134	2.893	-31.983	1.00	0.00	H
ATOM	4678	HB3	CYS A 296	18.525	3.278	-32.595	1.00	0.00	H
ATOM	4679	N	PRO A 297	16.788	0.623	-32.317	1.00	0.00	N
ATOM	4680	CA	PRO A 297	16.325	-0.359	-33.288	1.00	0.00	C
ATOM	4681	C	PRO A 297	16.806	-0.068	-34.708	1.00	0.00	C
ATOM	4682	O	PRO A 297	16.348	0.886	-35.332	1.00	0.00	O
ATOM	4683	CB	PRO A 297	14.800	-0.382	-33.183	1.00	0.00	C

ATOM	4684	CG	PRO A 297	14.533	0.135	-31.773	1.00	0.00	C
ATOM	4685	CD	PRO A 297	15.657	1.141	-31.558	1.00	0.00	C
ATOM	4686	HA	PRO A 297	16.704	-1.326	-32.984	1.00	0.00	H
ATOM	4687	HB2	PRO A 297	14.349	0.302	-33.904	1.00	0.00	H
ATOM	4688	HB3	PRO A 297	14.423	-1.393	-33.325	1.00	0.00	H
ATOM	4689	HG2	PRO A 297	13.554	0.605	-31.688	1.00	0.00	H
ATOM	4690	HG3	PRO A 297	14.636	-0.682	-31.060	1.00	0.00	H
ATOM	4691	HD2	PRO A 297	15.868	1.204	-30.490	1.00	0.00	H
ATOM	4692	HD3	PRO A 297	15.372	2.117	-31.950	1.00	0.00	H
ATOM	4693	N	GLU A 298	17.544	-1.007	-35.297	1.00	0.00	N
ATOM	4694	CA	GLU A 298	18.062	-0.888	-36.661	1.00	0.00	C
ATOM	4695	C	GLU A 298	17.939	-2.165	-37.487	1.00	0.00	C
ATOM	4696	O	GLU A 298	17.790	-3.278	-36.973	1.00	0.00	O
ATOM	4697	CB	GLU A 298	19.510	-0.356	-36.672	1.00	0.00	C
ATOM	4698	CG	GLU A 298	19.604	1.177	-36.590	1.00	0.00	C
ATOM	4699	CD	GLU A 298	18.743	1.918	-37.633	1.00	0.00	C
ATOM	4700	OE1	GLU A 298	18.409	1.311	-38.684	1.00	0.00	O
ATOM	4701	OE2	GLU A 298	18.120	2.926	-37.224	1.00	0.00	O
ATOM	4702	H	GLU A 298	17.859	-1.792	-34.747	1.00	0.00	H
ATOM	4703	HA	GLU A 298	17.433	-0.179	-37.187	1.00	0.00	H
ATOM	4704	HB2	GLU A 298	20.069	-0.800	-35.847	1.00	0.00	H
ATOM	4705	HB3	GLU A 298	19.998	-0.664	-37.598	1.00	0.00	H
ATOM	4706	HG2	GLU A 298	19.304	1.484	-35.585	1.00	0.00	H
ATOM	4707	HG3	GLU A 298	20.648	1.466	-36.722	1.00	0.00	H
ATOM	4708	N	VAL A 299	17.913	-1.979	-38.808	1.00	0.00	N
ATOM	4709	CA	VAL A 299	17.830	-3.079	-39.773	1.00	0.00	C
ATOM	4710	C	VAL A 299	19.177	-3.800	-39.835	1.00	0.00	C
ATOM	4711	O	VAL A 299	20.052	-3.424	-40.612	1.00	0.00	O
ATOM	4712	CB	VAL A 299	17.370	-2.587	-41.161	1.00	0.00	C
ATOM	4713	CG1	VAL A 299	17.185	-3.761	-42.132	1.00	0.00	C

ATOM	4714	CG2 VAL A 299	16.025	-1.855	-41.073	1.00	0.00	C
ATOM	4715	H VAL A 299	18.055	-1.030	-39.148	1.00	0.00	H
ATOM	4716	HA VAL A 299	17.085	-3.790	-39.415	1.00	0.00	H
ATOM	4717	HB VAL A 299	18.107	-1.898	-41.574	1.00	0.00	H
ATOM	4718	HG21 VAL A 299	16.152	-0.932	-40.508	1.00	0.00	H
ATOM	4719	HG22 VAL A 299	15.287	-2.480	-40.574	1.00	0.00	H
ATOM	4720	HG23 VAL A 299	15.672	-1.588	-42.068	1.00	0.00	H
ATOM	4721	HG11 VAL A 299	18.136	-4.269	-42.289	1.00	0.00	H
ATOM	4722	HG12 VAL A 299	16.843	-3.382	-43.095	1.00	0.00	H
ATOM	4723	HG13 VAL A 299	16.459	-4.467	-41.728	1.00	0.00	H
ATOM	4724	N CYS A 300	19.344	-4.827	-39.004	1.00	0.00	N
ATOM	4725	CA CYS A 300	20.543	-5.663	-38.949	1.00	0.00	C
ATOM	4726	C CYS A 300	20.222	-7.121	-38.584	1.00	0.00	C
ATOM	4727	O CYS A 300	19.201	-7.409	-37.948	1.00	0.00	O
ATOM	4728	CB CYS A 300	21.556	-5.042	-37.976	1.00	0.00	C
ATOM	4729	SG CYS A 300	21.033	-4.838	-36.252	1.00	0.00	S
ATOM	4730	H CYS A 300	18.661	-4.951	-38.269	1.00	0.00	H
ATOM	4731	HA CYS A 300	21.008	-5.672	-39.936	1.00	0.00	H
ATOM	4732	HB2 CYS A 300	22.462	-5.644	-37.980	1.00	0.00	H
ATOM	4733	HB3 CYS A 300	21.826	-4.063	-38.362	1.00	0.00	H
ATOM	4734	N TRP A 301	21.155	-8.009	-38.940	1.00	0.00	N
ATOM	4735	CA TRP A 301	21.322	-9.360	-38.400	1.00	0.00	C
ATOM	4736	C TRP A 301	22.824	-9.643	-38.283	1.00	0.00	C
ATOM	4737	O TRP A 301	23.486	-9.941	-39.274	1.00	0.00	O
ATOM	4738	CB TRP A 301	20.620	-10.421	-39.260	1.00	0.00	C
ATOM	4739	CG TRP A 301	20.896	-11.841	-38.840	1.00	0.00	C
ATOM	4740	CD1 TRP A 301	20.707	-12.337	-37.595	1.00	0.00	C
ATOM	4741	CD2 TRP A 301	21.484	-12.940	-39.606	1.00	0.00	C
ATOM	4742	NE1 TRP A 301	21.059	-13.669	-37.556	1.00	0.00	N
ATOM	4743	CE2 TRP A 301	21.547	-14.098	-38.771	1.00	0.00	C



ATOM	4744	CE3 TRP A 301	21.986	-13.083	-40.921	1.00	0.00	C
ATOM	4745	CZ2 TRP A 301	22.038	-15.331	-39.216	1.00	0.00	C
ATOM	4746	CZ3 TRP A 301	22.491	-14.317	-41.378	1.00	0.00	C
ATOM	4747	CH2 TRP A 301	22.510	-15.443	-40.535	1.00	0.00	C
ATOM	4748	H TRP A 301	21.952	-7.655	-39.452	1.00	0.00	H
ATOM	4749	HA TRP A 301	20.886	-9.402	-37.405	1.00	0.00	H
ATOM	4750	HB2 TRP A 301	19.544	-10.248	-39.221	1.00	0.00	H
ATOM	4751	HB3 TRP A 301	20.940	-10.301	-40.296	1.00	0.00	H
ATOM	4752	HD1 TRP A 301	20.323	-11.764	-36.761	1.00	0.00	H
ATOM	4753	HE3 TRP A 301	21.995	-12.218	-41.569	1.00	0.00	H
ATOM	4754	HZ2 TRP A 301	22.071	-16.182	-38.551	1.00	0.00	H
ATOM	4755	HZ3 TRP A 301	22.877	-14.399	-42.385	1.00	0.00	H
ATOM	4756	HH2 TRP A 301	22.905	-16.384	-40.892	1.00	0.00	H
ATOM	4757	HE1 TRP A 301	21.002	-14.237	-36.724	1.00	0.00	H
ATOM	4758	N GLU A 302	23.391	-9.299	-37.129	1.00	0.00	N
ATOM	4759	CA GLU A 302	24.831	-9.325	-36.871	1.00	0.00	C
ATOM	4760	C GLU A 302	25.118	-9.435	-35.369	1.00	0.00	C
ATOM	4761	O GLU A 302	24.330	-9.000	-34.522	1.00	0.00	O
ATOM	4762	CB GLU A 302	25.526	-8.089	-37.476	1.00	0.00	C
ATOM	4763	CG GLU A 302	25.227	-6.777	-36.738	1.00	0.00	C
ATOM	4764	CD GLU A 302	25.537	-5.563	-37.618	1.00	0.00	C
ATOM	4765	OE1 GLU A 302	24.724	-5.305	-38.528	1.00	0.00	O
ATOM	4766	OE2 GLU A 302	26.351	-4.724	-37.167	1.00	0.00	O
ATOM	4767	H GLU A 302	22.786	-9.091	-36.344	1.00	0.00	H
ATOM	4768	HA GLU A 302	25.246	-10.208	-37.359	1.00	0.00	H
ATOM	4769	HB2 GLU A 302	25.220	-7.997	-38.518	1.00	0.00	H
ATOM	4770	HB3 GLU A 302	26.604	-8.253	-37.464	1.00	0.00	H
ATOM	4771	HG2 GLU A 302	24.171	-6.748	-36.461	1.00	0.00	H
ATOM	4772	HG3 GLU A 302	25.815	-6.739	-35.817	1.00	0.00	H
ATOM	4773	N GLY A 303	26.263	-10.021	-35.039	1.00	0.00	N

ATOM	4774	CA	GLY A 303	26.666	-10.348	-33.677	1.00	0.00	C
ATOM	4775	C	GLY A 303	27.616	-11.544	-33.669	1.00	0.00	C
ATOM	4776	O	GLY A 303	27.719	-12.250	-34.674	1.00	0.00	O
ATOM	4777	H	GLY A 303	26.848	-10.393	-35.775	1.00	0.00	H
ATOM	4778	HA2	GLY A 303	27.147	-9.486	-33.229	1.00	0.00	H
ATOM	4779	HA3	GLY A 303	25.790	-10.601	-33.081	1.00	0.00	H
ATOM	4780	N	THR A 304	28.075	-11.935	-32.480	1.00	0.00	N
ATOM	4781	CA	THR A 304	28.517	-13.313	-32.224	1.00	0.00	C
ATOM	4782	C	THR A 304	27.970	-13.847	-30.900	1.00	0.00	C
ATOM	4783	O	THR A 304	27.530	-13.095	-30.025	1.00	0.00	O
ATOM	4784	CB	THR A 304	30.037	-13.532	-32.336	1.00	0.00	C
ATOM	4785	OG1	THR A 304	30.704	-13.230	-31.140	1.00	0.00	O
ATOM	4786	CG2	THR A 304	30.745	-12.780	-33.460	1.00	0.00	C
ATOM	4787	H	THR A 304	27.949	-11.332	-31.683	1.00	0.00	H
ATOM	4788	HA	THR A 304	28.084	-13.941	-32.998	1.00	0.00	H
ATOM	4789	HB	THR A 304	30.173	-14.597	-32.521	1.00	0.00	H
ATOM	4790	HG21	THR A 304	31.800	-13.058	-33.475	1.00	0.00	H
ATOM	4791	HG22	THR A 304	30.300	-13.047	-34.418	1.00	0.00	H
ATOM	4792	HG23	THR A 304	30.665	-11.704	-33.309	1.00	0.00	H
ATOM	4793	HG1	THR A 304	30.425	-12.319	-30.935	1.00	0.00	H
ATOM	4794	N	TYR A 305	27.905	-15.172	-30.780	1.00	0.00	N
ATOM	4795	CA	TYR A 305	27.410	-15.864	-29.593	1.00	0.00	C
ATOM	4796	C	TYR A 305	28.416	-15.743	-28.428	1.00	0.00	C
ATOM	4797	O	TYR A 305	29.510	-16.304	-28.493	1.00	0.00	O
ATOM	4798	CB	TYR A 305	27.116	-17.312	-30.015	1.00	0.00	C
ATOM	4799	CG	TYR A 305	26.492	-18.197	-28.959	1.00	0.00	C
ATOM	4800	CD1	TYR A 305	25.155	-18.618	-29.070	1.00	0.00	C
ATOM	4801	CD2	TYR A 305	27.265	-18.636	-27.877	1.00	0.00	C
ATOM	4802	CE1	TYR A 305	24.593	-19.475	-28.100	1.00	0.00	C
ATOM	4803	CE2	TYR A 305	26.712	-19.482	-26.906	1.00	0.00	C

ATOM	4804	CZ	TYR A 305	25.368	-19.888	-26.996	1.00	0.00	C
ATOM	4805	OH	TYR A 305	24.827	-20.648	-26.016	1.00	0.00	O
ATOM	4806	H	TYR A 305	28.273	-15.733	-31.532	1.00	0.00	H
ATOM	4807	HA	TYR A 305	26.472	-15.403	-29.282	1.00	0.00	H
ATOM	4808	HB2	TYR A 305	28.045	-17.775	-30.347	1.00	0.00	H
ATOM	4809	HB3	TYR A 305	26.451	-17.289	-30.880	1.00	0.00	H
ATOM	4810	HD1	TYR A 305	24.548	-18.254	-29.885	1.00	0.00	H
ATOM	4811	HD2	TYR A 305	28.289	-18.311	-27.771	1.00	0.00	H
ATOM	4812	HE1	TYR A 305	23.555	-19.776	-28.156	1.00	0.00	H
ATOM	4813	HE2	TYR A 305	27.315	-19.797	-26.068	1.00	0.00	H
ATOM	4814	HH	TYR A 305	25.398	-20.641	-25.210	1.00	0.00	H
ATOM	4815	N	ASN A 306	28.004	-15.100	-27.330	1.00	0.00	N
ATOM	4816	CA	ASN A 306	28.809	-14.855	-26.126	1.00	0.00	C
ATOM	4817	C	ASN A 306	27.963	-15.148	-24.872	1.00	0.00	C
ATOM	4818	O	ASN A 306	27.151	-14.301	-24.499	1.00	0.00	O
ATOM	4819	CB	ASN A 306	29.293	-13.388	-26.116	1.00	0.00	C
ATOM	4820	CG	ASN A 306	30.307	-13.048	-27.189	1.00	0.00	C
ATOM	4821	OD1	ASN A 306	31.470	-12.831	-26.911	1.00	0.00	O
ATOM	4822	ND2	ASN A 306	29.876	-12.792	-28.399	1.00	0.00	N
ATOM	4823	H	ASN A 306	27.062	-14.731	-27.310	1.00	0.00	H
ATOM	4824	HA	ASN A 306	29.679	-15.507	-26.121	1.00	0.00	H
ATOM	4825	HB2	ASN A 306	28.439	-12.718	-26.214	1.00	0.00	H
ATOM	4826	HB3	ASN A 306	29.761	-13.189	-25.151	1.00	0.00	H
ATOM	4827	HD21	ASN A 306	28.911	-12.939	-28.650	1.00	0.00	H
ATOM	4828	HD22	ASN A 306	30.567	-12.678	-29.128	1.00	0.00	H
ATOM	4829	N	ASP A 307	28.012	-16.376	-24.334	1.00	0.00	N
ATOM	4830	CA	ASP A 307	27.130	-16.788	-23.224	1.00	0.00	C
ATOM	4831	C	ASP A 307	27.815	-16.835	-21.845	1.00	0.00	C
ATOM	4832	O	ASP A 307	29.041	-16.904	-21.711	1.00	0.00	O
ATOM	4833	CB	ASP A 307	26.279	-18.029	-23.577	1.00	0.00	C

ATOM	4834	CG	ASP A 307	26.884	-19.413	-23.321	1.00	0.00	C
ATOM	4835	OD1	ASP A 307	27.427	-19.634	-22.221	1.00	0.00	O
ATOM	4836	OD2	ASP A 307	26.378	-20.368	-23.948	1.00	0.00	O
ATOM	4837	H	ASP A 307	28.786	-16.979	-24.582	1.00	0.00	H
ATOM	4838	HA	ASP A 307	26.382	-16.002	-23.115	1.00	0.00	H
ATOM	4839	HB2	ASP A 307	25.990	-17.961	-24.626	1.00	0.00	H
ATOM	4840	HB3	ASP A 307	25.359	-17.971	-22.993	1.00	0.00	H
ATOM	4841	N	ALA A 308	26.976	-16.691	-20.817	1.00	0.00	N
ATOM	4842	CA	ALA A 308	27.347	-16.546	-19.416	1.00	0.00	C
ATOM	4843	C	ALA A 308	26.333	-17.265	-18.512	1.00	0.00	C
ATOM	4844	O	ALA A 308	25.180	-17.486	-18.898	1.00	0.00	O
ATOM	4845	CB	ALA A 308	27.440	-15.049	-19.092	1.00	0.00	C
ATOM	4846	H	ALA A 308	25.987	-16.711	-21.012	1.00	0.00	H
ATOM	4847	HA	ALA A 308	28.323	-17.006	-19.256	1.00	0.00	H
ATOM	4848	HB1	ALA A 308	27.742	-14.912	-18.052	1.00	0.00	H
ATOM	4849	HB2	ALA A 308	28.178	-14.575	-19.741	1.00	0.00	H
ATOM	4850	HB3	ALA A 308	26.469	-14.576	-19.246	1.00	0.00	H
ATOM	4851	N	PHE A 309	26.745	-17.555	-17.280	1.00	0.00	N
ATOM	4852	CA	PHE A 309	26.056	-18.434	-16.338	1.00	0.00	C
ATOM	4853	C	PHE A 309	25.835	-17.743	-14.986	1.00	0.00	C
ATOM	4854	O	PHE A 309	26.763	-17.145	-14.444	1.00	0.00	O
ATOM	4855	CB	PHE A 309	26.902	-19.701	-16.195	1.00	0.00	C
ATOM	4856	CG	PHE A 309	26.203	-20.909	-15.605	1.00	0.00	C
ATOM	4857	CD1	PHE A 309	25.847	-21.983	-16.442	1.00	0.00	C
ATOM	4858	CD2	PHE A 309	25.968	-20.999	-14.220	1.00	0.00	C
ATOM	4859	CE1	PHE A 309	25.321	-23.166	-15.894	1.00	0.00	C
ATOM	4860	CE2	PHE A 309	25.403	-22.166	-13.677	1.00	0.00	C
ATOM	4861	CZ	PHE A 309	25.095	-23.255	-14.510	1.00	0.00	C
ATOM	4862	H	PHE A 309	27.704	-17.317	-17.048	1.00	0.00	H
ATOM	4863	HA	PHE A 309	25.096	-18.721	-16.751	1.00	0.00	H

ATOM	4864	HB2 PHE A 309	27.277	-19.980	-17.178	1.00	0.00	H
ATOM	4865	HB3 PHE A 309	27.773	-19.463	-15.587	1.00	0.00	H
ATOM	4866	HD1 PHE A 309	26.003	-21.913	-17.510	1.00	0.00	H
ATOM	4867	HD2 PHE A 309	26.243	-20.185	-13.565	1.00	0.00	H
ATOM	4868	HE1 PHE A 309	25.084	-24.003	-16.540	1.00	0.00	H
ATOM	4869	HE2 PHE A 309	25.230	-22.232	-12.612	1.00	0.00	H
ATOM	4870	HZ PHE A 309	24.698	-24.166	-14.085	1.00	0.00	H
ATOM	4871	N LEU A 310	24.639	-17.861	-14.404	1.00	0.00	N
ATOM	4872	CA LEU A 310	24.291	-17.278	-13.103	1.00	0.00	C
ATOM	4873	C LEU A 310	24.958	-18.041	-11.939	1.00	0.00	C
ATOM	4874	O LEU A 310	24.559	-19.159	-11.616	1.00	0.00	O
ATOM	4875	CB LEU A 310	22.757	-17.266	-13.002	1.00	0.00	C
ATOM	4876	CG LEU A 310	22.193	-16.566	-11.754	1.00	0.00	C
ATOM	4877	CD1 LEU A 310	22.444	-15.063	-11.800	1.00	0.00	C
ATOM	4878	CD2 LEU A 310	20.685	-16.796	-11.695	1.00	0.00	C
ATOM	4879	H LEU A 310	23.916	-18.369	-14.889	1.00	0.00	H
ATOM	4880	HA LEU A 310	24.640	-16.247	-13.086	1.00	0.00	H
ATOM	4881	HB2 LEU A 310	22.412	-18.299	-13.002	1.00	0.00	H
ATOM	4882	HB3 LEU A 310	22.348	-16.777	-13.888	1.00	0.00	H
ATOM	4883	HG LEU A 310	22.643	-16.980	-10.851	1.00	0.00	H
ATOM	4884	HD11 LEU A 310	21.924	-14.577	-10.978	1.00	0.00	H
ATOM	4885	HD12 LEU A 310	22.079	-14.657	-12.742	1.00	0.00	H
ATOM	4886	HD13 LEU A 310	23.505	-14.857	-11.706	1.00	0.00	H
ATOM	4887	HD21 LEU A 310	20.487	-17.860	-11.590	1.00	0.00	H
ATOM	4888	HD22 LEU A 310	20.257	-16.264	-10.849	1.00	0.00	H
ATOM	4889	HD23 LEU A 310	20.213	-16.429	-12.607	1.00	0.00	H
ATOM	4890	N ILE A 311	25.961	-17.432	-11.296	1.00	0.00	N
ATOM	4891	CA ILE A 311	26.731	-18.035	-10.188	1.00	0.00	C
ATOM	4892	C ILE A 311	26.261	-17.607	-8.787	1.00	0.00	C
ATOM	4893	O ILE A 311	26.547	-18.307	-7.819	1.00	0.00	O

ATOM	4894	CB	ILE A 311	28.249	-17.820	-10.372	1.00	0.00	C
ATOM	4895	CG1	ILE A 311	28.657	-16.331	-10.332	1.00	0.00	C
ATOM	4896	CG2	ILE A 311	28.746	-18.514	-11.653	1.00	0.00	C
ATOM	4897	CD1	ILE A 311	30.156	-16.137	-10.082	1.00	0.00	C
ATOM	4898	H	ILE A 311	26.187	-16.482	-11.564	1.00	0.00	H
ATOM	4899	HA	ILE A 311	26.570	-19.113	-10.218	1.00	0.00	H
ATOM	4900	HB	ILE A 311	28.735	-18.320	-9.531	1.00	0.00	H
ATOM	4901	HG12	ILE A 311	28.127	-15.829	-9.523	1.00	0.00	H
ATOM	4902	HG13	ILE A 311	28.383	-15.847	-11.270	1.00	0.00	H
ATOM	4903	HG21	ILE A 311	29.834	-18.521	-11.688	1.00	0.00	H
ATOM	4904	HG22	ILE A 311	28.396	-19.547	-11.675	1.00	0.00	H
ATOM	4905	HG23	ILE A 311	28.367	-17.999	-12.536	1.00	0.00	H
ATOM	4906	HD11	ILE A 311	30.372	-15.074	-9.982	1.00	0.00	H
ATOM	4907	HD12	ILE A 311	30.440	-16.641	-9.161	1.00	0.00	H
ATOM	4908	HD13	ILE A 311	30.739	-16.544	-10.905	1.00	0.00	H
ATOM	4909	N	ASP A 312	25.427	-16.568	-8.688	1.00	0.00	N
ATOM	4910	CA	ASP A 312	24.532	-16.325	-7.549	1.00	0.00	C
ATOM	4911	C	ASP A 312	23.263	-15.601	-8.019	1.00	0.00	C
ATOM	4912	O	ASP A 312	23.348	-14.541	-8.635	1.00	0.00	O
ATOM	4913	CB	ASP A 312	25.229	-15.516	-6.443	1.00	0.00	C
ATOM	4914	CG	ASP A 312	24.283	-15.203	-5.274	1.00	0.00	C
ATOM	4915	OD1	ASP A 312	24.347	-14.050	-4.794	1.00	0.00	O
ATOM	4916	OD2	ASP A 312	23.290	-15.943	-5.090	1.00	0.00	O
ATOM	4917	H	ASP A 312	25.279	-16.001	-9.516	1.00	0.00	H
ATOM	4918	HA	ASP A 312	24.240	-17.282	-7.117	1.00	0.00	H
ATOM	4919	HB2	ASP A 312	26.080	-16.084	-6.063	1.00	0.00	H
ATOM	4920	HB3	ASP A 312	25.605	-14.582	-6.866	1.00	0.00	H
ATOM	4921	N	ARG A 313	22.081	-16.113	-7.654	1.00	0.00	N
ATOM	4922	CA	ARG A 313	20.793	-15.452	-7.915	1.00	0.00	C
ATOM	4923	C	ARG A 313	20.472	-14.332	-6.919	1.00	0.00	C

ATOM	4924	O	ARG A 313	19.787	-13.388	-7.299	1.00	0.00	O
ATOM	4925	CB	ARG A 313	19.680	-16.514	-7.971	1.00	0.00	C
ATOM	4926	CG	ARG A 313	18.327	-15.915	-8.402	1.00	0.00	C
ATOM	4927	CD	ARG A 313	17.270	-16.975	-8.732	1.00	0.00	C
ATOM	4928	NE	ARG A 313	17.539	-17.627	-10.024	1.00	0.00	N
ATOM	4929	CZ	ARG A 313	18.023	-18.831	-10.255	1.00	0.00	C
ATOM	4930	NH1	ARG A 313	18.361	-19.655	-9.309	1.00	0.00	N
ATOM	4931	NH2	ARG A 313	18.138	-19.257	-11.471	1.00	0.00	N
ATOM	4932	H	ARG A 313	22.112	-16.879	-6.994	1.00	0.00	H
ATOM	4933	HA	ARG A 313	20.846	-14.968	-8.892	1.00	0.00	H
ATOM	4934	HB2	ARG A 313	19.976	-17.280	-8.688	1.00	0.00	H
ATOM	4935	HB3	ARG A 313	19.570	-16.984	-6.992	1.00	0.00	H
ATOM	4936	HG2	ARG A 313	18.468	-15.281	-9.277	1.00	0.00	H
ATOM	4937	HG3	ARG A 313	17.940	-15.296	-7.592	1.00	0.00	H
ATOM	4938	HD2	ARG A 313	17.206	-17.702	-7.922	1.00	0.00	H
ATOM	4939	HD3	ARG A 313	16.304	-16.472	-8.810	1.00	0.00	H
ATOM	4940	HE	ARG A 313	17.274	-17.097	-10.861	1.00	0.00	H
ATOM	4941	HH11	ARG A 313	18.183	-19.434	-8.351	1.00	0.00	H
ATOM	4942	HH12	ARG A 313	18.696	-20.572	-9.578	1.00	0.00	H
ATOM	4943	HH21	ARG A 313	17.728	-18.651	-12.190	1.00	0.00	H
ATOM	4944	HH22	ARG A 313	18.273	-20.242	-11.664	1.00	0.00	H
ATOM	4945	N	LEU A 314	20.974	-14.388	-5.683	1.00	0.00	N
ATOM	4946	CA	LEU A 314	20.622	-13.433	-4.622	1.00	0.00	C
ATOM	4947	C	LEU A 314	21.212	-12.036	-4.872	1.00	0.00	C
ATOM	4948	O	LEU A 314	20.497	-11.042	-4.797	1.00	0.00	O
ATOM	4949	CB	LEU A 314	21.071	-13.986	-3.256	1.00	0.00	C
ATOM	4950	CG	LEU A 314	20.491	-15.365	-2.884	1.00	0.00	C
ATOM	4951	CD1	LEU A 314	21.051	-15.811	-1.532	1.00	0.00	C
ATOM	4952	CD2	LEU A 314	18.963	-15.344	-2.779	1.00	0.00	C
ATOM	4953	H	LEU A 314	21.657	-15.113	-5.465	1.00	0.00	H

ATOM	4954	HA	LEU A 314	19.539	-13.308	-4.610	1.00	0.00	H
ATOM	4955	HB2	LEU A 314	20.789	-13.268	-2.485	1.00	0.00	H
ATOM	4956	HB3	LEU A 314	22.159	-14.063	-3.254	1.00	0.00	H
ATOM	4957	HG	LEU A 314	20.778	-16.104	-3.631	1.00	0.00	H
ATOM	4958	HD11	LEU A 314	22.138	-15.869	-1.597	1.00	0.00	H
ATOM	4959	HD12	LEU A 314	20.664	-16.798	-1.281	1.00	0.00	H
ATOM	4960	HD13	LEU A 314	20.770	-15.101	-0.755	1.00	0.00	H
ATOM	4961	HD21	LEU A 314	18.604	-16.319	-2.449	1.00	0.00	H
ATOM	4962	HD22	LEU A 314	18.647	-14.583	-2.065	1.00	0.00	H
ATOM	4963	HD23	LEU A 314	18.526	-15.131	-3.753	1.00	0.00	H
ATOM	4964	N	ASN A 315	22.463	-11.975	-5.331	1.00	0.00	N
ATOM	4965	CA	ASN A 315	23.101	-10.761	-5.855	1.00	0.00	C
ATOM	4966	C	ASN A 315	22.906	-10.579	-7.379	1.00	0.00	C
ATOM	4967	O	ASN A 315	23.472	-9.645	-7.946	1.00	0.00	O
ATOM	4968	CB	ASN A 315	24.593	-10.786	-5.468	1.00	0.00	C
ATOM	4969	CG	ASN A 315	24.816	-10.698	-3.971	1.00	0.00	C
ATOM	4970	OD1	ASN A 315	25.105	-9.644	-3.434	1.00	0.00	O
ATOM	4971	ND2	ASN A 315	24.794	-11.802	-3.267	1.00	0.00	N
ATOM	4972	H	ASN A 315	23.014	-12.832	-5.309	1.00	0.00	H
ATOM	4973	HA	ASN A 315	22.645	-9.889	-5.380	1.00	0.00	H
ATOM	4974	HB2	ASN A 315	25.059	-11.695	-5.849	1.00	0.00	H
ATOM	4975	HB3	ASN A 315	25.095	-9.931	-5.915	1.00	0.00	H
ATOM	4976	HD21	ASN A 315	24.602	-12.690	-3.739	1.00	0.00	H
ATOM	4977	HD22	ASN A 315	24.938	-11.733	-2.282	1.00	0.00	H
ATOM	4978	N	TRP A 316	22.248	-11.541	-8.040	1.00	0.00	N
ATOM	4979	CA	TRP A 316	22.129	-11.727	-9.497	1.00	0.00	C
ATOM	4980	C	TRP A 316	23.455	-11.548	-10.268	1.00	0.00	C
ATOM	4981	O	TRP A 316	23.581	-10.745	-11.195	1.00	0.00	O
ATOM	4982	CB	TRP A 316	20.889	-11.013	-10.071	1.00	0.00	C
ATOM	4983	CG	TRP A 316	20.049	-11.914	-10.935	1.00	0.00	C



ATOM	4984	CD1 TRP A 316	18.989	-12.637	-10.500	1.00	0.00	C
ATOM	4985	CD2 TRP A 316	20.267	-12.337	-12.320	1.00	0.00	C
ATOM	4986	NE1 TRP A 316	18.524	-13.452	-11.516	1.00	0.00	N
ATOM	4987	CE2 TRP A 316	19.303	-13.340	-12.645	1.00	0.00	C
ATOM	4988	CE3 TRP A 316	21.202	-12.009	-13.328	1.00	0.00	C
ATOM	4989	CZ2 TRP A 316	19.284	-14.005	-13.878	1.00	0.00	C
ATOM	4990	CZ3 TRP A 316	21.202	-12.680	-14.568	1.00	0.00	C
ATOM	4991	CH2 TRP A 316	20.251	-13.681	-14.844	1.00	0.00	C
ATOM	4992	H TRP A 316	21.792	-12.237	-7.469	1.00	0.00	H
ATOM	4993	HA TRP A 316	21.909	-12.786	-9.612	1.00	0.00	H
ATOM	4994	HB2 TRP A 316	20.263	-10.664	-9.248	1.00	0.00	H
ATOM	4995	HB3 TRP A 316	21.187	-10.133	-10.642	1.00	0.00	H
ATOM	4996	HD1 TRP A 316	18.606	-12.621	-9.485	1.00	0.00	H
ATOM	4997	HE3 TRP A 316	21.938	-11.242	-13.128	1.00	0.00	H
ATOM	4998	HZ2 TRP A 316	18.562	-14.789	-14.058	1.00	0.00	H
ATOM	4999	HZ3 TRP A 316	21.949	-12.434	-15.309	1.00	0.00	H
ATOM	5000	HH2 TRP A 316	20.274	-14.211	-15.786	1.00	0.00	H
ATOM	5001	HE1 TRP A 316	17.759	-14.133	-11.416	1.00	0.00	H
ATOM	5002	N VAL A 317	24.496	-12.241	-9.793	1.00	0.00	N
ATOM	5003	CA VAL A 317	25.847	-12.242	-10.370	1.00	0.00	C
ATOM	5004	C VAL A 317	26.014	-13.417	-11.335	1.00	0.00	C
ATOM	5005	O VAL A 317	25.909	-14.580	-10.944	1.00	0.00	O
ATOM	5006	CB VAL A 317	26.925	-12.256	-9.269	1.00	0.00	C
ATOM	5007	CG1 VAL A 317	28.345	-12.373	-9.836	1.00	0.00	C
ATOM	5008	CG2 VAL A 317	26.877	-10.958	-8.453	1.00	0.00	C
ATOM	5009	H VAL A 317	24.279	-12.953	-9.103	1.00	0.00	H
ATOM	5010	HA VAL A 317	25.978	-11.323	-10.937	1.00	0.00	H
ATOM	5011	HB VAL A 317	26.748	-13.100	-8.599	1.00	0.00	H
ATOM	5012	HG11 VAL A 317	29.073	-12.322	-9.027	1.00	0.00	H
ATOM	5013	HG12 VAL A 317	28.531	-11.568	-10.547	1.00	0.00	H

ATOM	5014	HG13	VAL A 317	28.471	-13.329	-10.343	1.00	0.00	H
ATOM	5015	HG21	VAL A 317	25.888	-10.835	-8.020	1.00	0.00	H
ATOM	5016	HG22	VAL A 317	27.609	-11.000	-7.646	1.00	0.00	H
ATOM	5017	HG23	VAL A 317	27.087	-10.108	-9.100	1.00	0.00	H
ATOM	5018	N	SER A 318	26.391	-13.112	-12.574	1.00	0.00	N
ATOM	5019	CA	SER A 318	26.748	-14.075	-13.622	1.00	0.00	C
ATOM	5020	C	SER A 318	28.250	-14.068	-13.936	1.00	0.00	C
ATOM	5021	O	SER A 318	28.964	-13.116	-13.618	1.00	0.00	O
ATOM	5022	CB	SER A 318	25.935	-13.795	-14.889	1.00	0.00	C
ATOM	5023	OG	SER A 318	24.554	-13.974	-14.634	1.00	0.00	O
ATOM	5024	H	SER A 318	26.569	-12.133	-12.774	1.00	0.00	H
ATOM	5025	HA	SER A 318	26.495	-15.074	-13.282	1.00	0.00	H
ATOM	5026	HB2	SER A 318	26.115	-12.772	-15.216	1.00	0.00	H
ATOM	5027	HB3	SER A 318	26.244	-14.477	-15.683	1.00	0.00	H
ATOM	5028	HG	SER A 318	24.279	-13.346	-13.956	1.00	0.00	H
ATOM	5029	N	ALA A 319	28.724	-15.114	-14.614	1.00	0.00	N
ATOM	5030	CA	ALA A 319	30.107	-15.283	-15.054	1.00	0.00	C
ATOM	5031	C	ALA A 319	30.175	-15.861	-16.477	1.00	0.00	C
ATOM	5032	O	ALA A 319	29.405	-16.760	-16.813	1.00	0.00	O
ATOM	5033	CB	ALA A 319	30.824	-16.187	-14.049	1.00	0.00	C
ATOM	5034	H	ALA A 319	28.091	-15.888	-14.793	1.00	0.00	H
ATOM	5035	HA	ALA A 319	30.595	-14.310	-15.059	1.00	0.00	H
ATOM	5036	HB1	ALA A 319	31.875	-16.269	-14.323	1.00	0.00	H
ATOM	5037	HB2	ALA A 319	30.375	-17.181	-14.055	1.00	0.00	H
ATOM	5038	HB3	ALA A 319	30.744	-15.758	-13.053	1.00	0.00	H
ATOM	5039	N	GLY A 320	31.096	-15.380	-17.312	1.00	0.00	N
ATOM	5040	CA	GLY A 320	31.263	-15.879	-18.680	1.00	0.00	C
ATOM	5041	C	GLY A 320	32.318	-15.132	-19.488	1.00	0.00	C
ATOM	5042	O	GLY A 320	32.798	-14.077	-19.073	1.00	0.00	O
ATOM	5043	H	GLY A 320	31.707	-14.629	-17.000	1.00	0.00	H

ATOM	5044	HA2 GLY A 320	31.556	-16.925	-18.641	1.00	0.00	H
ATOM	5045	HA3 GLY A 320	30.318	-15.813	-19.218	1.00	0.00	H
ATOM	5046	N VAL A 321	32.692	-15.693	-20.637	1.00	0.00	N
ATOM	5047	CA VAL A 321	33.604	-15.043	-21.593	1.00	0.00	C
ATOM	5048	C VAL A 321	32.809	-14.192	-22.578	1.00	0.00	C
ATOM	5049	O VAL A 321	31.868	-14.695	-23.201	1.00	0.00	O
ATOM	5050	CB VAL A 321	34.511	-16.048	-22.328	1.00	0.00	C
ATOM	5051	CG1 VAL A 321	35.590	-15.364	-23.183	1.00	0.00	C
ATOM	5052	CG2 VAL A 321	35.238	-16.966	-21.348	1.00	0.00	C
ATOM	5053	H VAL A 321	32.219	-16.537	-20.930	1.00	0.00	H
ATOM	5054	HA VAL A 321	34.255	-14.381	-21.035	1.00	0.00	H
ATOM	5055	HB VAL A 321	33.895	-16.673	-22.967	1.00	0.00	H
ATOM	5056	HG11 VAL A 321	36.272	-14.798	-22.549	1.00	0.00	H
ATOM	5057	HG12 VAL A 321	36.163	-16.114	-23.729	1.00	0.00	H
ATOM	5058	HG13 VAL A 321	35.148	-14.684	-23.911	1.00	0.00	H
ATOM	5059	HG21 VAL A 321	34.521	-17.512	-20.740	1.00	0.00	H
ATOM	5060	HG22 VAL A 321	35.879	-16.369	-20.701	1.00	0.00	H
ATOM	5061	HG23 VAL A 321	35.837	-17.688	-21.898	1.00	0.00	H
ATOM	5062	N TYR A 322	33.285	-12.973	-22.831	1.00	0.00	N
ATOM	5063	CA TYR A 322	32.801	-12.090	-23.892	1.00	0.00	C
ATOM	5064	C TYR A 322	33.961	-11.477	-24.684	1.00	0.00	C
ATOM	5065	O TYR A 322	35.053	-11.266	-24.156	1.00	0.00	O
ATOM	5066	CB TYR A 322	31.830	-11.023	-23.343	1.00	0.00	C
ATOM	5067	CG TYR A 322	32.426	-9.796	-22.654	1.00	0.00	C
ATOM	5068	CD1 TYR A 322	32.019	-8.500	-23.043	1.00	0.00	C
ATOM	5069	CD2 TYR A 322	33.328	-9.940	-21.579	1.00	0.00	C
ATOM	5070	CE1 TYR A 322	32.497	-7.366	-22.349	1.00	0.00	C
ATOM	5071	CE2 TYR A 322	33.848	-8.809	-20.924	1.00	0.00	C
ATOM	5072	CZ TYR A 322	33.426	-7.519	-21.299	1.00	0.00	C
ATOM	5073	OH TYR A 322	33.890	-6.429	-20.637	1.00	0.00	O

ATOM	5074	H	TYR A 322	34.122	-12.672	-22.337	1.00	0.00	H
ATOM	5075	HA	TYR A 322	32.235	-12.703	-24.590	1.00	0.00	H
ATOM	5076	HB2	TYR A 322	31.139	-11.504	-22.648	1.00	0.00	H
ATOM	5077	HB3	TYR A 322	31.233	-10.676	-24.187	1.00	0.00	H
ATOM	5078	HD1	TYR A 322	31.322	-8.380	-23.861	1.00	0.00	H
ATOM	5079	HD2	TYR A 322	33.638	-10.920	-21.256	1.00	0.00	H
ATOM	5080	HE1	TYR A 322	32.151	-6.374	-22.587	1.00	0.00	H
ATOM	5081	HE2	TYR A 322	34.568	-8.927	-20.131	1.00	0.00	H
ATOM	5082	HH	TYR A 322	33.796	-6.534	-19.674	1.00	0.00	H
ATOM	5083	N	LEU A 323	33.725	-11.244	-25.973	1.00	0.00	N
ATOM	5084	CA	LEU A 323	34.641	-10.527	-26.856	1.00	0.00	C
ATOM	5085	C	LEU A 323	34.562	-9.017	-26.600	1.00	0.00	C
ATOM	5086	O	LEU A 323	33.475	-8.427	-26.584	1.00	0.00	O
ATOM	5087	CB	LEU A 323	34.310	-10.854	-28.318	1.00	0.00	C
ATOM	5088	CG	LEU A 323	34.385	-12.346	-28.676	1.00	0.00	C
ATOM	5089	CD1	LEU A 323	33.882	-12.540	-30.103	1.00	0.00	C
ATOM	5090	CD2	LEU A 323	35.795	-12.909	-28.553	1.00	0.00	C
ATOM	5091	H	LEU A 323	32.838	-11.545	-26.359	1.00	0.00	H
ATOM	5092	HA	LEU A 323	35.662	-10.849	-26.651	1.00	0.00	H
ATOM	5093	HB2	LEU A 323	34.987	-10.298	-28.969	1.00	0.00	H
ATOM	5094	HB3	LEU A 323	33.296	-10.515	-28.509	1.00	0.00	H
ATOM	5095	HG	LEU A 323	33.739	-12.921	-28.019	1.00	0.00	H
ATOM	5096	HD21	LEU A 323	35.778	-13.958	-28.836	1.00	0.00	H
ATOM	5097	HD22	LEU A 323	36.472	-12.364	-29.212	1.00	0.00	H
ATOM	5098	HD23	LEU A 323	36.148	-12.830	-27.527	1.00	0.00	H
ATOM	5099	HD11	LEU A 323	33.888	-13.599	-30.349	1.00	0.00	H
ATOM	5100	HD12	LEU A 323	34.535	-12.010	-30.798	1.00	0.00	H
ATOM	5101	HD13	LEU A 323	32.871	-12.153	-30.190	1.00	0.00	H
ATOM	5102	N	ASN A 324	35.718	-8.384	-26.424	1.00	0.00	N
ATOM	5103	CA	ASN A 324	35.811	-6.960	-26.108	1.00	0.00	C

ATOM	5104	C	ASN A 324	35.888	-6.051	-27.352	1.00	0.00	C
ATOM	5105	O	ASN A 324	35.729	-4.837	-27.229	1.00	0.00	O
ATOM	5106	CB	ASN A 324	37.016	-6.773	-25.185	1.00	0.00	C
ATOM	5107	CG	ASN A 324	37.028	-5.506	-24.360	1.00	0.00	C
ATOM	5108	OD1	ASN A 324	36.033	-4.807	-24.179	1.00	0.00	O
ATOM	5109	ND2	ASN A 324	38.176	-5.208	-23.803	1.00	0.00	N
ATOM	5110	H	ASN A 324	36.569	-8.943	-26.393	1.00	0.00	H
ATOM	5111	HA	ASN A 324	34.917	-6.684	-25.558	1.00	0.00	H
ATOM	5112	HB2	ASN A 324	37.898	-6.745	-25.810	1.00	0.00	H
ATOM	5113	HB3	ASN A 324	37.100	-7.616	-24.496	1.00	0.00	H
ATOM	5114	HD21	ASN A 324	38.968	-5.823	-23.976	1.00	0.00	H
ATOM	5115	HD22	ASN A 324	38.264	-4.352	-23.294	1.00	0.00	H
ATOM	5116	N	SER A 325	36.090	-6.606	-28.549	1.00	0.00	N
ATOM	5117	CA	SER A 325	36.057	-5.843	-29.804	1.00	0.00	C
ATOM	5118	C	SER A 325	34.652	-5.349	-30.169	1.00	0.00	C
ATOM	5119	O	SER A 325	33.654	-6.021	-29.922	1.00	0.00	O
ATOM	5120	CB	SER A 325	36.611	-6.699	-30.929	1.00	0.00	C
ATOM	5121	OG	SER A 325	36.541	-6.004	-32.157	1.00	0.00	O
ATOM	5122	H	SER A 325	36.261	-7.605	-28.599	1.00	0.00	H
ATOM	5123	HA	SER A 325	36.709	-4.976	-29.696	1.00	0.00	H
ATOM	5124	HB2	SER A 325	36.047	-7.629	-30.998	1.00	0.00	H
ATOM	5125	HB3	SER A 325	37.654	-6.936	-30.708	1.00	0.00	H
ATOM	5126	HG	SER A 325	37.182	-6.512	-32.725	1.00	0.00	H
ATOM	5127	N	ASN A 326	34.546	-4.165	-30.784	1.00	0.00	N
ATOM	5128	CA	ASN A 326	33.255	-3.555	-31.132	1.00	0.00	C
ATOM	5129	C	ASN A 326	32.624	-4.069	-32.442	1.00	0.00	C
ATOM	5130	O	ASN A 326	31.402	-3.958	-32.585	1.00	0.00	O
ATOM	5131	CB	ASN A 326	33.392	-2.019	-31.127	1.00	0.00	C
ATOM	5132	CG	ASN A 326	33.468	-1.402	-29.735	1.00	0.00	C
ATOM	5133	OD1	ASN A 326	33.467	-2.061	-28.707	1.00	0.00	O

ATOM	5134	ND2 ASN A 326	33.310	-0.103	-29.649	1.00	0.00	N
ATOM	5135	H ASN A 326	35.405	-3.686	-31.009	1.00	0.00	H
ATOM	5136	HA ASN A 326	32.536	-3.818	-30.362	1.00	0.00	H
ATOM	5137	HB2 ASN A 326	34.272	-1.722	-31.697	1.00	0.00	H
ATOM	5138	HB3 ASN A 326	32.517	-1.593	-31.619	1.00	0.00	H
ATOM	5139	HD21 ASN A 326	33.211	0.461	-30.473	1.00	0.00	H
ATOM	5140	HD22 ASN A 326	33.266	0.283	-28.722	1.00	0.00	H
ATOM	5141	N GLN A 327	33.425	-4.572	-33.391	1.00	0.00	N
ATOM	5142	CA GLN A 327	33.011	-4.841	-34.786	1.00	0.00	C
ATOM	5143	C GLN A 327	33.590	-6.134	-35.398	1.00	0.00	C
ATOM	5144	O GLN A 327	33.304	-6.448	-36.556	1.00	0.00	O
ATOM	5145	CB GLN A 327	33.422	-3.654	-35.677	1.00	0.00	C
ATOM	5146	CG GLN A 327	32.649	-2.357	-35.397	1.00	0.00	C
ATOM	5147	CD GLN A 327	32.961	-1.259	-36.413	1.00	0.00	C
ATOM	5148	OE1 GLN A 327	32.090	-0.560	-36.898	1.00	0.00	O
ATOM	5149	NE2 GLN A 327	34.198	-1.089	-36.829	1.00	0.00	N
ATOM	5150	H GLN A 327	34.408	-4.677	-33.169	1.00	0.00	H
ATOM	5151	HA GLN A 327	31.929	-4.939	-34.826	1.00	0.00	H
ATOM	5152	HB2 GLN A 327	33.239	-3.917	-36.720	1.00	0.00	H
ATOM	5153	HB3 GLN A 327	34.494	-3.481	-35.557	1.00	0.00	H
ATOM	5154	HG2 GLN A 327	31.580	-2.569	-35.432	1.00	0.00	H
ATOM	5155	HG3 GLN A 327	32.905	-1.988	-34.406	1.00	0.00	H
ATOM	5156	HE21 GLN A 327	34.936	-1.695	-36.514	1.00	0.00	H
ATOM	5157	HE22 GLN A 327	34.333	-0.395	-37.541	1.00	0.00	H
ATOM	5158	N THR A 328	34.497	-6.803	-34.691	1.00	0.00	N
ATOM	5159	CA THR A 328	35.325	-7.900	-35.209	1.00	0.00	C
ATOM	5160	C THR A 328	35.672	-8.890	-34.084	1.00	0.00	C
ATOM	5161	O THR A 328	35.068	-8.845	-33.011	1.00	0.00	O
ATOM	5162	CB THR A 328	36.577	-7.358	-35.941	1.00	0.00	C
ATOM	5163	OG1 THR A 328	37.126	-6.235	-35.297	1.00	0.00	O

ATOM	5164	CG2 THR A 328	36.316	-6.944	-37.387	1.00	0.00	C
ATOM	5165	H THR A 328	34.739	-6.488	-33.763	1.00	0.00	H
ATOM	5166	HA THR A 328	34.744	-8.466	-35.935	1.00	0.00	H
ATOM	5167	HB THR A 328	37.319	-8.150	-35.984	1.00	0.00	H
ATOM	5168	HG1 THR A 328	37.874	-6.609	-34.779	1.00	0.00	H
ATOM	5169	HG21 THR A 328	37.270	-6.697	-37.854	1.00	0.00	H
ATOM	5170	HG22 THR A 328	35.856	-7.768	-37.930	1.00	0.00	H
ATOM	5171	HG23 THR A 328	35.672	-6.067	-37.421	1.00	0.00	H
ATOM	5172	N ALA A 329	36.316	-9.995	-34.461	1.00	0.00	N
ATOM	5173	CA ALA A 329	36.389	-11.229	-33.681	1.00	0.00	C
ATOM	5174	C ALA A 329	37.645	-11.292	-32.785	1.00	0.00	C
ATOM	5175	O ALA A 329	38.484	-12.167	-32.979	1.00	0.00	O
ATOM	5176	CB ALA A 329	36.272	-12.399	-34.675	1.00	0.00	C
ATOM	5177	H ALA A 329	36.842	-9.969	-35.320	1.00	0.00	H
ATOM	5178	HA ALA A 329	35.531	-11.283	-33.010	1.00	0.00	H
ATOM	5179	HB1 ALA A 329	35.338	-12.319	-35.232	1.00	0.00	H
ATOM	5180	HB2 ALA A 329	36.278	-13.345	-34.137	1.00	0.00	H
ATOM	5181	HB3 ALA A 329	37.115	-12.386	-35.367	1.00	0.00	H
ATOM	5182	N GLU A 330	37.824	-10.332	-31.869	1.00	0.00	N
ATOM	5183	CA GLU A 330	39.035	-10.212	-31.032	1.00	0.00	C
ATOM	5184	C GLU A 330	38.749	-10.050	-29.523	1.00	0.00	C
ATOM	5185	O GLU A 330	37.688	-9.559	-29.119	1.00	0.00	O
ATOM	5186	CB GLU A 330	39.955	-9.064	-31.507	1.00	0.00	C
ATOM	5187	CG GLU A 330	40.225	-8.983	-33.022	1.00	0.00	C
ATOM	5188	CD GLU A 330	39.281	-8.040	-33.784	1.00	0.00	C
ATOM	5189	OE1 GLU A 330	39.478	-7.827	-34.997	1.00	0.00	O
ATOM	5190	OE2 GLU A 330	38.243	-7.589	-33.244	1.00	0.00	O
ATOM	5191	H GLU A 330	37.153	-9.578	-31.830	1.00	0.00	H
ATOM	5192	HA GLU A 330	39.615	-11.128	-31.137	1.00	0.00	H
ATOM	5193	HB2 GLU A 330	39.569	-8.110	-31.150	1.00	0.00	H

ATOM	5194	HB3	GLU	A 330	40.919	-9.206	-31.017	1.00	0.00	H
ATOM	5195	HG2	GLU	A 330	41.243	-8.610	-33.155	1.00	0.00	H
ATOM	5196	HG3	GLU	A 330	40.188	-9.983	-33.457	1.00	0.00	H
ATOM	5197	N	ASN	A 331	39.809	-10.259	-28.725	1.00	0.00	N
ATOM	5198	CA	ASN	A 331	39.940	-9.916	-27.299	1.00	0.00	C
ATOM	5199	C	ASN	A 331	38.999	-10.724	-26.363	1.00	0.00	C
ATOM	5200	O	ASN	A 331	37.965	-10.212	-25.917	1.00	0.00	O
ATOM	5201	CB	ASN	A 331	39.849	-8.384	-27.158	1.00	0.00	C
ATOM	5202	CG	ASN	A 331	40.426	-7.858	-25.852	1.00	0.00	C
ATOM	5203	OD1	ASN	A 331	39.807	-7.889	-24.801	1.00	0.00	O
ATOM	5204	ND2	ASN	A 331	41.493	-7.110	-25.945	1.00	0.00	N
ATOM	5205	H	ASN	A 331	40.633	-10.655	-29.168	1.00	0.00	H
ATOM	5206	HA	ASN	A 331	40.961	-10.178	-27.013	1.00	0.00	H
ATOM	5207	HB2	ASN	A 331	38.812	-8.078	-27.247	1.00	0.00	H
ATOM	5208	HB3	ASN	A 331	40.389	-7.924	-27.985	1.00	0.00	H
ATOM	5209	HD21	ASN	A 331	42.014	-7.151	-26.815	1.00	0.00	H
ATOM	5210	HD22	ASN	A 331	42.020	-6.945	-25.080	1.00	0.00	H
ATOM	5211	N	PRO	A 332	39.288	-12.022	-26.120	1.00	0.00	N
ATOM	5212	CA	PRO	A 332	38.471	-12.911	-25.289	1.00	0.00	C
ATOM	5213	C	PRO	A 332	38.709	-12.694	-23.781	1.00	0.00	C
ATOM	5214	O	PRO	A 332	39.639	-13.249	-23.188	1.00	0.00	O
ATOM	5215	CB	PRO	A 332	38.855	-14.324	-25.747	1.00	0.00	C
ATOM	5216	CG	PRO	A 332	40.321	-14.183	-26.163	1.00	0.00	C
ATOM	5217	CD	PRO	A 332	40.397	-12.762	-26.717	1.00	0.00	C
ATOM	5218	HA	PRO	A 332	37.413	-12.747	-25.500	1.00	0.00	H
ATOM	5219	HB2	PRO	A 332	38.724	-15.068	-24.960	1.00	0.00	H
ATOM	5220	HB3	PRO	A 332	38.257	-14.593	-26.618	1.00	0.00	H
ATOM	5221	HG2	PRO	A 332	40.597	-14.913	-26.922	1.00	0.00	H
ATOM	5222	HG3	PRO	A 332	40.971	-14.272	-25.292	1.00	0.00	H
ATOM	5223	HD2	PRO	A 332	40.278	-12.795	-27.801	1.00	0.00	H



ATOM	5224	HD3 PRO A 332	41.359	-12.316	-26.461	1.00	0.00	H
ATOM	5225	N VAL A 333	37.755	-12.043	-23.108	1.00	0.00	N
ATOM	5226	CA VAL A 333	37.818	-11.748	-21.663	1.00	0.00	C
ATOM	5227	C VAL A 333	36.797	-12.574	-20.884	1.00	0.00	C
ATOM	5228	O VAL A 333	35.596	-12.459	-21.122	1.00	0.00	O
ATOM	5229	CB VAL A 333	37.630	-10.237	-21.418	1.00	0.00	C
ATOM	5230	CG1 VAL A 333	37.602	-9.885	-19.926	1.00	0.00	C
ATOM	5231	CG2 VAL A 333	38.772	-9.436	-22.052	1.00	0.00	C
ATOM	5232	H VAL A 333	36.989	-11.634	-23.637	1.00	0.00	H
ATOM	5233	HA VAL A 333	38.801	-12.012	-21.284	1.00	0.00	H
ATOM	5234	HB VAL A 333	36.688	-9.913	-21.863	1.00	0.00	H
ATOM	5235	HG11 VAL A 333	37.547	-8.805	-19.817	1.00	0.00	H
ATOM	5236	HG12 VAL A 333	38.505	-10.253	-19.441	1.00	0.00	H
ATOM	5237	HG13 VAL A 333	36.724	-10.320	-19.451	1.00	0.00	H
ATOM	5238	HG21 VAL A 333	39.733	-9.733	-21.631	1.00	0.00	H
ATOM	5239	HG22 VAL A 333	38.794	-9.608	-23.130	1.00	0.00	H
ATOM	5240	HG23 VAL A 333	38.623	-8.369	-21.894	1.00	0.00	H
ATOM	5241	N PHE A 334	37.233	-13.305	-19.852	1.00	0.00	N
ATOM	5242	CA PHE A 334	36.331	-13.835	-18.824	1.00	0.00	C
ATOM	5243	C PHE A 334	35.964	-12.719	-17.835	1.00	0.00	C
ATOM	5244	O PHE A 334	36.843	-12.129	-17.201	1.00	0.00	O
ATOM	5245	CB PHE A 334	36.959	-15.051	-18.122	1.00	0.00	C
ATOM	5246	CG PHE A 334	35.997	-15.842	-17.241	1.00	0.00	C
ATOM	5247	CD1 PHE A 334	35.513	-17.097	-17.663	1.00	0.00	C
ATOM	5248	CD2 PHE A 334	35.586	-15.337	-15.992	1.00	0.00	C
ATOM	5249	CE1 PHE A 334	34.633	-17.833	-16.848	1.00	0.00	C
ATOM	5250	CE2 PHE A 334	34.703	-16.071	-15.179	1.00	0.00	C
ATOM	5251	CZ PHE A 334	34.227	-17.322	-15.606	1.00	0.00	C
ATOM	5252	H PHE A 334	38.221	-13.255	-19.622	1.00	0.00	H
ATOM	5253	HA PHE A 334	35.414	-14.176	-19.302	1.00	0.00	H

ATOM	5254	HB2 PHE A 334	37.801	-14.718	-17.518	1.00	0.00	H
ATOM	5255	HB3 PHE A 334	37.358	-15.720	-18.884	1.00	0.00	H
ATOM	5256	HD1 PHE A 334	35.822	-17.512	-18.611	1.00	0.00	H
ATOM	5257	HD2 PHE A 334	35.939	-14.375	-15.658	1.00	0.00	H
ATOM	5258	HE1 PHE A 334	34.270	-18.795	-17.179	1.00	0.00	H
ATOM	5259	HE2 PHE A 334	34.388	-15.673	-14.227	1.00	0.00	H
ATOM	5260	HZ PHE A 334	33.549	-17.891	-14.986	1.00	0.00	H
ATOM	5261	N ALA A 335	34.671	-12.507	-17.602	1.00	0.00	N
ATOM	5262	CA ALA A 335	34.141	-11.521	-16.666	1.00	0.00	C
ATOM	5263	C ALA A 335	33.212	-12.164	-15.628	1.00	0.00	C
ATOM	5264	O ALA A 335	32.470	-13.099	-15.933	1.00	0.00	O
ATOM	5265	CB ALA A 335	33.431	-10.421	-17.464	1.00	0.00	C
ATOM	5266	H ALA A 335	33.994	-13.052	-18.129	1.00	0.00	H
ATOM	5267	HA ALA A 335	34.962	-11.057	-16.120	1.00	0.00	H
ATOM	5268	HB1 ALA A 335	33.030	-9.667	-16.787	1.00	0.00	H
ATOM	5269	HB2 ALA A 335	34.141	-9.946	-18.139	1.00	0.00	H
ATOM	5270	HB3 ALA A 335	32.615	-10.850	-18.047	1.00	0.00	H
ATOM	5271	N VAL A 336	33.139	-11.547	-14.447	1.00	0.00	N
ATOM	5272	CA VAL A 336	32.083	-11.777	-13.449	1.00	0.00	C
ATOM	5273	C VAL A 336	31.351	-10.462	-13.197	1.00	0.00	C
ATOM	5274	O VAL A 336	31.989	-9.424	-13.007	1.00	0.00	O
ATOM	5275	CB VAL A 336	32.650	-12.377	-12.151	1.00	0.00	C
ATOM	5276	CG1 VAL A 336	31.546	-12.621	-11.119	1.00	0.00	C
ATOM	5277	CG2 VAL A 336	33.333	-13.723	-12.418	1.00	0.00	C
ATOM	5278	H VAL A 336	33.774	-10.772	-14.276	1.00	0.00	H
ATOM	5279	HA VAL A 336	31.361	-12.486	-13.849	1.00	0.00	H
ATOM	5280	HB VAL A 336	33.378	-11.687	-11.727	1.00	0.00	H
ATOM	5281	HG11 VAL A 336	31.099	-11.677	-10.822	1.00	0.00	H
ATOM	5282	HG12 VAL A 336	30.778	-13.267	-11.544	1.00	0.00	H
ATOM	5283	HG13 VAL A 336	31.963	-13.094	-10.231	1.00	0.00	H

ATOM	5284	HG21 VAL A 336	32.638	-14.391	-12.921	1.00	0.00	H
ATOM	5285	HG22 VAL A 336	34.201	-13.574	-13.056	1.00	0.00	H
ATOM	5286	HG23 VAL A 336	33.649	-14.177	-11.482	1.00	0.00	H
ATOM	5287	N PHE A 337	30.023	-10.468	-13.299	1.00	0.00	N
ATOM	5288	CA PHE A 337	29.228	-9.250	-13.457	1.00	0.00	C
ATOM	5289	C PHE A 337	27.805	-9.372	-12.899	1.00	0.00	C
ATOM	5290	O PHE A 337	27.212	-10.445	-12.858	1.00	0.00	O
ATOM	5291	CB PHE A 337	29.207	-8.850	-14.944	1.00	0.00	C
ATOM	5292	CG PHE A 337	28.480	-9.814	-15.865	1.00	0.00	C
ATOM	5293	CD1 PHE A 337	27.113	-9.623	-16.147	1.00	0.00	C
ATOM	5294	CD2 PHE A 337	29.167	-10.898	-16.447	1.00	0.00	C
ATOM	5295	CE1 PHE A 337	26.438	-10.507	-17.008	1.00	0.00	C
ATOM	5296	CE2 PHE A 337	28.491	-11.785	-17.303	1.00	0.00	C
ATOM	5297	CZ PHE A 337	27.127	-11.588	-17.585	1.00	0.00	C
ATOM	5298	H PHE A 337	29.551	-11.355	-13.465	1.00	0.00	H
ATOM	5299	HA PHE A 337	29.712	-8.448	-12.901	1.00	0.00	H
ATOM	5300	HB2 PHE A 337	28.742	-7.866	-15.033	1.00	0.00	H
ATOM	5301	HB3 PHE A 337	30.234	-8.747	-15.295	1.00	0.00	H
ATOM	5302	HD1 PHE A 337	26.580	-8.800	-15.693	1.00	0.00	H
ATOM	5303	HD2 PHE A 337	30.216	-11.055	-16.238	1.00	0.00	H
ATOM	5304	HE1 PHE A 337	25.390	-10.360	-17.224	1.00	0.00	H
ATOM	5305	HE2 PHE A 337	29.025	-12.613	-17.751	1.00	0.00	H
ATOM	5306	HZ PHE A 337	26.608	-12.269	-18.244	1.00	0.00	H
ATOM	5307	N LYS A 338	27.240	-8.220	-12.553	1.00	0.00	N
ATOM	5308	CA LYS A 338	25.839	-7.947	-12.214	1.00	0.00	C
ATOM	5309	C LYS A 338	25.263	-7.008	-13.290	1.00	0.00	C
ATOM	5310	O LYS A 338	26.030	-6.417	-14.050	1.00	0.00	O
ATOM	5311	CB LYS A 338	25.860	-7.346	-10.797	1.00	0.00	C
ATOM	5312	CG LYS A 338	24.499	-7.194	-10.108	1.00	0.00	C
ATOM	5313	CD LYS A 338	24.577	-6.475	-8.746	1.00	0.00	C

ATOM	5314	CE	LYS A 338	25.443	-7.150	-7.667	1.00	0.00	C
ATOM	5315	NZ	LYS A 338	26.884	-6.802	-7.778	1.00	0.00	N
ATOM	5316	H	LYS A 338	27.814	-7.392	-12.688	1.00	0.00	H
ATOM	5317	HA	LYS A 338	25.260	-8.876	-12.213	1.00	0.00	H
ATOM	5318	HB2	LYS A 338	26.470	-8.002	-10.176	1.00	0.00	H
ATOM	5319	HB3	LYS A 338	26.344	-6.372	-10.838	1.00	0.00	H
ATOM	5320	HG2	LYS A 338	24.059	-8.182	-9.978	1.00	0.00	H
ATOM	5321	HG3	LYS A 338	23.833	-6.610	-10.740	1.00	0.00	H
ATOM	5322	HD2	LYS A 338	23.558	-6.428	-8.358	1.00	0.00	H
ATOM	5323	HD3	LYS A 338	24.917	-5.448	-8.897	1.00	0.00	H
ATOM	5324	HE2	LYS A 338	25.075	-6.818	-6.693	1.00	0.00	H
ATOM	5325	HE3	LYS A 338	25.297	-8.233	-7.721	1.00	0.00	H
ATOM	5326	HZ1	LYS A 338	27.421	-7.108	-6.980	1.00	0.00	H
ATOM	5327	HZ2	LYS A 338	27.036	-5.788	-7.866	1.00	0.00	H
ATOM	5328	HZ3	LYS A 338	27.294	-7.172	-8.620	1.00	0.00	H
ATOM	5329	N	ASP A 339	23.944	-6.818	-13.330	1.00	0.00	N
ATOM	5330	CA	ASP A 339	23.222	-6.048	-14.366	1.00	0.00	C
ATOM	5331	C	ASP A 339	23.896	-4.734	-14.809	1.00	0.00	C
ATOM	5332	O	ASP A 339	24.173	-4.557	-15.994	1.00	0.00	O
ATOM	5333	CB	ASP A 339	21.796	-5.737	-13.875	1.00	0.00	C
ATOM	5334	CG	ASP A 339	20.981	-6.974	-13.498	1.00	0.00	C
ATOM	5335	OD1	ASP A 339	21.248	-8.068	-14.038	1.00	0.00	O
ATOM	5336	OD2	ASP A 339	20.002	-6.837	-12.738	1.00	0.00	O
ATOM	5337	H	ASP A 339	23.380	-7.414	-12.740	1.00	0.00	H
ATOM	5338	HA	ASP A 339	23.130	-6.675	-15.251	1.00	0.00	H
ATOM	5339	HB2	ASP A 339	21.857	-5.080	-13.006	1.00	0.00	H
ATOM	5340	HB3	ASP A 339	21.264	-5.205	-14.666	1.00	0.00	H
ATOM	5341	N	ASN A 340	24.298	-3.885	-13.860	1.00	0.00	N
ATOM	5342	CA	ASN A 340	24.885	-2.570	-14.147	1.00	0.00	C
ATOM	5343	C	ASN A 340	26.396	-2.501	-13.831	1.00	0.00	C

ATOM	5344	O	ASN A 340	26.945	-1.414	-13.664	1.00	0.00	O
ATOM	5345	CB	ASN A 340	24.076	-1.470	-13.425	1.00	0.00	C
ATOM	5346	CG	ASN A 340	22.606	-1.368	-13.813	1.00	0.00	C
ATOM	5347	OD1	ASN A 340	21.953	-2.294	-14.255	1.00	0.00	O
ATOM	5348	ND2	ASN A 340	21.981	-0.257	-13.505	1.00	0.00	N
ATOM	5349	H	ASN A 340	24.028	-4.088	-12.912	1.00	0.00	H
ATOM	5350	HA	ASN A 340	24.801	-2.379	-15.216	1.00	0.00	H
ATOM	5351	HB2	ASN A 340	24.140	-1.618	-12.349	1.00	0.00	H
ATOM	5352	HB3	ASN A 340	24.536	-0.510	-13.658	1.00	0.00	H
ATOM	5353	HD21	ASN A 340	22.481	0.518	-13.116	1.00	0.00	H
ATOM	5354	HD22	ASN A 340	21.007	-0.232	-13.745	1.00	0.00	H
ATOM	5355	N	GLU A 341	27.044	-3.641	-13.567	1.00	0.00	N
ATOM	5356	CA	GLU A 341	28.320	-3.684	-12.845	1.00	0.00	C
ATOM	5357	C	GLU A 341	29.136	-4.944	-13.186	1.00	0.00	C
ATOM	5358	O	GLU A 341	28.926	-6.011	-12.610	1.00	0.00	O
ATOM	5359	CB	GLU A 341	28.009	-3.592	-11.337	1.00	0.00	C
ATOM	5360	CG	GLU A 341	29.250	-3.611	-10.429	1.00	0.00	C
ATOM	5361	CD	GLU A 341	28.901	-3.792	-8.942	1.00	0.00	C
ATOM	5362	OE1	GLU A 341	27.930	-4.535	-8.646	1.00	0.00	O
ATOM	5363	OE2	GLU A 341	29.795	-3.486	-8.126	1.00	0.00	O
ATOM	5364	H	GLU A 341	26.555	-4.518	-13.728	1.00	0.00	H
ATOM	5365	HA	GLU A 341	28.917	-2.813	-13.116	1.00	0.00	H
ATOM	5366	HB2	GLU A 341	27.361	-4.427	-11.083	1.00	0.00	H
ATOM	5367	HB3	GLU A 341	27.455	-2.673	-11.139	1.00	0.00	H
ATOM	5368	HG2	GLU A 341	29.915	-4.424	-10.721	1.00	0.00	H
ATOM	5369	HG3	GLU A 341	29.795	-2.675	-10.572	1.00	0.00	H
ATOM	5370	N	ILE A 342	30.198	-4.801	-13.985	1.00	0.00	N
ATOM	5371	CA	ILE A 342	31.266	-5.814	-14.034	1.00	0.00	C
ATOM	5372	C	ILE A 342	32.076	-5.717	-12.738	1.00	0.00	C
ATOM	5373	O	ILE A 342	32.664	-4.669	-12.454	1.00	0.00	O

ATOM	5374	CB	ILE A 342	32.156	-5.677	-15.287	1.00	0.00	C
ATOM	5375	CG1	ILE A 342	31.302	-5.785	-16.568	1.00	0.00	C
ATOM	5376	CG2	ILE A 342	33.254	-6.755	-15.266	1.00	0.00	C
ATOM	5377	CD1	ILE A 342	32.078	-5.541	-17.866	1.00	0.00	C
ATOM	5378	H	ILE A 342	30.361	-3.908	-14.423	1.00	0.00	H
ATOM	5379	HA	ILE A 342	30.809	-6.800	-14.070	1.00	0.00	H
ATOM	5380	HB	ILE A 342	32.633	-4.695	-15.272	1.00	0.00	H
ATOM	5381	HG12	ILE A 342	30.826	-6.764	-16.617	1.00	0.00	H
ATOM	5382	HG13	ILE A 342	30.519	-5.034	-16.523	1.00	0.00	H
ATOM	5383	HG21	ILE A 342	33.873	-6.669	-16.156	1.00	0.00	H
ATOM	5384	HG22	ILE A 342	33.905	-6.638	-14.401	1.00	0.00	H
ATOM	5385	HG23	ILE A 342	32.806	-7.749	-15.244	1.00	0.00	H
ATOM	5386	HD11	ILE A 342	31.375	-5.399	-18.687	1.00	0.00	H
ATOM	5387	HD12	ILE A 342	32.696	-4.648	-17.776	1.00	0.00	H
ATOM	5388	HD13	ILE A 342	32.704	-6.403	-18.093	1.00	0.00	H
ATOM	5389	N	LEU A 343	32.133	-6.804	-11.970	1.00	0.00	N
ATOM	5390	CA	LEU A 343	32.840	-6.872	-10.693	1.00	0.00	C
ATOM	5391	C	LEU A 343	34.351	-7.012	-10.895	1.00	0.00	C
ATOM	5392	O	LEU A 343	35.111	-6.214	-10.352	1.00	0.00	O
ATOM	5393	CB	LEU A 343	32.286	-8.039	-9.850	1.00	0.00	C
ATOM	5394	CG	LEU A 343	30.801	-7.923	-9.469	1.00	0.00	C
ATOM	5395	CD1	LEU A 343	30.341	-9.201	-8.769	1.00	0.00	C
ATOM	5396	CD2	LEU A 343	30.583	-6.765	-8.503	1.00	0.00	C
ATOM	5397	H	LEU A 343	31.714	-7.659	-12.319	1.00	0.00	H
ATOM	5398	HA	LEU A 343	32.678	-5.940	-10.152	1.00	0.00	H
ATOM	5399	HB2	LEU A 343	32.436	-8.972	-10.397	1.00	0.00	H
ATOM	5400	HB3	LEU A 343	32.863	-8.099	-8.928	1.00	0.00	H
ATOM	5401	HG	LEU A 343	30.190	-7.776	-10.359	1.00	0.00	H
ATOM	5402	HD11	LEU A 343	30.416	-10.040	-9.456	1.00	0.00	H
ATOM	5403	HD12	LEU A 343	30.965	-9.394	-7.896	1.00	0.00	H

ATOM	5404	HD13	LEU A 343	29.306	-9.099	-8.451	1.00	0.00	H
ATOM	5405	HD21	LEU A 343	29.538	-6.697	-8.223	1.00	0.00	H
ATOM	5406	HD22	LEU A 343	30.862	-5.823	-8.967	1.00	0.00	H
ATOM	5407	HD23	LEU A 343	31.173	-6.909	-7.602	1.00	0.00	H
ATOM	5408	N	TYR A 344	34.778	-7.973	-11.715	1.00	0.00	N
ATOM	5409	CA	TYR A 344	36.188	-8.288	-11.978	1.00	0.00	C
ATOM	5410	C	TYR A 344	36.325	-9.150	-13.250	1.00	0.00	C
ATOM	5411	O	TYR A 344	35.342	-9.718	-13.734	1.00	0.00	O
ATOM	5412	CB	TYR A 344	36.816	-8.955	-10.734	1.00	0.00	C
ATOM	5413	CG	TYR A 344	35.981	-10.021	-10.046	1.00	0.00	C
ATOM	5414	CD1	TYR A 344	36.069	-11.354	-10.476	1.00	0.00	C
ATOM	5415	CD2	TYR A 344	35.151	-9.691	-8.956	1.00	0.00	C
ATOM	5416	CE1	TYR A 344	35.326	-12.359	-9.829	1.00	0.00	C
ATOM	5417	CE2	TYR A 344	34.375	-10.683	-8.329	1.00	0.00	C
ATOM	5418	CZ	TYR A 344	34.464	-12.022	-8.763	1.00	0.00	C
ATOM	5419	OH	TYR A 344	33.758	-12.990	-8.126	1.00	0.00	O
ATOM	5420	H	TYR A 344	34.087	-8.579	-12.143	1.00	0.00	H
ATOM	5421	HA	TYR A 344	36.730	-7.357	-12.155	1.00	0.00	H
ATOM	5422	HB2	TYR A 344	37.782	-9.384	-11.004	1.00	0.00	H
ATOM	5423	HB3	TYR A 344	37.023	-8.176	-10.001	1.00	0.00	H
ATOM	5424	HD1	TYR A 344	36.719	-11.593	-11.300	1.00	0.00	H
ATOM	5425	HD2	TYR A 344	35.110	-8.673	-8.593	1.00	0.00	H
ATOM	5426	HE1	TYR A 344	35.409	-13.386	-10.144	1.00	0.00	H
ATOM	5427	HE2	TYR A 344	33.731	-10.422	-7.504	1.00	0.00	H
ATOM	5428	HH	TYR A 344	33.155	-12.609	-7.463	1.00	0.00	H
ATOM	5429	N	GLN A 345	37.522	-9.172	-13.848	1.00	0.00	N
ATOM	5430	CA	GLN A 345	37.804	-9.771	-15.164	1.00	0.00	C
ATOM	5431	C	GLN A 345	39.182	-10.448	-15.201	1.00	0.00	C
ATOM	5432	O	GLN A 345	40.060	-10.084	-14.419	1.00	0.00	O
ATOM	5433	CB	GLN A 345	37.770	-8.695	-16.268	1.00	0.00	C

ATOM	5434	CG	GLN A 345	36.420	-7.986	-16.448	1.00	0.00	C
ATOM	5435	CD	GLN A 345	36.325	-7.177	-17.745	1.00	0.00	C
ATOM	5436	OE1	GLN A 345	35.285	-7.105	-18.378	1.00	0.00	O
ATOM	5437	NE2	GLN A 345	37.386	-6.568	-18.228	1.00	0.00	N
ATOM	5438	H	GLN A 345	38.307	-8.741	-13.381	1.00	0.00	H
ATOM	5439	HA	GLN A 345	37.051	-10.527	-15.383	1.00	0.00	H
ATOM	5440	HB2	GLN A 345	38.023	-9.175	-17.212	1.00	0.00	H
ATOM	5441	HB3	GLN A 345	38.538	-7.949	-16.058	1.00	0.00	H
ATOM	5442	HG2	GLN A 345	36.263	-7.309	-15.609	1.00	0.00	H
ATOM	5443	HG3	GLN A 345	35.628	-8.732	-16.453	1.00	0.00	H
ATOM	5444	HE21	GLN A 345	38.291	-6.686	-17.807	1.00	0.00	H
ATOM	5445	HE22	GLN A 345	37.279	-6.137	-19.133	1.00	0.00	H
ATOM	5446	N	VAL A 346	39.417	-11.281	-16.218	1.00	0.00	N
ATOM	5447	CA	VAL A 346	40.752	-11.695	-16.682	1.00	0.00	C
ATOM	5448	C	VAL A 346	40.706	-12.018	-18.191	1.00	0.00	C
ATOM	5449	O	VAL A 346	39.733	-12.636	-18.636	1.00	0.00	O
ATOM	5450	CB	VAL A 346	41.278	-12.878	-15.835	1.00	0.00	C
ATOM	5451	CG1	VAL A 346	40.557	-14.206	-16.109	1.00	0.00	C
ATOM	5452	CG2	VAL A 346	42.782	-13.096	-16.004	1.00	0.00	C
ATOM	5453	H	VAL A 346	38.632	-11.555	-16.804	1.00	0.00	H
ATOM	5454	HA	VAL A 346	41.422	-10.855	-16.519	1.00	0.00	H
ATOM	5455	HB	VAL A 346	41.120	-12.629	-14.786	1.00	0.00	H
ATOM	5456	HG21	VAL A 346	43.319	-12.184	-15.746	1.00	0.00	H
ATOM	5457	HG22	VAL A 346	43.019	-13.377	-17.029	1.00	0.00	H
ATOM	5458	HG23	VAL A 346	43.115	-13.891	-15.336	1.00	0.00	H
ATOM	5459	HG11	VAL A 346	40.898	-14.956	-15.400	1.00	0.00	H
ATOM	5460	HG12	VAL A 346	40.776	-14.555	-17.120	1.00	0.00	H
ATOM	5461	HG13	VAL A 346	39.483	-14.070	-15.998	1.00	0.00	H
ATOM	5462	N	PRO A 347	41.672	-11.567	-19.015	1.00	0.00	N
ATOM	5463	CA	PRO A 347	41.815	-12.059	-20.389	1.00	0.00	C



ATOM	5464	C	PRO A 347	42.199	-13.549	-20.397	1.00	0.00	C
ATOM	5465	O	PRO A 347	42.816	-14.042	-19.450	1.00	0.00	O
ATOM	5466	CB	PRO A 347	42.892	-11.179	-21.026	1.00	0.00	C
ATOM	5467	CG	PRO A 347	43.775	-10.790	-19.843	1.00	0.00	C
ATOM	5468	CD	PRO A 347	42.779	-10.674	-18.689	1.00	0.00	C
ATOM	5469	HA	PRO A 347	40.886	-11.931	-20.942	1.00	0.00	H
ATOM	5470	HB2	PRO A 347	43.459	-11.707	-21.791	1.00	0.00	H
ATOM	5471	HB3	PRO A 347	42.432	-10.283	-21.448	1.00	0.00	H
ATOM	5472	HG2	PRO A 347	44.486	-11.592	-19.637	1.00	0.00	H
ATOM	5473	HG3	PRO A 347	44.299	-9.850	-20.023	1.00	0.00	H
ATOM	5474	HD2	PRO A 347	42.410	-9.649	-18.628	1.00	0.00	H
ATOM	5475	HD3	PRO A 347	43.267	-10.953	-17.758	1.00	0.00	H
ATOM	5476	N	LEU A 348	41.781	-14.292	-21.424	1.00	0.00	N
ATOM	5477	CA	LEU A 348	42.153	-15.708	-21.601	1.00	0.00	C
ATOM	5478	C	LEU A 348	43.313	-15.930	-22.584	1.00	0.00	C
ATOM	5479	O	LEU A 348	43.916	-17.003	-22.567	1.00	0.00	O
ATOM	5480	CB	LEU A 348	40.908	-16.515	-21.999	1.00	0.00	C
ATOM	5481	CG	LEU A 348	39.815	-16.563	-20.916	1.00	0.00	C
ATOM	5482	CD1	LEU A 348	38.663	-17.422	-21.430	1.00	0.00	C
ATOM	5483	CD2	LEU A 348	40.292	-17.178	-19.595	1.00	0.00	C
ATOM	5484	H	LEU A 348	41.218	-13.848	-22.145	1.00	0.00	H
ATOM	5485	HA	LEU A 348	42.523	-16.102	-20.657	1.00	0.00	H
ATOM	5486	HB2	LEU A 348	40.490	-16.086	-22.913	1.00	0.00	H
ATOM	5487	HB3	LEU A 348	41.219	-17.535	-22.223	1.00	0.00	H
ATOM	5488	HG	LEU A 348	39.435	-15.560	-20.721	1.00	0.00	H
ATOM	5489	HD11	LEU A 348	39.032	-18.402	-21.730	1.00	0.00	H
ATOM	5490	HD12	LEU A 348	38.214	-16.928	-22.291	1.00	0.00	H
ATOM	5491	HD13	LEU A 348	37.916	-17.543	-20.651	1.00	0.00	H
ATOM	5492	HD21	LEU A 348	39.453	-17.289	-18.910	1.00	0.00	H
ATOM	5493	HD22	LEU A 348	41.023	-16.516	-19.130	1.00	0.00	H

ATOM	5494	HD23 LEU A 348	40.746	-18.149	-19.785	1.00	0.00	H
ATOM	5495	N ALA A 349	43.635	-14.908	-23.376	1.00	0.00	N
ATOM	5496	CA ALA A 349	44.818	-14.755	-24.219	1.00	0.00	C
ATOM	5497	C ALA A 349	44.987	-13.252	-24.542	1.00	0.00	C
ATOM	5498	O ALA A 349	44.159	-12.438	-24.120	1.00	0.00	O
ATOM	5499	CB ALA A 349	44.645	-15.607	-25.483	1.00	0.00	C
ATOM	5500	H ALA A 349	43.099	-14.058	-23.283	1.00	0.00	H
ATOM	5501	HA ALA A 349	45.709	-15.090	-23.684	1.00	0.00	H
ATOM	5502	HB1 ALA A 349	44.487	-16.651	-25.214	1.00	0.00	H
ATOM	5503	HB2 ALA A 349	45.547	-15.545	-26.090	1.00	0.00	H
ATOM	5504	HB3 ALA A 349	43.792	-15.247	-26.059	1.00	0.00	H
ATOM	5505	N GLU A 350	46.079	-12.879	-25.204	1.00	0.00	N
ATOM	5506	CA GLU A 350	46.498	-11.494	-25.453	1.00	0.00	C
ATOM	5507	C GLU A 350	45.468	-10.642	-26.233	1.00	0.00	C
ATOM	5508	O GLU A 350	44.559	-11.151	-26.894	1.00	0.00	O
ATOM	5509	CB GLU A 350	47.877	-11.500	-26.147	1.00	0.00	C
ATOM	5510	CG GLU A 350	49.067	-11.778	-25.204	1.00	0.00	C
ATOM	5511	CD GLU A 350	49.010	-13.103	-24.418	1.00	0.00	C
ATOM	5512	OE1 GLU A 350	48.528	-14.117	-24.975	1.00	0.00	O
ATOM	5513	OE2 GLU A 350	49.404	-13.083	-23.229	1.00	0.00	O
ATOM	5514	H GLU A 350	46.787	-13.593	-25.381	1.00	0.00	H
ATOM	5515	HA GLU A 350	46.621	-11.007	-24.485	1.00	0.00	H
ATOM	5516	HB2 GLU A 350	48.047	-10.519	-26.594	1.00	0.00	H
ATOM	5517	HB3 GLU A 350	47.876	-12.231	-26.957	1.00	0.00	H
ATOM	5518	HG2 GLU A 350	49.982	-11.765	-25.800	1.00	0.00	H
ATOM	5519	HG3 GLU A 350	49.132	-10.945	-24.499	1.00	0.00	H
ATOM	5520	N ASP A 351	45.567	-9.315	-26.094	1.00	0.00	N
ATOM	5521	CA ASP A 351	44.497	-8.365	-26.441	1.00	0.00	C
ATOM	5522	C ASP A 351	44.094	-8.301	-27.931	1.00	0.00	C
ATOM	5523	O ASP A 351	42.990	-7.836	-28.226	1.00	0.00	O

ATOM	5524	CB	ASP A 351	44.881	-6.958	-25.937	1.00	0.00	C
ATOM	5525	CG	ASP A 351	44.639	-6.757	-24.435	1.00	0.00	C
ATOM	5526	OD1	ASP A 351	43.468	-6.950	-24.024	1.00	0.00	O
ATOM	5527	OD2	ASP A 351	45.490	-6.093	-23.805	1.00	0.00	O
ATOM	5528	H	ASP A 351	46.339	-8.953	-25.556	1.00	0.00	H
ATOM	5529	HA	ASP A 351	43.602	-8.685	-25.906	1.00	0.00	H
ATOM	5530	HB2	ASP A 351	44.280	-6.215	-26.462	1.00	0.00	H
ATOM	5531	HB3	ASP A 351	45.927	-6.759	-26.181	1.00	0.00	H
ATOM	5532	N	ASP A 352	44.925	-8.767	-28.866	1.00	0.00	N
ATOM	5533	CA	ASP A 352	44.606	-8.863	-30.300	1.00	0.00	C
ATOM	5534	C	ASP A 352	44.079	-10.250	-30.726	1.00	0.00	C
ATOM	5535	O	ASP A 352	43.694	-10.434	-31.882	1.00	0.00	O
ATOM	5536	CB	ASP A 352	45.843	-8.477	-31.136	1.00	0.00	C
ATOM	5537	CG	ASP A 352	47.062	-9.401	-30.976	1.00	0.00	C
ATOM	5538	OD1	ASP A 352	47.124	-10.148	-29.971	1.00	0.00	O
ATOM	5539	OD2	ASP A 352	47.972	-9.284	-31.827	1.00	0.00	O
ATOM	5540	H	ASP A 352	45.803	-9.192	-28.582	1.00	0.00	H
ATOM	5541	HA	ASP A 352	43.818	-8.148	-30.537	1.00	0.00	H
ATOM	5542	HB2	ASP A 352	46.141	-7.463	-30.860	1.00	0.00	H
ATOM	5543	HB3	ASP A 352	45.557	-8.452	-32.189	1.00	0.00	H
ATOM	5544	N	THR A 353	44.066	-11.241	-29.828	1.00	0.00	N
ATOM	5545	CA	THR A 353	43.853	-12.647	-30.209	1.00	0.00	C
ATOM	5546	C	THR A 353	42.453	-12.929	-30.763	1.00	0.00	C
ATOM	5547	O	THR A 353	41.426	-12.483	-30.240	1.00	0.00	O
ATOM	5548	CB	THR A 353	44.200	-13.636	-29.087	1.00	0.00	C
ATOM	5549	OG1	THR A 353	43.480	-13.376	-27.904	1.00	0.00	O
ATOM	5550	CG2	THR A 353	45.697	-13.631	-28.786	1.00	0.00	C
ATOM	5551	H	THR A 353	44.425	-11.039	-28.902	1.00	0.00	H
ATOM	5552	HA	THR A 353	44.554	-12.847	-31.020	1.00	0.00	H
ATOM	5553	HB	THR A 353	43.935	-14.639	-29.424	1.00	0.00	H

ATOM	5554	HG1 THR A 353	43.870	-12.569	-27.510	1.00	0.00	H
ATOM	5555	HG21 THR A 353	46.249	-13.959	-29.666	1.00	0.00	H
ATOM	5556	HG22 THR A 353	46.034	-12.629	-28.521	1.00	0.00	H
ATOM	5557	HG23 THR A 353	45.915	-14.311	-27.966	1.00	0.00	H
ATOM	5558	N ASN A 354	42.429	-13.715	-31.845	1.00	0.00	N
ATOM	5559	CA ASN A 354	41.236	-14.024	-32.631	1.00	0.00	C
ATOM	5560	C ASN A 354	40.294	-14.957	-31.852	1.00	0.00	C
ATOM	5561	O ASN A 354	40.630	-16.120	-31.626	1.00	0.00	O
ATOM	5562	CB ASN A 354	41.618	-14.676	-33.983	1.00	0.00	C
ATOM	5563	CG ASN A 354	42.868	-14.140	-34.658	1.00	0.00	C
ATOM	5564	OD1 ASN A 354	42.810	-13.580	-35.746	1.00	0.00	O
ATOM	5565	ND2 ASN A 354	44.017	-14.604	-34.223	1.00	0.00	N
ATOM	5566	H ASN A 354	43.313	-14.023	-32.214	1.00	0.00	H
ATOM	5567	HA ASN A 354	40.725	-13.083	-32.837	1.00	0.00	H
ATOM	5568	HB2 ASN A 354	40.779	-14.562	-34.668	1.00	0.00	H
ATOM	5569	HB3 ASN A 354	41.778	-15.743	-33.834	1.00	0.00	H
ATOM	5570	HD21 ASN A 354	44.018	-15.343	-33.525	1.00	0.00	H
ATOM	5571	HD22 ASN A 354	44.874	-14.262	-34.638	1.00	0.00	H
ATOM	5572	N ALA A 355	39.044	-14.557	-31.630	1.00	0.00	N
ATOM	5573	CA ALA A 355	38.017	-15.404	-31.026	1.00	0.00	C
ATOM	5574	C ALA A 355	36.608	-15.069	-31.542	1.00	0.00	C
ATOM	5575	O ALA A 355	36.221	-13.909	-31.643	1.00	0.00	O
ATOM	5576	CB ALA A 355	38.142	-15.320	-29.499	1.00	0.00	C
ATOM	5577	H ALA A 355	38.783	-13.618	-31.920	1.00	0.00	H
ATOM	5578	HA ALA A 355	38.217	-16.432	-31.319	1.00	0.00	H
ATOM	5579	HB1 ALA A 355	37.343	-15.891	-29.029	1.00	0.00	H
ATOM	5580	HB2 ALA A 355	39.102	-15.727	-29.185	1.00	0.00	H
ATOM	5581	HB3 ALA A 355	38.096	-14.278	-29.183	1.00	0.00	H
ATOM	5582	N GLN A 356	35.828	-16.103	-31.874	1.00	0.00	N
ATOM	5583	CA GLN A 356	34.526	-15.982	-32.544	1.00	0.00	C

ATOM	5584	C	GLN A 356	33.333	-16.170	-31.594	1.00	0.00	C
ATOM	5585	O	GLN A 356	32.337	-15.453	-31.702	1.00	0.00	O
ATOM	5586	CB	GLN A 356	34.480	-16.985	-33.715	1.00	0.00	C
ATOM	5587	CG	GLN A 356	33.157	-16.936	-34.500	1.00	0.00	C
ATOM	5588	CD	GLN A 356	33.195	-17.799	-35.760	1.00	0.00	C
ATOM	5589	OE1	GLN A 356	33.313	-17.314	-36.874	1.00	0.00	O
ATOM	5590	NE2	GLN A 356	33.064	-19.101	-35.649	1.00	0.00	N
ATOM	5591	H	GLN A 356	36.215	-17.030	-31.725	1.00	0.00	H
ATOM	5592	HA	GLN A 356	34.438	-14.979	-32.966	1.00	0.00	H
ATOM	5593	HB2	GLN A 356	35.296	-16.751	-34.400	1.00	0.00	H
ATOM	5594	HB3	GLN A 356	34.632	-17.996	-33.333	1.00	0.00	H
ATOM	5595	HG2	GLN A 356	32.342	-17.284	-33.866	1.00	0.00	H
ATOM	5596	HG3	GLN A 356	32.955	-15.905	-34.794	1.00	0.00	H
ATOM	5597	HE21	GLN A 356	33.000	-19.557	-34.732	1.00	0.00	H
ATOM	5598	HE22	GLN A 356	33.138	-19.652	-36.480	1.00	0.00	H
ATOM	5599	N	LYS A 357	33.388	-17.173	-30.711	1.00	0.00	N
ATOM	5600	CA	LYS A 357	32.240	-17.681	-29.939	1.00	0.00	C
ATOM	5601	C	LYS A 357	32.682	-18.168	-28.565	1.00	0.00	C
ATOM	5602	O	LYS A 357	33.741	-18.776	-28.439	1.00	0.00	O
ATOM	5603	CB	LYS A 357	31.547	-18.790	-30.761	1.00	0.00	C
ATOM	5604	CG	LYS A 357	30.540	-19.664	-29.995	1.00	0.00	C
ATOM	5605	CD	LYS A 357	29.769	-20.596	-30.942	1.00	0.00	C
ATOM	5606	CE	LYS A 357	29.078	-21.752	-30.201	1.00	0.00	C
ATOM	5607	NZ	LYS A 357	28.161	-21.295	-29.126	1.00	0.00	N
ATOM	5608	H	LYS A 357	34.251	-17.700	-30.664	1.00	0.00	H
ATOM	5609	HA	LYS A 357	31.531	-16.868	-29.782	1.00	0.00	H
ATOM	5610	HB2	LYS A 357	31.048	-18.328	-31.615	1.00	0.00	H
ATOM	5611	HB3	LYS A 357	32.314	-19.458	-31.144	1.00	0.00	H
ATOM	5612	HG2	LYS A 357	31.082	-20.276	-29.271	1.00	0.00	H
ATOM	5613	HG3	LYS A 357	29.835	-19.028	-29.463	1.00	0.00	H

ATOM	5614	HD2 LYS A 357	30.468	-21.027	-31.663	1.00	0.00	H
ATOM	5615	HD3 LYS A 357	29.033	-20.017	-31.501	1.00	0.00	H
ATOM	5616	HE2 LYS A 357	28.535	-22.362	-30.932	1.00	0.00	H
ATOM	5617	HE3 LYS A 357	29.848	-22.398	-29.769	1.00	0.00	H
ATOM	5618	HZ1 LYS A 357	28.395	-20.352	-28.850	1.00	0.00	H
ATOM	5619	HZ2 LYS A 357	27.197	-21.295	-29.446	1.00	0.00	H
ATOM	5620	HZ3 LYS A 357	28.214	-21.895	-28.314	1.00	0.00	H
ATOM	5621	N THR A 358	31.786	-18.091	-27.584	1.00	0.00	N
ATOM	5622	CA THR A 358	32.006	-18.621	-26.227	1.00	0.00	C
ATOM	5623	C THR A 358	30.860	-19.538	-25.788	1.00	0.00	C
ATOM	5624	O THR A 358	29.787	-19.525	-26.394	1.00	0.00	O
ATOM	5625	CB THR A 358	32.270	-17.490	-25.212	1.00	0.00	C
ATOM	5626	OG1 THR A 358	31.074	-16.897	-24.765	1.00	0.00	O
ATOM	5627	CG2 THR A 358	33.141	-16.368	-25.790	1.00	0.00	C
ATOM	5628	H THR A 358	30.932	-17.574	-27.756	1.00	0.00	H
ATOM	5629	HA THR A 358	32.904	-19.234	-26.235	1.00	0.00	H
ATOM	5630	HB THR A 358	32.775	-17.927	-24.352	1.00	0.00	H
ATOM	5631	HG1 THR A 358	30.441	-16.923	-25.509	1.00	0.00	H
ATOM	5632	HG21 THR A 358	32.610	-15.830	-26.577	1.00	0.00	H
ATOM	5633	HG22 THR A 358	34.062	-16.785	-26.192	1.00	0.00	H
ATOM	5634	HG23 THR A 358	33.393	-15.649	-25.018	1.00	0.00	H
ATOM	5635	N ILE A 359	31.105	-20.429	-24.825	1.00	0.00	N
ATOM	5636	CA ILE A 359	30.079	-21.182	-24.077	1.00	0.00	C
ATOM	5637	C ILE A 359	30.595	-21.341	-22.645	1.00	0.00	C
ATOM	5638	O ILE A 359	31.689	-21.875	-22.482	1.00	0.00	O
ATOM	5639	CB ILE A 359	29.778	-22.581	-24.683	1.00	0.00	C
ATOM	5640	CG1 ILE A 359	29.423	-22.537	-26.187	1.00	0.00	C
ATOM	5641	CG2 ILE A 359	28.645	-23.257	-23.884	1.00	0.00	C
ATOM	5642	CD1 ILE A 359	29.248	-23.908	-26.847	1.00	0.00	C
ATOM	5643	H ILE A 359	32.060	-20.505	-24.484	1.00	0.00	H

ATOM	5644	HA	ILE A 359	29.155	-20.605	-24.054	1.00	0.00	H
ATOM	5645	HB	ILE A 359	30.672	-23.197	-24.578	1.00	0.00	H
ATOM	5646	HG12	ILE A 359	30.232	-22.046	-26.727	1.00	0.00	H
ATOM	5647	HG13	ILE A 359	28.508	-21.959	-26.320	1.00	0.00	H
ATOM	5648	HG21	ILE A 359	28.468	-24.269	-24.240	1.00	0.00	H
ATOM	5649	HG22	ILE A 359	27.722	-22.683	-23.976	1.00	0.00	H
ATOM	5650	HG23	ILE A 359	28.904	-23.343	-22.828	1.00	0.00	H
ATOM	5651	HD11	ILE A 359	29.126	-23.779	-27.920	1.00	0.00	H
ATOM	5652	HD12	ILE A 359	30.133	-24.518	-26.666	1.00	0.00	H
ATOM	5653	HD13	ILE A 359	28.366	-24.413	-26.457	1.00	0.00	H
ATOM	5654	N	THR A 360	29.848	-20.909	-21.625	1.00	0.00	N
ATOM	5655	CA	THR A 360	30.239	-21.043	-20.209	1.00	0.00	C
ATOM	5656	C	THR A 360	29.170	-21.768	-19.397	1.00	0.00	C
ATOM	5657	O	THR A 360	28.071	-21.240	-19.221	1.00	0.00	O
ATOM	5658	CB	THR A 360	30.554	-19.680	-19.570	1.00	0.00	C
ATOM	5659	OG1	THR A 360	31.510	-18.986	-20.352	1.00	0.00	O
ATOM	5660	CG2	THR A 360	31.101	-19.840	-18.148	1.00	0.00	C
ATOM	5661	H	THR A 360	28.953	-20.464	-21.828	1.00	0.00	H
ATOM	5662	HA	THR A 360	31.147	-21.635	-20.150	1.00	0.00	H
ATOM	5663	HB	THR A 360	29.646	-19.076	-19.532	1.00	0.00	H
ATOM	5664	HG1	THR A 360	30.986	-18.336	-20.839	1.00	0.00	H
ATOM	5665	HG21	THR A 360	31.458	-18.886	-17.767	1.00	0.00	H
ATOM	5666	HG22	THR A 360	31.917	-20.562	-18.137	1.00	0.00	H
ATOM	5667	HG23	THR A 360	30.307	-20.191	-17.488	1.00	0.00	H
ATOM	5668	N	ASP A 361	29.554	-22.875	-18.757	1.00	0.00	N
ATOM	5669	CA	ASP A 361	28.732	-23.626	-17.797	1.00	0.00	C
ATOM	5670	C	ASP A 361	29.445	-23.727	-16.432	1.00	0.00	C
ATOM	5671	O	ASP A 361	30.665	-23.899	-16.383	1.00	0.00	O
ATOM	5672	CB	ASP A 361	28.341	-25.012	-18.352	1.00	0.00	C
ATOM	5673	CG	ASP A 361	27.499	-25.017	-19.645	1.00	0.00	C

ATOM	5674	OD1 ASP A 361	26.931	-23.966	-20.023	1.00	0.00	O
ATOM	5675	OD2 ASP A 361	27.259	-26.122	-20.172	1.00	0.00	O
ATOM	5676	H ASP A 361	30.515	-23.185	-18.872	1.00	0.00	H
ATOM	5677	HA ASP A 361	27.806	-23.087	-17.636	1.00	0.00	H
ATOM	5678	HB2 ASP A 361	27.766	-25.528	-17.581	1.00	0.00	H
ATOM	5679	HB3 ASP A 361	29.253	-25.587	-18.525	1.00	0.00	H
ATOM	5680	N CYS A 362	28.711	-23.600	-15.317	1.00	0.00	N
ATOM	5681	CA CYS A 362	29.288	-23.544	-13.963	1.00	0.00	C
ATOM	5682	C CYS A 362	28.628	-24.526	-12.979	1.00	0.00	C
ATOM	5683	O CYS A 362	27.448	-24.856	-13.087	1.00	0.00	O
ATOM	5684	CB CYS A 362	29.248	-22.110	-13.412	1.00	0.00	C
ATOM	5685	SG CYS A 362	29.929	-20.789	-14.458	1.00	0.00	S
ATOM	5686	H CYS A 362	27.710	-23.484	-15.398	1.00	0.00	H
ATOM	5687	HA CYS A 362	30.330	-23.843	-14.021	1.00	0.00	H
ATOM	5688	HB2 CYS A 362	29.773	-22.089	-12.457	1.00	0.00	H
ATOM	5689	HB3 CYS A 362	28.207	-21.865	-13.210	1.00	0.00	H
ATOM	5690	N PHE A 363	29.408	-24.998	-12.005	1.00	0.00	N
ATOM	5691	CA PHE A 363	29.070	-26.101	-11.101	1.00	0.00	C
ATOM	5692	C PHE A 363	29.947	-26.077	-9.832	1.00	0.00	C
ATOM	5693	O PHE A 363	30.757	-25.170	-9.634	1.00	0.00	O
ATOM	5694	CB PHE A 363	29.207	-27.430	-11.875	1.00	0.00	C
ATOM	5695	CG PHE A 363	30.536	-27.636	-12.581	1.00	0.00	C
ATOM	5696	CD1 PHE A 363	31.601	-28.282	-11.925	1.00	0.00	C
ATOM	5697	CD2 PHE A 363	30.700	-27.194	-13.909	1.00	0.00	C
ATOM	5698	CE1 PHE A 363	32.823	-28.480	-12.591	1.00	0.00	C
ATOM	5699	CE2 PHE A 363	31.923	-27.385	-14.572	1.00	0.00	C
ATOM	5700	CZ PHE A 363	32.984	-28.030	-13.914	1.00	0.00	C
ATOM	5701	H PHE A 363	30.362	-24.648	-11.955	1.00	0.00	H
ATOM	5702	HA PHE A 363	28.032	-25.997	-10.784	1.00	0.00	H
ATOM	5703	HB2 PHE A 363	28.416	-27.470	-12.625	1.00	0.00	H



ATOM	5704	HB3 PHE A 363	29.030	-28.269	-11.200	1.00	0.00	H
ATOM	5705	HD1 PHE A 363	31.479	-28.650	-10.917	1.00	0.00	H
ATOM	5706	HD2 PHE A 363	29.882	-26.715	-14.429	1.00	0.00	H
ATOM	5707	HE1 PHE A 363	33.626	-29.002	-12.092	1.00	0.00	H
ATOM	5708	HE2 PHE A 363	32.032	-27.051	-15.594	1.00	0.00	H
ATOM	5709	HZ PHE A 363	33.915	-28.200	-14.432	1.00	0.00	H
ATOM	5710	N LEU A 364	29.728	-27.028	-8.919	1.00	0.00	N
ATOM	5711	CA LEU A 364	30.560	-27.230	-7.728	1.00	0.00	C
ATOM	5712	C LEU A 364	31.562	-28.372	-7.941	1.00	0.00	C
ATOM	5713	O LEU A 364	31.174	-29.437	-8.414	1.00	0.00	O
ATOM	5714	CB LEU A 364	29.673	-27.522	-6.502	1.00	0.00	C
ATOM	5715	CG LEU A 364	28.669	-26.417	-6.127	1.00	0.00	C
ATOM	5716	CD1 LEU A 364	27.853	-26.858	-4.912	1.00	0.00	C
ATOM	5717	CD2 LEU A 364	29.362	-25.101	-5.780	1.00	0.00	C
ATOM	5718	H LEU A 364	29.099	-27.778	-9.164	1.00	0.00	H
ATOM	5719	HA LEU A 364	31.135	-26.327	-7.531	1.00	0.00	H
ATOM	5720	HB2 LEU A 364	29.118	-28.442	-6.692	1.00	0.00	H
ATOM	5721	HB3 LEU A 364	30.325	-27.703	-5.649	1.00	0.00	H
ATOM	5722	HG LEU A 364	27.984	-26.247	-6.957	1.00	0.00	H
ATOM	5723	HD11 LEU A 364	27.325	-27.784	-5.140	1.00	0.00	H
ATOM	5724	HD12 LEU A 364	27.119	-26.092	-4.662	1.00	0.00	H
ATOM	5725	HD13 LEU A 364	28.506	-27.020	-4.054	1.00	0.00	H
ATOM	5726	HD21 LEU A 364	28.621	-24.368	-5.463	1.00	0.00	H
ATOM	5727	HD22 LEU A 364	29.875	-24.717	-6.658	1.00	0.00	H
ATOM	5728	HD23 LEU A 364	30.079	-25.254	-4.976	1.00	0.00	H
ATOM	5729	N LEU A 365	32.764	-28.232	-7.381	1.00	0.00	N
ATOM	5730	CA LEU A 365	33.765	-29.298	-7.254	1.00	0.00	C
ATOM	5731	C LEU A 365	34.573	-29.096	-5.958	1.00	0.00	C
ATOM	5732	O LEU A 365	34.895	-27.959	-5.620	1.00	0.00	O
ATOM	5733	CB LEU A 365	34.638	-29.307	-8.520	1.00	0.00	C

ATOM	5734	CG	LEU A 365	35.660	-30.462	-8.538	1.00	0.00	C
ATOM	5735	CD1	LEU A 365	35.408	-31.381	-9.734	1.00	0.00	C
ATOM	5736	CD2	LEU A 365	37.081	-29.901	-8.594	1.00	0.00	C
ATOM	5737	H	LEU A 365	33.019	-27.317	-7.019	1.00	0.00	H
ATOM	5738	HA	LEU A 365	33.250	-30.259	-7.194	1.00	0.00	H
ATOM	5739	HB2	LEU A 365	33.986	-29.380	-9.392	1.00	0.00	H
ATOM	5740	HB3	LEU A 365	35.157	-28.354	-8.592	1.00	0.00	H
ATOM	5741	HG	LEU A 365	35.558	-31.060	-7.632	1.00	0.00	H
ATOM	5742	HD11	LEU A 365	34.366	-31.701	-9.747	1.00	0.00	H
ATOM	5743	HD12	LEU A 365	36.023	-32.275	-9.638	1.00	0.00	H
ATOM	5744	HD13	LEU A 365	35.643	-30.880	-10.671	1.00	0.00	H
ATOM	5745	HD21	LEU A 365	37.255	-29.247	-7.741	1.00	0.00	H
ATOM	5746	HD22	LEU A 365	37.794	-30.721	-8.533	1.00	0.00	H
ATOM	5747	HD23	LEU A 365	37.246	-29.353	-9.518	1.00	0.00	H
ATOM	5748	N	GLU A 366	34.601	-30.118	-5.091	1.00	0.00	N
ATOM	5749	CA	GLU A 366	34.884	-29.983	-3.643	1.00	0.00	C
ATOM	5750	C	GLU A 366	34.048	-28.886	-2.936	1.00	0.00	C
ATOM	5751	O	GLU A 366	34.477	-28.274	-1.959	1.00	0.00	O
ATOM	5752	CB	GLU A 366	36.395	-29.860	-3.355	1.00	0.00	C
ATOM	5753	CG	GLU A 366	37.145	-31.198	-3.465	1.00	0.00	C
ATOM	5754	CD	GLU A 366	38.190	-31.378	-2.348	1.00	0.00	C
ATOM	5755	OE1	GLU A 366	38.821	-30.375	-1.927	1.00	0.00	O
ATOM	5756	OE2	GLU A 366	38.681	-32.516	-2.173	1.00	0.00	O
ATOM	5757	H	GLU A 366	34.370	-31.037	-5.440	1.00	0.00	H
ATOM	5758	HA	GLU A 366	34.554	-30.909	-3.170	1.00	0.00	H
ATOM	5759	HB2	GLU A 366	36.510	-29.515	-2.329	1.00	0.00	H
ATOM	5760	HB3	GLU A 366	36.856	-29.118	-4.008	1.00	0.00	H
ATOM	5761	HG2	GLU A 366	37.630	-31.256	-4.443	1.00	0.00	H
ATOM	5762	HG3	GLU A 366	36.432	-32.022	-3.396	1.00	0.00	H
ATOM	5763	N	ASN A 367	32.802	-28.675	-3.380	1.00	0.00	N

ATOM	5764	CA	ASN A 367	31.907	-27.593	-2.925	1.00	0.00	C
ATOM	5765	C	ASN A 367	32.383	-26.165	-3.288	1.00	0.00	C
ATOM	5766	O	ASN A 367	31.709	-25.190	-2.958	1.00	0.00	O
ATOM	5767	CB	ASN A 367	31.563	-27.725	-1.424	1.00	0.00	C
ATOM	5768	CG	ASN A 367	31.368	-29.150	-0.942	1.00	0.00	C
ATOM	5769	OD1	ASN A 367	30.305	-29.730	-1.059	1.00	0.00	O
ATOM	5770	ND2	ASN A 367	32.399	-29.764	-0.407	1.00	0.00	N
ATOM	5771	H	ASN A 367	32.498	-29.235	-4.161	1.00	0.00	H
ATOM	5772	HA	ASN A 367	30.969	-27.732	-3.461	1.00	0.00	H
ATOM	5773	HB2	ASN A 367	32.357	-27.270	-0.832	1.00	0.00	H
ATOM	5774	HB3	ASN A 367	30.649	-27.170	-1.218	1.00	0.00	H
ATOM	5775	HD21	ASN A 367	33.303	-29.311	-0.454	1.00	0.00	H
ATOM	5776	HD22	ASN A 367	32.270	-30.720	-0.134	1.00	0.00	H
ATOM	5777	N	VAL A 368	33.491	-26.020	-4.022	1.00	0.00	N
ATOM	5778	CA	VAL A 368	33.969	-24.747	-4.578	1.00	0.00	C
ATOM	5779	C	VAL A 368	33.324	-24.503	-5.943	1.00	0.00	C
ATOM	5780	O	VAL A 368	33.290	-25.400	-6.783	1.00	0.00	O
ATOM	5781	CB	VAL A 368	35.508	-24.732	-4.680	1.00	0.00	C
ATOM	5782	CG1	VAL A 368	36.033	-23.389	-5.208	1.00	0.00	C
ATOM	5783	CG2	VAL A 368	36.160	-24.977	-3.311	1.00	0.00	C
ATOM	5784	H	VAL A 368	33.989	-26.857	-4.310	1.00	0.00	H
ATOM	5785	HA	VAL A 368	33.669	-23.943	-3.907	1.00	0.00	H
ATOM	5786	HB	VAL A 368	35.837	-25.513	-5.364	1.00	0.00	H
ATOM	5787	HG21	VAL A 368	35.901	-25.974	-2.949	1.00	0.00	H
ATOM	5788	HG22	VAL A 368	37.245	-24.929	-3.397	1.00	0.00	H
ATOM	5789	HG23	VAL A 368	35.814	-24.238	-2.588	1.00	0.00	H
ATOM	5790	HG11	VAL A 368	35.705	-23.237	-6.236	1.00	0.00	H
ATOM	5791	HG12	VAL A 368	37.123	-23.403	-5.202	1.00	0.00	H
ATOM	5792	HG13	VAL A 368	35.676	-22.572	-4.582	1.00	0.00	H
ATOM	5793	N	ILE A 369	32.876	-23.270	-6.200	1.00	0.00	N

ATOM	5794	CA	ILE A 369	32.316	-22.881	-7.499	1.00	0.00	C
ATOM	5795	C	ILE A 369	33.428	-22.871	-8.564	1.00	0.00	C
ATOM	5796	O	ILE A 369	34.371	-22.074	-8.495	1.00	0.00	O
ATOM	5797	CB	ILE A 369	31.559	-21.530	-7.438	1.00	0.00	C
ATOM	5798	CG1	ILE A 369	30.408	-21.464	-6.404	1.00	0.00	C
ATOM	5799	CG2	ILE A 369	30.949	-21.216	-8.819	1.00	0.00	C
ATOM	5800	CD1	ILE A 369	30.844	-21.176	-4.960	1.00	0.00	C
ATOM	5801	H	ILE A 369	32.924	-22.578	-5.473	1.00	0.00	H
ATOM	5802	HA	ILE A 369	31.591	-23.642	-7.788	1.00	0.00	H
ATOM	5803	HB	ILE A 369	32.268	-20.742	-7.194	1.00	0.00	H
ATOM	5804	HG12	ILE A 369	29.830	-22.386	-6.436	1.00	0.00	H
ATOM	5805	HG13	ILE A 369	29.734	-20.653	-6.681	1.00	0.00	H
ATOM	5806	HG21	ILE A 369	30.446	-20.248	-8.802	1.00	0.00	H
ATOM	5807	HG22	ILE A 369	31.716	-21.179	-9.591	1.00	0.00	H
ATOM	5808	HG23	ILE A 369	30.223	-21.985	-9.091	1.00	0.00	H
ATOM	5809	HD11	ILE A 369	29.959	-20.971	-4.357	1.00	0.00	H
ATOM	5810	HD12	ILE A 369	31.498	-20.304	-4.933	1.00	0.00	H
ATOM	5811	HD13	ILE A 369	31.353	-22.035	-4.527	1.00	0.00	H
ATOM	5812	N	TRP A 370	33.221	-23.646	-9.624	1.00	0.00	N
ATOM	5813	CA	TRP A 370	34.004	-23.652	-10.859	1.00	0.00	C
ATOM	5814	C	TRP A 370	33.111	-23.305	-12.051	1.00	0.00	C
ATOM	5815	O	TRP A 370	31.931	-23.647	-12.076	1.00	0.00	O
ATOM	5816	CB	TRP A 370	34.646	-25.033	-11.057	1.00	0.00	C
ATOM	5817	CG	TRP A 370	35.935	-25.278	-10.333	1.00	0.00	C
ATOM	5818	CD1	TRP A 370	36.062	-25.804	-9.094	1.00	0.00	C
ATOM	5819	CD2	TRP A 370	37.300	-25.058	-10.811	1.00	0.00	C
ATOM	5820	NE1	TRP A 370	37.401	-25.981	-8.797	1.00	0.00	N
ATOM	5821	CE2	TRP A 370	38.209	-25.521	-9.814	1.00	0.00	C
ATOM	5822	CE3	TRP A 370	37.861	-24.560	-12.008	1.00	0.00	C
ATOM	5823	CZ2	TRP A 370	39.600	-25.486	-9.992	1.00	0.00	C

ATOM	5824	CZ3 TRP A 370	39.260	-24.502	-12.189	1.00	0.00	C
ATOM	5825	CH2 TRP A 370	40.127	-24.969	-11.188	1.00	0.00	C
ATOM	5826	H TRP A 370	32.381	-24.220	-9.628	1.00	0.00	H
ATOM	5827	HA TRP A 370	34.795	-22.906	-10.811	1.00	0.00	H
ATOM	5828	HB2 TRP A 370	34.856	-25.166	-12.119	1.00	0.00	H
ATOM	5829	HB3 TRP A 370	33.928	-25.809	-10.785	1.00	0.00	H
ATOM	5830	HD1 TRP A 370	35.228	-26.104	-8.464	1.00	0.00	H
ATOM	5831	HE3 TRP A 370	37.199	-24.243	-12.800	1.00	0.00	H
ATOM	5832	HZ2 TRP A 370	40.251	-25.888	-9.229	1.00	0.00	H
ATOM	5833	HZ3 TRP A 370	39.672	-24.128	-13.115	1.00	0.00	H
ATOM	5834	HH2 TRP A 370	41.194	-24.953	-11.349	1.00	0.00	H
ATOM	5835	HE1 TRP A 370	37.724	-26.535	-8.013	1.00	0.00	H
ATOM	5836	N CYS A 371	33.726	-22.774	-13.102	1.00	0.00	N
ATOM	5837	CA CYS A 371	33.159	-22.695	-14.442	1.00	0.00	C
ATOM	5838	C CYS A 371	34.091	-23.385	-15.442	1.00	0.00	C
ATOM	5839	O CYS A 371	35.315	-23.285	-15.323	1.00	0.00	O
ATOM	5840	CB CYS A 371	32.919	-21.229	-14.810	1.00	0.00	C
ATOM	5841	SG CYS A 371	31.775	-20.338	-13.723	1.00	0.00	S
ATOM	5842	H CYS A 371	34.693	-22.492	-13.002	1.00	0.00	H
ATOM	5843	HA CYS A 371	32.205	-23.213	-14.472	1.00	0.00	H
ATOM	5844	HB2 CYS A 371	33.879	-20.711	-14.791	1.00	0.00	H
ATOM	5845	HB3 CYS A 371	32.533	-21.179	-15.828	1.00	0.00	H
ATOM	5846	N ILE A 372	33.514	-23.989	-16.478	1.00	0.00	N
ATOM	5847	CA ILE A 372	34.205	-24.331	-17.721	1.00	0.00	C
ATOM	5848	C ILE A 372	33.719	-23.359	-18.793	1.00	0.00	C
ATOM	5849	O ILE A 372	32.521	-23.297	-19.076	1.00	0.00	O
ATOM	5850	CB ILE A 372	33.947	-25.805	-18.112	1.00	0.00	C
ATOM	5851	CG1 ILE A 372	34.562	-26.794	-17.094	1.00	0.00	C
ATOM	5852	CG2 ILE A 372	34.447	-26.109	-19.538	1.00	0.00	C
ATOM	5853	CD1 ILE A 372	36.087	-26.936	-17.155	1.00	0.00	C

ATOM	5854	H	ILE A 372	32.496	-23.990	-16.515	1.00	0.00	H
ATOM	5855	HA	ILE A 372	35.278	-24.189	-17.603	1.00	0.00	H
ATOM	5856	HB	ILE A 372	32.866	-25.964	-18.106	1.00	0.00	H
ATOM	5857	HG12	ILE A 372	34.295	-26.483	-16.086	1.00	0.00	H
ATOM	5858	HG13	ILE A 372	34.125	-27.780	-17.260	1.00	0.00	H
ATOM	5859	HG21	ILE A 372	34.319	-27.170	-19.755	1.00	0.00	H
ATOM	5860	HG22	ILE A 372	35.498	-25.838	-19.645	1.00	0.00	H
ATOM	5861	HG23	ILE A 372	33.867	-25.544	-20.267	1.00	0.00	H
ATOM	5862	HD11	ILE A 372	36.560	-25.959	-17.102	1.00	0.00	H
ATOM	5863	HD12	ILE A 372	36.434	-27.544	-16.322	1.00	0.00	H
ATOM	5864	HD13	ILE A 372	36.374	-27.427	-18.082	1.00	0.00	H
ATOM	5865	N	SER A 373	34.655	-22.674	-19.445	1.00	0.00	N
ATOM	5866	CA	SER A 373	34.400	-21.909	-20.663	1.00	0.00	C
ATOM	5867	C	SER A 373	35.076	-22.576	-21.855	1.00	0.00	C
ATOM	5868	O	SER A 373	36.304	-22.649	-21.926	1.00	0.00	O
ATOM	5869	CB	SER A 373	34.860	-20.458	-20.526	1.00	0.00	C
ATOM	5870	OG	SER A 373	34.121	-19.796	-19.517	1.00	0.00	O
ATOM	5871	H	SER A 373	35.622	-22.790	-19.160	1.00	0.00	H
ATOM	5872	HA	SER A 373	33.332	-21.883	-20.845	1.00	0.00	H
ATOM	5873	HB2	SER A 373	35.921	-20.434	-20.273	1.00	0.00	H
ATOM	5874	HB3	SER A 373	34.711	-19.942	-21.477	1.00	0.00	H
ATOM	5875	HG	SER A 373	33.176	-19.799	-19.757	1.00	0.00	H
ATOM	5876	N	LEU A 374	34.289	-22.959	-22.858	1.00	0.00	N
ATOM	5877	CA	LEU A 374	34.793	-23.130	-24.216	1.00	0.00	C
ATOM	5878	C	LEU A 374	34.934	-21.749	-24.865	1.00	0.00	C
ATOM	5879	O	LEU A 374	33.976	-20.972	-24.866	1.00	0.00	O
ATOM	5880	CB	LEU A 374	33.834	-24.034	-25.013	1.00	0.00	C
ATOM	5881	CG	LEU A 374	34.391	-24.484	-26.376	1.00	0.00	C
ATOM	5882	CD1	LEU A 374	35.487	-25.538	-26.208	1.00	0.00	C
ATOM	5883	CD2	LEU A 374	33.282	-25.103	-27.222	1.00	0.00	C

ATOM	5884	H	LEU A 374	33.295	-22.780	-22.750	1.00	0.00	H
ATOM	5885	HA	LEU A 374	35.777	-23.597	-24.172	1.00	0.00	H
ATOM	5886	HB2	LEU A 374	33.599	-24.918	-24.424	1.00	0.00	H
ATOM	5887	HB3	LEU A 374	32.906	-23.486	-25.175	1.00	0.00	H
ATOM	5888	HG	LEU A 374	34.794	-23.630	-26.919	1.00	0.00	H
ATOM	5889	HD11	LEU A 374	36.346	-25.110	-25.694	1.00	0.00	H
ATOM	5890	HD12	LEU A 374	35.810	-25.900	-27.179	1.00	0.00	H
ATOM	5891	HD13	LEU A 374	35.098	-26.384	-25.645	1.00	0.00	H
ATOM	5892	HD21	LEU A 374	33.702	-25.457	-28.163	1.00	0.00	H
ATOM	5893	HD22	LEU A 374	32.520	-24.353	-27.431	1.00	0.00	H
ATOM	5894	HD23	LEU A 374	32.830	-25.945	-26.698	1.00	0.00	H
ATOM	5895	N	VAL A 375	36.044	-21.521	-25.565	1.00	0.00	N
ATOM	5896	CA	VAL A 375	36.191	-20.403	-26.507	1.00	0.00	C
ATOM	5897	C	VAL A 375	36.578	-20.959	-27.873	1.00	0.00	C
ATOM	5898	O	VAL A 375	37.483	-21.783	-27.971	1.00	0.00	O
ATOM	5899	CB	VAL A 375	37.206	-19.351	-26.014	1.00	0.00	C
ATOM	5900	CG1	VAL A 375	37.118	-18.073	-26.857	1.00	0.00	C
ATOM	5901	CG2	VAL A 375	36.977	-18.946	-24.552	1.00	0.00	C
ATOM	5902	H	VAL A 375	36.813	-22.183	-25.505	1.00	0.00	H
ATOM	5903	HA	VAL A 375	35.232	-19.898	-26.617	1.00	0.00	H
ATOM	5904	HB	VAL A 375	38.214	-19.760	-26.102	1.00	0.00	H
ATOM	5905	HG11	VAL A 375	37.916	-17.387	-26.572	1.00	0.00	H
ATOM	5906	HG12	VAL A 375	37.219	-18.300	-27.917	1.00	0.00	H
ATOM	5907	HG13	VAL A 375	36.157	-17.584	-26.704	1.00	0.00	H
ATOM	5908	HG21	VAL A 375	37.682	-18.162	-24.278	1.00	0.00	H
ATOM	5909	HG22	VAL A 375	35.957	-18.584	-24.419	1.00	0.00	H
ATOM	5910	HG23	VAL A 375	37.147	-19.796	-23.893	1.00	0.00	H
ATOM	5911	N	GLU A 376	35.851	-20.579	-28.919	1.00	0.00	N
ATOM	5912	CA	GLU A 376	36.264	-20.747	-30.313	1.00	0.00	C
ATOM	5913	C	GLU A 376	37.273	-19.642	-30.657	1.00	0.00	C

ATOM	5914	O	GLU A 376	36.888	-18.483	-30.801	1.00	0.00	O
ATOM	5915	CB	GLU A 376	35.017	-20.720	-31.211	1.00	0.00	C
ATOM	5916	CG	GLU A 376	35.308	-21.117	-32.667	1.00	0.00	C
ATOM	5917	CD	GLU A 376	34.017	-21.277	-33.488	1.00	0.00	C
ATOM	5918	OE1	GLU A 376	33.056	-20.506	-33.262	1.00	0.00	O
ATOM	5919	OE2	GLU A 376	33.985	-22.125	-34.409	1.00	0.00	O
ATOM	5920	H	GLU A 376	35.124	-19.892	-28.747	1.00	0.00	H
ATOM	5921	HA	GLU A 376	36.746	-21.714	-30.440	1.00	0.00	H
ATOM	5922	HB2	GLU A 376	34.285	-21.417	-30.802	1.00	0.00	H
ATOM	5923	HB3	GLU A 376	34.585	-19.721	-31.192	1.00	0.00	H
ATOM	5924	HG2	GLU A 376	35.859	-22.060	-32.670	1.00	0.00	H
ATOM	5925	HG3	GLU A 376	35.942	-20.356	-33.128	1.00	0.00	H
ATOM	5926	N	ILE A 377	38.560	-19.974	-30.551	1.00	0.00	N
ATOM	5927	CA	ILE A 377	39.715	-19.063	-30.511	1.00	0.00	C
ATOM	5928	C	ILE A 377	40.825	-19.616	-31.409	1.00	0.00	C
ATOM	5929	O	ILE A 377	40.956	-20.835	-31.533	1.00	0.00	O
ATOM	5930	CB	ILE A 377	40.193	-18.856	-29.044	1.00	0.00	C
ATOM	5931	CG1	ILE A 377	41.370	-17.861	-28.895	1.00	0.00	C
ATOM	5932	CG2	ILE A 377	40.575	-20.189	-28.381	1.00	0.00	C
ATOM	5933	CD1	ILE A 377	41.760	-17.543	-27.445	1.00	0.00	C
ATOM	5934	H	ILE A 377	38.792	-20.946	-30.417	1.00	0.00	H
ATOM	5935	HA	ILE A 377	39.417	-18.098	-30.910	1.00	0.00	H
ATOM	5936	HB	ILE A 377	39.355	-18.439	-28.493	1.00	0.00	H
ATOM	5937	HG12	ILE A 377	41.090	-16.919	-29.357	1.00	0.00	H
ATOM	5938	HG13	ILE A 377	42.257	-18.239	-29.405	1.00	0.00	H
ATOM	5939	HG21	ILE A 377	39.786	-20.926	-28.493	1.00	0.00	H
ATOM	5940	HG22	ILE A 377	41.480	-20.569	-28.849	1.00	0.00	H
ATOM	5941	HG23	ILE A 377	40.746	-20.042	-27.317	1.00	0.00	H
ATOM	5942	HD11	ILE A 377	42.441	-16.693	-27.441	1.00	0.00	H
ATOM	5943	HD12	ILE A 377	42.272	-18.391	-26.991	1.00	0.00	H



ATOM	5944	HD13	ILE	A 377	40.873	-17.294	-26.862	1.00	0.00	H
ATOM	5945	N	TYR	A 378	41.666	-18.748	-31.963	1.00	0.00	N
ATOM	5946	CA	TYR	A 378	42.959	-19.143	-32.511	1.00	0.00	C
ATOM	5947	C	TYR	A 378	44.014	-18.052	-32.337	1.00	0.00	C
ATOM	5948	O	TYR	A 378	43.752	-16.851	-32.448	1.00	0.00	O
ATOM	5949	CB	TYR	A 378	42.828	-19.608	-33.963	1.00	0.00	C
ATOM	5950	CG	TYR	A 378	42.441	-18.546	-34.974	1.00	0.00	C
ATOM	5951	CD1	TYR	A 378	43.450	-17.841	-35.654	1.00	0.00	C
ATOM	5952	CD2	TYR	A 378	41.086	-18.255	-35.223	1.00	0.00	C
ATOM	5953	CE1	TYR	A 378	43.111	-16.807	-36.546	1.00	0.00	C
ATOM	5954	CE2	TYR	A 378	40.740	-17.229	-36.127	1.00	0.00	C
ATOM	5955	CZ	TYR	A 378	41.755	-16.488	-36.770	1.00	0.00	C
ATOM	5956	OH	TYR	A 378	41.435	-15.394	-37.504	1.00	0.00	O
ATOM	5957	H	TYR	A 378	41.514	-17.751	-31.822	1.00	0.00	H
ATOM	5958	HA	TYR	A 378	43.310	-20.003	-31.939	1.00	0.00	H
ATOM	5959	HB2	TYR	A 378	43.782	-20.030	-34.263	1.00	0.00	H
ATOM	5960	HB3	TYR	A 378	42.114	-20.422	-33.987	1.00	0.00	H
ATOM	5961	HD1	TYR	A 378	44.491	-18.061	-35.454	1.00	0.00	H
ATOM	5962	HD2	TYR	A 378	40.315	-18.787	-34.685	1.00	0.00	H
ATOM	5963	HE1	TYR	A 378	43.883	-16.218	-37.014	1.00	0.00	H
ATOM	5964	HE2	TYR	A 378	39.709	-16.955	-36.281	1.00	0.00	H
ATOM	5965	HH	TYR	A 378	40.980	-14.751	-36.934	1.00	0.00	H
ATOM	5966	N	ASP	A 379	45.229	-18.505	-32.081	1.00	0.00	N
ATOM	5967	CA	ASP	A 379	46.409	-17.666	-31.941	1.00	0.00	C
ATOM	5968	C	ASP	A 379	46.945	-17.392	-33.360	1.00	0.00	C
ATOM	5969	O	ASP	A 379	46.771	-18.225	-34.255	1.00	0.00	O
ATOM	5970	CB	ASP	A 379	47.446	-18.347	-31.017	1.00	0.00	C
ATOM	5971	CG	ASP	A 379	46.906	-18.974	-29.706	1.00	0.00	C
ATOM	5972	OD1	ASP	A 379	45.724	-18.749	-29.347	1.00	0.00	O
ATOM	5973	OD2	ASP	A 379	47.461	-20.027	-29.313	1.00	0.00	O

ATOM	5974	H	ASP A 379	45.380	-19.510	-32.129	1.00	0.00	H
ATOM	5975	HA	ASP A 379	46.118	-16.721	-31.479	1.00	0.00	H
ATOM	5976	HB2	ASP A 379	47.936	-19.136	-31.593	1.00	0.00	H
ATOM	5977	HB3	ASP A 379	48.209	-17.610	-30.761	1.00	0.00	H
ATOM	5978	N	THR A 380	47.505	-16.206	-33.627	1.00	0.00	N
ATOM	5979	CA	THR A 380	47.855	-15.758	-34.996	1.00	0.00	C
ATOM	5980	C	THR A 380	49.080	-16.505	-35.558	1.00	0.00	C
ATOM	5981	O	THR A 380	50.196	-15.993	-35.596	1.00	0.00	O
ATOM	5982	CB	THR A 380	47.994	-14.225	-35.055	1.00	0.00	C
ATOM	5983	OG1	THR A 380	46.804	-13.651	-34.556	1.00	0.00	O
ATOM	5984	CG2	THR A 380	48.147	-13.683	-36.478	1.00	0.00	C
ATOM	5985	H	THR A 380	47.552	-15.520	-32.888	1.00	0.00	H
ATOM	5986	HA	THR A 380	47.015	-16.009	-35.643	1.00	0.00	H
ATOM	5987	HB	THR A 380	48.837	-13.903	-34.442	1.00	0.00	H
ATOM	5988	HG1	THR A 380	47.005	-12.751	-34.267	1.00	0.00	H
ATOM	5989	HG21	THR A 380	48.158	-12.594	-36.455	1.00	0.00	H
ATOM	5990	HG22	THR A 380	47.314	-14.019	-37.097	1.00	0.00	H
ATOM	5991	HG23	THR A 380	49.084	-14.026	-36.915	1.00	0.00	H
ATOM	5992	N	GLY A 381	48.872	-17.784	-35.881	1.00	0.00	N
ATOM	5993	CA	GLY A 381	49.893	-18.808	-36.122	1.00	0.00	C
ATOM	5994	C	GLY A 381	49.376	-20.258	-36.023	1.00	0.00	C
ATOM	5995	O	GLY A 381	50.028	-21.162	-36.541	1.00	0.00	O
ATOM	5996	H	GLY A 381	47.931	-18.116	-35.707	1.00	0.00	H
ATOM	5997	HA2	GLY A 381	50.690	-18.688	-35.389	1.00	0.00	H
ATOM	5998	HA3	GLY A 381	50.316	-18.663	-37.116	1.00	0.00	H
ATOM	5999	N	ASP A 382	48.168	-20.490	-35.488	1.00	0.00	N
ATOM	6000	CA	ASP A 382	47.481	-21.792	-35.521	1.00	0.00	C
ATOM	6001	C	ASP A 382	47.144	-22.237	-36.963	1.00	0.00	C
ATOM	6002	O	ASP A 382	46.095	-21.890	-37.507	1.00	0.00	O
ATOM	6003	CB	ASP A 382	46.181	-21.726	-34.690	1.00	0.00	C

ATOM	6004	CG	ASP A 382	46.356	-21.843	-33.174	1.00	0.00	C
ATOM	6005	OD1	ASP A 382	47.052	-22.799	-32.764	1.00	0.00	O
ATOM	6006	OD2	ASP A 382	45.466	-21.325	-32.460	1.00	0.00	O
ATOM	6007	H	ASP A 382	47.671	-19.725	-35.045	1.00	0.00	H
ATOM	6008	HA	ASP A 382	48.130	-22.547	-35.076	1.00	0.00	H
ATOM	6009	HB2	ASP A 382	45.674	-20.793	-34.932	1.00	0.00	H
ATOM	6010	HB3	ASP A 382	45.529	-22.548	-34.994	1.00	0.00	H
ATOM	6011	N	SER A 383	47.910	-23.191	-37.507	1.00	0.00	N
ATOM	6012	CA	SER A 383	47.548	-23.910	-38.748	1.00	0.00	C
ATOM	6013	C	SER A 383	46.277	-24.760	-38.597	1.00	0.00	C
ATOM	6014	O	SER A 383	45.556	-24.997	-39.568	1.00	0.00	O
ATOM	6015	CB	SER A 383	48.680	-24.854	-39.169	1.00	0.00	C
ATOM	6016	OG	SER A 383	49.909	-24.161	-39.274	1.00	0.00	O
ATOM	6017	H	SER A 383	48.843	-23.308	-37.136	1.00	0.00	H
ATOM	6018	HA	SER A 383	47.380	-23.185	-39.544	1.00	0.00	H
ATOM	6019	HB2	SER A 383	48.782	-25.648	-38.428	1.00	0.00	H
ATOM	6020	HB3	SER A 383	48.434	-25.303	-40.132	1.00	0.00	H
ATOM	6021	HG	SER A 383	50.607	-24.788	-39.476	1.00	0.00	H
ATOM	6022	N	VAL A 384	46.026	-25.245	-37.375	1.00	0.00	N
ATOM	6023	CA	VAL A 384	44.875	-26.073	-36.993	1.00	0.00	C
ATOM	6024	C	VAL A 384	44.001	-25.266	-36.031	1.00	0.00	C
ATOM	6025	O	VAL A 384	44.065	-25.443	-34.817	1.00	0.00	O
ATOM	6026	CB	VAL A 384	45.326	-27.433	-36.412	1.00	0.00	C
ATOM	6027	CG1	VAL A 384	44.135	-28.338	-36.052	1.00	0.00	C
ATOM	6028	CG2	VAL A 384	46.197	-28.214	-37.406	1.00	0.00	C
ATOM	6029	H	VAL A 384	46.631	-24.924	-36.633	1.00	0.00	H
ATOM	6030	HA	VAL A 384	44.278	-26.280	-37.879	1.00	0.00	H
ATOM	6031	HB	VAL A 384	45.916	-27.262	-35.511	1.00	0.00	H
ATOM	6032	HG11	VAL A 384	44.499	-29.296	-35.684	1.00	0.00	H
ATOM	6033	HG12	VAL A 384	43.511	-28.503	-36.929	1.00	0.00	H

ATOM	6034	HG13 VAL A 384	43.531	-27.879	-35.270	1.00	0.00	H
ATOM	6035	HG21 VAL A 384	46.486	-29.174	-36.980	1.00	0.00	H
ATOM	6036	HG22 VAL A 384	47.104	-27.655	-37.632	1.00	0.00	H
ATOM	6037	HG23 VAL A 384	45.650	-28.379	-38.333	1.00	0.00	H
ATOM	6038	N ILE A 385	43.249	-24.310	-36.577	1.00	0.00	N
ATOM	6039	CA ILE A 385	42.337	-23.437	-35.826	1.00	0.00	C
ATOM	6040	C ILE A 385	41.344	-24.305	-35.044	1.00	0.00	C
ATOM	6041	O ILE A 385	40.645	-25.134	-35.635	1.00	0.00	O
ATOM	6042	CB ILE A 385	41.624	-22.470	-36.805	1.00	0.00	C
ATOM	6043	CG1 ILE A 385	42.651	-21.452	-37.353	1.00	0.00	C
ATOM	6044	CG2 ILE A 385	40.401	-21.784	-36.165	1.00	0.00	C
ATOM	6045	CD1 ILE A 385	42.103	-20.467	-38.393	1.00	0.00	C
ATOM	6046	H ILE A 385	43.242	-24.251	-37.589	1.00	0.00	H
ATOM	6047	HA ILE A 385	42.917	-22.850	-35.113	1.00	0.00	H
ATOM	6048	HB ILE A 385	41.254	-23.053	-37.649	1.00	0.00	H
ATOM	6049	HG12 ILE A 385	43.083	-20.886	-36.528	1.00	0.00	H
ATOM	6050	HG13 ILE A 385	43.462	-22.000	-37.833	1.00	0.00	H
ATOM	6051	HG21 ILE A 385	39.947	-21.082	-36.860	1.00	0.00	H
ATOM	6052	HG22 ILE A 385	40.685	-21.247	-35.268	1.00	0.00	H
ATOM	6053	HG23 ILE A 385	39.641	-22.519	-35.901	1.00	0.00	H
ATOM	6054	HD11 ILE A 385	41.596	-21.011	-39.190	1.00	0.00	H
ATOM	6055	HD12 ILE A 385	42.932	-19.902	-38.818	1.00	0.00	H
ATOM	6056	HD13 ILE A 385	41.414	-19.763	-37.927	1.00	0.00	H
ATOM	6057	N ARG A 386	41.248	-24.131	-33.720	1.00	0.00	N
ATOM	6058	CA ARG A 386	40.342	-24.943	-32.893	1.00	0.00	C
ATOM	6059	C ARG A 386	39.898	-24.269	-31.591	1.00	0.00	C
ATOM	6060	O ARG A 386	40.740	-23.708	-30.900	1.00	0.00	O
ATOM	6061	CB ARG A 386	40.968	-26.324	-32.608	1.00	0.00	C
ATOM	6062	CG ARG A 386	42.339	-26.281	-31.895	1.00	0.00	C
ATOM	6063	CD ARG A 386	42.590	-27.542	-31.066	1.00	0.00	C

ATOM	6064	NE	ARG A 386	41.672	-27.601	-29.911	1.00	0.00	N
ATOM	6065	CZ	ARG A 386	41.283	-28.664	-29.239	1.00	0.00	C
ATOM	6066	NH1	ARG A 386	41.760	-29.854	-29.480	1.00	0.00	N
ATOM	6067	NH2	ARG A 386	40.388	-28.535	-28.308	1.00	0.00	N
ATOM	6068	H	ARG A 386	41.840	-23.442	-33.270	1.00	0.00	H
ATOM	6069	HA	ARG A 386	39.447	-25.090	-33.492	1.00	0.00	H
ATOM	6070	HB2	ARG A 386	40.255	-26.894	-32.014	1.00	0.00	H
ATOM	6071	HB3	ARG A 386	41.099	-26.858	-33.549	1.00	0.00	H
ATOM	6072	HG2	ARG A 386	43.124	-26.191	-32.640	1.00	0.00	H
ATOM	6073	HG3	ARG A 386	42.420	-25.424	-31.231	1.00	0.00	H
ATOM	6074	HD2	ARG A 386	42.462	-28.413	-31.712	1.00	0.00	H
ATOM	6075	HD3	ARG A 386	43.621	-27.517	-30.707	1.00	0.00	H
ATOM	6076	HE	ARG A 386	41.225	-26.729	-29.640	1.00	0.00	H
ATOM	6077	HH11	ARG A 386	42.465	-29.942	-30.189	1.00	0.00	H
ATOM	6078	HH12	ARG A 386	41.450	-30.644	-28.951	1.00	0.00	H
ATOM	6079	HH21	ARG A 386	40.008	-27.600	-28.162	1.00	0.00	H
ATOM	6080	HH22	ARG A 386	40.035	-29.314	-27.791	1.00	0.00	H
ATOM	6081	N	PRO A 387	38.706	-24.627	-31.071	1.00	0.00	N
ATOM	6082	CA	PRO A 387	38.286	-24.243	-29.731	1.00	0.00	C
ATOM	6083	C	PRO A 387	39.254	-24.707	-28.635	1.00	0.00	C
ATOM	6084	O	PRO A 387	39.733	-25.847	-28.657	1.00	0.00	O
ATOM	6085	CB	PRO A 387	36.888	-24.833	-29.541	1.00	0.00	C
ATOM	6086	CG	PRO A 387	36.346	-24.948	-30.961	1.00	0.00	C
ATOM	6087	CD	PRO A 387	37.602	-25.271	-31.766	1.00	0.00	C
ATOM	6088	HA	PRO A 387	38.233	-23.158	-29.722	1.00	0.00	H
ATOM	6089	HB2	PRO A 387	36.965	-25.835	-29.116	1.00	0.00	H
ATOM	6090	HB3	PRO A 387	36.261	-24.192	-28.921	1.00	0.00	H
ATOM	6091	HG2	PRO A 387	35.601	-25.739	-31.047	1.00	0.00	H
ATOM	6092	HG3	PRO A 387	35.935	-23.990	-31.280	1.00	0.00	H
ATOM	6093	HD2	PRO A 387	37.490	-24.875	-32.771	1.00	0.00	H

ATOM	6094	HD3 PRO A 387	37.763	-26.349	-31.788	1.00	0.00	H
ATOM	6095	N LYS A 388	39.444	-23.868	-27.616	1.00	0.00	N
ATOM	6096	CA LYS A 388	40.324	-24.111	-26.462	1.00	0.00	C
ATOM	6097	C LYS A 388	39.483	-24.012	-25.178	1.00	0.00	C
ATOM	6098	O LYS A 388	38.647	-23.117	-25.047	1.00	0.00	O
ATOM	6099	CB LYS A 388	41.544	-23.149	-26.504	1.00	0.00	C
ATOM	6100	CG LYS A 388	42.324	-23.218	-27.841	1.00	0.00	C
ATOM	6101	CD LYS A 388	43.554	-22.292	-27.975	1.00	0.00	C
ATOM	6102	CE LYS A 388	43.984	-22.263	-29.457	1.00	0.00	C
ATOM	6103	NZ LYS A 388	45.117	-21.350	-29.754	1.00	0.00	N
ATOM	6104	H LYS A 388	38.938	-22.985	-27.639	1.00	0.00	H
ATOM	6105	HA LYS A 388	40.714	-25.127	-26.516	1.00	0.00	H
ATOM	6106	HB2 LYS A 388	41.196	-22.129	-26.348	1.00	0.00	H
ATOM	6107	HB3 LYS A 388	42.221	-23.400	-25.689	1.00	0.00	H
ATOM	6108	HG2 LYS A 388	42.645	-24.247	-28.010	1.00	0.00	H
ATOM	6109	HG3 LYS A 388	41.638	-22.950	-28.641	1.00	0.00	H
ATOM	6110	HD2 LYS A 388	43.300	-21.281	-27.653	1.00	0.00	H
ATOM	6111	HD3 LYS A 388	44.371	-22.662	-27.354	1.00	0.00	H
ATOM	6112	HE2 LYS A 388	44.259	-23.272	-29.771	1.00	0.00	H
ATOM	6113	HE3 LYS A 388	43.127	-21.956	-30.065	1.00	0.00	H
ATOM	6114	HZ1 LYS A 388	45.295	-21.301	-30.761	1.00	0.00	H
ATOM	6115	HZ2 LYS A 388	44.985	-20.380	-29.459	1.00	0.00	H
ATOM	6116	HZ3 LYS A 388	46.018	-21.579	-29.348	1.00	0.00	H
ATOM	6117	N LEU A 389	39.511	-25.070	-24.364	1.00	0.00	N
ATOM	6118	CA LEU A 389	38.758	-25.163	-23.104	1.00	0.00	C
ATOM	6119	C LEU A 389	39.538	-24.504	-21.961	1.00	0.00	C
ATOM	6120	O LEU A 389	40.651	-24.934	-21.653	1.00	0.00	O
ATOM	6121	CB LEU A 389	38.483	-26.636	-22.747	1.00	0.00	C
ATOM	6122	CG LEU A 389	37.370	-27.324	-23.548	1.00	0.00	C
ATOM	6123	CD1 LEU A 389	37.496	-28.842	-23.408	1.00	0.00	C

ATOM	6124	CD2 LEU A 389	35.992	-26.919	-23.017	1.00	0.00	C
ATOM	6125	H LEU A 389	40.160	-25.814	-24.583	1.00	0.00	H
ATOM	6126	HA LEU A 389	37.807	-24.639	-23.206	1.00	0.00	H
ATOM	6127	HB2 LEU A 389	39.411	-27.191	-22.877	1.00	0.00	H
ATOM	6128	HB3 LEU A 389	38.214	-26.691	-21.692	1.00	0.00	H
ATOM	6129	HG LEU A 389	37.455	-27.066	-24.603	1.00	0.00	H
ATOM	6130	HD11 LEU A 389	38.452	-29.176	-23.810	1.00	0.00	H
ATOM	6131	HD12 LEU A 389	37.426	-29.132	-22.358	1.00	0.00	H
ATOM	6132	HD13 LEU A 389	36.696	-29.332	-23.964	1.00	0.00	H
ATOM	6133	HD21 LEU A 389	35.215	-27.446	-23.570	1.00	0.00	H
ATOM	6134	HD22 LEU A 389	35.903	-27.181	-21.962	1.00	0.00	H
ATOM	6135	HD23 LEU A 389	35.843	-25.846	-23.128	1.00	0.00	H
ATOM	6136	N PHE A 390	38.858	-23.665	-21.183	1.00	0.00	N
ATOM	6137	CA PHE A 390	39.403	-23.004	-19.999	1.00	0.00	C
ATOM	6138	C PHE A 390	38.590	-23.365	-18.750	1.00	0.00	C
ATOM	6139	O PHE A 390	37.382	-23.135	-18.698	1.00	0.00	O
ATOM	6140	CB PHE A 390	39.444	-21.485	-20.223	1.00	0.00	C
ATOM	6141	CG PHE A 390	40.315	-21.040	-21.386	1.00	0.00	C
ATOM	6142	CD1 PHE A 390	41.639	-20.616	-21.159	1.00	0.00	C
ATOM	6143	CD2 PHE A 390	39.789	-21.012	-22.692	1.00	0.00	C
ATOM	6144	CE1 PHE A 390	42.425	-20.152	-22.229	1.00	0.00	C
ATOM	6145	CE2 PHE A 390	40.578	-20.555	-23.763	1.00	0.00	C
ATOM	6146	CZ PHE A 390	41.895	-20.119	-23.531	1.00	0.00	C
ATOM	6147	H PHE A 390	37.923	-23.388	-21.468	1.00	0.00	H
ATOM	6148	HA PHE A 390	40.426	-23.336	-19.846	1.00	0.00	H
ATOM	6149	HB2 PHE A 390	39.809	-21.010	-19.311	1.00	0.00	H
ATOM	6150	HB3 PHE A 390	38.428	-21.123	-20.390	1.00	0.00	H
ATOM	6151	HD1 PHE A 390	42.047	-20.614	-20.160	1.00	0.00	H
ATOM	6152	HD2 PHE A 390	38.773	-21.329	-22.875	1.00	0.00	H
ATOM	6153	HE1 PHE A 390	43.426	-19.777	-22.055	1.00	0.00	H

ATOM	6154	HE2	PHE A 390	40.164	-20.516	-24.761	1.00	0.00	H
ATOM	6155	HZ	PHE A 390	42.493	-19.729	-24.344	1.00	0.00	H
ATOM	6156	N	ALA A 391	39.261	-23.851	-17.708	1.00	0.00	N
ATOM	6157	CA	ALA A 391	38.685	-24.025	-16.378	1.00	0.00	C
ATOM	6158	C	ALA A 391	38.947	-22.784	-15.510	1.00	0.00	C
ATOM	6159	O	ALA A 391	40.084	-22.312	-15.401	1.00	0.00	O
ATOM	6160	CB	ALA A 391	39.237	-25.317	-15.764	1.00	0.00	C
ATOM	6161	H	ALA A 391	40.267	-23.955	-17.799	1.00	0.00	H
ATOM	6162	HA	ALA A 391	37.605	-24.140	-16.470	1.00	0.00	H
ATOM	6163	HB1	ALA A 391	39.054	-26.155	-16.437	1.00	0.00	H
ATOM	6164	HB2	ALA A 391	40.310	-25.225	-15.590	1.00	0.00	H
ATOM	6165	HB3	ALA A 391	38.730	-25.526	-14.822	1.00	0.00	H
ATOM	6166	N	VAL A 392	37.916	-22.295	-14.817	1.00	0.00	N
ATOM	6167	CA	VAL A 392	37.956	-21.059	-14.023	1.00	0.00	C
ATOM	6168	C	VAL A 392	37.325	-21.284	-12.649	1.00	0.00	C
ATOM	6169	O	VAL A 392	36.105	-21.292	-12.494	1.00	0.00	O
ATOM	6170	CB	VAL A 392	37.279	-19.888	-14.772	1.00	0.00	C
ATOM	6171	CG1	VAL A 392	37.432	-18.581	-13.980	1.00	0.00	C
ATOM	6172	CG2	VAL A 392	37.892	-19.675	-16.162	1.00	0.00	C
ATOM	6173	H	VAL A 392	37.002	-22.710	-14.988	1.00	0.00	H
ATOM	6174	HA	VAL A 392	38.995	-20.775	-13.864	1.00	0.00	H
ATOM	6175	HB	VAL A 392	36.218	-20.097	-14.897	1.00	0.00	H
ATOM	6176	HG11	VAL A 392	36.990	-17.764	-14.551	1.00	0.00	H
ATOM	6177	HG12	VAL A 392	36.904	-18.648	-13.029	1.00	0.00	H
ATOM	6178	HG13	VAL A 392	38.486	-18.362	-13.806	1.00	0.00	H
ATOM	6179	HG21	VAL A 392	37.499	-18.765	-16.611	1.00	0.00	H
ATOM	6180	HG22	VAL A 392	37.633	-20.508	-16.817	1.00	0.00	H
ATOM	6181	HG23	VAL A 392	38.974	-19.599	-16.088	1.00	0.00	H
ATOM	6182	N	LYS A 393	38.160	-21.395	-11.612	1.00	0.00	N
ATOM	6183	CA	LYS A 393	37.709	-21.398	-10.214	1.00	0.00	C



ATOM	6184	C	LYS A 393	37.273	-19.984	-9.827	1.00	0.00	C
ATOM	6185	O	LYS A 393	38.136	-19.117	-9.663	1.00	0.00	O
ATOM	6186	CB	LYS A 393	38.837	-21.910	-9.306	1.00	0.00	C
ATOM	6187	CG	LYS A 393	38.355	-22.085	-7.853	1.00	0.00	C
ATOM	6188	CD	LYS A 393	39.455	-21.895	-6.795	1.00	0.00	C
ATOM	6189	CE	LYS A 393	40.248	-20.574	-6.872	1.00	0.00	C
ATOM	6190	NZ	LYS A 393	39.404	-19.388	-7.178	1.00	0.00	N
ATOM	6191	H	LYS A 393	39.150	-21.439	-11.805	1.00	0.00	H
ATOM	6192	HA	LYS A 393	36.852	-22.072	-10.117	1.00	0.00	H
ATOM	6193	HB2	LYS A 393	39.191	-22.870	-9.669	1.00	0.00	H
ATOM	6194	HB3	LYS A 393	39.675	-21.216	-9.365	1.00	0.00	H
ATOM	6195	HG2	LYS A 393	37.931	-23.084	-7.748	1.00	0.00	H
ATOM	6196	HG3	LYS A 393	37.556	-21.382	-7.628	1.00	0.00	H
ATOM	6197	HD2	LYS A 393	38.983	-21.957	-5.813	1.00	0.00	H
ATOM	6198	HD3	LYS A 393	40.157	-22.728	-6.869	1.00	0.00	H
ATOM	6199	HE2	LYS A 393	40.760	-20.434	-5.915	1.00	0.00	H
ATOM	6200	HE3	LYS A 393	41.017	-20.676	-7.642	1.00	0.00	H
ATOM	6201	HZ1	LYS A 393	39.901	-18.520	-7.033	1.00	0.00	H
ATOM	6202	HZ2	LYS A 393	39.105	-19.392	-8.153	1.00	0.00	H
ATOM	6203	HZ3	LYS A 393	38.535	-19.393	-6.650	1.00	0.00	H
ATOM	6204	N	ILE A 394	36.023	-19.817	-9.404	1.00	0.00	N
ATOM	6205	CA	ILE A 394	35.492	-18.542	-8.896	1.00	0.00	C
ATOM	6206	C	ILE A 394	36.154	-18.149	-7.549	1.00	0.00	C
ATOM	6207	O	ILE A 394	36.656	-19.019	-6.823	1.00	0.00	O
ATOM	6208	CB	ILE A 394	33.949	-18.638	-8.842	1.00	0.00	C
ATOM	6209	CG1	ILE A 394	33.322	-18.816	-10.249	1.00	0.00	C
ATOM	6210	CG2	ILE A 394	33.250	-17.485	-8.104	1.00	0.00	C
ATOM	6211	CD1	ILE A 394	33.636	-17.720	-11.281	1.00	0.00	C
ATOM	6212	H	ILE A 394	35.406	-20.624	-9.400	1.00	0.00	H
ATOM	6213	HA	ILE A 394	35.755	-17.783	-9.626	1.00	0.00	H

ATOM	6214	HB	ILE A 394	33.718	-19.534	-8.272	1.00	0.00	H
ATOM	6215	HG12	ILE A 394	33.643	-19.773	-10.665	1.00	0.00	H
ATOM	6216	HG13	ILE A 394	32.238	-18.867	-10.142	1.00	0.00	H
ATOM	6217	HD11	ILE A 394	33.067	-17.913	-12.191	1.00	0.00	H
ATOM	6218	HD12	ILE A 394	34.696	-17.725	-11.536	1.00	0.00	H
ATOM	6219	HD13	ILE A 394	33.355	-16.739	-10.900	1.00	0.00	H
ATOM	6220	HG21	ILE A 394	32.182	-17.693	-8.058	1.00	0.00	H
ATOM	6221	HG22	ILE A 394	33.612	-17.404	-7.081	1.00	0.00	H
ATOM	6222	HG23	ILE A 394	33.394	-16.540	-8.626	1.00	0.00	H
ATOM	6223	N	PRO A 395	36.334	-16.849	-7.234	1.00	0.00	N
ATOM	6224	CA	PRO A 395	37.075	-16.429	-6.043	1.00	0.00	C
ATOM	6225	C	PRO A 395	36.365	-16.782	-4.730	1.00	0.00	C
ATOM	6226	O	PRO A 395	35.196	-16.439	-4.533	1.00	0.00	O
ATOM	6227	CB	PRO A 395	37.263	-14.919	-6.169	1.00	0.00	C
ATOM	6228	CG	PRO A 395	37.105	-14.661	-7.664	1.00	0.00	C
ATOM	6229	CD	PRO A 395	36.057	-15.684	-8.064	1.00	0.00	C
ATOM	6230	HA	PRO A 395	38.059	-16.897	-6.062	1.00	0.00	H
ATOM	6231	HB2	PRO A 395	38.236	-14.613	-5.790	1.00	0.00	H
ATOM	6232	HB3	PRO A 395	36.474	-14.398	-5.633	1.00	0.00	H
ATOM	6233	HG2	PRO A 395	36.766	-13.649	-7.868	1.00	0.00	H
ATOM	6234	HG3	PRO A 395	38.038	-14.874	-8.185	1.00	0.00	H
ATOM	6235	HD2	PRO A 395	36.141	-15.881	-9.132	1.00	0.00	H
ATOM	6236	HD3	PRO A 395	35.067	-15.294	-7.826	1.00	0.00	H
ATOM	6237	N	ALA A 396	37.124	-17.283	-3.752	1.00	0.00	N
ATOM	6238	CA	ALA A 396	36.645	-17.460	-2.380	1.00	0.00	C
ATOM	6239	C	ALA A 396	36.486	-16.114	-1.646	1.00	0.00	C
ATOM	6240	O	ALA A 396	35.415	-15.854	-1.093	1.00	0.00	O
ATOM	6241	CB	ALA A 396	37.609	-18.396	-1.641	1.00	0.00	C
ATOM	6242	H	ALA A 396	38.093	-17.485	-3.943	1.00	0.00	H
ATOM	6243	HA	ALA A 396	35.666	-17.941	-2.410	1.00	0.00	H

ATOM	6244	HB1	ALA	A 396	37.249	-18.563	-0.624	1.00	0.00	H
ATOM	6245	HB2	ALA	A 396	37.660	-19.358	-2.153	1.00	0.00	H
ATOM	6246	HB3	ALA	A 396	38.608	-17.958	-1.594	1.00	0.00	H
ATOM	6247	N	GLN	A 397	37.465	-15.219	-1.819	1.00	0.00	N
ATOM	6248	CA	GLN	A 397	37.532	-13.847	-1.299	1.00	0.00	C
ATOM	6249	C	GLN	A 397	37.956	-12.869	-2.408	1.00	0.00	C
ATOM	6250	O	GLN	A 397	38.484	-13.291	-3.435	1.00	0.00	O
ATOM	6251	CB	GLN	A 397	38.544	-13.777	-0.135	1.00	0.00	C
ATOM	6252	CG	GLN	A 397	38.166	-14.568	1.130	1.00	0.00	C
ATOM	6253	CD	GLN	A 397	37.017	-13.948	1.924	1.00	0.00	C
ATOM	6254	OE1	GLN	A 397	36.179	-13.225	1.415	1.00	0.00	O
ATOM	6255	NE2	GLN	A 397	36.926	-14.213	3.207	1.00	0.00	N
ATOM	6256	H	GLN	A 397	38.251	-15.493	-2.391	1.00	0.00	H
ATOM	6257	HA	GLN	A 397	36.547	-13.538	-0.949	1.00	0.00	H
ATOM	6258	HB2	GLN	A 397	39.505	-14.149	-0.494	1.00	0.00	H
ATOM	6259	HB3	GLN	A 397	38.690	-12.735	0.154	1.00	0.00	H
ATOM	6260	HG2	GLN	A 397	37.911	-15.596	0.877	1.00	0.00	H
ATOM	6261	HG3	GLN	A 397	39.044	-14.599	1.776	1.00	0.00	H
ATOM	6262	HE21	GLN	A 397	37.627	-14.756	3.675	1.00	0.00	H
ATOM	6263	HE22	GLN	A 397	36.191	-13.739	3.704	1.00	0.00	H
ATOM	6264	N	CYS	A 398	37.773	-11.566	-2.191	1.00	0.00	N
ATOM	6265	CA	CYS	A 398	38.160	-10.496	-3.125	1.00	0.00	C
ATOM	6266	C	CYS	A 398	39.632	-10.045	-2.981	1.00	0.00	C
ATOM	6267	O	CYS	A 398	39.888	-8.853	-2.844	1.00	0.00	O
ATOM	6268	CB	CYS	A 398	37.188	-9.321	-2.957	1.00	0.00	C
ATOM	6269	SG	CYS	A 398	35.435	-9.738	-3.106	1.00	0.00	S
ATOM	6270	H	CYS	A 398	37.355	-11.281	-1.317	1.00	0.00	H
ATOM	6271	HA	CYS	A 398	38.051	-10.871	-4.143	1.00	0.00	H
ATOM	6272	HB2	CYS	A 398	37.353	-8.867	-1.979	1.00	0.00	H
ATOM	6273	HB3	CYS	A 398	37.423	-8.565	-3.709	1.00	0.00	H

ATOM	6274	N	SER A 399	40.535	-11.001	-2.749	1.00	0.00	N
ATOM	6275	CA	SER A 399	41.901	-10.772	-2.258	1.00	0.00	C
ATOM	6276	C	SER A 399	42.910	-10.475	-3.391	1.00	0.00	C
ATOM	6277	O	SER A 399	42.968	-9.329	-3.838	1.00	0.00	O
ATOM	6278	CB	SER A 399	42.249	-11.915	-1.295	1.00	0.00	C
ATOM	6279	OG	SER A 399	43.590	-11.928	-0.882	1.00	0.00	O
ATOM	6280	H	SER A 399	40.258	-11.957	-2.913	1.00	0.00	H
ATOM	6281	HA	SER A 399	41.897	-9.868	-1.649	1.00	0.00	H
ATOM	6282	HB2	SER A 399	41.618	-11.821	-0.410	1.00	0.00	H
ATOM	6283	HB3	SER A 399	42.020	-12.870	-1.769	1.00	0.00	H
ATOM	6284	HG	SER A 399	44.012	-12.649	-1.406	1.00	0.00	H
ATOM	6285	N	GLU A 400	43.592	-11.479	-3.961	1.00	0.00	N
ATOM	6286	CA	GLU A 400	44.658	-11.334	-4.988	1.00	0.00	C
ATOM	6287	C	GLU A 400	44.333	-11.947	-6.357	1.00	0.00	C
ATOM	6288	O	GLU A 400	44.817	-11.410	-7.383	1.00	0.00	O
ATOM	6289	CB	GLU A 400	46.039	-11.811	-4.466	1.00	0.00	C
ATOM	6290	CG	GLU A 400	46.127	-12.750	-3.244	1.00	0.00	C
ATOM	6291	CD	GLU A 400	45.187	-13.971	-3.281	1.00	0.00	C
ATOM	6292	OE1	GLU A 400	45.599	-15.037	-3.796	1.00	0.00	O
ATOM	6293	OE2	GLU A 400	44.158	-13.899	-2.558	1.00	0.00	O
ATOM	6294	OXT	GLU A 400	43.919	-13.121	-6.402	1.00	0.00	O
ATOM	6295	H	GLU A 400	43.493	-12.407	-3.555	1.00	0.00	H
ATOM	6296	HA	GLU A 400	44.775	-10.274	-5.207	1.00	0.00	H
ATOM	6297	HB2	GLU A 400	46.570	-12.292	-5.288	1.00	0.00	H
ATOM	6298	HB3	GLU A 400	46.613	-10.916	-4.215	1.00	0.00	H
ATOM	6299	HG2	GLU A 400	45.912	-12.157	-2.351	1.00	0.00	H
ATOM	6300	HG3	GLU A 400	47.163	-13.084	-3.144	1.00	0.00	H
ATOM	6301	HXT	GLU A 400	43.075	-13.195	-5.886	1.00	0.00	H
TER	6302	HXT	GLU A 400						
HETATM	6303	C1	UNK 1	27.871	-20.347	-33.669	1.00	0.00	C

HETATM 6304	C2	UNK	1	28.417	-18.954	-33.794	1.00	0.00	C
HETATM 6305	N3	UNK	1	29.580	-18.802	-34.558	1.00	0.00	N
HETATM 6306	C4	UNK	1	26.589	-20.698	-32.982	1.00	0.00	C
HETATM 6307	N5	UNK	1	26.056	-21.926	-33.283	1.00	0.00	N
HETATM 6308	C6	UNK	1	28.553	-21.356	-34.242	1.00	0.00	C
HETATM 6309	C7	UNK	1	30.136	-17.459	-34.755	1.00	0.00	C
HETATM 6310	C8	UNK	1	29.163	-16.503	-35.457	1.00	0.00	C
HETATM 6311	C9	UNK	1	30.218	-19.882	-35.146	1.00	0.00	C
HETATM 6312	C10	UNK	1	29.405	-13.402	-37.312	1.00	0.00	C
HETATM 6313	C11	UNK	1	28.446	-12.420	-38.033	1.00	0.00	C
HETATM 6314	O12	UNK	1	27.839	-18.008	-33.255	1.00	0.00	O
HETATM 6315	C13	UNK	1	29.756	-21.125	-34.995	1.00	0.00	C
HETATM 6316	O14	UNK	1	26.069	-19.941	-32.164	1.00	0.00	O
HETATM 6317	N15	UNK	1	29.544	-15.177	-35.475	1.00	0.00	N
HETATM 6318	C16	UNK	1	28.729	-14.148	-36.111	1.00	0.00	C
HETATM 6319	C17	UNK	1	27.277	-12.900	-38.661	1.00	0.00	C
HETATM 6320	O18	UNK	1	28.126	-16.901	-35.988	1.00	0.00	O
HETATM 6321	C19	UNK	1	26.407	-12.034	-39.323	1.00	0.00	C
HETATM 6322	C20	UNK	1	24.866	-22.454	-32.635	1.00	0.00	C
HETATM 6323	F21	UNK	1	25.304	-12.522	-39.911	1.00	0.00	F
HETATM 6324	C22	UNK	1	28.694	-11.036	-38.120	1.00	0.00	C
HETATM 6325	C23	UNK	1	27.815	-10.174	-38.786	1.00	0.00	C
HETATM 6326	C24	UNK	1	29.894	-14.470	-38.321	1.00	0.00	C
HETATM 6327	C25	UNK	1	30.621	-12.600	-36.799	1.00	0.00	C
HETATM 6328	C26	UNK	1	26.667	-10.675	-39.388	1.00	0.00	C
HETATM 6329	C27	UNK	1	25.153	-23.835	-32.030	1.00	0.00	C
HETATM 6330	C28	UNK	1	23.703	-22.522	-33.630	1.00	0.00	C
HETATM 6331	C29	UNK	1	23.904	-24.447	-31.403	1.00	0.00	C
HETATM 6332	C30	UNK	1	22.455	-23.134	-32.999	1.00	0.00	C
HETATM 6333	C31	UNK	1	22.746	-24.504	-32.395	1.00	0.00	C

HETATM 6334	H1	UNK	1	26.542	-22.503	-33.970	1.00	0.00	H
HETATM 6335	H2	UNK	1	28.202	-22.383	-34.184	1.00	0.00	H
HETATM 6336	H3	UNK	1	30.373	-17.038	-33.771	1.00	0.00	H
HETATM 6337	H4	UNK	1	31.076	-17.504	-35.314	1.00	0.00	H
HETATM 6338	H5	UNK	1	31.117	-19.685	-35.726	1.00	0.00	H
HETATM 6339	H6	UNK	1	30.261	-21.973	-35.447	1.00	0.00	H
HETATM 6340	H7	UNK	1	30.448	-14.915	-35.098	1.00	0.00	H
HETATM 6341	H8	UNK	1	28.432	-13.429	-35.338	1.00	0.00	H
HETATM 6342	H9	UNK	1	27.818	-14.657	-36.450	1.00	0.00	H
HETATM 6343	H10	UNK	1	27.021	-13.955	-38.658	1.00	0.00	H
HETATM 6344	H11	UNK	1	24.592	-21.768	-31.823	1.00	0.00	H
HETATM 6345	H12	UNK	1	29.579	-10.585	-37.678	1.00	0.00	H
HETATM 6346	H13	UNK	1	28.029	-9.108	-38.843	1.00	0.00	H
HETATM 6347	H14	UNK	1	30.438	-14.030	-39.163	1.00	0.00	H
HETATM 6348	H15	UNK	1	29.049	-15.035	-38.734	1.00	0.00	H
HETATM 6349	H16	UNK	1	30.578	-15.185	-37.852	1.00	0.00	H
HETATM 6350	H17	UNK	1	31.135	-12.067	-37.606	1.00	0.00	H
HETATM 6351	H18	UNK	1	31.369	-13.251	-36.334	1.00	0.00	H
HETATM 6352	H19	UNK	1	30.315	-11.852	-36.058	1.00	0.00	H
HETATM 6353	H20	UNK	1	25.980	-10.018	-39.909	1.00	0.00	H
HETATM 6354	H21	UNK	1	25.538	-24.508	-32.807	1.00	0.00	H
HETATM 6355	H22	UNK	1	25.941	-23.759	-31.270	1.00	0.00	H
HETATM 6356	H23	UNK	1	23.470	-21.517	-34.002	1.00	0.00	H
HETATM 6357	H24	UNK	1	23.994	-23.116	-34.507	1.00	0.00	H
HETATM 6358	H25	UNK	1	24.130	-25.457	-31.042	1.00	0.00	H
HETATM 6359	H26	UNK	1	23.607	-23.854	-30.529	1.00	0.00	H
HETATM 6360	H27	UNK	1	22.075	-22.464	-32.218	1.00	0.00	H
HETATM 6361	H28	UNK	1	21.666	-23.224	-33.754	1.00	0.00	H
HETATM 6362	H29	UNK	1	22.987	-25.213	-33.197	1.00	0.00	H
HETATM 6363	H30	UNK	1	21.849	-24.884	-31.892	1.00	0.00	H

TER 6364 H30 UNK 1

CONNECT 27 6269

CONNECT 335 693

CONNECT 693 335

CONNECT 1346 1552

CONNECT 1552 1346

CONNECT 2844 3048

CONNECT 2923 4674

CONNECT 3048 2844

CONNECT 4576 4729

CONNECT 4674 2923

CONNECT 4729 4576

CONNECT 5685 5841

CONNECT 5841 5685

CONNECT 6269 27

CONNECT 6303 6304 6306 6308

CONNECT 6304 6303 6305 6314

CONNECT 6305 6304 6309 6311

CONNECT 6306 6303 6307 6316

CONNECT 6307 6306 6322 6334

CONNECT 6308 6303 6315 6335

CONNECT 6309 6305 6310 6336 6337

CONNECT 6310 6309 6317 6320

CONNECT 6311 6305 6315 6338

CONNECT 6312 6313 6318 6326 6327

CONNECT 6313 6312 6319 6324

CONNECT 6314 6304

CONNECT 6315 6308 6311 6339

CONNECT 6316 6306

CONNECT 6317 6310 6318 6340

CONNECT 6318 6312 6317 6341 6342

CONNECT 6319 6313 6321 6343

CONNECT 6320 6310

CONNECT 6321 6319 6323 6328

CONNECT 6322 6307 6329 6330 6344

CONNECT 6323 6321

CONNECT 6324 6313 6325 6345

CONNECT 6325 6324 6328 6346

CONNECT 6326 6312 6347 6348 6349

CONNECT 6327 6312 6350 6351 6352

CONNECT 6328 6321 6325 6353

CONNECT 6329 6322 6331 6354 6355

CONNECT 6330 6322 6332 6356 6357

CONNECT 6331 6329 6333 6358 6359

CONNECT 6332 6330 6333 6360 6361

CONNECT 6333 6331 6332 6362 6363

CONNECT 6334 6307

CONNECT 6335 6308

CONNECT 6336 6309

CONNECT 6337 6309

CONNECT 6338 6311

CONNECT 6339 6315

CONNECT 6340 6317

CONNECT 6341 6318

CONNECT 6342 6318

CONNECT 6343 6319

CONNECT 6344 6322

CONNECT 6345 6324

CONNECT 6346 6325

CONNECT 6347 6326



CONECT 6348 6326  
 CONECT 6349 6326  
 CONECT 6350 6327  
 CONECT 6351 6327  
 CONECT 6352 6327  
 CONECT 6353 6328  
 CONECT 6354 6329  
 CONECT 6355 6329  
 CONECT 6356 6330  
 CONECT 6357 6330  
 CONECT 6358 6331  
 CONECT 6359 6331  
 CONECT 6360 6332  
 CONECT 6361 6332  
 CONECT 6362 6333  
 CONECT 6363 6333  
 MASTER    0   0   0   0   0   0   0   0   3 6362   2   75   0  
 END

**Top1-combine-coordinates**

ATOM	1	N	ILE A 188	32.653	-16.268	-1.319	1.00	51.04	N1+
ATOM	2	CA	ILE A 188	32.633	-15.941	-2.763	1.00	51.24	C
ATOM	3	C	ILE A 188	32.837	-14.441	-2.909	1.00	51.38	C
ATOM	4	O	ILE A 188	32.290	-13.705	-2.093	1.00	51.55	O
ATOM	5	CB	ILE A 188	31.347	-16.438	-3.468	1.00	51.49	C
ATOM	6	CG1	ILE A 188	31.341	-16.009	-4.953	1.00	51.69	C
ATOM	7	CG2	ILE A 188	30.059	-15.978	-2.757	1.00	51.70	C
ATOM	8	CD1	ILE A 188	30.325	-16.768	-5.817	1.00	51.91	C
ATOM	9	1HD1	ILE A 188	30.382	-16.410	-6.845	1.00	0.00	H

ATOM	10	2HD1 ILE A 188	29.320	-16.600	-5.430	1.00	0.00	H
ATOM	11	HT1 ILE A 188	32.449	-17.244	-1.163	1.00	0.00	H
ATOM	12	HT2 ILE A 188	31.970	-15.687	-0.848	1.00	0.00	H
ATOM	13	HT3 ILE A 188	33.568	-16.041	-0.940	1.00	0.00	H
ATOM	14	HA ILE A 188	33.483	-16.440	-3.229	1.00	51.50	H
ATOM	15	HB ILE A 188	31.362	-17.528	-3.443	1.00	51.50	H
ATOM	16	1HG1 ILE A 188	31.106	-14.946	-5.002	1.00	51.50	H
ATOM	17	2HG1 ILE A 188	32.336	-16.181	-5.363	1.00	51.50	H
ATOM	18	1HG2 ILE A 188	29.191	-16.356	-3.296	1.00	51.50	H
ATOM	19	2HG2 ILE A 188	30.025	-14.889	-2.734	1.00	51.50	H
ATOM	20	3HG2 ILE A 188	30.049	-16.363	-1.737	1.00	51.50	H
ATOM	21	3HD1 ILE A 188	30.550	-17.834	-5.791	1.00	51.50	H
ATOM	22	N CYS A 189	33.675	-13.977	-3.840	1.00	23.07	N
ATOM	23	CA CYS A 189	33.809	-12.535	-4.055	1.00	23.21	C
ATOM	24	C CYS A 189	32.574	-11.948	-4.761	1.00	23.54	C
ATOM	25	O CYS A 189	32.343	-12.226	-5.937	1.00	23.69	O
ATOM	26	CB CYS A 189	35.092	-12.191	-4.815	1.00	23.15	C
ATOM	27	SG CYS A 189	35.277	-10.404	-5.017	1.00	23.21	S
ATOM	28	HN CYS A 189	34.138	-14.619	-4.473	1.00	0.00	H
ATOM	29	HA CYS A 189	33.877	-12.065	-3.074	1.00	23.31	H
ATOM	30	HB1 CYS A 189	35.947	-12.576	-4.260	1.00	23.31	H
ATOM	31	HB2 CYS A 189	35.057	-12.658	-5.799	1.00	23.31	H
ATOM	32	N LEU A 190	31.841	-11.084	-4.056	1.00	50.65	N
ATOM	33	CA LEU A 190	30.699	-10.317	-4.576	1.00	50.98	C
ATOM	34	C LEU A 190	31.032	-8.834	-4.838	1.00	51.13	C
ATOM	35	O LEU A 190	30.234	-8.131	-5.451	1.00	51.41	O
ATOM	36	CB LEU A 190	29.536	-10.434	-3.572	1.00	51.07	C

ATOM	37	CG	LEU	A	190	29.029	-11.868	-3.324	1.00	51.02	C
ATOM	38	CD1	LEU	A	190	28.068	-11.866	-2.138	1.00	51.16	C
ATOM	39	CD2	LEU	A	190	28.323	-12.447	-4.551	1.00	51.19	C
ATOM	40	HN	LEU	A	190	32.062	-10.971	-3.078	1.00	0.00	H
ATOM	41	HA	LEU	A	190	30.385	-10.768	-5.517	1.00	51.08	H
ATOM	42	HB1	LEU	A	190	29.870	-10.024	-2.619	1.00	51.08	H
ATOM	43	HB2	LEU	A	190	28.703	-9.842	-3.950	1.00	51.08	H
ATOM	44	HG	LEU	A	190	29.882	-12.502	-3.081	1.00	51.08	H
ATOM	45	1HD1	LEU	A	190	27.708	-12.879	-1.960	1.00	51.08	H
ATOM	46	2HD1	LEU	A	190	27.223	-11.213	-2.356	1.00	51.08	H
ATOM	47	3HD1	LEU	A	190	28.587	-11.504	-1.250	1.00	51.08	H
ATOM	48	1HD2	LEU	A	190	27.982	-13.459	-4.331	1.00	51.08	H
ATOM	49	2HD2	LEU	A	190	29.017	-12.472	-5.392	1.00	51.08	H
ATOM	50	3HD2	LEU	A	190	27.466	-11.823	-4.806	1.00	51.08	H
ATOM	51	N	GLN	A	191	32.174	-8.356	-4.332	1.00	23.97	N
ATOM	52	CA	GLN	A	191	32.625	-6.966	-4.438	1.00	24.11	C
ATOM	53	C	GLN	A	191	33.318	-6.704	-5.783	1.00	24.14	C
ATOM	54	O	GLN	A	191	34.098	-7.532	-6.258	1.00	23.95	O
ATOM	55	CB	GLN	A	191	33.568	-6.659	-3.256	1.00	23.92	C
ATOM	56	CG	GLN	A	191	33.907	-5.174	-3.041	1.00	24.14	C
ATOM	57	CD	GLN	A	191	32.715	-4.319	-2.625	1.00	24.38	C
ATOM	58	OE1	GLN	A	191	31.658	-4.797	-2.257	1.00	24.39	O
ATOM	59	NE2	GLN	A	191	32.833	-3.013	-2.682	1.00	24.59	N
ATOM	60	HN	GLN	A	191	32.809	-9.008	-3.905	1.00	0.00	H
ATOM	61	1HE2	GLN	A	191	33.685	-2.587	-2.999	1.00	0.00	H
ATOM	62	2HE2	GLN	A	191	32.019	-2.489	-2.414	1.00	0.00	H
ATOM	63	HA	GLN	A	191	31.755	-6.314	-4.365	1.00	24.18	H

ATOM	64	HB1 GLN A 191	33.096	-7.030	-2.346	1.00	24.18	H
ATOM	65	HB2 GLN A 191	34.502	-7.194	-3.425	1.00	24.18	H
ATOM	66	HG1 GLN A 191	34.666	-5.105	-2.262	1.00	24.18	H
ATOM	67	HG2 GLN A 191	34.306	-4.775	-3.974	1.00	24.18	H
ATOM	68	N LYS A 192	33.179	-5.485	-6.311	1.00	24.41	N
ATOM	69	CA LYS A 192	33.993	-4.990	-7.427	1.00	24.45	C
ATOM	70	C LYS A 192	35.463	-4.805	-7.021	1.00	24.22	C
ATOM	71	O LYS A 192	35.744	-4.157	-6.016	1.00	24.15	O
ATOM	72	CB LYS A 192	33.343	-3.703	-7.956	1.00	24.77	C
ATOM	73	CG LYS A 192	34.110	-3.120	-9.144	1.00	24.86	C
ATOM	74	CD LYS A 192	33.252	-2.138	-9.952	1.00	25.21	C
ATOM	75	CE LYS A 192	34.025	-1.589	-11.158	1.00	25.32	C
ATOM	76	NZ LYS A 192	34.494	-2.678	-12.052	1.00	25.19	N1+
ATOM	77	HN LYS A 192	32.506	-4.854	-5.897	1.00	0.00	H
ATOM	78	HZ1 LYS A 192	34.932	-2.323	-12.889	1.00	0.00	H
ATOM	79	HZ2 LYS A 192	35.137	-3.292	-11.566	1.00	0.00	H
ATOM	80	HZ3 LYS A 192	33.708	-3.272	-12.317	1.00	0.00	H
ATOM	81	HA LYS A 192	33.957	-5.734	-8.223	1.00	24.73	H
ATOM	82	HB1 LYS A 192	32.324	-3.927	-8.271	1.00	24.73	H
ATOM	83	HB2 LYS A 192	33.322	-2.965	-7.155	1.00	24.73	H
ATOM	84	HG1 LYS A 192	34.990	-2.595	-8.772	1.00	24.73	H
ATOM	85	HG2 LYS A 192	34.421	-3.935	-9.797	1.00	24.73	H
ATOM	86	HD1 LYS A 192	32.360	-2.654	-10.307	1.00	24.73	H
ATOM	87	HD2 LYS A 192	32.961	-1.308	-9.309	1.00	24.73	H
ATOM	88	HE1 LYS A 192	33.372	-0.925	-11.724	1.00	24.73	H
ATOM	89	HE2 LYS A 192	34.889	-1.030	-10.799	1.00	24.73	H
ATOM	90	N THR A 193	36.402	-5.279	-7.844	1.00	27.90	N

ATOM	91	CA	THR A 193	37.856	-5.126	-7.630	1.00	27.72	C
ATOM	92	C	THR A 193	38.646	-5.237	-8.944	1.00	27.67	C
ATOM	93	O	THR A 193	38.110	-5.652	-9.971	1.00	27.64	O
ATOM	94	CB	THR A 193	38.375	-6.122	-6.569	1.00	27.43	C
ATOM	95	OG1	THR A 193	39.738	-5.865	-6.316	1.00	27.25	O
ATOM	96	CG2	THR A 193	38.269	-7.592	-6.974	1.00	27.28	C
ATOM	97	HN	THR A 193	36.107	-5.742	-8.700	1.00	0.00	H
ATOM	98	HG1	THR A 193	40.069	-6.475	-5.641	1.00	0.00	H
ATOM	99	HA	THR A 193	38.021	-4.122	-7.238	1.00	27.56	H
ATOM	100	HB	THR A 193	37.814	-5.973	-5.646	1.00	27.56	H
ATOM	101	1HG2	THR A 193	38.656	-8.219	-6.171	1.00	27.56	H
ATOM	102	2HG2	THR A 193	38.851	-7.763	-7.880	1.00	27.56	H
ATOM	103	3HG2	THR A 193	37.225	-7.844	-7.160	1.00	27.56	H
ATOM	104	N	THR A 194	39.918	-4.835	-8.924	1.00	23.90	N
ATOM	105	CA	THR A 194	40.904	-5.065	-9.996	1.00	23.87	C
ATOM	106	C	THR A 194	41.966	-6.108	-9.622	1.00	23.58	C
ATOM	107	O	THR A 194	42.909	-6.306	-10.383	1.00	23.54	O
ATOM	108	CB	THR A 194	41.565	-3.750	-10.439	1.00	24.10	C
ATOM	109	OG1	THR A 194	42.236	-3.148	-9.357	1.00	24.17	O
ATOM	110	CG2	THR A 194	40.543	-2.746	-10.975	1.00	24.37	C
ATOM	111	HN	THR A 194	40.283	-4.513	-8.035	1.00	0.00	H
ATOM	112	HG1	THR A 194	43.081	-3.597	-9.254	1.00	0.00	H
ATOM	113	HA	THR A 194	40.359	-5.456	-10.855	1.00	23.93	H
ATOM	114	HB	THR A 194	42.289	-3.968	-11.224	1.00	23.93	H
ATOM	115	1HG2	THR A 194	41.054	-1.832	-11.276	1.00	23.93	H
ATOM	116	2HG2	THR A 194	39.816	-2.515	-10.196	1.00	23.93	H
ATOM	117	3HG2	THR A 194	40.029	-3.174	-11.835	1.00	23.93	H

ATOM	118	N	SER A 195	41.831	-6.792	-8.479	1.00	23.39	N
ATOM	119	CA	SER A 195	42.647	-7.967	-8.139	1.00	23.10	C
ATOM	120	C	SER A 195	42.491	-9.069	-9.196	1.00	23.09	C
ATOM	121	O	SER A 195	41.382	-9.338	-9.659	1.00	23.24	O
ATOM	122	CB	SER A 195	42.241	-8.541	-6.780	1.00	22.92	C
ATOM	123	OG	SER A 195	42.255	-7.570	-5.754	1.00	22.92	O
ATOM	124	HN	SER A 195	41.086	-6.545	-7.842	1.00	0.00	H
ATOM	125	HG	SER A 195	42.543	-8.039	-4.942	1.00	0.00	H
ATOM	126	HA	SER A 195	43.694	-7.667	-8.095	1.00	23.11	H
ATOM	127	HB1	SER A 195	41.234	-8.949	-6.860	1.00	23.11	H
ATOM	128	HB2	SER A 195	42.936	-9.338	-6.516	1.00	23.11	H
ATOM	129	N	THR A 196	43.545	-9.851	-9.436	1.00	41.71	N
ATOM	130	CA	THR A 196	43.582	-10.945	-10.433	1.00	41.69	C
ATOM	131	C	THR A 196	42.945	-12.254	-9.931	1.00	41.49	C
ATOM	132	O	THR A 196	43.398	-13.354	-10.246	1.00	41.34	O
ATOM	133	CB	THR A 196	45.010	-11.166	-10.966	1.00	41.65	C
ATOM	134	OG1	THR A 196	45.888	-11.607	-9.943	1.00	41.41	O
ATOM	135	CG2	THR A 196	45.594	-9.902	-11.599	1.00	41.87	C
ATOM	136	HN	THR A 196	44.358	-9.740	-8.843	1.00	0.00	H
ATOM	137	HG1	THR A 196	45.580	-11.264	-9.081	1.00	0.00	H
ATOM	138	HA	THR A 196	42.982	-10.613	-11.280	1.00	41.59	H
ATOM	139	HB	THR A 196	44.969	-11.940	-11.733	1.00	41.59	H
ATOM	140	1HG2	THR A 196	46.602	-10.108	-11.960	1.00	41.59	H
ATOM	141	2HG2	THR A 196	45.631	-9.106	-10.855	1.00	41.59	H
ATOM	142	3HG2	THR A 196	44.966	-9.590	-12.434	1.00	41.59	H
ATOM	143	N	ILE A 197	41.897	-12.159	-9.110	1.00	23.24	N
ATOM	144	CA	ILE A 197	41.276	-13.273	-8.367	1.00	23.08	C

ATOM	145	C	ILE A 197	40.673	-14.378	-9.256	1.00	23.12	C
ATOM	146	O	ILE A 197	40.500	-15.519	-8.812	1.00	22.96	O
ATOM	147	CB	ILE A 197	40.227	-12.716	-7.379	1.00	23.15	C
ATOM	148	CG1	ILE A 197	39.159	-11.831	-8.065	1.00	23.43	C
ATOM	149	CG2	ILE A 197	40.916	-12.004	-6.207	1.00	23.15	C
ATOM	150	CD1	ILE A 197	38.103	-11.279	-7.101	1.00	23.57	C
ATOM	151	HN	ILE A 197	41.583	-11.220	-8.901	1.00	0.00	H
ATOM	152	1HG2	ILE A 197	40.162	-11.618	-5.521	1.00	0.00	H
ATOM	153	2HG2	ILE A 197	41.518	-11.178	-6.586	1.00	0.00	H
ATOM	154	HA	ILE A 197	42.062	-13.736	-7.771	1.00	23.21	H
ATOM	155	HB	ILE A 197	39.702	-13.575	-6.960	1.00	23.21	H
ATOM	156	1HG1	ILE A 197	39.663	-10.990	-8.541	1.00	23.21	H
ATOM	157	2HG1	ILE A 197	38.653	-12.428	-8.824	1.00	23.21	H
ATOM	158	3HG2	ILE A 197	41.559	-12.709	-5.680	1.00	23.21	H
ATOM	159	1HD1	ILE A 197	37.389	-10.669	-7.654	1.00	23.21	H
ATOM	160	2HD1	ILE A 197	38.589	-10.669	-6.340	1.00	23.21	H
ATOM	161	3HD1	ILE A 197	37.579	-12.107	-6.623	1.00	23.21	H
ATOM	162	N	LEU A 198	40.408	-14.076	-10.529	1.00	22.85	N
ATOM	163	CA	LEU A 198	40.169	-15.065	-11.579	1.00	22.95	C
ATOM	164	C	LEU A 198	41.512	-15.603	-12.095	1.00	22.89	C
ATOM	165	O	LEU A 198	42.148	-14.989	-12.945	1.00	22.95	O
ATOM	166	CB	LEU A 198	39.368	-14.411	-12.718	1.00	23.21	C
ATOM	167	CG	LEU A 198	37.928	-14.021	-12.357	1.00	23.35	C
ATOM	168	CD1	LEU A 198	37.405	-13.062	-13.424	1.00	23.59	C
ATOM	169	CD2	LEU A 198	37.012	-15.243	-12.273	1.00	23.40	C
ATOM	170	HN	LEU A 198	40.670	-13.148	-10.830	1.00	0.00	H
ATOM	171	HA	LEU A 198	39.590	-15.891	-11.165	1.00	23.15	H

ATOM	172	HB1 LEU A 198	39.895	-13.509	-13.027	1.00	23.15	H
ATOM	173	HB2 LEU A 198	39.329	-15.113	-13.551	1.00	23.15	H
ATOM	174	HG LEU A 198	37.930	-13.512	-11.393	1.00	23.15	H
ATOM	175	1HD1 LEU A 198	36.382	-12.774	-13.184	1.00	23.15	H
ATOM	176	2HD1 LEU A 198	37.425	-13.554	-14.396	1.00	23.15	H
ATOM	177	3HD1 LEU A 198	38.035	-12.173	-13.454	1.00	23.15	H
ATOM	178	1HD2 LEU A 198	36.002	-14.924	-12.015	1.00	23.15	H
ATOM	179	2HD2 LEU A 198	37.384	-15.924	-11.508	1.00	23.15	H
ATOM	180	3HD2 LEU A 198	36.997	-15.753	-13.236	1.00	23.15	H
ATOM	181	N LYS A 199	41.921	-16.783	-11.613	1.00	22.81	N
ATOM	182	CA LYS A 199	43.184	-17.445	-11.998	1.00	22.73	C
ATOM	183	C LYS A 199	42.898	-18.715	-12.827	1.00	22.86	C
ATOM	184	O LYS A 199	42.656	-19.768	-12.220	1.00	22.78	O
ATOM	185	CB LYS A 199	44.060	-17.686	-10.749	1.00	22.47	C
ATOM	186	CG LYS A 199	44.320	-16.380	-9.971	1.00	22.32	C
ATOM	187	CD LYS A 199	45.403	-16.508	-8.886	1.00	22.05	C
ATOM	188	CE LYS A 199	45.335	-15.373	-7.849	1.00	21.96	C
ATOM	189	NZ LYS A 199	45.433	-14.022	-8.445	1.00	22.09	N1+
ATOM	190	HN LYS A 199	41.367	-17.191	-10.876	1.00	0.00	H
ATOM	191	HZ1 LYS A 199	45.122	-13.338	-7.743	1.00	0.00	H
ATOM	192	HZ2 LYS A 199	46.353	-13.750	-8.749	1.00	0.00	H
ATOM	193	HZ3 LYS A 199	44.777	-13.890	-9.207	1.00	0.00	H
ATOM	194	HA LYS A 199	43.726	-16.754	-12.644	1.00	22.45	H
ATOM	195	HB1 LYS A 199	43.552	-18.392	-10.093	1.00	22.45	H
ATOM	196	HB2 LYS A 199	45.016	-18.105	-11.064	1.00	22.45	H
ATOM	197	HG1 LYS A 199	44.634	-15.614	-10.681	1.00	22.45	H
ATOM	198	HG2 LYS A 199	43.389	-16.074	-9.493	1.00	22.45	H



ATOM	199	HD1 LYS A 199	45.271	-17.460	-8.371	1.00	22.45	H
ATOM	200	HD2 LYS A 199	46.382	-16.486	-9.365	1.00	22.45	H
ATOM	201	HE1 LYS A 199	44.386	-15.448	-7.318	1.00	22.45	H
ATOM	202	HE2 LYS A 199	46.157	-15.500	-7.145	1.00	22.45	H
ATOM	203	N PRO A 200	42.721	-18.603	-14.161	1.00	46.45	N
ATOM	204	CA PRO A 200	42.211	-19.673	-15.031	1.00	46.62	C
ATOM	205	C PRO A 200	43.206	-20.839	-15.209	1.00	46.57	C
ATOM	206	O PRO A 200	44.264	-20.883	-14.575	1.00	46.50	O
ATOM	207	CB PRO A 200	41.911	-18.964	-16.367	1.00	46.83	C
ATOM	208	CG PRO A 200	42.965	-17.865	-16.425	1.00	46.78	C
ATOM	209	CD PRO A 200	43.019	-17.421	-14.967	1.00	46.57	C
ATOM	210	HA PRO A 200	41.280	-20.058	-14.615	1.00	46.62	H
ATOM	211	HB1 PRO A 200	42.017	-19.651	-17.206	1.00	46.62	H
ATOM	212	HB2 PRO A 200	40.906	-18.542	-16.368	1.00	46.62	H
ATOM	213	HG1 PRO A 200	43.927	-18.253	-16.759	1.00	46.62	H
ATOM	214	HG2 PRO A 200	42.655	-17.050	-17.078	1.00	46.62	H
ATOM	215	HD1 PRO A 200	44.012	-17.042	-14.726	1.00	46.62	H
ATOM	216	HD2 PRO A 200	42.278	-16.643	-14.783	1.00	46.62	H
ATOM	217	N ARG A 201	42.864	-21.803	-16.072	1.00	32.66	N
ATOM	218	CA ARG A 201	43.782	-22.766	-16.709	1.00	32.66	C
ATOM	219	C ARG A 201	43.226	-23.218	-18.056	1.00	32.93	C
ATOM	220	O ARG A 201	42.065	-23.608	-18.128	1.00	33.05	O
ATOM	221	CB ARG A 201	44.004	-23.992	-15.797	1.00	32.48	C
ATOM	222	CG ARG A 201	45.385	-23.988	-15.114	1.00	32.20	C
ATOM	223	CD ARG A 201	45.286	-24.303	-13.619	1.00	32.00	C
ATOM	224	NE ARG A 201	44.661	-23.182	-12.895	1.00	31.86	N
ATOM	225	CZ ARG A 201	44.368	-23.138	-11.612	1.00	31.60	C

ATOM	226	NH1 ARG A 201	44.608	-24.144	-10.816	1.00	31.41	N
ATOM	227	NH2 ARG A 201	43.820	-22.076	-11.098	1.00	31.54	N
ATOM	228	HN ARG A 201	41.900	-21.808	-16.395	1.00	0.00	H
ATOM	229	HE ARG A 201	44.493	-22.336	-13.437	1.00	0.00	H
ATOM	230	1HH1 ARG A 201	45.012	-24.978	-11.206	1.00	0.00	H
ATOM	231	2HH1 ARG A 201	44.381	-24.111	-9.841	1.00	0.00	H
ATOM	232	1HH2 ARG A 201	43.557	-21.300	-11.706	1.00	0.00	H
ATOM	233	2HH2 ARG A 201	43.639	-22.022	-10.120	1.00	0.00	H
ATOM	234	HA ARG A 201	44.742	-22.276	-16.874	1.00	32.22	H
ATOM	235	HB1 ARG A 201	43.234	-23.995	-15.025	1.00	32.22	H
ATOM	236	HB2 ARG A 201	43.917	-24.895	-16.401	1.00	32.22	H
ATOM	237	HG1 ARG A 201	46.015	-24.739	-15.591	1.00	32.22	H
ATOM	238	HG2 ARG A 201	45.835	-23.003	-15.237	1.00	32.22	H
ATOM	239	HD1 ARG A 201	44.682	-25.200	-13.481	1.00	32.22	H
ATOM	240	HD2 ARG A 201	46.287	-24.473	-13.221	1.00	32.22	H
ATOM	241	N LEU A 202	44.095	-23.335	-19.059	1.00	23.67	N
ATOM	242	CA LEU A 202	43.834	-24.121	-20.266	1.00	23.95	C
ATOM	243	C LEU A 202	43.808	-25.615	-19.898	1.00	24.04	C
ATOM	244	O LEU A 202	44.800	-26.138	-19.397	1.00	23.97	O
ATOM	245	CB LEU A 202	44.930	-23.783	-21.300	1.00	24.03	C
ATOM	246	CG LEU A 202	44.926	-24.630	-22.587	1.00	24.32	C
ATOM	247	CD1 LEU A 202	43.662	-24.422	-23.420	1.00	24.44	C
ATOM	248	CD2 LEU A 202	46.127	-24.262	-23.455	1.00	24.39	C
ATOM	249	HN LEU A 202	45.047	-23.052	-18.898	1.00	0.00	H
ATOM	250	HA LEU A 202	42.863	-23.838	-20.672	1.00	24.10	H
ATOM	251	HB1 LEU A 202	44.807	-22.739	-21.587	1.00	24.10	H
ATOM	252	HB2 LEU A 202	45.898	-23.916	-20.816	1.00	24.10	H

ATOM	253	HG	LEU A 202	44.998	-25.683	-22.315	1.00	24.10	H
ATOM	254	1HD1	LEU A 202	43.710	-25.042	-24.315	1.00	24.10	H
ATOM	255	2HD1	LEU A 202	43.585	-23.374	-23.708	1.00	24.10	H
ATOM	256	3HD1	LEU A 202	42.788	-24.702	-22.832	1.00	24.10	H
ATOM	257	1HD2	LEU A 202	46.118	-24.865	-24.363	1.00	24.10	H
ATOM	258	2HD2	LEU A 202	47.047	-24.452	-22.903	1.00	24.10	H
ATOM	259	3HD2	LEU A 202	46.075	-23.206	-23.720	1.00	24.10	H
ATOM	260	N	ILE A 203	42.720	-26.314	-20.227	1.00	41.12	N
ATOM	261	CA	ILE A 203	42.558	-27.771	-20.036	1.00	41.21	C
ATOM	262	C	ILE A 203	42.485	-28.521	-21.382	1.00	41.54	C
ATOM	263	O	ILE A 203	41.862	-29.575	-21.499	1.00	41.69	O
ATOM	264	CB	ILE A 203	41.384	-28.092	-19.078	1.00	41.12	C
ATOM	265	CG1	ILE A 203	40.023	-27.655	-19.658	1.00	41.28	C
ATOM	266	CG2	ILE A 203	41.614	-27.485	-17.683	1.00	40.79	C
ATOM	267	CD1	ILE A 203	38.851	-28.479	-19.122	1.00	41.28	C
ATOM	268	HN	ILE A 203	41.935	-25.803	-20.624	1.00	0.00	H
ATOM	269	HA	ILE A 203	43.464	-28.118	-19.539	1.00	41.25	H
ATOM	270	HB	ILE A 203	41.352	-29.175	-18.958	1.00	41.25	H
ATOM	271	1HG1	ILE A 203	39.857	-26.608	-19.403	1.00	41.25	H
ATOM	272	2HG1	ILE A 203	40.057	-27.764	-20.742	1.00	41.25	H
ATOM	273	1HG2	ILE A 203	40.771	-27.730	-17.036	1.00	41.25	H
ATOM	274	2HG2	ILE A 203	41.704	-26.402	-17.768	1.00	41.25	H
ATOM	275	3HG2	ILE A 203	42.530	-27.893	-17.255	1.00	41.25	H
ATOM	276	1HD1	ILE A 203	37.922	-28.123	-19.568	1.00	41.25	H
ATOM	277	2HD1	ILE A 203	38.797	-28.373	-18.038	1.00	41.25	H
ATOM	278	3HD1	ILE A 203	38.997	-29.529	-19.378	1.00	41.25	H
ATOM	279	N	SER A 204	43.075	-27.945	-22.436	1.00	45.79	N

ATOM	280	CA	SER A 204	42.951	-28.358	-23.845	1.00	46.10	C
ATOM	281	C	SER A 204	41.503	-28.349	-24.342	1.00	46.35	C
ATOM	282	O	SER A 204	41.101	-27.443	-25.079	1.00	46.59	O
ATOM	283	CB	SER A 204	43.609	-29.722	-24.096	1.00	46.13	C
ATOM	284	OG	SER A 204	42.722	-30.771	-23.762	1.00	46.07	O
ATOM	285	HN	SER A 204	43.557	-27.078	-22.251	1.00	0.00	H
ATOM	286	HG	SER A 204	42.459	-30.658	-22.829	1.00	0.00	H
ATOM	287	HA	SER A 204	43.497	-27.626	-24.441	1.00	46.17	H
ATOM	288	HC	SER A 204	40.823	-29.147	-24.044	1.00	46.17	H
ATOM	289	HB1	SER A 204	43.877	-29.802	-25.149	1.00	46.17	H
ATOM	290	HB2	SER A 204	44.507	-29.804	-23.484	1.00	46.17	H
ATOM	291	N	GLU A 213	47.851	-30.099	-40.412	1.00	28.22	N
ATOM	292	CA	GLU A 213	47.876	-29.395	-41.698	1.00	28.20	C
ATOM	293	C	GLU A 213	46.934	-28.166	-41.645	1.00	28.01	C
ATOM	294	O	GLU A 213	46.824	-27.560	-40.580	1.00	27.70	O
ATOM	295	CB	GLU A 213	47.623	-30.413	-42.828	1.00	28.58	C
ATOM	296	CG	GLU A 213	48.077	-29.927	-44.223	1.00	28.63	C
ATOM	297	CD	GLU A 213	46.945	-29.883	-45.261	1.00	28.79	C
ATOM	298	OE1	GLU A 213	45.826	-29.477	-44.874	1.00	29.02	O
ATOM	299	OE2	GLU A 213	47.247	-30.082	-46.457	1.00	28.69	O
ATOM	300	HN1	GLU A 213	46.854	-30.428	-40.204	1.00	0.00	H
ATOM	301	HN2	GLU A 213	48.177	-29.438	-39.636	1.00	28.43	H
ATOM	302	HA	GLU A 213	48.888	-29.015	-41.833	1.00	28.43	H
ATOM	303	HB1	GLU A 213	48.164	-31.329	-42.591	1.00	28.43	H
ATOM	304	HB2	GLU A 213	46.554	-30.622	-42.869	1.00	28.43	H
ATOM	305	HG1	GLU A 213	48.489	-28.923	-44.120	1.00	28.43	H
ATOM	306	HG2	GLU A 213	48.851	-30.602	-44.587	1.00	28.43	H

ATOM	307	N	GLY A 214	46.355	-27.704	-42.759	1.00	28.20	N
ATOM	308	CA	GLY A 214	45.509	-26.507	-42.815	1.00	28.08	C
ATOM	309	C	GLY A 214	44.053	-26.823	-42.474	1.00	28.09	C
ATOM	310	O	GLY A 214	43.267	-27.200	-43.347	1.00	28.25	O
ATOM	311	HN	GLY A 214	46.346	-28.301	-43.586	1.00	0.00	H
ATOM	312	HA1	GLY A 214	45.887	-25.775	-42.102	1.00	28.15	H
ATOM	313	HA2	GLY A 214	45.553	-26.091	-43.822	1.00	28.15	H
ATOM	314	N	VAL A 215	43.654	-26.625	-41.217	1.00	27.92	N
ATOM	315	CA	VAL A 215	42.374	-27.122	-40.678	1.00	27.94	C
ATOM	316	C	VAL A 215	41.659	-26.060	-39.842	1.00	27.61	C
ATOM	317	O	VAL A 215	42.298	-25.317	-39.104	1.00	27.38	O
ATOM	318	CB	VAL A 215	42.613	-28.437	-39.896	1.00	28.10	C
ATOM	319	CG1	VAL A 215	41.448	-28.895	-39.004	1.00	27.94	C
ATOM	320	CG2	VAL A 215	42.909	-29.592	-40.866	1.00	28.50	C
ATOM	321	HN	VAL A 215	44.332	-26.237	-40.561	1.00	0.00	H
ATOM	322	HA	VAL A 215	41.731	-27.358	-41.526	1.00	27.91	H
ATOM	323	HB	VAL A 215	43.488	-28.297	-39.262	1.00	27.91	H
ATOM	324	1HG1	VAL A 215	41.718	-29.824	-38.502	1.00	27.91	H
ATOM	325	2HG1	VAL A 215	40.562	-29.058	-39.618	1.00	27.91	H
ATOM	326	3HG1	VAL A 215	41.237	-28.128	-38.259	1.00	27.91	H
ATOM	327	1HG2	VAL A 215	43.075	-30.509	-40.300	1.00	27.91	H
ATOM	328	2HG2	VAL A 215	43.801	-29.359	-41.448	1.00	27.91	H
ATOM	329	3HG2	VAL A 215	42.062	-29.729	-41.538	1.00	27.91	H
ATOM	330	N	CYS A 216	40.323	-26.107	-39.822	1.00	35.13	N
ATOM	331	CA	CYS A 216	39.522	-25.474	-38.774	1.00	34.87	C
ATOM	332	C	CYS A 216	38.521	-26.450	-38.133	1.00	34.94	C
ATOM	333	O	CYS A 216	37.795	-27.162	-38.825	1.00	35.18	O

ATOM	334	CB	CYS A 216	38.843	-24.203	-39.295	1.00	34.80	C
ATOM	335	SG	CYS A 216	37.835	-23.395	-38.019	1.00	34.59	S
ATOM	336	HN	CYS A 216	39.865	-26.774	-40.433	1.00	0.00	H
ATOM	337	HA	CYS A 216	40.213	-25.166	-37.989	1.00	34.92	H
ATOM	338	HB1	CYS A 216	39.611	-23.506	-39.629	1.00	34.92	H
ATOM	339	HB2	CYS A 216	38.201	-24.467	-40.135	1.00	34.92	H
ATOM	340	N	ILE A 217	38.426	-26.415	-36.805	1.00	27.23	N
ATOM	341	CA	ILE A 217	37.384	-27.046	-35.988	1.00	27.24	C
ATOM	342	C	ILE A 217	36.337	-25.982	-35.618	1.00	27.06	C
ATOM	343	O	ILE A 217	36.694	-24.978	-35.010	1.00	26.81	O
ATOM	344	CB	ILE A 217	38.037	-27.659	-34.726	1.00	27.10	C
ATOM	345	CG1	ILE A 217	39.206	-28.632	-35.011	1.00	27.29	C
ATOM	346	CG2	ILE A 217	36.981	-28.338	-33.851	1.00	27.10	C
ATOM	347	CD1	ILE A 217	38.840	-29.866	-35.842	1.00	27.63	C
ATOM	348	HN	ILE A 217	39.069	-25.793	-36.320	1.00	0.00	H
ATOM	349	HA	ILE A 217	36.905	-27.837	-36.565	1.00	27.18	H
ATOM	350	HB	ILE A 217	38.446	-26.832	-34.146	1.00	27.18	H
ATOM	351	1HG1	ILE A 217	39.979	-28.082	-35.547	1.00	27.18	H
ATOM	352	2HG1	ILE A 217	39.600	-28.975	-34.054	1.00	27.18	H
ATOM	353	1HG2	ILE A 217	37.459	-28.763	-32.968	1.00	27.18	H
ATOM	354	2HG2	ILE A 217	36.494	-29.132	-34.418	1.00	27.18	H
ATOM	355	3HG2	ILE A 217	36.237	-27.603	-33.543	1.00	27.18	H
ATOM	356	1HD1	ILE A 217	39.726	-30.484	-35.986	1.00	27.18	H
ATOM	357	2HD1	ILE A 217	38.456	-29.551	-36.812	1.00	27.18	H
ATOM	358	3HD1	ILE A 217	38.077	-30.443	-35.320	1.00	27.18	H
ATOM	359	N	THR A 218	35.061	-26.173	-35.972	1.00	27.21	N
ATOM	360	CA	THR A 218	34.011	-25.139	-35.809	1.00	27.08	C

ATOM	361	C	THR A 218	32.593	-25.736	-35.676	1.00	27.25	C
ATOM	362	O	THR A 218	32.461	-26.906	-35.325	1.00	27.47	O
ATOM	363	CB	THR A 218	34.154	-24.107	-36.946	1.00	27.09	C
ATOM	364	OG1	THR A 218	33.341	-22.973	-36.757	1.00	26.93	O
ATOM	365	CG2	THR A 218	33.810	-24.689	-38.316	1.00	27.38	C
ATOM	366	HN	THR A 218	34.825	-26.999	-36.511	1.00	0.00	H
ATOM	367	HG1	THR A 218	33.615	-22.575	-35.888	1.00	0.00	H
ATOM	368	HA	THR A 218	34.223	-24.615	-34.877	1.00	27.20	H
ATOM	369	HB	THR A 218	35.192	-23.776	-36.972	1.00	27.20	H
ATOM	370	1HG2	THR A 218	33.928	-23.919	-39.078	1.00	27.20	H
ATOM	371	2HG2	THR A 218	32.779	-25.042	-38.313	1.00	27.20	H
ATOM	372	3HG2	THR A 218	34.478	-25.522	-38.535	1.00	27.20	H
ATOM	373	N	ASP A 219	31.544	-24.905	-35.744	1.00	39.43	N
ATOM	374	CA	ASP A 219	30.172	-25.150	-35.240	1.00	39.58	C
ATOM	375	C	ASP A 219	30.130	-25.782	-33.822	1.00	39.54	C
ATOM	376	O	ASP A 219	29.601	-26.890	-33.654	1.00	39.76	O
ATOM	377	CB	ASP A 219	29.320	-25.911	-36.276	1.00	39.91	C
ATOM	378	CG	ASP A 219	27.824	-25.942	-35.911	1.00	40.10	C
ATOM	379	OD1	ASP A 219	27.267	-24.883	-35.554	1.00	40.00	O
ATOM	380	OD2	ASP A 219	27.179	-26.974	-36.223	1.00	40.36	O
ATOM	381	HN	ASP A 219	31.771	-23.951	-36.008	1.00	0.00	H
ATOM	382	HA	ASP A 219	29.712	-24.167	-35.141	1.00	39.83	H
ATOM	383	HB1	ASP A 219	29.432	-25.424	-37.244	1.00	39.83	H
ATOM	384	HB2	ASP A 219	29.684	-26.936	-36.340	1.00	39.83	H
ATOM	385	N	PRO A 220	30.851	-25.203	-32.834	1.00	27.00	N
ATOM	386	CA	PRO A 220	31.111	-25.870	-31.567	1.00	26.94	C
ATOM	387	C	PRO A 220	29.889	-25.889	-30.639	1.00	26.98	C

ATOM	388	O	PRO A 220	29.296	-24.848	-30.334	1.00	26.93	O
ATOM	389	CB	PRO A 220	32.292	-25.131	-30.941	1.00	26.63	C
ATOM	390	CG	PRO A 220	32.151	-23.713	-31.482	1.00	26.51	C
ATOM	391	CD	PRO A 220	31.562	-23.927	-32.873	1.00	26.74	C
ATOM	392	HA	PRO A 220	31.411	-26.898	-31.769	1.00	26.82	H
ATOM	393	HB1	PRO A 220	32.226	-25.141	-29.853	1.00	26.82	H
ATOM	394	HB2	PRO A 220	33.238	-25.574	-31.252	1.00	26.82	H
ATOM	395	HG1	PRO A 220	31.479	-23.123	-30.860	1.00	26.82	H
ATOM	396	HG2	PRO A 220	33.121	-23.219	-31.540	1.00	26.82	H
ATOM	397	HD1	PRO A 220	30.872	-23.119	-33.117	1.00	26.82	H
ATOM	398	HD2	PRO A 220	32.358	-23.963	-33.617	1.00	26.82	H
ATOM	399	N	LEU A 221	29.713	-27.034	-29.980	1.00	27.07	N
ATOM	400	CA	LEU A 221	28.813	-27.256	-28.848	1.00	27.10	C
ATOM	401	C	LEU A 221	29.625	-27.688	-27.623	1.00	26.91	C
ATOM	402	O	LEU A 221	30.477	-28.568	-27.730	1.00	26.93	O
ATOM	403	CB	LEU A 221	27.745	-28.286	-29.271	1.00	27.48	C
ATOM	404	CG	LEU A 221	26.740	-28.757	-28.192	1.00	27.62	C
ATOM	405	CD1	LEU A 221	25.454	-29.220	-28.875	1.00	28.03	C
ATOM	406	CD2	LEU A 221	27.221	-29.953	-27.367	1.00	27.55	C
ATOM	407	HN	LEU A 221	30.322	-27.806	-30.238	1.00	0.00	H
ATOM	408	HA	LEU A 221	28.313	-26.316	-28.616	1.00	27.34	H
ATOM	409	HB1	LEU A 221	27.168	-27.843	-30.083	1.00	27.34	H
ATOM	410	HB2	LEU A 221	28.270	-29.169	-29.636	1.00	27.34	H
ATOM	411	HG	LEU A 221	26.514	-27.926	-27.524	1.00	27.34	H
ATOM	412	1HD1	LEU A 221	24.741	-29.553	-28.121	1.00	27.34	H
ATOM	413	2HD1	LEU A 221	25.678	-30.044	-29.552	1.00	27.34	H
ATOM	414	3HD1	LEU A 221	25.024	-28.393	-29.440	1.00	27.34	H



ATOM	415	1HD2 LEU A 221	26.459	-30.220	-26.634	1.00	27.34	H
ATOM	416	2HD2 LEU A 221	28.145	-29.691	-26.851	1.00	27.34	H
ATOM	417	3HD2 LEU A 221	27.402	-30.801	-28.027	1.00	27.34	H
ATOM	418	N LEU A 222	29.206	-27.209	-26.453	1.00	26.73	N
ATOM	419	CA LEU A 222	29.513	-27.755	-25.132	1.00	26.61	C
ATOM	420	C LEU A 222	28.234	-27.672	-24.287	1.00	26.66	C
ATOM	421	O LEU A 222	27.495	-26.694	-24.405	1.00	26.58	O
ATOM	422	CB LEU A 222	30.689	-26.983	-24.495	1.00	26.27	C
ATOM	423	CG LEU A 222	31.011	-27.381	-23.037	1.00	26.07	C
ATOM	424	CD1 LEU A 222	31.580	-28.798	-22.937	1.00	26.22	C
ATOM	425	CD2 LEU A 222	32.040	-26.429	-22.434	1.00	25.72	C
ATOM	426	HN LEU A 222	28.448	-26.543	-26.460	1.00	0.00	H
ATOM	427	HA LEU A 222	29.796	-28.802	-25.241	1.00	26.36	H
ATOM	428	HB1 LEU A 222	31.578	-27.161	-25.099	1.00	26.36	H
ATOM	429	HB2 LEU A 222	30.445	-25.921	-24.511	1.00	26.36	H
ATOM	430	HG LEU A 222	30.095	-27.328	-22.448	1.00	26.36	H
ATOM	431	1HD1 LEU A 222	31.791	-29.033	-21.894	1.00	26.36	H
ATOM	432	2HD1 LEU A 222	32.501	-28.862	-23.516	1.00	26.36	H
ATOM	433	3HD1 LEU A 222	30.854	-29.510	-23.330	1.00	26.36	H
ATOM	434	1HD2 LEU A 222	32.253	-26.726	-21.407	1.00	26.36	H
ATOM	435	2HD2 LEU A 222	31.645	-25.413	-22.443	1.00	26.36	H
ATOM	436	3HD2 LEU A 222	32.958	-26.467	-23.020	1.00	26.36	H
ATOM	437	N ALA A 223	28.009	-28.657	-23.426	1.00	26.80	N
ATOM	438	CA ALA A 223	26.996	-28.628	-22.378	1.00	26.85	C
ATOM	439	C ALA A 223	27.507	-29.389	-21.151	1.00	26.69	C
ATOM	440	O ALA A 223	28.128	-30.440	-21.321	1.00	26.66	O
ATOM	441	CB ALA A 223	25.713	-29.267	-22.918	1.00	27.24	C

ATOM	442	HN	ALA	A	223	28.619	-29.466	-23.443	1.00	0.00	H
ATOM	443	HA	ALA	A	223	26.794	-27.593	-22.101	1.00	26.85	H
ATOM	444	HB1	ALA	A	223	24.946	-29.252	-22.144	1.00	26.85	H
ATOM	445	HB2	ALA	A	223	25.915	-30.298	-23.209	1.00	26.85	H
ATOM	446	HB3	ALA	A	223	25.364	-28.706	-23.785	1.00	26.85	H
ATOM	447	N	VAL	A	224	27.206	-28.915	-19.942	1.00	26.59	N
ATOM	448	CA	VAL	A	224	27.513	-29.596	-18.675	1.00	26.40	C
ATOM	449	C	VAL	A	224	26.244	-29.750	-17.836	1.00	26.52	C
ATOM	450	O	VAL	A	224	25.599	-28.771	-17.465	1.00	26.41	O
ATOM	451	CB	VAL	A	224	28.634	-28.874	-17.896	1.00	26.00	C
ATOM	452	CG1	VAL	A	224	28.977	-29.597	-16.585	1.00	25.79	C
ATOM	453	CG2	VAL	A	224	29.927	-28.768	-18.719	1.00	25.90	C
ATOM	454	HN	VAL	A	224	26.836	-27.965	-19.892	1.00	0.00	H
ATOM	455	HA	VAL	A	224	27.872	-30.596	-18.917	1.00	26.23	H
ATOM	456	HB	VAL	A	224	28.294	-27.867	-17.656	1.00	26.23	H
ATOM	457	1HG1	VAL	A	224	29.770	-29.056	-16.068	1.00	26.23	H
ATOM	458	2HG1	VAL	A	224	29.313	-30.610	-16.805	1.00	26.23	H
ATOM	459	3HG1	VAL	A	224	28.092	-29.638	-15.950	1.00	26.23	H
ATOM	460	1HG2	VAL	A	224	30.689	-28.254	-18.134	1.00	26.23	H
ATOM	461	2HG2	VAL	A	224	29.732	-28.207	-19.633	1.00	26.23	H
ATOM	462	3HG2	VAL	A	224	30.279	-29.768	-18.974	1.00	26.23	H
ATOM	463	N	ASP	A	225	25.979	-30.975	-17.386	1.00	26.75	N
ATOM	464	CA	ASP	A	225	24.855	-31.337	-16.523	1.00	26.90	C
ATOM	465	C	ASP	A	225	25.327	-32.278	-15.413	1.00	26.77	C
ATOM	466	O	ASP	A	225	25.739	-33.407	-15.671	1.00	26.89	O
ATOM	467	CB	ASP	A	225	23.759	-32.039	-17.332	1.00	27.35	C
ATOM	468	CG	ASP	A	225	22.716	-31.106	-17.950	1.00	27.50	C

ATOM	469	OD1	ASP	A	225	21.921	-30.638	-17.098	1.00	27.50	O
ATOM	470	OD2	ASP	A	225	22.293	-31.477	-19.071	1.00	27.63	O
ATOM	471	HN	ASP	A	225	26.607	-31.722	-17.667	1.00	0.00	H
ATOM	472	HA	ASP	A	225	24.444	-30.433	-16.074	1.00	27.16	H
ATOM	473	HB1	ASP	A	225	24.237	-32.594	-18.139	1.00	27.16	H
ATOM	474	HB2	ASP	A	225	23.242	-32.733	-16.670	1.00	27.16	H
ATOM	475	N	ASN	A	226	25.123	-31.875	-14.157	1.00	28.10	N
ATOM	476	CA	ASN	A	226	25.235	-32.733	-12.966	1.00	28.01	C
ATOM	477	C	ASN	A	226	26.608	-33.416	-12.719	1.00	27.81	C
ATOM	478	O	ASN	A	226	26.746	-34.096	-11.708	1.00	27.68	O
ATOM	479	CB	ASN	A	226	24.060	-33.741	-12.963	1.00	28.41	C
ATOM	480	CG	ASN	A	226	22.694	-33.090	-13.103	1.00	28.65	C
ATOM	481	OD1	ASN	A	226	22.000	-33.202	-14.105	1.00	29.05	O
ATOM	482	ND2	ASN	A	226	22.285	-32.320	-12.120	1.00	28.43	N
ATOM	483	HN	ASN	A	226	24.757	-30.943	-14.033	1.00	0.00	H
ATOM	484	1HD2	ASN	A	226	22.831	-32.247	-11.281	1.00	0.00	H
ATOM	485	2HD2	ASN	A	226	21.389	-31.884	-12.224	1.00	0.00	H
ATOM	486	HA	ASN	A	226	25.069	-32.079	-12.110	1.00	28.27	H
ATOM	487	HB1	ASN	A	226	24.198	-34.432	-13.794	1.00	28.27	H
ATOM	488	HB2	ASN	A	226	24.083	-34.293	-12.023	1.00	28.27	H
ATOM	489	N	GLY	A	227	27.624	-33.165	-13.555	1.00	34.27	N
ATOM	490	CA	GLY	A	227	28.937	-33.834	-13.541	1.00	34.17	C
ATOM	491	C	GLY	A	227	29.290	-34.541	-14.861	1.00	34.37	C
ATOM	492	O	GLY	A	227	30.462	-34.809	-15.122	1.00	34.28	O
ATOM	493	HN	GLY	A	227	27.401	-32.629	-14.381	1.00	0.00	H
ATOM	494	HA1	GLY	A	227	29.702	-33.084	-13.338	1.00	34.27	H
ATOM	495	HA2	GLY	A	227	28.935	-34.577	-12.744	1.00	34.27	H

ATOM	496	N	PHE A 228	28.309	-34.709	-15.750	1.00	26.62	N
ATOM	497	CA	PHE A 228	28.478	-35.165	-17.130	1.00	26.86	C
ATOM	498	C	PHE A 228	28.590	-33.987	-18.105	1.00	26.81	C
ATOM	499	O	PHE A 228	28.134	-32.881	-17.805	1.00	26.69	O
ATOM	500	CB	PHE A 228	27.300	-36.078	-17.500	1.00	27.32	C
ATOM	501	CG	PHE A 228	27.084	-37.198	-16.501	1.00	27.40	C
ATOM	502	CD1	PHE A 228	28.071	-38.187	-16.349	1.00	27.62	C
ATOM	503	CD2	PHE A 228	25.950	-37.210	-15.669	1.00	27.27	C
ATOM	504	CE1	PHE A 228	27.928	-39.189	-15.375	1.00	27.72	C
ATOM	505	CE2	PHE A 228	25.804	-38.215	-14.695	1.00	27.36	C
ATOM	506	CZ	PHE A 228	26.791	-39.207	-14.550	1.00	27.58	C
ATOM	507	HN	PHE A 228	27.377	-34.401	-15.500	1.00	0.00	H
ATOM	508	HA	PHE A 228	29.397	-35.749	-17.189	1.00	27.20	H
ATOM	509	HB1	PHE A 228	26.394	-35.474	-17.547	1.00	27.20	H
ATOM	510	HB2	PHE A 228	27.495	-36.518	-18.478	1.00	27.20	H
ATOM	511	HD1	PHE A 228	28.952	-38.176	-16.990	1.00	27.20	H
ATOM	512	HD2	PHE A 228	25.185	-36.441	-15.779	1.00	27.20	H
ATOM	513	HE1	PHE A 228	28.698	-39.952	-15.259	1.00	27.20	H
ATOM	514	HE2	PHE A 228	24.924	-38.225	-14.051	1.00	27.20	H
ATOM	515	HZ	PHE A 228	26.674	-39.988	-13.799	1.00	27.20	H
ATOM	516	N	PHE A 229	29.056	-34.250	-19.327	1.00	26.92	N
ATOM	517	CA	PHE A 229	29.075	-33.267	-20.414	1.00	26.87	C
ATOM	518	C	PHE A 229	28.679	-33.860	-21.772	1.00	27.24	C
ATOM	519	O	PHE A 229	28.847	-35.059	-22.012	1.00	27.48	O
ATOM	520	CB	PHE A 229	30.447	-32.569	-20.477	1.00	26.52	C
ATOM	521	CG	PHE A 229	31.565	-33.382	-21.106	1.00	26.56	C
ATOM	522	CD1	PHE A 229	31.845	-33.249	-22.480	1.00	26.79	C

ATOM	523	CD2 PHE A 229	32.323	-34.274	-20.326	1.00	26.39	C
ATOM	524	CE1 PHE A 229	32.858	-34.021	-23.074	1.00	26.87	C
ATOM	525	CE2 PHE A 229	33.350	-35.030	-20.916	1.00	26.46	C
ATOM	526	CZ PHE A 229	33.609	-34.914	-22.291	1.00	26.71	C
ATOM	527	HN PHE A 229	29.396	-35.186	-19.525	1.00	0.00	H
ATOM	528	HA PHE A 229	28.337	-32.503	-20.169	1.00	26.80	H
ATOM	529	HB1 PHE A 229	30.331	-31.653	-21.056	1.00	26.80	H
ATOM	530	HB2 PHE A 229	30.745	-32.321	-19.458	1.00	26.80	H
ATOM	531	HD1 PHE A 229	31.274	-32.545	-23.085	1.00	26.80	H
ATOM	532	HD2 PHE A 229	32.113	-34.379	-19.262	1.00	26.80	H
ATOM	533	HE1 PHE A 229	33.061	-33.927	-24.141	1.00	26.80	H
ATOM	534	HE2 PHE A 229	33.947	-35.708	-20.305	1.00	26.80	H
ATOM	535	HZ PHE A 229	34.392	-35.516	-22.751	1.00	26.80	H
ATOM	536	N ALA A 230	28.321	-32.971	-22.701	1.00	27.28	N
ATOM	537	CA ALA A 230	28.228	-33.226	-24.136	1.00	27.59	C
ATOM	538	C ALA A 230	29.031	-32.200	-24.946	1.00	27.40	C
ATOM	539	O ALA A 230	29.260	-31.073	-24.510	1.00	27.06	O
ATOM	540	CB ALA A 230	26.762	-33.244	-24.573	1.00	27.81	C
ATOM	541	HN ALA A 230	28.244	-32.003	-22.401	1.00	0.00	H
ATOM	542	HA ALA A 230	28.649	-34.212	-24.330	1.00	27.43	H
ATOM	543	HB1 ALA A 230	26.704	-33.435	-25.645	1.00	27.43	H
ATOM	544	HB2 ALA A 230	26.304	-32.280	-24.351	1.00	27.43	H
ATOM	545	HB3 ALA A 230	26.232	-34.030	-24.035	1.00	27.43	H
ATOM	546	N TYR A 231	29.423	-32.589	-26.157	1.00	27.63	N
ATOM	547	CA TYR A 231	30.275	-31.818	-27.056	1.00	27.48	C
ATOM	548	C TYR A 231	29.952	-32.123	-28.528	1.00	27.78	C
ATOM	549	O TYR A 231	29.590	-33.249	-28.874	1.00	28.10	O

ATOM	550	CB	TYR A 231	31.739	-32.123	-26.711	1.00	27.22	C
ATOM	551	CG	TYR A 231	32.755	-31.481	-27.634	1.00	27.17	C
ATOM	552	CD1	TYR A 231	33.206	-30.171	-27.383	1.00	26.87	C
ATOM	553	CD2	TYR A 231	33.223	-32.183	-28.762	1.00	27.44	C
ATOM	554	CE1	TYR A 231	34.138	-29.566	-28.249	1.00	26.83	C
ATOM	555	CE2	TYR A 231	34.147	-31.578	-29.632	1.00	27.40	C
ATOM	556	CZ	TYR A 231	34.613	-30.270	-29.375	1.00	27.10	C
ATOM	557	OH	TYR A 231	35.520	-29.692	-30.205	1.00	27.08	O
ATOM	558	HN	TYR A 231	29.238	-33.553	-26.419	1.00	0.00	H
ATOM	559	HH	TYR A 231	35.609	-30.200	-31.028	1.00	0.00	H
ATOM	560	HA	TYR A 231	30.093	-30.758	-26.877	1.00	27.34	H
ATOM	561	HB1	TYR A 231	31.930	-31.769	-25.698	1.00	27.34	H
ATOM	562	HB2	TYR A 231	31.879	-33.203	-26.751	1.00	27.34	H
ATOM	563	HD1	TYR A 231	32.833	-29.624	-26.517	1.00	27.34	H
ATOM	564	HD2	TYR A 231	32.869	-33.195	-28.960	1.00	27.34	H
ATOM	565	HE1	TYR A 231	34.492	-28.555	-28.049	1.00	27.34	H
ATOM	566	HE2	TYR A 231	34.505	-32.120	-30.507	1.00	27.34	H
ATOM	567	N	SER A 232	30.176	-31.160	-29.423	1.00	27.69	N
ATOM	568	CA	SER A 232	30.195	-31.384	-30.878	1.00	27.91	C
ATOM	569	C	SER A 232	31.152	-30.420	-31.570	1.00	27.68	C
ATOM	570	O	SER A 232	31.192	-29.246	-31.205	1.00	27.38	O
ATOM	571	CB	SER A 232	28.771	-31.323	-31.478	1.00	28.17	C
ATOM	572	OG	SER A 232	28.649	-30.496	-32.635	1.00	28.36	O
ATOM	573	HN	SER A 232	30.533	-30.272	-29.079	1.00	0.00	H
ATOM	574	HG	SER A 232	28.840	-29.585	-32.366	1.00	0.00	H
ATOM	575	HA	SER A 232	30.574	-32.392	-31.045	1.00	27.86	H
ATOM	576	HB1	SER A 232	28.473	-32.335	-31.751	1.00	27.87	H

ATOM	577	HB2 SER A 232	28.096	-30.939	-30.713	1.00	27.87	H
ATOM	578	N HIS A 233	31.698	-30.844	-32.713	1.00	27.87	N
ATOM	579	CA HIS A 233	32.311	-29.949	-33.700	1.00	27.74	C
ATOM	580	C HIS A 233	32.132	-30.462	-35.129	1.00	28.06	C
ATOM	581	O HIS A 233	31.985	-31.663	-35.358	1.00	28.37	O
ATOM	582	CB HIS A 233	33.795	-29.706	-33.367	1.00	27.50	C
ATOM	583	CG HIS A 233	34.754	-30.874	-33.522	1.00	27.68	C
ATOM	584	ND1 HIS A 233	35.715	-31.238	-32.573	1.00	27.55	N
ATOM	585	CD2 HIS A 233	35.013	-31.575	-34.669	1.00	27.99	C
ATOM	586	CE1 HIS A 233	36.486	-32.172	-33.149	1.00	27.78	C
ATOM	587	NE2 HIS A 233	36.082	-32.401	-34.407	1.00	28.06	N
ATOM	588	HN HIS A 233	31.507	-31.798	-33.003	1.00	0.00	H
ATOM	589	HE2 HIS A 233	36.518	-33.043	-35.056	1.00	0.00	H
ATOM	590	HA HIS A 233	31.800	-28.989	-33.632	1.00	27.86	H
ATOM	591	HB1 HIS A 233	34.148	-28.906	-34.018	1.00	27.86	H
ATOM	592	HB2 HIS A 233	33.846	-29.379	-32.329	1.00	27.86	H
ATOM	593	HD2 HIS A 233	34.474	-31.494	-35.613	1.00	27.86	H
ATOM	594	HE1 HIS A 233	37.323	-32.674	-32.663	1.00	27.86	H
ATOM	595	N LEU A 234	32.341	-29.570	-36.092	1.00	27.98	N
ATOM	596	CA LEU A 234	32.568	-29.847	-37.505	1.00	28.25	C
ATOM	597	C LEU A 234	34.018	-29.492	-37.875	1.00	28.15	C
ATOM	598	O LEU A 234	34.403	-28.324	-37.859	1.00	27.88	O
ATOM	599	CB LEU A 234	31.531	-29.038	-38.306	1.00	28.33	C
ATOM	600	CG LEU A 234	31.610	-29.229	-39.829	1.00	28.61	C
ATOM	601	CD1 LEU A 234	31.315	-30.675	-40.227	1.00	28.96	C
ATOM	602	CD2 LEU A 234	30.582	-28.326	-40.512	1.00	28.65	C
ATOM	603	HN LEU A 234	32.463	-28.604	-35.801	1.00	0.00	H

ATOM	604	HA	LEU A 234	32.406	-30.909	-37.688	1.00	28.35	H
ATOM	605	HB1	LEU A 234	30.537	-29.339	-37.977	1.00	28.35	H
ATOM	606	HB2	LEU A 234	31.682	-27.981	-38.088	1.00	28.35	H
ATOM	607	HG	LEU A 234	32.609	-28.959	-40.173	1.00	28.35	H
ATOM	608	1HD1	LEU A 234	31.379	-30.775	-41.310	1.00	28.35	H
ATOM	609	2HD1	LEU A 234	30.312	-30.946	-39.897	1.00	28.35	H
ATOM	610	3HD1	LEU A 234	32.043	-31.337	-39.758	1.00	28.35	H
ATOM	611	1HD2	LEU A 234	30.639	-28.462	-41.592	1.00	28.35	H
ATOM	612	2HD2	LEU A 234	30.792	-27.285	-40.266	1.00	28.35	H
ATOM	613	3HD2	LEU A 234	29.582	-28.586	-40.166	1.00	28.35	H
ATOM	614	N	GLU A 235	34.829	-30.497	-38.200	1.00	28.42	N
ATOM	615	CA	GLU A 235	36.171	-30.314	-38.760	1.00	28.40	C
ATOM	616	C	GLU A 235	36.102	-29.971	-40.253	1.00	28.55	C
ATOM	617	O	GLU A 235	35.412	-30.653	-41.018	1.00	28.84	O
ATOM	618	CB	GLU A 235	37.008	-31.586	-38.536	1.00	28.63	C
ATOM	619	CG	GLU A 235	38.425	-31.464	-39.122	1.00	28.53	C
ATOM	620	CD	GLU A 235	39.310	-32.675	-38.823	1.00	28.76	C
ATOM	621	OE1	GLU A 235	38.842	-33.781	-39.174	1.00	28.81	O
ATOM	622	OE2	GLU A 235	40.538	-32.459	-38.883	1.00	28.89	O
ATOM	623	HN	GLU A 235	34.438	-31.433	-38.230	1.00	0.00	H
ATOM	624	HA	GLU A 235	36.653	-29.487	-38.238	1.00	28.65	H
ATOM	625	HB1	GLU A 235	37.087	-31.769	-37.464	1.00	28.65	H
ATOM	626	HB2	GLU A 235	36.503	-32.426	-39.013	1.00	28.65	H
ATOM	627	HG1	GLU A 235	38.344	-31.354	-40.203	1.00	28.65	H
ATOM	628	HG2	GLU A 235	38.898	-30.577	-38.700	1.00	28.65	H
ATOM	629	N	LYS A 236	36.969	-29.057	-40.696	1.00	28.34	N
ATOM	630	CA	LYS A 236	37.114	-28.605	-42.083	1.00	28.45	C



ATOM	631	C	LYS A 236	38.570	-28.599	-42.540	1.00	28.50	C
ATOM	632	O	LYS A 236	39.458	-28.232	-41.778	1.00	28.31	O
ATOM	633	CB	LYS A 236	36.531	-27.192	-42.214	1.00	28.19	C
ATOM	634	CG	LYS A 236	35.000	-27.188	-42.131	1.00	28.17	C
ATOM	635	CD	LYS A 236	34.505	-25.755	-41.941	1.00	27.94	C
ATOM	636	CE	LYS A 236	32.984	-25.682	-42.086	1.00	28.02	C
ATOM	637	NZ	LYS A 236	32.604	-25.277	-43.459	1.00	28.25	N1+
ATOM	638	HN	LYS A 236	37.493	-28.535	-39.996	1.00	0.00	H
ATOM	639	HZ1	LYS A 236	31.619	-25.409	-43.623	1.00	0.00	H
ATOM	640	HZ2	LYS A 236	32.785	-24.283	-43.583	1.00	0.00	H
ATOM	641	HZ3	LYS A 236	33.148	-25.784	-44.156	1.00	0.00	H
ATOM	642	HA	LYS A 236	36.549	-29.276	-42.729	1.00	28.24	H
ATOM	643	HB1	LYS A 236	36.928	-26.573	-41.410	1.00	28.24	H
ATOM	644	HB2	LYS A 236	36.832	-26.776	-43.176	1.00	28.24	H
ATOM	645	HG1	LYS A 236	34.585	-27.597	-43.052	1.00	28.24	H
ATOM	646	HG2	LYS A 236	34.680	-27.798	-41.286	1.00	28.24	H
ATOM	647	HD1	LYS A 236	34.786	-25.409	-40.946	1.00	28.24	H
ATOM	648	HD2	LYS A 236	34.967	-25.115	-42.693	1.00	28.24	H
ATOM	649	HE1	LYS A 236	32.558	-26.662	-41.872	1.00	28.24	H
ATOM	650	HE2	LYS A 236	32.592	-24.952	-41.377	1.00	28.24	H
ATOM	651	N	ILE A 237	38.781	-28.846	-43.831	1.00	35.45	N
ATOM	652	CA	ILE A 237	39.982	-28.435	-44.571	1.00	35.50	C
ATOM	653	C	ILE A 237	39.874	-26.930	-44.848	1.00	35.28	C
ATOM	654	O	ILE A 237	38.910	-26.489	-45.482	1.00	35.36	O
ATOM	655	CB	ILE A 237	40.128	-29.225	-45.895	1.00	35.90	C
ATOM	656	CG1	ILE A 237	40.050	-30.751	-45.663	1.00	36.20	C
ATOM	657	CG2	ILE A 237	41.446	-28.838	-46.593	1.00	35.95	C

ATOM	658	CD1 ILE A 237	40.091	-31.598	-46.941	1.00	36.62	C
ATOM	659	HN ILE A 237	37.971	-29.107	-44.380	1.00	0.00	H
ATOM	660	1HD1 ILE A 237	40.031	-32.654	-46.679	1.00	0.00	H
ATOM	661	2HD1 ILE A 237	41.023	-31.408	-47.473	1.00	0.00	H
ATOM	662	HA ILE A 237	40.860	-28.618	-43.951	1.00	35.78	H
ATOM	663	HB ILE A 237	39.304	-28.941	-46.550	1.00	35.78	H
ATOM	664	1HG1 ILE A 237	40.893	-31.042	-45.036	1.00	35.78	H
ATOM	665	2HG1 ILE A 237	39.117	-30.968	-45.142	1.00	35.78	H
ATOM	666	1HG2 ILE A 237	41.543	-29.397	-47.524	1.00	35.78	H
ATOM	667	2HG2 ILE A 237	42.286	-29.073	-45.940	1.00	35.78	H
ATOM	668	3HG2 ILE A 237	41.443	-27.770	-46.810	1.00	35.78	H
ATOM	669	3HD1 ILE A 237	39.248	-31.334	-47.580	1.00	35.78	H
ATOM	670	N GLY A 238	40.853	-26.149	-44.399	1.00	28.33	N
ATOM	671	CA GLY A 238	40.871	-24.693	-44.529	1.00	28.13	C
ATOM	672	C GLY A 238	39.777	-23.973	-43.725	1.00	27.87	C
ATOM	673	O GLY A 238	39.363	-24.418	-42.657	1.00	27.74	O
ATOM	674	HN GLY A 238	41.642	-26.589	-43.931	1.00	0.00	H
ATOM	675	HA1 GLY A 238	41.840	-24.332	-44.186	1.00	28.02	H
ATOM	676	HA2 GLY A 238	40.741	-24.443	-45.582	1.00	28.02	H
ATOM	677	N SER A 239	39.376	-22.792	-44.213	1.00	28.81	N
ATOM	678	CA SER A 239	38.617	-21.785	-43.447	1.00	28.58	C
ATOM	679	C SER A 239	37.361	-22.322	-42.739	1.00	28.53	C
ATOM	680	O SER A 239	36.545	-23.020	-43.337	1.00	28.72	O
ATOM	681	CB SER A 239	38.240	-20.607	-44.360	1.00	28.62	C
ATOM	682	OG SER A 239	37.289	-20.990	-45.341	1.00	28.85	O
ATOM	683	HN SER A 239	39.825	-22.488	-45.061	1.00	0.00	H
ATOM	684	HG SER A 239	37.612	-21.795	-45.762	1.00	0.00	H

ATOM	685	HA	SER A 239	39.282	-21.397	-42.676	1.00	28.68	H
ATOM	686	HB1	SER A 239	37.817	-19.808	-43.750	1.00	28.68	H
ATOM	687	HB2	SER A 239	39.138	-20.246	-44.860	1.00	28.68	H
ATOM	688	N	CYS A 240	37.074	-21.793	-41.548	1.00	27.28	N
ATOM	689	CA	CYS A 240	35.934	-22.219	-40.728	1.00	27.23	C
ATOM	690	C	CYS A 240	34.570	-22.018	-41.414	1.00	27.33	C
ATOM	691	O	CYS A 240	33.711	-22.895	-41.368	1.00	27.37	O
ATOM	692	CB	CYS A 240	35.988	-21.445	-39.407	1.00	26.95	C
ATOM	693	SG	CYS A 240	37.607	-21.463	-38.601	1.00	26.84	S
ATOM	694	HN	CYS A 240	37.786	-21.248	-41.081	1.00	0.00	H
ATOM	695	HA	CYS A 240	36.051	-23.280	-40.506	1.00	27.17	H
ATOM	696	HB1	CYS A 240	35.718	-20.408	-39.607	1.00	27.17	H
ATOM	697	HB2	CYS A 240	35.261	-21.885	-38.724	1.00	27.17	H
ATOM	698	N	THR A 241	34.412	-20.958	-42.211	1.00	27.37	N
ATOM	699	CA	THR A 241	33.191	-20.738	-43.000	1.00	27.45	C
ATOM	700	C	THR A 241	33.122	-21.675	-44.213	1.00	27.73	C
ATOM	701	O	THR A 241	32.301	-22.593	-44.244	1.00	27.88	O
ATOM	702	CB	THR A 241	33.042	-19.262	-43.406	1.00	27.30	C
ATOM	703	OG1	THR A 241	34.166	-18.816	-44.132	1.00	27.40	O
ATOM	704	CG2	THR A 241	32.906	-18.338	-42.198	1.00	27.06	C
ATOM	705	HN	THR A 241	35.167	-20.294	-42.290	1.00	0.00	H
ATOM	706	HG1	THR A 241	34.385	-17.941	-43.791	1.00	0.00	H
ATOM	707	HA	THR A 241	32.345	-20.981	-42.357	1.00	27.46	H
ATOM	708	HB	THR A 241	32.155	-19.157	-44.031	1.00	27.46	H
ATOM	709	1HG2	THR A 241	32.804	-17.307	-42.538	1.00	27.46	H
ATOM	710	2HG2	THR A 241	33.793	-18.427	-41.570	1.00	27.46	H
ATOM	711	3HG2	THR A 241	32.024	-18.619	-41.622	1.00	27.46	H

ATOM	712	N	ARG A 242	34.016	-21.517	-45.197	1.00	27.82	N
ATOM	713	CA	ARG A 242	33.886	-22.128	-46.539	1.00	28.08	C
ATOM	714	C	ARG A 242	34.731	-23.388	-46.767	1.00	28.31	C
ATOM	715	O	ARG A 242	34.648	-23.979	-47.836	1.00	28.57	O
ATOM	716	CB	ARG A 242	34.132	-21.052	-47.613	1.00	28.06	C
ATOM	717	CG	ARG A 242	33.023	-19.987	-47.590	1.00	28.01	C
ATOM	718	CD	ARG A 242	33.265	-18.883	-48.624	1.00	27.82	C
ATOM	719	NE	ARG A 242	32.190	-17.870	-48.564	1.00	27.72	N
ATOM	720	CZ	ARG A 242	32.310	-16.559	-48.696	1.00	27.59	C
ATOM	721	NH1	ARG A 242	33.448	-15.983	-48.964	1.00	27.55	N
ATOM	722	NH2	ARG A 242	31.267	-15.790	-48.556	1.00	27.52	N
ATOM	723	HN	ARG A 242	34.702	-20.778	-45.070	1.00	0.00	H
ATOM	724	HE	ARG A 242	31.265	-18.219	-48.376	1.00	0.00	H
ATOM	725	1HH1	ARG A 242	34.266	-16.554	-49.080	1.00	0.00	H
ATOM	726	2HH1	ARG A 242	33.516	-14.985	-49.045	1.00	0.00	H
ATOM	727	1HH2	ARG A 242	30.372	-16.184	-48.326	1.00	0.00	H
ATOM	728	2HH2	ARG A 242	31.361	-14.793	-48.632	1.00	0.00	H
ATOM	729	HA	ARG A 242	32.844	-22.432	-46.640	1.00	27.91	H
ATOM	730	HB1	ARG A 242	35.092	-20.571	-47.423	1.00	27.91	H
ATOM	731	HB2	ARG A 242	34.151	-21.526	-48.594	1.00	27.91	H
ATOM	732	HG1	ARG A 242	32.069	-20.468	-47.806	1.00	27.91	H
ATOM	733	HG2	ARG A 242	32.988	-19.538	-46.598	1.00	27.91	H
ATOM	734	HD1	ARG A 242	34.222	-18.403	-48.418	1.00	27.91	H
ATOM	735	HD2	ARG A 242	33.286	-19.324	-49.621	1.00	27.91	H
ATOM	736	N	GLY A 243	35.482	-23.836	-45.764	1.00	28.24	N
ATOM	737	CA	GLY A 243	36.289	-25.056	-45.808	1.00	28.47	C
ATOM	738	C	GLY A 243	35.466	-26.342	-45.929	1.00	28.74	C

ATOM	739	O	GLY A 243	34.333	-26.424	-45.435	1.00	28.70	O
ATOM	740	HN	GLY A 243	35.528	-23.289	-44.911	1.00	0.00	H
ATOM	741	HA1	GLY A 243	36.957	-24.994	-46.667	1.00	28.54	H
ATOM	742	HA2	GLY A 243	36.878	-25.111	-44.892	1.00	28.54	H
ATOM	743	N	ILE A 244	36.051	-27.347	-46.587	1.00	29.04	N
ATOM	744	CA	ILE A 244	35.428	-28.644	-46.885	1.00	29.36	C
ATOM	745	C	ILE A 244	35.351	-29.481	-45.607	1.00	29.31	C
ATOM	746	O	ILE A 244	36.378	-29.747	-44.991	1.00	29.18	O
ATOM	747	CB	ILE A 244	36.208	-29.404	-47.989	1.00	29.73	C
ATOM	748	CG1	ILE A 244	36.279	-28.617	-49.320	1.00	29.85	C
ATOM	749	CG2	ILE A 244	35.559	-30.776	-48.262	1.00	30.08	C
ATOM	750	CD1	ILE A 244	37.524	-27.728	-49.446	1.00	29.71	C
ATOM	751	HN	ILE A 244	37.018	-27.217	-46.856	1.00	0.00	H
ATOM	752	HA	ILE A 244	34.413	-28.465	-47.241	1.00	29.53	H
ATOM	753	HB	ILE A 244	37.226	-29.571	-47.636	1.00	29.53	H
ATOM	754	1HG1	ILE A 244	36.282	-29.332	-50.143	1.00	29.53	H
ATOM	755	2HG1	ILE A 244	35.395	-27.983	-49.392	1.00	29.53	H
ATOM	756	1HG2	ILE A 244	36.119	-31.295	-49.039	1.00	29.53	H
ATOM	757	2HG2	ILE A 244	34.530	-30.633	-48.591	1.00	29.53	H
ATOM	758	3HG2	ILE A 244	35.568	-31.371	-47.349	1.00	29.53	H
ATOM	759	1HD1	ILE A 244	37.504	-27.208	-50.404	1.00	29.53	H
ATOM	760	2HD1	ILE A 244	38.420	-28.346	-49.387	1.00	29.53	H
ATOM	761	3HD1	ILE A 244	37.533	-26.998	-48.637	1.00	29.53	H
ATOM	762	N	ALA A 245	34.159	-29.948	-45.236	1.00	29.42	N
ATOM	763	CA	ALA A 245	33.963	-30.790	-44.056	1.00	29.35	C
ATOM	764	C	ALA A 245	34.711	-32.135	-44.170	1.00	29.63	C
ATOM	765	O	ALA A 245	34.429	-32.908	-45.084	1.00	30.00	O

ATOM	766	CB	ALA	A 245	32.458	-31.010	-43.870	1.00	29.41	C
ATOM	767	HN	ALA	A 245	33.364	-29.765	-45.824	1.00	0.00	H
ATOM	768	HA	ALA	A 245	34.344	-30.257	-43.185	1.00	29.56	H
ATOM	769	HB1	ALA	A 245	32.287	-31.636	-42.994	1.00	29.56	H
ATOM	770	HB2	ALA	A 245	32.050	-31.502	-44.753	1.00	29.56	H
ATOM	771	HB3	ALA	A 245	31.964	-30.048	-43.730	1.00	29.56	H
ATOM	772	N	LYS	A 246	35.543	-32.472	-43.174	1.00	29.46	N
ATOM	773	CA	LYS	A 246	36.100	-33.827	-42.992	1.00	29.72	C
ATOM	774	C	LYS	A 246	35.198	-34.707	-42.126	1.00	29.91	C
ATOM	775	O	LYS	A 246	34.843	-35.805	-42.534	1.00	30.30	O
ATOM	776	CB	LYS	A 246	37.522	-33.785	-42.403	1.00	29.50	C
ATOM	777	CG	LYS	A 246	38.550	-33.093	-43.319	1.00	29.57	C
ATOM	778	CD	LYS	A 246	39.937	-33.764	-43.287	1.00	29.86	C
ATOM	779	CE	LYS	A 246	40.583	-33.826	-41.896	1.00	29.66	C
ATOM	780	NZ	LYS	A 246	41.146	-32.527	-41.461	1.00	29.22	N1+
ATOM	781	HN	LYS	A 246	35.676	-31.791	-42.432	1.00	0.00	H
ATOM	782	HA	LYS	A 246	36.151	-34.326	-43.962	1.00	0.00	H
ATOM	783	HZ1	LYS	A 246	42.027	-32.307	-41.900	1.00	0.00	H
ATOM	784	HZ2	LYS	A 246	40.487	-31.776	-41.592	1.00	0.00	H
ATOM	785	HZ3	LYS	A 246	41.280	-32.562	-40.442	1.00	0.00	H
ATOM	786	HB1	LYS	A 246	37.487	-33.246	-41.456	1.00	29.69	H
ATOM	787	HB2	LYS	A 246	37.852	-34.809	-42.227	1.00	29.69	H
ATOM	788	HG1	LYS	A 246	38.176	-33.119	-44.342	1.00	29.69	H
ATOM	789	HG2	LYS	A 246	38.659	-32.057	-42.998	1.00	29.69	H
ATOM	790	HD1	LYS	A 246	39.830	-34.783	-43.658	1.00	29.69	H
ATOM	791	HD2	LYS	A 246	40.601	-33.204	-43.946	1.00	29.69	H
ATOM	792	HE1	LYS	A 246	39.826	-34.135	-41.175	1.00	29.69	H

ATOM	793	HE2	LYS	A 246	41.386	-34.562	-41.919	1.00	29.69	H
ATOM	794	N	GLN	A 247	34.765	-34.201	-40.969	1.00	29.65	N
ATOM	795	CA	GLN	A 247	33.913	-34.935	-40.025	1.00	29.82	C
ATOM	796	C	GLN	A 247	33.124	-33.981	-39.117	1.00	29.51	C
ATOM	797	O	GLN	A 247	33.687	-33.059	-38.531	1.00	29.17	O
ATOM	798	CB	GLN	A 247	34.737	-35.945	-39.200	1.00	29.98	C
ATOM	799	CG	GLN	A 247	35.890	-35.326	-38.395	1.00	29.64	C
ATOM	800	CD	GLN	A 247	36.834	-36.375	-37.824	1.00	29.83	C
ATOM	801	OE1	GLN	A 247	36.427	-37.392	-37.286	1.00	29.67	O
ATOM	802	NE2	GLN	A 247	38.125	-36.137	-37.864	1.00	30.19	N
ATOM	803	HN	GLN	A 247	35.093	-33.285	-40.697	1.00	0.00	H
ATOM	804	1HE2	GLN	A 247	38.475	-35.300	-38.342	1.00	0.00	H
ATOM	805	2HE2	GLN	A 247	38.735	-36.844	-37.503	1.00	0.00	H
ATOM	806	HA	GLN	A 247	33.190	-35.503	-40.610	1.00	29.72	H
ATOM	807	HB1	GLN	A 247	34.064	-36.442	-38.502	1.00	29.72	H
ATOM	808	HB2	GLN	A 247	35.158	-36.680	-39.886	1.00	29.72	H
ATOM	809	HG1	GLN	A 247	36.458	-34.665	-39.050	1.00	29.72	H
ATOM	810	HG2	GLN	A 247	35.470	-34.749	-37.571	1.00	29.72	H
ATOM	811	N	ARG	A 248	31.837	-34.276	-38.907	1.00	32.41	N
ATOM	812	CA	ARG	A 248	31.103	-33.890	-37.695	1.00	32.19	C
ATOM	813	C	ARG	A 248	31.421	-34.949	-36.644	1.00	32.21	C
ATOM	814	O	ARG	A 248	31.179	-36.117	-36.925	1.00	32.54	O
ATOM	815	CB	ARG	A 248	29.593	-33.830	-38.011	1.00	32.42	C
ATOM	816	CG	ARG	A 248	28.643	-33.750	-36.793	1.00	32.30	C
ATOM	817	CD	ARG	A 248	28.634	-32.399	-36.070	1.00	31.87	C
ATOM	818	NE	ARG	A 248	28.074	-31.348	-36.936	1.00	31.85	N
ATOM	819	CZ	ARG	A 248	27.935	-30.070	-36.650	1.00	31.55	C

ATOM	820	NH1 ARG A 248	27.457	-29.278	-37.554	1.00	31.55	N
ATOM	821	NH2 ARG A 248	28.225	-29.537	-35.499	1.00	31.24	N
ATOM	822	HN ARG A 248	31.490	-35.099	-39.379	1.00	0.00	H
ATOM	823	HE ARG A 248	27.794	-31.610	-37.867	1.00	0.00	H
ATOM	824	1HH1 ARG A 248	27.018	-29.651	-38.388	1.00	0.00	H
ATOM	825	2HH1 ARG A 248	27.295	-28.313	-37.258	1.00	0.00	H
ATOM	826	1HH2 ARG A 248	28.509	-30.101	-34.711	1.00	0.00	H
ATOM	827	2HH2 ARG A 248	28.038	-28.542	-35.383	1.00	0.00	H
ATOM	828	HA ARG A 248	31.447	-32.914	-37.351	1.00	32.01	H
ATOM	829	HB1 ARG A 248	29.417	-32.949	-38.628	1.00	32.01	H
ATOM	830	HB2 ARG A 248	29.336	-34.726	-38.575	1.00	32.01	H
ATOM	831	HG1 ARG A 248	27.630	-33.955	-37.140	1.00	32.01	H
ATOM	832	HG2 ARG A 248	28.945	-34.515	-36.077	1.00	32.01	H
ATOM	833	HD1 ARG A 248	28.027	-32.480	-35.168	1.00	32.01	H
ATOM	834	HD2 ARG A 248	29.655	-32.132	-35.798	1.00	32.01	H
ATOM	835	N ILE A 249	31.771	-34.553	-35.425	1.00	29.12	N
ATOM	836	CA ILE A 249	31.750	-35.455	-34.263	1.00	29.14	C
ATOM	837	C ILE A 249	30.752	-34.939	-33.231	1.00	29.00	C
ATOM	838	O ILE A 249	30.565	-33.728	-33.089	1.00	28.78	O
ATOM	839	CB ILE A 249	33.154	-35.736	-33.670	1.00	28.90	C
ATOM	840	CG1 ILE A 249	33.655	-34.642	-32.698	1.00	28.47	C
ATOM	841	CG2 ILE A 249	34.173	-36.033	-34.787	1.00	28.89	C
ATOM	842	CD1 ILE A 249	34.960	-35.011	-31.981	1.00	28.27	C
ATOM	843	HN ILE A 249	31.884	-33.559	-35.252	1.00	0.00	H
ATOM	844	HA ILE A 249	31.365	-36.411	-34.618	1.00	28.82	H
ATOM	845	HB ILE A 249	33.064	-36.651	-33.084	1.00	28.82	H
ATOM	846	1HG1 ILE A 249	33.820	-33.726	-33.265	1.00	28.82	H



ATOM	847	2HG1 ILE A 249	32.885	-34.470	-31.946	1.00	28.82	H
ATOM	848	1HG2 ILE A 249	35.151	-36.227	-34.346	1.00	28.82	H
ATOM	849	2HG2 ILE A 249	34.241	-35.175	-35.455	1.00	28.82	H
ATOM	850	3HG2 ILE A 249	33.850	-36.908	-35.351	1.00	28.82	H
ATOM	851	1HD1 ILE A 249	35.252	-34.198	-31.316	1.00	28.82	H
ATOM	852	2HD1 ILE A 249	35.746	-35.177	-32.718	1.00	28.82	H
ATOM	853	3HD1 ILE A 249	34.811	-35.920	-31.399	1.00	28.82	H
ATOM	854	N ILE A 250	30.161	-35.863	-32.480	1.00	34.08	N
ATOM	855	CA ILE A 250	29.270	-35.601	-31.348	1.00	33.97	C
ATOM	856	C ILE A 250	29.651	-36.582	-30.236	1.00	33.98	C
ATOM	857	O ILE A 250	29.774	-37.774	-30.502	1.00	34.32	O
ATOM	858	CB ILE A 250	27.786	-35.752	-31.761	1.00	34.29	C
ATOM	859	CG1 ILE A 250	27.451	-35.004	-33.077	1.00	34.21	C
ATOM	860	CG2 ILE A 250	26.899	-35.273	-30.599	1.00	34.23	C
ATOM	861	CD1 ILE A 250	25.974	-35.031	-33.481	1.00	34.57	C
ATOM	862	HN ILE A 250	30.328	-36.842	-32.707	1.00	0.00	H
ATOM	863	HA ILE A 250	29.437	-34.584	-30.995	1.00	34.21	H
ATOM	864	HB ILE A 250	27.588	-36.812	-31.919	1.00	34.21	H
ATOM	865	1HG1 ILE A 250	27.750	-33.962	-32.959	1.00	34.21	H
ATOM	866	2HG1 ILE A 250	28.029	-35.459	-33.881	1.00	34.21	H
ATOM	867	1HG2 ILE A 250	25.850	-35.374	-30.877	1.00	34.21	H
ATOM	868	2HG2 ILE A 250	27.118	-34.228	-30.381	1.00	34.21	H
ATOM	869	3HG2 ILE A 250	27.100	-35.878	-29.715	1.00	34.21	H
ATOM	870	1HD1 ILE A 250	25.842	-34.482	-34.413	1.00	34.21	H
ATOM	871	2HD1 ILE A 250	25.374	-34.567	-32.698	1.00	34.21	H
ATOM	872	3HD1 ILE A 250	25.654	-36.064	-33.620	1.00	34.21	H
ATOM	873	N GLY A 251	29.941	-36.107	-29.028	1.00	28.69	N

ATOM	874	CA	GLY A 251	30.489	-36.946	-27.958	1.00	28.65	C
ATOM	875	C	GLY A 251	30.115	-36.480	-26.557	1.00	28.38	C
ATOM	876	O	GLY A 251	29.592	-35.380	-26.385	1.00	28.18	O
ATOM	877	HN	GLY A 251	29.799	-35.119	-28.835	1.00	0.00	H
ATOM	878	HA1	GLY A 251	30.116	-37.961	-28.093	1.00	28.48	H
ATOM	879	HA2	GLY A 251	31.576	-36.943	-28.042	1.00	28.48	H
ATOM	880	N	VAL A 252	30.293	-37.366	-25.580	1.00	28.40	N
ATOM	881	CA	VAL A 252	29.871	-37.189	-24.182	1.00	28.19	C
ATOM	882	C	VAL A 252	30.884	-37.810	-23.218	1.00	28.01	C
ATOM	883	O	VAL A 252	31.718	-38.635	-23.610	1.00	28.16	O
ATOM	884	CB	VAL A 252	28.455	-37.761	-23.924	1.00	28.54	C
ATOM	885	CG1	VAL A 252	27.394	-37.154	-24.846	1.00	28.82	C
ATOM	886	CG2	VAL A 252	28.369	-39.279	-24.088	1.00	28.88	C
ATOM	887	HN	VAL A 252	30.743	-38.248	-25.812	1.00	0.00	H
ATOM	888	HA	VAL A 252	29.837	-36.118	-23.980	1.00	28.43	H
ATOM	889	HB	VAL A 252	28.181	-37.521	-22.897	1.00	28.43	H
ATOM	890	1HG1	VAL A 252	26.422	-37.592	-24.620	1.00	28.43	H
ATOM	891	2HG1	VAL A 252	27.653	-37.361	-25.884	1.00	28.43	H
ATOM	892	3HG1	VAL A 252	27.351	-36.076	-24.691	1.00	28.43	H
ATOM	893	1HG2	VAL A 252	27.349	-39.609	-23.892	1.00	28.43	H
ATOM	894	2HG2	VAL A 252	29.047	-39.760	-23.383	1.00	28.43	H
ATOM	895	3HG2	VAL A 252	28.649	-39.551	-25.105	1.00	28.43	H
ATOM	896	N	GLY A 253	30.778	-37.454	-21.939	1.00	27.71	N
ATOM	897	CA	GLY A 253	31.604	-38.038	-20.888	1.00	27.52	C
ATOM	898	C	GLY A 253	31.428	-37.386	-19.521	1.00	27.15	C
ATOM	899	O	GLY A 253	30.374	-36.827	-19.219	1.00	27.12	O
ATOM	900	HN	GLY A 253	30.100	-36.745	-21.678	1.00	0.00	H

ATOM	901	HA1	GLY A 253	31.348	-39.094	-20.799	1.00	27.38	H
ATOM	902	HA2	GLY A 253	32.649	-37.941	-21.181	1.00	27.38	H
ATOM	903	N	GLU A 254	32.484	-37.430	-18.709	1.00	34.09	N
ATOM	904	CA	GLU A 254	32.478	-37.058	-17.286	1.00	33.75	C
ATOM	905	C	GLU A 254	33.516	-35.946	-16.996	1.00	33.31	C
ATOM	906	O	GLU A 254	34.571	-35.894	-17.633	1.00	33.21	O
ATOM	907	CB	GLU A 254	32.691	-38.323	-16.420	1.00	33.76	C
ATOM	908	CG	GLU A 254	31.831	-39.526	-16.879	1.00	34.15	C
ATOM	909	CD	GLU A 254	31.691	-40.657	-15.847	1.00	34.03	C
ATOM	910	OE1	GLU A 254	32.668	-40.912	-15.109	1.00	33.63	O
ATOM	911	OE2	GLU A 254	30.652	-41.362	-15.901	1.00	34.34	O
ATOM	912	HN	GLU A 254	33.330	-37.865	-19.064	1.00	0.00	H
ATOM	913	HA	GLU A 254	31.491	-36.659	-17.052	1.00	33.81	H
ATOM	914	HB1	GLU A 254	33.742	-38.607	-16.474	1.00	33.81	H
ATOM	915	HB2	GLU A 254	32.431	-38.085	-15.389	1.00	33.81	H
ATOM	916	HG1	GLU A 254	30.832	-39.157	-17.114	1.00	33.81	H
ATOM	917	HG2	GLU A 254	32.286	-39.943	-17.778	1.00	33.81	H
ATOM	918	N	VAL A 255	33.189	-34.980	-16.124	1.00	25.87	N
ATOM	919	CA	VAL A 255	33.978	-33.741	-15.898	1.00	25.47	C
ATOM	920	C	VAL A 255	34.874	-33.844	-14.647	1.00	25.20	C
ATOM	921	O	VAL A 255	34.716	-33.103	-13.677	1.00	25.14	O
ATOM	922	CB	VAL A 255	33.088	-32.473	-15.905	1.00	25.38	C
ATOM	923	CG1	VAL A 255	33.923	-31.183	-15.995	1.00	24.99	C
ATOM	924	CG2	VAL A 255	32.144	-32.431	-17.114	1.00	25.63	C
ATOM	925	HN	VAL A 255	32.287	-35.043	-15.658	1.00	0.00	H
ATOM	926	HA	VAL A 255	34.651	-33.647	-16.750	1.00	25.38	H
ATOM	927	HB	VAL A 255	32.495	-32.450	-14.990	1.00	25.38	H

ATOM	928	1HG1 VAL A 255	33.259	-30.319	-15.997	1.00	25.38	H
ATOM	929	2HG1 VAL A 255	34.509	-31.192	-16.914	1.00	25.38	H
ATOM	930	3HG1 VAL A 255	34.594	-31.123	-15.138	1.00	25.38	H
ATOM	931	1HG2 VAL A 255	31.541	-31.524	-17.074	1.00	25.38	H
ATOM	932	2HG2 VAL A 255	31.489	-33.302	-17.095	1.00	25.38	H
ATOM	933	3HG2 VAL A 255	32.730	-32.437	-18.033	1.00	25.38	H
ATOM	934	N LEU A 256	35.668	-34.914	-14.577	1.00	25.04	N
ATOM	935	CA LEU A 256	36.375	-35.344	-13.362	1.00	24.83	C
ATOM	936	C LEU A 256	37.560	-34.429	-12.982	1.00	24.43	C
ATOM	937	O LEU A 256	38.222	-33.832	-13.839	1.00	24.39	O
ATOM	938	CB LEU A 256	36.827	-36.814	-13.502	1.00	25.04	C
ATOM	939	CG LEU A 256	35.766	-37.805	-14.024	1.00	25.50	C
ATOM	940	CD1 LEU A 256	36.387	-39.191	-14.190	1.00	25.67	C
ATOM	941	CD2 LEU A 256	34.568	-37.914	-13.081	1.00	25.62	C
ATOM	942	HN LEU A 256	35.735	-35.486	-15.405	1.00	0.00	H
ATOM	943	HA LEU A 256	35.659	-35.303	-12.541	1.00	25.07	H
ATOM	944	HB1 LEU A 256	37.672	-36.838	-14.190	1.00	25.07	H
ATOM	945	HB2 LEU A 256	37.149	-37.158	-12.519	1.00	25.07	H
ATOM	946	HG LEU A 256	35.415	-37.461	-14.997	1.00	25.07	H
ATOM	947	1HD1 LEU A 256	35.633	-39.886	-14.559	1.00	25.07	H
ATOM	948	2HD1 LEU A 256	36.762	-39.539	-13.228	1.00	25.07	H
ATOM	949	3HD1 LEU A 256	37.210	-39.138	-14.902	1.00	25.07	H
ATOM	950	1HD2 LEU A 256	33.847	-38.622	-13.489	1.00	25.07	H
ATOM	951	2HD2 LEU A 256	34.097	-36.937	-12.977	1.00	25.07	H
ATOM	952	3HD2 LEU A 256	34.904	-38.261	-12.104	1.00	25.07	H
ATOM	953	N ASP A 257	37.946	-34.451	-11.706	1.00	24.14	N
ATOM	954	CA ASP A 257	39.196	-33.878	-11.194	1.00	23.75	C

ATOM	955	C	ASP A 257	40.246	-34.976	-10.893	1.00	23.70	C
ATOM	956	O	ASP A 257	40.280	-36.018	-11.554	1.00	23.88	O
ATOM	957	CB	ASP A 257	38.898	-32.979	-9.981	1.00	23.51	C
ATOM	958	CG	ASP A 257	38.367	-33.704	-8.737	1.00	23.67	C
ATOM	959	OD1	ASP A 257	38.344	-33.037	-7.682	1.00	23.58	O
ATOM	960	OD2	ASP A 257	38.141	-34.932	-8.817	1.00	23.93	O
ATOM	961	HN	ASP A 257	37.426	-35.012	-11.041	1.00	0.00	H
ATOM	962	HA	ASP A 257	39.607	-33.241	-11.978	1.00	23.77	H
ATOM	963	HB1	ASP A 257	39.822	-32.471	-9.705	1.00	23.77	H
ATOM	964	HB2	ASP A 257	38.154	-32.242	-10.284	1.00	23.77	H
ATOM	965	N	ARG A 258	41.282	-34.591	-10.139	1.00	31.69	N
ATOM	966	CA	ARG A 258	42.198	-35.448	-9.365	1.00	31.57	C
ATOM	967	C	ARG A 258	42.535	-34.675	-8.076	1.00	31.15	C
ATOM	968	O	ARG A 258	42.035	-33.573	-7.877	1.00	31.05	O
ATOM	969	CB	ARG A 258	43.478	-35.822	-10.155	1.00	31.63	C
ATOM	970	CG	ARG A 258	43.325	-36.719	-11.398	1.00	32.06	C
ATOM	971	CD	ARG A 258	43.109	-36.073	-12.781	1.00	32.29	C
ATOM	972	NE	ARG A 258	43.115	-34.595	-12.795	1.00	32.04	N
ATOM	973	CZ	ARG A 258	42.185	-33.803	-13.287	1.00	32.01	C
ATOM	974	NH1	ARG A 258	41.069	-34.259	-13.779	1.00	32.22	N
ATOM	975	NH2	ARG A 258	42.341	-32.522	-13.233	1.00	31.79	N
ATOM	976	HN	ARG A 258	41.182	-33.660	-9.752	1.00	0.00	H
ATOM	977	HE	ARG A 258	43.899	-34.109	-12.353	1.00	0.00	H
ATOM	978	1HH1	ARG A 258	40.810	-35.185	-13.468	1.00	0.00	H
ATOM	979	2HH1	ARG A 258	40.301	-33.622	-13.952	1.00	0.00	H
ATOM	980	1HH2	ARG A 258	43.031	-32.183	-12.557	1.00	0.00	H
ATOM	981	2HH2	ARG A 258	41.523	-31.931	-13.333	1.00	0.00	H

ATOM	982	HA	ARG A 258	41.674	-36.365	-9.095	1.00	31.77	H
ATOM	983	HB1	ARG A 258	43.940	-34.891	-10.482	1.00	31.77	H
ATOM	984	HB2	ARG A 258	44.146	-36.337	-9.464	1.00	31.77	H
ATOM	985	HG1	ARG A 258	44.231	-37.321	-11.468	1.00	31.77	H
ATOM	986	HG2	ARG A 258	42.470	-37.370	-11.215	1.00	31.77	H
ATOM	987	HD1	ARG A 258	43.903	-36.419	-13.442	1.00	31.77	H
ATOM	988	HD2	ARG A 258	42.145	-36.409	-13.163	1.00	31.77	H
ATOM	989	N	GLY A 259	43.596	-35.062	-7.362	1.00	41.93	N
ATOM	990	CA	GLY A 259	44.176	-34.263	-6.269	1.00	41.54	C
ATOM	991	C	GLY A 259	44.690	-32.857	-6.646	1.00	41.30	C
ATOM	992	O	GLY A 259	44.931	-32.060	-5.744	1.00	41.02	O
ATOM	993	HN	GLY A 259	44.026	-35.941	-7.599	1.00	0.00	H
ATOM	994	HA1	GLY A 259	43.409	-34.142	-5.504	1.00	41.45	H
ATOM	995	HA2	GLY A 259	45.015	-34.824	-5.857	1.00	41.45	H
ATOM	996	N	ASP A 260	44.791	-32.516	-7.939	1.00	50.86	N
ATOM	997	CA	ASP A 260	45.023	-31.142	-8.429	1.00	50.70	C
ATOM	998	C	ASP A 260	43.776	-30.226	-8.348	1.00	50.79	C
ATOM	999	O	ASP A 260	43.902	-28.999	-8.368	1.00	50.71	O
ATOM	1000	CB	ASP A 260	45.555	-31.212	-9.873	1.00	50.84	C
ATOM	1001	CG	ASP A 260	44.575	-31.843	-10.870	1.00	50.90	C
ATOM	1002	OD1	ASP A 260	44.907	-32.873	-11.493	1.00	50.67	O
ATOM	1003	OD2	ASP A 260	43.434	-31.354	-11.002	1.00	51.19	O
ATOM	1004	HN	ASP A 260	44.544	-33.209	-8.628	1.00	0.00	H
ATOM	1005	HA	ASP A 260	45.802	-30.697	-7.810	1.00	50.83	H
ATOM	1006	HB1	ASP A 260	45.777	-30.198	-10.206	1.00	50.83	H
ATOM	1007	HB2	ASP A 260	46.471	-31.803	-9.872	1.00	50.83	H
ATOM	1008	N	LYS A 261	42.591	-30.830	-8.185	1.00	22.34	N

ATOM	1009	CA	LYS A 261	41.266	-30.221	-7.978	1.00	22.44	C
ATOM	1010	C	LYS A 261	40.802	-29.293	-9.107	1.00	22.62	C
ATOM	1011	O	LYS A 261	40.002	-28.384	-8.881	1.00	22.63	O
ATOM	1012	CB	LYS A 261	41.139	-29.638	-6.559	1.00	22.15	C
ATOM	1013	CG	LYS A 261	41.757	-30.591	-5.520	1.00	21.90	C
ATOM	1014	CD	LYS A 261	41.205	-30.392	-4.115	1.00	21.66	C
ATOM	1015	CE	LYS A 261	41.977	-31.307	-3.158	1.00	21.44	C
ATOM	1016	NZ	LYS A 261	41.169	-31.616	-1.960	1.00	21.17	N1+
ATOM	1017	HN	LYS A 261	42.608	-31.843	-8.160	1.00	0.00	H
ATOM	1018	HZ1	LYS A 261	41.681	-31.991	-1.183	1.00	0.00	H
ATOM	1019	HZ2	LYS A 261	40.403	-32.259	-2.193	1.00	0.00	H
ATOM	1020	HZ3	LYS A 261	40.583	-30.822	-1.686	1.00	0.00	H
ATOM	1021	HA	LYS A 261	40.568	-31.058	-8.000	1.00	22.04	H
ATOM	1022	HB1	LYS A 261	41.658	-28.680	-6.518	1.00	22.04	H
ATOM	1023	HB2	LYS A 261	40.084	-29.491	-6.326	1.00	22.04	H
ATOM	1024	HG1	LYS A 261	41.555	-31.617	-5.829	1.00	22.04	H
ATOM	1025	HG2	LYS A 261	42.834	-30.424	-5.495	1.00	22.04	H
ATOM	1026	HD1	LYS A 261	41.333	-29.352	-3.813	1.00	22.04	H
ATOM	1027	HD2	LYS A 261	40.146	-30.649	-4.096	1.00	22.04	H
ATOM	1028	HE1	LYS A 261	42.223	-32.236	-3.672	1.00	22.04	H
ATOM	1029	HE2	LYS A 261	42.896	-30.808	-2.850	1.00	22.04	H
ATOM	1030	N	VAL A 262	41.310	-29.508	-10.324	1.00	46.68	N
ATOM	1031	CA	VAL A 262	40.851	-28.860	-11.563	1.00	46.91	C
ATOM	1032	C	VAL A 262	39.850	-29.779	-12.285	1.00	47.22	C
ATOM	1033	O	VAL A 262	40.228	-30.897	-12.642	1.00	47.27	O
ATOM	1034	CB	VAL A 262	42.044	-28.531	-12.488	1.00	46.93	C
ATOM	1035	CG1	VAL A 262	41.592	-27.774	-13.744	1.00	47.26	C

ATOM	1036	CG2 VAL A 262	43.100	-27.665	-11.783	1.00	46.71	C
ATOM	1037	HN VAL A 262	42.001	-30.251	-10.416	1.00	0.00	H
ATOM	1038	HA VAL A 262	40.345	-27.930	-11.303	1.00	47.00	H
ATOM	1039	HB VAL A 262	42.512	-29.466	-12.796	1.00	47.00	H
ATOM	1040	1HG1 VAL A 262	42.458	-27.560	-14.371	1.00	47.00	H
ATOM	1041	2HG1 VAL A 262	41.114	-26.838	-13.453	1.00	47.00	H
ATOM	1042	3HG1 VAL A 262	40.883	-28.385	-14.302	1.00	47.00	H
ATOM	1043	1HG2 VAL A 262	43.920	-27.459	-12.471	1.00	47.00	H
ATOM	1044	2HG2 VAL A 262	43.483	-28.196	-10.911	1.00	47.00	H
ATOM	1045	3HG2 VAL A 262	42.647	-26.725	-11.466	1.00	47.00	H
ATOM	1046	N PRO A 263	38.633	-29.325	-12.636	1.00	23.53	N
ATOM	1047	CA PRO A 263	37.737	-30.097	-13.493	1.00	23.88	C
ATOM	1048	C PRO A 263	38.317	-30.226	-14.910	1.00	24.06	C
ATOM	1049	O PRO A 263	38.679	-29.220	-15.524	1.00	23.93	O
ATOM	1050	CB PRO A 263	36.395	-29.355	-13.495	1.00	24.04	C
ATOM	1051	CG PRO A 263	36.512	-28.293	-12.401	1.00	23.78	C
ATOM	1052	CD PRO A 263	38.012	-28.077	-12.239	1.00	23.49	C
ATOM	1053	HA PRO A 263	37.599	-31.091	-13.068	1.00	23.82	H
ATOM	1054	HB1 PRO A 263	36.221	-28.886	-14.463	1.00	23.82	H
ATOM	1055	HB2 PRO A 263	35.579	-30.043	-13.272	1.00	23.82	H
ATOM	1056	HG1 PRO A 263	36.021	-27.369	-12.707	1.00	23.82	H
ATOM	1057	HG2 PRO A 263	36.071	-28.649	-11.470	1.00	23.82	H
ATOM	1058	HD1 PRO A 263	38.350	-27.263	-12.881	1.00	23.82	H
ATOM	1059	HD2 PRO A 263	38.253	-27.846	-11.201	1.00	23.82	H
ATOM	1060	N SER A 264	38.291	-31.436	-15.468	1.00	24.37	N
ATOM	1061	CA SER A 264	38.810	-31.763	-16.805	1.00	24.59	C
ATOM	1062	C SER A 264	37.825	-32.657	-17.558	1.00	24.99	C



ATOM	1063	O	SER A 264	37.125	-33.456	-16.944	1.00	25.12	O
ATOM	1064	CB	SER A 264	40.164	-32.477	-16.705	1.00	24.49	C
ATOM	1065	OG	SER A 264	41.124	-31.675	-16.042	1.00	24.25	O
ATOM	1066	HN	SER A 264	37.953	-32.215	-14.909	1.00	0.00	H
ATOM	1067	HG	SER A 264	41.895	-32.214	-15.835	1.00	0.00	H
ATOM	1068	HA	SER A 264	38.942	-30.838	-17.366	1.00	24.64	H
ATOM	1069	HB1	SER A 264	40.034	-33.406	-16.150	1.00	24.63	H
ATOM	1070	HB2	SER A 264	40.522	-32.700	-17.710	1.00	24.63	H
ATOM	1071	N	MET A 265	37.794	-32.583	-18.893	1.00	25.19	N
ATOM	1072	CA	MET A 265	36.953	-33.487	-19.689	1.00	25.58	C
ATOM	1073	C	MET A 265	37.548	-34.907	-19.730	1.00	25.81	C
ATOM	1074	O	MET A 265	38.710	-35.079	-20.101	1.00	25.75	O
ATOM	1075	CB	MET A 265	36.683	-32.908	-21.096	1.00	25.71	C
ATOM	1076	CG	MET A 265	37.801	-33.132	-22.126	1.00	26.00	C
ATOM	1077	SD	MET A 265	37.475	-32.467	-23.779	1.00	26.23	S
ATOM	1078	CE	MET A 265	38.726	-33.401	-24.702	1.00	26.60	C
ATOM	1079	HN	MET A 265	38.430	-31.965	-19.370	1.00	0.00	H
ATOM	1080	HA	MET A 265	35.991	-33.558	-19.182	1.00	25.86	H
ATOM	1081	HB1	MET A 265	35.774	-33.370	-21.481	1.00	25.86	H
ATOM	1082	HB2	MET A 265	36.530	-31.834	-20.994	1.00	25.86	H
ATOM	1083	HG1	MET A 265	38.708	-32.661	-21.746	1.00	25.86	H
ATOM	1084	HG2	MET A 265	37.961	-34.206	-22.221	1.00	25.86	H
ATOM	1085	HE1	MET A 265	38.681	-33.126	-25.756	1.00	25.86	H
ATOM	1086	HE2	MET A 265	38.533	-34.469	-24.597	1.00	25.86	H
ATOM	1087	HE3	MET A 265	39.716	-33.171	-24.308	1.00	25.86	H
ATOM	1088	N	PHE A 266	36.693	-35.919	-19.593	1.00	34.60	N
ATOM	1089	CA	PHE A 266	36.995	-37.317	-19.899	1.00	34.90	C

ATOM	1090	C	PHE A 266	35.923	-37.859	-20.844	1.00	35.34	C
ATOM	1091	O	PHE A 266	34.844	-38.255	-20.409	1.00	35.52	O
ATOM	1092	CB	PHE A 266	37.115	-38.134	-18.601	1.00	34.77	C
ATOM	1093	CG	PHE A 266	38.318	-37.750	-17.761	1.00	34.36	C
ATOM	1094	CD1	PHE A 266	39.526	-38.464	-17.878	1.00	34.35	C
ATOM	1095	CD2	PHE A 266	38.245	-36.648	-16.892	1.00	33.99	C
ATOM	1096	CE1	PHE A 266	40.654	-38.076	-17.131	1.00	33.96	C
ATOM	1097	CE2	PHE A 266	39.373	-36.255	-16.155	1.00	33.61	C
ATOM	1098	CZ	PHE A 266	40.578	-36.967	-16.270	1.00	33.59	C
ATOM	1099	HN	PHE A 266	35.799	-35.736	-19.143	1.00	0.00	H
ATOM	1100	HA	PHE A 266	37.954	-37.354	-20.415	1.00	34.45	H
ATOM	1101	HB1	PHE A 266	36.214	-37.976	-18.008	1.00	34.45	H
ATOM	1102	HB2	PHE A 266	37.198	-39.189	-18.862	1.00	34.45	H
ATOM	1103	HD1	PHE A 266	39.588	-39.320	-18.550	1.00	34.45	H
ATOM	1104	HD2	PHE A 266	37.310	-36.097	-16.790	1.00	34.45	H
ATOM	1105	HE1	PHE A 266	41.586	-38.635	-17.220	1.00	34.45	H
ATOM	1106	HE2	PHE A 266	39.313	-35.393	-15.490	1.00	34.45	H
ATOM	1107	HZ	PHE A 266	41.451	-36.661	-15.694	1.00	34.45	H
ATOM	1108	N	MET A 267	36.181	-37.771	-22.155	1.00	32.46	N
ATOM	1109	CA	MET A 267	35.320	-38.365	-23.188	1.00	32.90	C
ATOM	1110	C	MET A 267	35.211	-39.876	-22.971	1.00	33.24	C
ATOM	1111	O	MET A 267	36.225	-40.571	-22.988	1.00	33.24	O
ATOM	1112	CB	MET A 267	35.903	-38.117	-24.590	1.00	33.04	C
ATOM	1113	CG	MET A 267	35.610	-36.726	-25.154	1.00	32.94	C
ATOM	1114	SD	MET A 267	33.900	-36.525	-25.725	1.00	33.35	S
ATOM	1115	CE	MET A 267	34.105	-35.118	-26.844	1.00	33.21	C
ATOM	1116	HN	MET A 267	37.089	-37.440	-22.431	1.00	0.00	H

ATOM	1117	HA	MET A 267	34.327	-37.920	-23.128	1.00	33.05	H
ATOM	1118	HB1	MET A 267	36.984	-38.244	-24.538	1.00	33.05	H
ATOM	1119	HB2	MET A 267	35.483	-38.857	-25.271	1.00	33.05	H
ATOM	1120	HG1	MET A 267	35.802	-35.990	-24.374	1.00	33.05	H
ATOM	1121	HG2	MET A 267	36.279	-36.547	-25.996	1.00	33.05	H
ATOM	1122	HE1	MET A 267	33.142	-34.861	-27.285	1.00	33.05	H
ATOM	1123	HE2	MET A 267	34.808	-35.381	-27.635	1.00	33.05	H
ATOM	1124	HE3	MET A 267	34.489	-34.263	-26.287	1.00	33.05	H
ATOM	1125	N	THR A 268	33.985	-40.387	-22.891	1.00	28.08	N
ATOM	1126	CA	THR A 268	33.703	-41.827	-22.769	1.00	28.46	C
ATOM	1127	C	THR A 268	33.118	-42.422	-24.052	1.00	28.95	C
ATOM	1128	O	THR A 268	33.195	-43.633	-24.258	1.00	29.26	O
ATOM	1129	CB	THR A 268	32.724	-42.088	-21.619	1.00	28.53	C
ATOM	1130	OG1	THR A 268	31.494	-41.477	-21.922	1.00	28.68	O
ATOM	1131	CG2	THR A 268	33.207	-41.548	-20.274	1.00	28.08	C
ATOM	1132	HN	THR A 268	33.187	-39.755	-22.898	1.00	0.00	H
ATOM	1133	HG1	THR A 268	30.965	-41.423	-21.100	1.00	0.00	H
ATOM	1134	HA	THR A 268	34.638	-42.342	-22.547	1.00	28.58	H
ATOM	1135	HB	THR A 268	32.568	-43.163	-21.529	1.00	28.58	H
ATOM	1136	1HG2	THR A 268	32.465	-41.768	-19.506	1.00	28.58	H
ATOM	1137	2HG2	THR A 268	33.348	-40.469	-20.344	1.00	28.58	H
ATOM	1138	3HG2	THR A 268	34.153	-42.021	-20.011	1.00	28.58	H
ATOM	1139	N	ASN A 269	32.483	-41.596	-24.892	1.00	29.03	N
ATOM	1140	CA	ASN A 269	31.578	-42.047	-25.944	1.00	29.52	C
ATOM	1141	C	ASN A 269	31.463	-40.992	-27.059	1.00	29.43	C
ATOM	1142	O	ASN A 269	31.212	-39.821	-26.777	1.00	29.07	O
ATOM	1143	CB	ASN A 269	30.227	-42.297	-25.259	1.00	29.73	C

ATOM	1144	CG	ASN A 269	29.172	-42.950	-26.119	1.00	30.31	C
ATOM	1145	OD1	ASN A 269	29.389	-43.365	-27.246	1.00	30.61	O
ATOM	1146	ND2	ASN A 269	28.011	-43.149	-25.555	1.00	30.49	N
ATOM	1147	HN	ASN A 269	32.390	-40.630	-24.597	1.00	0.00	H
ATOM	1148	1HD2	ASN A 269	27.888	-42.862	-24.587	1.00	0.00	H
ATOM	1149	2HD2	ASN A 269	27.297	-43.654	-26.061	1.00	0.00	H
ATOM	1150	HA	ASN A 269	31.949	-42.981	-26.366	1.00	29.77	H
ATOM	1151	HB1	ASN A 269	30.402	-42.940	-24.397	1.00	29.77	H
ATOM	1152	HB2	ASN A 269	29.838	-41.336	-24.923	1.00	29.77	H
ATOM	1153	N	VAL A 270	31.651	-41.389	-28.324	1.00	29.75	N
ATOM	1154	CA	VAL A 270	31.692	-40.483	-29.488	1.00	29.65	C
ATOM	1155	C	VAL A 270	31.021	-41.129	-30.704	1.00	30.11	C
ATOM	1156	O	VAL A 270	31.187	-42.323	-30.953	1.00	30.49	O
ATOM	1157	CB	VAL A 270	33.138	-40.040	-29.823	1.00	29.46	C
ATOM	1158	CG1	VAL A 270	33.187	-39.019	-30.971	1.00	29.48	C
ATOM	1159	CG2	VAL A 270	33.861	-39.398	-28.627	1.00	28.96	C
ATOM	1160	HN	VAL A 270	31.775	-42.375	-28.506	1.00	0.00	H
ATOM	1161	HA	VAL A 270	31.123	-39.589	-29.232	1.00	29.70	H
ATOM	1162	HB	VAL A 270	33.702	-40.922	-30.128	1.00	29.70	H
ATOM	1163	1HG1	VAL A 270	34.223	-38.741	-31.167	1.00	29.70	H
ATOM	1164	2HG1	VAL A 270	32.619	-38.131	-30.693	1.00	29.70	H
ATOM	1165	3HG1	VAL A 270	32.754	-39.460	-31.869	1.00	29.70	H
ATOM	1166	1HG2	VAL A 270	34.869	-39.109	-28.924	1.00	29.70	H
ATOM	1167	2HG2	VAL A 270	33.916	-40.115	-27.808	1.00	29.70	H
ATOM	1168	3HG2	VAL A 270	33.311	-38.515	-28.301	1.00	29.70	H
ATOM	1169	N	TRP A 271	30.305	-40.328	-31.492	1.00	30.07	N
ATOM	1170	CA	TRP A 271	29.620	-40.709	-32.726	1.00	30.51	C

ATOM	1171	C	TRP A 271	29.911	-39.712	-33.859	1.00	30.47	C
ATOM	1172	O	TRP A 271	30.058	-38.509	-33.628	1.00	30.13	O
ATOM	1173	CB	TRP A 271	28.120	-40.844	-32.439	1.00	30.64	C
ATOM	1174	CG	TRP A 271	27.261	-41.177	-33.621	1.00	31.10	C
ATOM	1175	CD1	TRP A 271	27.079	-42.416	-34.125	1.00	31.61	C
ATOM	1176	CD2	TRP A 271	26.498	-40.279	-34.487	1.00	31.10	C
ATOM	1177	NE1	TRP A 271	26.255	-42.354	-35.231	1.00	31.93	N
ATOM	1178	CE2	TRP A 271	25.853	-41.062	-35.491	1.00	31.62	C
ATOM	1179	CE3	TRP A 271	26.269	-38.887	-34.514	1.00	30.73	C
ATOM	1180	CZ2	TRP A 271	25.015	-40.498	-36.465	1.00	31.75	C
ATOM	1181	CZ3	TRP A 271	25.418	-38.311	-35.477	1.00	30.87	C
ATOM	1182	CH2	TRP A 271	24.795	-39.111	-36.453	1.00	31.36	C
ATOM	1183	HN	TRP A 271	30.218	-39.355	-31.218	1.00	0.00	H
ATOM	1184	HE1	TRP A 271	26.002	-43.166	-35.774	1.00	0.00	H
ATOM	1185	HA	TRP A 271	29.994	-41.686	-33.032	1.00	30.99	H
ATOM	1186	HB1	TRP A 271	27.990	-41.633	-31.698	1.00	30.99	H
ATOM	1187	HB2	TRP A 271	27.771	-39.897	-32.027	1.00	30.99	H
ATOM	1188	HD1	TRP A 271	27.517	-43.328	-33.720	1.00	30.99	H
ATOM	1189	HE3	TRP A 271	26.758	-38.248	-33.779	1.00	30.99	H
ATOM	1190	HZ2	TRP A 271	24.542	-41.127	-37.219	1.00	30.99	H
ATOM	1191	HZ3	TRP A 271	25.240	-37.236	-35.466	1.00	30.99	H
ATOM	1192	HH2	TRP A 271	24.143	-38.655	-37.198	1.00	30.99	H
ATOM	1193	N	THR A 272	29.888	-40.214	-35.095	1.00	30.85	N
ATOM	1194	CA	THR A 272	30.163	-39.468	-36.332	1.00	30.86	C
ATOM	1195	C	THR A 272	29.091	-39.822	-37.372	1.00	31.24	C
ATOM	1196	O	THR A 272	28.882	-41.012	-37.619	1.00	31.69	O
ATOM	1197	CB	THR A 272	31.572	-39.808	-36.852	1.00	31.00	C

ATOM	1198	OG1 THR A 272	32.533	-39.287	-35.963	1.00	30.68	O
ATOM	1199	CG2 THR A 272	31.900	-39.245	-38.235	1.00	30.94	C
ATOM	1200	HN THR A 272	29.656	-41.190	-35.201	1.00	0.00	H
ATOM	1201	HG1 THR A 272	33.399	-39.393	-36.365	1.00	0.00	H
ATOM	1202	HA THR A 272	30.112	-38.400	-36.120	1.00	31.04	H
ATOM	1203	HB THR A 272	31.679	-40.892	-36.883	1.00	31.04	H
ATOM	1204	1HG2 THR A 272	32.912	-39.536	-38.516	1.00	31.04	H
ATOM	1205	2HG2 THR A 272	31.829	-38.158	-38.211	1.00	31.04	H
ATOM	1206	3HG2 THR A 272	31.193	-39.639	-38.965	1.00	31.04	H
ATOM	1207	N PRO A 273	28.410	-38.849	-38.012	1.00	31.08	N
ATOM	1208	CA PRO A 273	27.413	-39.142	-39.040	1.00	31.46	C
ATOM	1209	C PRO A 273	28.034	-39.779	-40.297	1.00	31.70	C
ATOM	1210	O PRO A 273	29.108	-39.344	-40.714	1.00	31.47	O
ATOM	1211	CB PRO A 273	26.752	-37.806	-39.394	1.00	31.19	C
ATOM	1212	CG PRO A 273	27.151	-36.850	-38.276	1.00	30.68	C
ATOM	1213	CD PRO A 273	28.472	-37.419	-37.768	1.00	30.60	C
ATOM	1214	HA PRO A 273	26.662	-39.817	-38.630	1.00	31.17	H
ATOM	1215	HB1 PRO A 273	27.117	-37.443	-40.355	1.00	31.17	H
ATOM	1216	HB2 PRO A 273	25.668	-37.915	-39.434	1.00	31.17	H
ATOM	1217	HG1 PRO A 273	27.285	-35.838	-38.659	1.00	31.17	H
ATOM	1218	HG2 PRO A 273	26.401	-36.843	-37.485	1.00	31.17	H
ATOM	1219	HD1 PRO A 273	29.308	-36.978	-38.311	1.00	31.17	H
ATOM	1220	HD2 PRO A 273	28.585	-37.221	-36.702	1.00	31.17	H
ATOM	1221	N PRO A 274	27.249	-40.544	-41.084	1.00	32.17	N
ATOM	1222	CA PRO A 274	27.665	-41.048	-42.400	1.00	32.50	C
ATOM	1223	C PRO A 274	27.792	-39.963	-43.490	1.00	32.32	C
ATOM	1224	O PRO A 274	28.243	-40.257	-44.594	1.00	32.50	O

ATOM	1225	CB	PRO A 274	26.621	-42.109	-42.767	1.00	33.03	C
ATOM	1226	CG	PRO A 274	25.361	-41.620	-42.056	1.00	32.87	C
ATOM	1227	CD	PRO A 274	25.912	-41.024	-40.762	1.00	32.44	C
ATOM	1228	HA	PRO A 274	28.631	-41.540	-42.290	1.00	32.55	H
ATOM	1229	HB1	PRO A 274	26.469	-42.151	-43.846	1.00	32.55	H
ATOM	1230	HB2	PRO A 274	26.919	-43.092	-42.403	1.00	32.55	H
ATOM	1231	HG1	PRO A 274	24.845	-40.864	-42.648	1.00	32.55	H
ATOM	1232	HG2	PRO A 274	24.681	-42.447	-41.849	1.00	32.55	H
ATOM	1233	HD1	PRO A 274	25.283	-40.199	-40.426	1.00	32.55	H
ATOM	1234	HD2	PRO A 274	25.959	-41.786	-39.984	1.00	32.55	H
ATOM	1235	N	ASN A 275	27.436	-38.706	-43.198	1.00	32.01	N
ATOM	1236	CA	ASN A 275	27.847	-37.545	-43.986	1.00	31.73	C
ATOM	1237	C	ASN A 275	28.017	-36.307	-43.074	1.00	31.21	C
ATOM	1238	O	ASN A 275	27.078	-35.951	-42.359	1.00	31.14	O
ATOM	1239	CB	ASN A 275	26.834	-37.294	-45.114	1.00	31.96	C
ATOM	1240	CG	ASN A 275	27.359	-36.265	-46.096	1.00	31.71	C
ATOM	1241	OD1	ASN A 275	27.651	-35.133	-45.749	1.00	31.31	O
ATOM	1242	ND2	ASN A 275	27.756	-36.688	-47.272	1.00	31.95	N
ATOM	1243	HN	ASN A 275	27.096	-38.522	-42.268	1.00	0.00	H
ATOM	1244	1HD2	ASN A 275	27.652	-37.654	-47.523	1.00	0.00	H
ATOM	1245	2HD2	ASN A 275	28.212	-36.014	-47.860	1.00	0.00	H
ATOM	1246	HA	ASN A 275	28.813	-37.767	-44.440	1.00	31.63	H
ATOM	1247	HB1	ASN A 275	26.650	-38.229	-45.642	1.00	31.63	H
ATOM	1248	HB2	ASN A 275	25.902	-36.931	-44.682	1.00	31.63	H
ATOM	1249	N	PRO A 276	29.185	-35.635	-43.072	1.00	30.86	N
ATOM	1250	CA	PRO A 276	29.442	-34.504	-42.181	1.00	30.41	C
ATOM	1251	C	PRO A 276	28.842	-33.176	-42.668	1.00	30.19	C

ATOM	1252	O	PRO A 276	28.701	-32.247	-41.877	1.00	29.83	O
ATOM	1253	CB	PRO A 276	30.966	-34.435	-42.124	1.00	30.19	C
ATOM	1254	CG	PRO A 276	31.396	-34.856	-43.527	1.00	30.41	C
ATOM	1255	CD	PRO A 276	30.382	-35.954	-43.845	1.00	30.88	C
ATOM	1256	HA	PRO A 276	29.054	-34.732	-41.188	1.00	30.40	H
ATOM	1257	HB1	PRO A 276	31.302	-33.422	-41.902	1.00	30.40	H
ATOM	1258	HB2	PRO A 276	31.359	-35.122	-41.374	1.00	30.40	H
ATOM	1259	HG1	PRO A 276	31.319	-34.028	-44.231	1.00	30.40	H
ATOM	1260	HG2	PRO A 276	32.415	-35.243	-43.531	1.00	30.40	H
ATOM	1261	HD1	PRO A 276	30.153	-35.961	-44.911	1.00	30.40	H
ATOM	1262	HD2	PRO A 276	30.774	-36.928	-43.551	1.00	30.40	H
ATOM	1263	N	SER A 277	28.540	-33.051	-43.964	1.00	30.43	N
ATOM	1264	CA	SER A 277	28.065	-31.815	-44.598	1.00	30.27	C
ATOM	1265	C	SER A 277	26.572	-31.546	-44.394	1.00	30.24	C
ATOM	1266	O	SER A 277	26.124	-30.444	-44.695	1.00	29.99	O
ATOM	1267	CB	SER A 277	28.344	-31.868	-46.105	1.00	30.54	C
ATOM	1268	OG	SER A 277	29.722	-32.085	-46.352	1.00	30.71	O
ATOM	1269	HN	SER A 277	28.644	-33.861	-44.568	1.00	0.00	H
ATOM	1270	HG	SER A 277	30.202	-31.284	-46.138	1.00	0.00	H
ATOM	1271	HA	SER A 277	28.623	-30.979	-44.177	1.00	30.36	H
ATOM	1272	HB1	SER A 277	27.769	-32.682	-46.547	1.00	30.36	H
ATOM	1273	HB2	SER A 277	28.044	-30.923	-46.558	1.00	30.36	H
ATOM	1274	N	THR A 278	25.807	-32.544	-43.939	1.00	30.51	N
ATOM	1275	CA	THR A 278	24.331	-32.536	-43.903	1.00	30.62	C
ATOM	1276	C	THR A 278	23.748	-32.494	-42.482	1.00	30.50	C
ATOM	1277	O	THR A 278	22.591	-32.870	-42.298	1.00	30.61	O
ATOM	1278	CB	THR A 278	23.777	-33.748	-44.678	1.00	31.11	C



ATOM	1279	OG1 THR A 278	24.192	-34.949	-44.066	1.00	31.31	O
ATOM	1280	CG2 THR A 278	24.235	-33.792	-46.136	1.00	31.28	C
ATOM	1281	HN THR A 278	26.250	-33.442	-43.800	1.00	0.00	H
ATOM	1282	HG1 THR A 278	23.721	-35.016	-43.230	1.00	0.00	H
ATOM	1283	HA THR A 278	23.996	-31.637	-44.420	1.00	30.85	H
ATOM	1284	HB THR A 278	22.688	-33.706	-44.657	1.00	30.85	H
ATOM	1285	1HG2 THR A 278	23.810	-34.669	-46.625	1.00	30.85	H
ATOM	1286	2HG2 THR A 278	25.323	-33.847	-46.174	1.00	30.85	H
ATOM	1287	3HG2 THR A 278	23.899	-32.892	-46.650	1.00	30.85	H
ATOM	1288	N ILE A 279	24.568	-32.199	-41.463	1.00	30.29	N
ATOM	1289	CA ILE A 279	24.195	-32.189	-40.035	1.00	30.12	C
ATOM	1290	C ILE A 279	24.608	-30.855	-39.400	1.00	29.68	C
ATOM	1291	O ILE A 279	25.792	-30.502	-39.419	1.00	29.47	O
ATOM	1292	CB ILE A 279	24.820	-33.400	-39.298	1.00	30.15	C
ATOM	1293	CG1 ILE A 279	24.274	-34.758	-39.802	1.00	30.62	C
ATOM	1294	CG2 ILE A 279	24.653	-33.302	-37.769	1.00	29.89	C
ATOM	1295	CD1 ILE A 279	22.788	-35.028	-39.525	1.00	30.76	C
ATOM	1296	HN ILE A 279	25.499	-31.886	-41.699	1.00	0.00	H
ATOM	1297	HA ILE A 279	23.110	-32.275	-39.968	1.00	30.12	H
ATOM	1298	HB ILE A 279	25.890	-33.386	-39.506	1.00	30.12	H
ATOM	1299	1HG1 ILE A 279	24.425	-34.799	-40.881	1.00	30.12	H
ATOM	1300	2HG1 ILE A 279	24.852	-35.549	-39.323	1.00	30.12	H
ATOM	1301	1HG2 ILE A 279	25.107	-34.173	-37.297	1.00	30.12	H
ATOM	1302	2HG2 ILE A 279	23.592	-33.266	-37.520	1.00	30.12	H
ATOM	1303	3HG2 ILE A 279	25.142	-32.397	-37.407	1.00	30.12	H
ATOM	1304	1HD1 ILE A 279	22.516	-36.006	-39.921	1.00	30.12	H
ATOM	1305	2HD1 ILE A 279	22.183	-34.260	-40.007	1.00	30.12	H

ATOM	1306	3HD1 ILE A 279	22.609	-35.009	-38.450	1.00	30.12	H
ATOM	1307	N HIS A 280	23.664	-30.163	-38.754	1.00	29.56	N
ATOM	1308	CA HIS A 280	23.795	-28.751	-38.365	1.00	29.19	C
ATOM	1309	C HIS A 280	23.184	-28.450	-36.985	1.00	29.06	C
ATOM	1310	O HIS A 280	22.183	-29.059	-36.603	1.00	29.28	O
ATOM	1311	CB HIS A 280	23.124	-27.860	-39.431	1.00	29.17	C
ATOM	1312	CG HIS A 280	23.448	-28.223	-40.857	1.00	29.42	C
ATOM	1313	ND1 HIS A 280	24.583	-27.875	-41.550	1.00	29.30	N
ATOM	1314	CD2 HIS A 280	22.744	-29.094	-41.644	1.00	29.80	C
ATOM	1315	CE1 HIS A 280	24.558	-28.511	-42.732	1.00	29.59	C
ATOM	1316	NE2 HIS A 280	23.461	-29.275	-42.829	1.00	29.90	N
ATOM	1317	HN HIS A 280	22.721	-30.544	-38.757	1.00	0.00	H
ATOM	1318	HD1 HIS A 280	25.298	-27.238	-41.234	1.00	0.00	H
ATOM	1319	HA HIS A 280	24.856	-28.503	-38.331	1.00	29.43	H
ATOM	1320	HB1 HIS A 280	22.044	-27.931	-39.301	1.00	29.43	H
ATOM	1321	HB2 HIS A 280	23.444	-26.832	-39.263	1.00	29.43	H
ATOM	1322	HD2 HIS A 280	21.793	-29.563	-41.391	1.00	29.43	H
ATOM	1323	HE1 HIS A 280	25.322	-28.419	-43.504	1.00	29.43	H
ATOM	1324	N HIS A 281	23.709	-27.410	-36.323	1.00	28.71	N
ATOM	1325	CA HIS A 281	23.065	-26.677	-35.218	1.00	28.56	C
ATOM	1326	C HIS A 281	22.537	-27.561	-34.071	1.00	28.69	C
ATOM	1327	O HIS A 281	21.420	-27.382	-33.587	1.00	28.78	O
ATOM	1328	CB HIS A 281	22.010	-25.694	-35.755	1.00	28.58	C
ATOM	1329	CG HIS A 281	22.453	-24.893	-36.955	1.00	28.41	C
ATOM	1330	ND1 HIS A 281	23.614	-24.157	-37.089	1.00	28.11	N
ATOM	1331	CD2 HIS A 281	21.812	-24.856	-38.163	1.00	28.50	C
ATOM	1332	CE1 HIS A 281	23.649	-23.667	-38.342	1.00	28.04	C

ATOM	1333	NE2	HIS A 281	22.577	-24.080	-39.035	1.00	28.27	N
ATOM	1334	HN	HIS A 281	24.543	-26.980	-36.703	1.00	0.00	H
ATOM	1335	HD1	HIS A 281	24.350	-24.049	-36.402	1.00	0.00	H
ATOM	1336	HA	HIS A 281	23.848	-26.059	-34.778	1.00	28.47	H
ATOM	1337	HB1	HIS A 281	21.125	-26.265	-36.035	1.00	28.46	H
ATOM	1338	HB2	HIS A 281	21.756	-24.997	-34.956	1.00	28.46	H
ATOM	1339	HD2	HIS A 281	20.869	-25.347	-38.403	1.00	28.46	H
ATOM	1340	HE1	HIS A 281	24.437	-23.026	-38.738	1.00	28.46	H
ATOM	1341	N	CYS A 282	23.316	-28.577	-33.691	1.00	28.70	N
ATOM	1342	CA	CYS A 282	22.938	-29.526	-32.648	1.00	28.83	C
ATOM	1343	C	CYS A 282	22.659	-28.844	-31.294	1.00	28.57	C
ATOM	1344	O	CYS A 282	23.218	-27.791	-30.988	1.00	28.26	O
ATOM	1345	CB	CYS A 282	24.023	-30.599	-32.525	1.00	28.90	C
ATOM	1346	SG	CYS A 282	24.293	-31.607	-34.011	1.00	29.22	S
ATOM	1347	HN	CYS A 282	24.207	-28.690	-34.145	1.00	0.00	H
ATOM	1348	HA	CYS A 282	22.019	-30.019	-32.966	1.00	28.75	H
ATOM	1349	HB1	CYS A 282	24.962	-30.102	-32.281	1.00	28.75	H
ATOM	1350	HB2	CYS A 282	23.744	-31.268	-31.711	1.00	28.75	H
ATOM	1351	N	SER A 283	21.868	-29.506	-30.448	1.00	28.73	N
ATOM	1352	CA	SER A 283	21.390	-28.989	-29.163	1.00	28.52	C
ATOM	1353	C	SER A 283	21.182	-30.115	-28.154	1.00	28.71	C
ATOM	1354	O	SER A 283	20.615	-31.136	-28.525	1.00	29.07	O
ATOM	1355	CB	SER A 283	20.058	-28.282	-29.402	1.00	28.54	C
ATOM	1356	OG	SER A 283	19.662	-27.658	-28.204	1.00	28.27	O
ATOM	1357	HN	SER A 283	21.394	-30.333	-30.802	1.00	0.00	H
ATOM	1358	HG	SER A 283	20.285	-26.913	-28.102	1.00	0.00	H
ATOM	1359	HA	SER A 283	22.113	-28.276	-28.767	1.00	28.64	H

ATOM	1360	HB1	SER A 283	20.175	-27.533	-30.185	1.00	28.64	H
ATOM	1361	HB2	SER A 283	19.305	-29.010	-29.704	1.00	28.64	H
ATOM	1362	N	SER A 284	21.634	-29.978	-26.903	1.00	28.47	N
ATOM	1363	CA	SER A 284	21.833	-31.135	-26.009	1.00	28.60	C
ATOM	1364	C	SER A 284	21.270	-30.981	-24.588	1.00	28.50	C
ATOM	1365	O	SER A 284	20.991	-29.874	-24.130	1.00	28.17	O
ATOM	1366	CB	SER A 284	23.321	-31.492	-25.992	1.00	28.41	C
ATOM	1367	OG	SER A 284	24.068	-30.502	-25.322	1.00	28.02	O
ATOM	1368	HN	SER A 284	22.062	-29.099	-26.635	1.00	0.00	H
ATOM	1369	HG	SER A 284	23.939	-29.631	-25.742	1.00	0.00	H
ATOM	1370	HA	SER A 284	21.312	-31.978	-26.464	1.00	28.36	H
ATOM	1371	HB1	SER A 284	23.453	-32.446	-25.481	1.00	28.36	H
ATOM	1372	HB2	SER A 284	23.679	-31.576	-27.018	1.00	28.36	H
ATOM	1373	N	THR A 285	20.986	-32.107	-23.921	1.00	28.82	N
ATOM	1374	CA	THR A 285	20.414	-32.199	-22.558	1.00	28.79	C
ATOM	1375	C	THR A 285	20.697	-33.579	-21.938	1.00	28.95	C
ATOM	1376	O	THR A 285	20.427	-34.594	-22.582	1.00	29.31	O
ATOM	1377	CB	THR A 285	18.891	-31.979	-22.629	1.00	29.06	C
ATOM	1378	OG1	THR A 285	18.615	-30.635	-22.942	1.00	28.88	O
ATOM	1379	CG2	THR A 285	18.153	-32.260	-21.324	1.00	29.12	C
ATOM	1380	HN	THR A 285	21.140	-32.988	-24.405	1.00	0.00	H
ATOM	1381	HG1	THR A 285	19.369	-30.296	-23.451	1.00	0.00	H
ATOM	1382	HA	THR A 285	20.858	-31.427	-21.930	1.00	28.99	H
ATOM	1383	HB	THR A 285	18.479	-32.616	-23.412	1.00	28.99	H
ATOM	1384	1HG2	THR A 285	17.087	-32.080	-21.463	1.00	28.99	H
ATOM	1385	2HG2	THR A 285	18.533	-31.602	-20.542	1.00	28.99	H
ATOM	1386	3HG2	THR A 285	18.311	-33.299	-21.033	1.00	28.99	H

ATOM	1387	N	TYR A 286	21.145	-33.649	-20.677	1.00	28.68	N
ATOM	1388	CA	TYR A 286	21.287	-34.919	-19.943	1.00	28.79	C
ATOM	1389	C	TYR A 286	19.981	-35.369	-19.274	1.00	29.13	C
ATOM	1390	O	TYR A 286	19.447	-34.636	-18.437	1.00	29.15	O
ATOM	1391	CB	TYR A 286	22.385	-34.801	-18.881	1.00	28.37	C
ATOM	1392	CG	TYR A 286	22.529	-36.010	-17.974	1.00	28.43	C
ATOM	1393	CD1	TYR A 286	23.097	-37.194	-18.477	1.00	28.48	C
ATOM	1394	CD2	TYR A 286	22.058	-35.969	-16.646	1.00	28.45	C
ATOM	1395	CE1	TYR A 286	23.179	-38.336	-17.660	1.00	28.55	C
ATOM	1396	CE2	TYR A 286	22.133	-37.109	-15.827	1.00	28.52	C
ATOM	1397	CZ	TYR A 286	22.692	-38.298	-16.337	1.00	28.56	C
ATOM	1398	OH	TYR A 286	22.755	-39.404	-15.553	1.00	28.63	O
ATOM	1399	HN	TYR A 286	21.417	-32.791	-20.195	1.00	0.00	H
ATOM	1400	HH	TYR A 286	22.729	-39.201	-14.618	1.00	0.00	H
ATOM	1401	HA	TYR A 286	21.586	-35.689	-20.654	1.00	28.64	H
ATOM	1402	HB1	TYR A 286	23.335	-34.646	-19.392	1.00	28.64	H
ATOM	1403	HB2	TYR A 286	22.162	-33.935	-18.258	1.00	28.64	H
ATOM	1404	HD1	TYR A 286	23.473	-37.227	-19.499	1.00	28.64	H
ATOM	1405	HD2	TYR A 286	21.632	-35.046	-16.251	1.00	28.64	H
ATOM	1406	HE1	TYR A 286	23.620	-39.253	-18.051	1.00	28.64	H
ATOM	1407	HE2	TYR A 286	21.761	-37.074	-14.803	1.00	28.64	H
ATOM	1408	N	HIS A 287	19.656	-36.656	-19.397	1.00	29.43	N
ATOM	1409	CA	HIS A 287	18.632	-37.364	-18.623	1.00	29.74	C
ATOM	1410	C	HIS A 287	19.028	-38.844	-18.440	1.00	29.98	C
ATOM	1411	O	HIS A 287	19.458	-39.489	-19.389	1.00	30.22	O
ATOM	1412	CB	HIS A 287	17.262	-37.162	-19.303	1.00	30.15	C
ATOM	1413	CG	HIS A 287	16.217	-38.179	-18.927	1.00	30.49	C

ATOM	1414	ND1	HIS A 287	16.001	-39.400	-19.576	1.00	31.01	N
ATOM	1415	CD2	HIS A 287	15.449	-38.126	-17.804	1.00	30.40	C
ATOM	1416	CE1	HIS A 287	15.092	-40.045	-18.822	1.00	31.24	C
ATOM	1417	NE2	HIS A 287	14.749	-39.307	-17.754	1.00	30.87	N
ATOM	1418	HN	HIS A 287	20.220	-37.235	-20.017	1.00	0.00	H
ATOM	1419	HE2	HIS A 287	14.274	-39.679	-16.923	1.00	0.00	H
ATOM	1420	HA	HIS A 287	18.585	-36.906	-17.635	1.00	30.35	H
ATOM	1421	HB1	HIS A 287	16.889	-36.175	-19.029	1.00	30.35	H
ATOM	1422	HB2	HIS A 287	17.408	-37.209	-20.382	1.00	30.35	H
ATOM	1423	HD2	HIS A 287	15.399	-37.308	-17.086	1.00	30.35	H
ATOM	1424	HE1	HIS A 287	14.689	-41.032	-19.048	1.00	30.35	H
ATOM	1425	N	GLU A 288	19.054	-39.299	-17.181	1.00	49.70	N
ATOM	1426	CA	GLU A 288	19.219	-40.702	-16.737	1.00	49.93	C
ATOM	1427	C	GLU A 288	20.207	-41.560	-17.562	1.00	49.97	C
ATOM	1428	O	GLU A 288	19.822	-42.364	-18.404	1.00	50.41	O
ATOM	1429	CB	GLU A 288	17.835	-41.355	-16.555	1.00	50.49	C
ATOM	1430	CG	GLU A 288	17.053	-40.650	-15.429	1.00	50.53	C
ATOM	1431	CD	GLU A 288	15.624	-41.182	-15.266	1.00	51.14	C
ATOM	1432	OE1	GLU A 288	15.458	-42.419	-15.209	1.00	51.54	O
ATOM	1433	OE2	GLU A 288	14.707	-40.331	-15.183	1.00	51.23	O
ATOM	1434	HN	GLU A 288	18.656	-38.686	-16.491	1.00	0.00	H
ATOM	1435	HA	GLU A 288	19.648	-40.643	-15.737	1.00	50.55	H
ATOM	1436	HB1	GLU A 288	17.275	-41.274	-17.486	1.00	50.55	H
ATOM	1437	HB2	GLU A 288	17.965	-42.406	-16.298	1.00	50.55	H
ATOM	1438	HG1	GLU A 288	17.587	-40.798	-14.490	1.00	50.55	H
ATOM	1439	HG2	GLU A 288	17.003	-39.585	-15.656	1.00	50.55	H
ATOM	1440	N	ASP A 289	21.507	-41.382	-17.299	1.00	33.41	N

ATOM	1441	CA	ASP A 289	22.657	-41.975	-18.005	1.00	33.44	C
ATOM	1442	C	ASP A 289	22.823	-41.630	-19.495	1.00	33.66	C
ATOM	1443	O	ASP A 289	23.880	-41.935	-20.052	1.00	33.88	O
ATOM	1444	CB	ASP A 289	22.789	-43.491	-17.757	1.00	33.75	C
ATOM	1445	CG	ASP A 289	23.340	-43.883	-16.386	1.00	33.52	C
ATOM	1446	OD1	ASP A 289	24.017	-43.045	-15.742	1.00	33.39	O
ATOM	1447	OD2	ASP A 289	23.561	-45.103	-16.227	1.00	33.49	O
ATOM	1448	HN	ASP A 289	21.744	-40.703	-16.588	1.00	0.00	H
ATOM	1449	HA	ASP A 289	23.532	-41.539	-17.522	1.00	33.57	H
ATOM	1450	HB1	ASP A 289	21.800	-43.937	-17.862	1.00	33.57	H
ATOM	1451	HB2	ASP A 289	23.455	-43.900	-18.517	1.00	33.57	H
ATOM	1452	N	PHE A 290	21.958	-40.812	-20.097	1.00	29.92	N
ATOM	1453	CA	PHE A 290	22.097	-40.378	-21.490	1.00	29.96	C
ATOM	1454	C	PHE A 290	22.221	-38.859	-21.614	1.00	29.56	C
ATOM	1455	O	PHE A 290	21.340	-38.112	-21.194	1.00	29.39	O
ATOM	1456	CB	PHE A 290	20.932	-40.909	-22.335	1.00	30.46	C
ATOM	1457	CG	PHE A 290	20.602	-42.373	-22.111	1.00	30.94	C
ATOM	1458	CD1	PHE A 290	21.484	-43.378	-22.546	1.00	31.25	C
ATOM	1459	CD2	PHE A 290	19.443	-42.724	-21.395	1.00	31.12	C
ATOM	1460	CE1	PHE A 290	21.209	-44.727	-22.267	1.00	31.74	C
ATOM	1461	CE2	PHE A 290	19.175	-44.072	-21.102	1.00	31.60	C
ATOM	1462	CZ	PHE A 290	20.058	-45.075	-21.537	1.00	31.92	C
ATOM	1463	HN	PHE A 290	21.096	-40.572	-19.612	1.00	0.00	H
ATOM	1464	HZ	PHE A 290	19.870	-46.103	-21.268	1.00	0.00	H
ATOM	1465	HA	PHE A 290	23.015	-40.817	-21.882	1.00	30.71	H
ATOM	1466	HB1	PHE A 290	20.045	-40.321	-22.098	1.00	30.71	H
ATOM	1467	HB2	PHE A 290	21.187	-40.776	-23.386	1.00	30.71	H

ATOM	1468	HD1 PHE A 290	22.383	-43.110	-23.101	1.00	30.71	H
ATOM	1469	HD2 PHE A 290	18.751	-41.948	-21.067	1.00	30.71	H
ATOM	1470	HE1 PHE A 290	21.888	-45.505	-22.616	1.00	30.71	H
ATOM	1471	HE2 PHE A 290	18.282	-44.340	-20.537	1.00	30.71	H
ATOM	1472	N TYR A 291	23.187	-38.398	-22.408	1.00	29.46	N
ATOM	1473	CA TYR A 291	23.070	-37.092	-23.052	1.00	29.29	C
ATOM	1474	C TYR A 291	22.317	-37.260	-24.377	1.00	29.70	C
ATOM	1475	O TYR A 291	22.768	-37.947	-25.300	1.00	29.98	O
ATOM	1476	CB TYR A 291	24.439	-36.414	-23.192	1.00	28.88	C
ATOM	1477	CG TYR A 291	24.534	-35.090	-22.456	1.00	28.44	C
ATOM	1478	CD1 TYR A 291	25.375	-34.949	-21.332	1.00	28.12	C
ATOM	1479	CD2 TYR A 291	23.805	-33.983	-22.932	1.00	28.34	C
ATOM	1480	CE1 TYR A 291	25.460	-33.708	-20.668	1.00	27.73	C
ATOM	1481	CE2 TYR A 291	23.900	-32.741	-22.275	1.00	27.97	C
ATOM	1482	CZ TYR A 291	24.709	-32.609	-21.131	1.00	27.66	C
ATOM	1483	OH TYR A 291	24.703	-31.442	-20.443	1.00	27.31	O
ATOM	1484	HN TYR A 291	23.824	-39.069	-22.825	1.00	0.00	H
ATOM	1485	HH TYR A 291	23.810	-31.266	-20.096	1.00	0.00	H
ATOM	1486	HA TYR A 291	22.458	-36.463	-22.406	1.00	28.57	H
ATOM	1487	HB1 TYR A 291	25.199	-37.086	-22.794	1.00	28.57	H
ATOM	1488	HB2 TYR A 291	24.629	-36.235	-24.250	1.00	28.57	H
ATOM	1489	HD1 TYR A 291	25.958	-35.799	-20.977	1.00	28.57	H
ATOM	1490	HD2 TYR A 291	23.167	-34.088	-23.809	1.00	28.57	H
ATOM	1491	HE1 TYR A 291	26.106	-33.599	-19.797	1.00	28.57	H
ATOM	1492	HE2 TYR A 291	23.347	-31.881	-22.653	1.00	28.57	H
ATOM	1493	N TYR A 292	21.108	-36.708	-24.427	1.00	37.87	N
ATOM	1494	CA TYR A 292	20.309	-36.565	-25.639	1.00	38.21	C



ATOM	1495	C	TYR A 292	20.795	-35.329	-26.406	1.00	37.92	C
ATOM	1496	O	TYR A 292	21.166	-34.321	-25.799	1.00	37.57	O
ATOM	1497	CB	TYR A 292	18.822	-36.436	-25.274	1.00	38.48	C
ATOM	1498	CG	TYR A 292	18.215	-37.617	-24.528	1.00	38.79	C
ATOM	1499	CD1	TYR A 292	17.333	-38.504	-25.181	1.00	39.29	C
ATOM	1500	CD2	TYR A 292	18.480	-37.795	-23.155	1.00	38.61	C
ATOM	1501	CE1	TYR A 292	16.731	-39.565	-24.472	1.00	39.62	C
ATOM	1502	CE2	TYR A 292	17.884	-38.856	-22.451	1.00	38.91	C
ATOM	1503	CZ	TYR A 292	17.000	-39.735	-23.098	1.00	39.42	C
ATOM	1504	OH	TYR A 292	16.403	-40.727	-22.390	1.00	39.75	O
ATOM	1505	HN	TYR A 292	20.815	-36.154	-23.628	1.00	0.00	H
ATOM	1506	HH	TYR A 292	16.318	-40.465	-21.458	1.00	0.00	H
ATOM	1507	HA	TYR A 292	20.447	-37.448	-26.263	1.00	38.70	H
ATOM	1508	HB1	TYR A 292	18.708	-35.551	-24.648	1.00	38.70	H
ATOM	1509	HB2	TYR A 292	18.262	-36.302	-26.199	1.00	38.70	H
ATOM	1510	HD1	TYR A 292	17.115	-38.369	-26.240	1.00	38.70	H
ATOM	1511	HD2	TYR A 292	19.149	-37.108	-22.637	1.00	38.70	H
ATOM	1512	HE1	TYR A 292	16.059	-40.252	-24.986	1.00	38.70	H
ATOM	1513	HE2	TYR A 292	18.110	-38.998	-21.394	1.00	38.70	H
ATOM	1514	N	THR A 293	20.795	-35.383	-27.738	1.00	29.96	N
ATOM	1515	CA	THR A 293	21.269	-34.285	-28.587	1.00	29.69	C
ATOM	1516	C	THR A 293	20.570	-34.263	-29.950	1.00	29.95	C
ATOM	1517	O	THR A 293	20.570	-35.239	-30.697	1.00	30.26	O
ATOM	1518	CB	THR A 293	22.803	-34.280	-28.675	1.00	29.41	C
ATOM	1519	OG1	THR A 293	23.254	-33.191	-29.445	1.00	29.45	O
ATOM	1520	CG2	THR A 293	23.419	-35.541	-29.274	1.00	29.54	C
ATOM	1521	HN	THR A 293	20.556	-36.258	-28.195	1.00	0.00	H

ATOM	1522	HG1 THR A 293	24.213	-33.217	-29.434	1.00	0.00	H
ATOM	1523	HA THR A 293	20.987	-33.361	-28.082	1.00	29.75	H
ATOM	1524	HB THR A 293	23.196	-34.162	-27.665	1.00	29.75	H
ATOM	1525	1HG2 THR A 293	24.504	-35.442	-29.294	1.00	29.75	H
ATOM	1526	2HG2 THR A 293	23.049	-35.679	-30.290	1.00	29.75	H
ATOM	1527	3HG2 THR A 293	23.144	-36.404	-28.667	1.00	29.75	H
ATOM	1528	N LEU A 294	19.791	-33.206	-30.166	1.00	29.82	N
ATOM	1529	CA LEU A 294	18.923	-32.956	-31.311	1.00	30.04	C
ATOM	1530	C LEU A 294	19.660	-32.108	-32.360	1.00	29.83	C
ATOM	1531	O LEU A 294	20.055	-30.983	-32.064	1.00	29.50	O
ATOM	1532	CB LEU A 294	17.666	-32.257	-30.754	1.00	30.03	C
ATOM	1533	CG LEU A 294	16.650	-31.785	-31.804	1.00	30.29	C
ATOM	1534	CD1 LEU A 294	16.073	-32.945	-32.607	1.00	30.80	C
ATOM	1535	CD2 LEU A 294	15.499	-31.050	-31.119	1.00	30.22	C
ATOM	1536	HN LEU A 294	19.866	-32.450	-29.493	1.00	0.00	H
ATOM	1537	HA LEU A 294	18.636	-33.908	-31.757	1.00	30.07	H
ATOM	1538	HB1 LEU A 294	17.160	-32.957	-30.089	1.00	30.07	H
ATOM	1539	HB2 LEU A 294	17.991	-31.385	-30.186	1.00	30.07	H
ATOM	1540	HG LEU A 294	17.147	-31.098	-32.489	1.00	30.07	H
ATOM	1541	1HD1 LEU A 294	15.360	-32.563	-33.337	1.00	30.07	H
ATOM	1542	2HD1 LEU A 294	15.568	-33.638	-31.934	1.00	30.07	H
ATOM	1543	3HD1 LEU A 294	16.879	-33.465	-33.125	1.00	30.07	H
ATOM	1544	1HD2 LEU A 294	14.782	-30.718	-31.869	1.00	30.07	H
ATOM	1545	2HD2 LEU A 294	15.888	-30.185	-30.581	1.00	30.07	H
ATOM	1546	3HD2 LEU A 294	15.005	-31.722	-30.417	1.00	30.07	H
ATOM	1547	N CYS A 295	19.743	-32.583	-33.602	1.00	30.05	N
ATOM	1548	CA CYS A 295	20.414	-31.915	-34.723	1.00	29.93	C

ATOM	1549	C	CYS A 295	19.472	-31.741	-35.926	1.00	30.19	C
ATOM	1550	O	CYS A 295	18.683	-32.635	-36.254	1.00	30.50	O
ATOM	1551	CB	CYS A 295	21.642	-32.731	-35.146	1.00	30.05	C
ATOM	1552	SG	CYS A 295	22.896	-33.093	-33.883	1.00	29.80	S
ATOM	1553	HN	CYS A 295	19.356	-33.503	-33.784	1.00	0.00	H
ATOM	1554	HA	CYS A 295	20.746	-30.930	-34.394	1.00	30.09	H
ATOM	1555	HB1	CYS A 295	21.281	-33.686	-35.529	1.00	30.09	H
ATOM	1556	HB2	CYS A 295	22.137	-32.182	-35.947	1.00	30.09	H
ATOM	1557	N	ALA A 296	19.672	-30.664	-36.686	1.00	30.06	N
ATOM	1558	CA	ALA A 296	19.045	-30.474	-37.992	1.00	30.32	C
ATOM	1559	C	ALA A 296	19.756	-31.302	-39.076	1.00	30.46	C
ATOM	1560	O	ALA A 296	20.987	-31.283	-39.164	1.00	30.28	O
ATOM	1561	CB	ALA A 296	19.064	-28.979	-38.317	1.00	30.10	C
ATOM	1562	HN	ALA A 296	20.419	-30.021	-36.438	1.00	0.00	H
ATOM	1563	HA	ALA A 296	18.007	-30.802	-37.930	1.00	30.24	H
ATOM	1564	HB1	ALA A 296	18.600	-28.812	-39.289	1.00	30.24	H
ATOM	1565	HB2	ALA A 296	20.095	-28.625	-38.341	1.00	30.24	H
ATOM	1566	HB3	ALA A 296	18.511	-28.433	-37.553	1.00	30.24	H
ATOM	1567	N	VAL A 297	18.984	-31.950	-39.951	1.00	30.78	N
ATOM	1568	CA	VAL A 297	19.468	-32.678	-41.134	1.00	30.98	C
ATOM	1569	C	VAL A 297	19.127	-31.875	-42.389	1.00	30.87	C
ATOM	1570	O	VAL A 297	18.004	-31.389	-42.514	1.00	30.84	O
ATOM	1571	CB	VAL A 297	18.851	-34.089	-41.227	1.00	31.52	C
ATOM	1572	CG1	VAL A 297	19.548	-34.931	-42.304	1.00	31.76	C
ATOM	1573	CG2	VAL A 297	18.906	-34.861	-39.903	1.00	31.70	C
ATOM	1574	HN	VAL A 297	17.974	-31.892	-39.848	1.00	0.00	H
ATOM	1575	HA	VAL A 297	20.552	-32.775	-41.065	1.00	31.21	H

ATOM	1576	HB	VAL A 297	17.804	-33.980	-41.510	1.00	31.21	H
ATOM	1577	1HG1	VAL A 297	19.091	-35.920	-42.345	1.00	31.21	H
ATOM	1578	2HG1	VAL A 297	20.606	-35.030	-42.060	1.00	31.21	H
ATOM	1579	3HG1	VAL A 297	19.443	-34.442	-43.273	1.00	31.21	H
ATOM	1580	1HG2	VAL A 297	18.456	-35.845	-40.037	1.00	31.21	H
ATOM	1581	2HG2	VAL A 297	18.357	-34.312	-39.138	1.00	31.21	H
ATOM	1582	3HG2	VAL A 297	19.944	-34.976	-39.592	1.00	31.21	H
ATOM	1583	N	SER A 298	20.038	-31.756	-43.360	1.00	30.82	N
ATOM	1584	CA	SER A 298	19.801	-30.929	-44.555	1.00	30.79	C
ATOM	1585	C	SER A 298	20.377	-31.516	-45.841	1.00	30.94	C
ATOM	1586	O	SER A 298	21.553	-31.866	-45.908	1.00	30.88	O
ATOM	1587	CB	SER A 298	20.364	-29.529	-44.336	1.00	30.35	C
ATOM	1588	OG	SER A 298	20.047	-28.697	-45.428	1.00	30.29	O
ATOM	1589	HN	SER A 298	20.962	-32.151	-43.211	1.00	0.00	H
ATOM	1590	HG	SER A 298	20.532	-27.860	-45.252	1.00	0.00	H
ATOM	1591	HA	SER A 298	18.723	-30.836	-44.686	1.00	30.68	H
ATOM	1592	HB1	SER A 298	19.935	-29.108	-43.427	1.00	30.68	H
ATOM	1593	HB2	SER A 298	21.447	-29.590	-44.233	1.00	30.68	H
ATOM	1594	N	HIS A 299	19.592	-31.447	-46.922	1.00	31.13	N
ATOM	1595	CA	HIS A 299	20.047	-31.680	-48.302	1.00	31.31	C
ATOM	1596	C	HIS A 299	20.580	-30.411	-48.994	1.00	30.95	C
ATOM	1597	O	HIS A 299	21.123	-30.503	-50.090	1.00	30.98	O
ATOM	1598	CB	HIS A 299	18.896	-32.314	-49.115	1.00	31.69	C
ATOM	1599	CG	HIS A 299	19.210	-33.639	-49.768	1.00	32.16	C
ATOM	1600	ND1	HIS A 299	18.514	-34.157	-50.860	1.00	32.47	N
ATOM	1601	CD2	HIS A 299	20.090	-34.588	-49.327	1.00	32.40	C
ATOM	1602	CE1	HIS A 299	19.014	-35.379	-51.081	1.00	32.89	C

ATOM	1603	NE2	HIS	A	299	19.964	-35.666	-50.176	1.00	32.86	N
ATOM	1604	HN	HIS	A	299	18.648	-31.115	-46.793	1.00	0.00	H
ATOM	1605	HE2	HIS	A	299	20.477	-36.534	-50.123	1.00	0.00	H
ATOM	1606	HA	HIS	A	299	20.862	-32.403	-48.264	1.00	31.88	H
ATOM	1607	HB1	HIS	A	299	18.053	-32.464	-48.441	1.00	31.88	H
ATOM	1608	HB2	HIS	A	299	18.614	-31.612	-49.900	1.00	31.88	H
ATOM	1609	HD2	HIS	A	299	20.760	-34.508	-48.471	1.00	31.88	H
ATOM	1610	HE1	HIS	A	299	18.695	-36.046	-51.882	1.00	31.88	H
ATOM	1611	N	VAL	A	300	20.430	-29.234	-48.373	1.00	37.47	N
ATOM	1612	CA	VAL	A	300	20.701	-27.912	-48.982	1.00	37.19	C
ATOM	1613	C	VAL	A	300	21.814	-27.133	-48.265	1.00	36.77	C
ATOM	1614	O	VAL	A	300	22.018	-25.951	-48.526	1.00	36.52	O
ATOM	1615	CB	VAL	A	300	19.407	-27.081	-49.113	1.00	37.21	C
ATOM	1616	CG1	VAL	A	300	18.363	-27.818	-49.963	1.00	37.63	C
ATOM	1617	CG2	VAL	A	300	18.773	-26.731	-47.760	1.00	37.10	C
ATOM	1618	HN	VAL	A	300	20.024	-29.237	-47.446	1.00	0.00	H
ATOM	1619	HA	VAL	A	300	21.055	-28.101	-49.995	1.00	37.13	H
ATOM	1620	HB	VAL	A	300	19.656	-26.148	-49.619	1.00	37.13	H
ATOM	1621	1HG1	VAL	A	300	17.461	-27.210	-50.039	1.00	37.13	H
ATOM	1622	2HG1	VAL	A	300	18.119	-28.771	-49.494	1.00	37.13	H
ATOM	1623	3HG1	VAL	A	300	18.766	-27.996	-50.960	1.00	37.13	H
ATOM	1624	1HG2	VAL	A	300	17.867	-26.147	-47.923	1.00	37.13	H
ATOM	1625	2HG2	VAL	A	300	19.479	-26.149	-47.167	1.00	37.13	H
ATOM	1626	3HG2	VAL	A	300	18.522	-27.648	-47.228	1.00	37.13	H
ATOM	1627	N	GLY	A	301	22.529	-27.778	-47.340	1.00	38.24	N
ATOM	1628	CA	GLY	A	301	23.466	-27.114	-46.436	1.00	37.87	C
ATOM	1629	C	GLY	A	301	22.743	-26.305	-45.353	1.00	37.71	C

ATOM	1630	O	GLY A 301	21.701	-26.724	-44.860	1.00	37.88	O
ATOM	1631	HN	GLY A 301	22.290	-28.738	-47.149	1.00	0.00	H
ATOM	1632	HA1	GLY A 301	24.087	-27.870	-45.955	1.00	37.92	H
ATOM	1633	HA2	GLY A 301	24.097	-26.440	-47.016	1.00	37.92	H
ATOM	1634	N	ASP A 302	23.335	-25.183	-44.948	1.00	29.01	N
ATOM	1635	CA	ASP A 302	22.908	-24.343	-43.820	1.00	28.85	C
ATOM	1636	C	ASP A 302	21.398	-23.977	-43.869	1.00	28.88	C
ATOM	1637	O	ASP A 302	20.968	-23.246	-44.769	1.00	28.76	O
ATOM	1638	CB	ASP A 302	23.832	-23.116	-43.788	1.00	28.51	C
ATOM	1639	CG	ASP A 302	23.573	-22.135	-42.638	1.00	28.35	C
ATOM	1640	OD1	ASP A 302	22.392	-21.792	-42.417	1.00	28.51	O
ATOM	1641	OD2	ASP A 302	24.564	-21.501	-42.228	1.00	28.09	O
ATOM	1642	HN	ASP A 302	24.144	-24.864	-45.455	1.00	0.00	H
ATOM	1643	HA	ASP A 302	23.080	-24.909	-42.904	1.00	28.62	H
ATOM	1644	HB1	ASP A 302	24.860	-23.470	-43.705	1.00	28.62	H
ATOM	1645	HB2	ASP A 302	23.708	-22.576	-44.727	1.00	28.62	H
ATOM	1646	N	PRO A 303	20.582	-24.454	-42.904	1.00	29.07	N
ATOM	1647	CA	PRO A 303	19.149	-24.176	-42.857	1.00	29.18	C
ATOM	1648	C	PRO A 303	18.764	-22.710	-42.663	1.00	28.93	C
ATOM	1649	O	PRO A 303	17.672	-22.324	-43.071	1.00	28.97	O
ATOM	1650	CB	PRO A 303	18.629	-24.989	-41.674	1.00	29.41	C
ATOM	1651	CG	PRO A 303	19.568	-26.185	-41.626	1.00	29.52	C
ATOM	1652	CD	PRO A 303	20.900	-25.519	-41.955	1.00	29.21	C
ATOM	1653	HA	PRO A 303	18.686	-24.546	-43.772	1.00	29.18	H
ATOM	1654	HB1	PRO A 303	18.685	-24.413	-40.751	1.00	29.18	H
ATOM	1655	HB2	PRO A 303	17.600	-25.308	-41.842	1.00	29.18	H
ATOM	1656	HG1	PRO A 303	19.583	-26.643	-40.637	1.00	29.18	H

ATOM	1657	HG2 PRO A 303	19.300	-26.935	-42.371	1.00	29.18	H
ATOM	1658	HD1 PRO A 303	21.351	-25.103	-41.054	1.00	29.18	H
ATOM	1659	HD2 PRO A 303	21.584	-26.238	-42.405	1.00	29.18	H
ATOM	1660	N ILE A 304	19.603	-21.880	-42.038	1.00	28.67	N
ATOM	1661	CA ILE A 304	19.321	-20.449	-41.842	1.00	28.45	C
ATOM	1662	C ILE A 304	19.552	-19.687	-43.149	1.00	28.38	C
ATOM	1663	O ILE A 304	18.659	-18.987	-43.634	1.00	28.33	O
ATOM	1664	CB ILE A 304	20.190	-19.891	-40.689	1.00	28.19	C
ATOM	1665	CG1 ILE A 304	19.950	-20.631	-39.354	1.00	28.25	C
ATOM	1666	CG2 ILE A 304	19.987	-18.375	-40.510	1.00	27.99	C
ATOM	1667	CD1 ILE A 304	18.536	-20.497	-38.768	1.00	28.30	C
ATOM	1668	HN ILE A 304	20.554	-22.197	-41.856	1.00	0.00	H
ATOM	1669	HA ILE A 304	18.273	-20.342	-41.564	1.00	28.32	H
ATOM	1670	HB ILE A 304	21.233	-20.048	-40.964	1.00	28.32	H
ATOM	1671	1HG1 ILE A 304	20.147	-21.691	-39.518	1.00	28.32	H
ATOM	1672	2HG1 ILE A 304	20.655	-20.239	-38.621	1.00	28.32	H
ATOM	1673	1HG2 ILE A 304	20.613	-18.018	-39.692	1.00	28.32	H
ATOM	1674	2HG2 ILE A 304	18.941	-18.173	-40.281	1.00	28.32	H
ATOM	1675	3HG2 ILE A 304	20.264	-17.860	-41.430	1.00	28.32	H
ATOM	1676	1HD1 ILE A 304	18.476	-21.053	-37.833	1.00	28.32	H
ATOM	1677	2HD1 ILE A 304	17.810	-20.897	-39.475	1.00	28.32	H
ATOM	1678	3HD1 ILE A 304	18.318	-19.446	-38.580	1.00	28.32	H
ATOM	1679	N LEU A 305	20.673	-19.970	-43.819	1.00	28.40	N
ATOM	1680	CA LEU A 305	21.036	-19.400	-45.118	1.00	28.32	C
ATOM	1681	C LEU A 305	20.267	-20.019	-46.303	1.00	28.53	C
ATOM	1682	O LEU A 305	20.334	-19.488	-47.414	1.00	28.48	O
ATOM	1683	CB LEU A 305	22.561	-19.507	-45.306	1.00	28.17	C

ATOM	1684	CG	LEU A 305	23.409	-18.823	-44.211	1.00	27.94	C
ATOM	1685	CD1	LEU A 305	24.893	-19.021	-44.521	1.00	27.86	C
ATOM	1686	CD2	LEU A 305	23.146	-17.316	-44.122	1.00	27.76	C
ATOM	1687	HN	LEU A 305	21.330	-20.614	-43.370	1.00	0.00	H
ATOM	1688	HA	LEU A 305	20.787	-18.339	-45.088	1.00	28.18	H
ATOM	1689	HB1	LEU A 305	22.825	-20.564	-45.325	1.00	28.18	H
ATOM	1690	HB2	LEU A 305	22.815	-19.051	-46.263	1.00	28.18	H
ATOM	1691	HG	LEU A 305	23.183	-19.281	-43.248	1.00	28.18	H
ATOM	1692	1HD1	LEU A 305	25.493	-18.539	-43.749	1.00	28.18	H
ATOM	1693	2HD1	LEU A 305	25.124	-18.579	-45.490	1.00	28.18	H
ATOM	1694	3HD1	LEU A 305	25.121	-20.087	-44.545	1.00	28.18	H
ATOM	1695	1HD2	LEU A 305	23.767	-16.884	-43.337	1.00	28.18	H
ATOM	1696	2HD2	LEU A 305	22.095	-17.143	-43.889	1.00	28.18	H
ATOM	1697	3HD2	LEU A 305	23.388	-16.847	-45.076	1.00	28.18	H
ATOM	1698	N	ASN A 306	19.490	-21.088	-46.092	1.00	28.79	N
ATOM	1699	CA	ASN A 306	18.670	-21.736	-47.125	1.00	29.02	C
ATOM	1700	C	ASN A 306	17.295	-22.229	-46.621	1.00	29.27	C
ATOM	1701	O	ASN A 306	16.687	-23.113	-47.223	1.00	29.56	O
ATOM	1702	CB	ASN A 306	19.506	-22.812	-47.861	1.00	29.14	C
ATOM	1703	CG	ASN A 306	19.685	-22.480	-49.331	1.00	29.16	C
ATOM	1704	OD1	ASN A 306	19.054	-23.053	-50.204	1.00	29.42	O
ATOM	1705	ND2	ASN A 306	20.260	-21.338	-49.629	1.00	28.91	N
ATOM	1706	HN	ASN A 306	19.628	-21.581	-45.214	1.00	0.00	H
ATOM	1707	1HD2	ASN A 306	20.570	-20.723	-48.883	1.00	0.00	H
ATOM	1708	2HD2	ASN A 306	20.264	-21.069	-50.593	1.00	0.00	H
ATOM	1709	HA	ASN A 306	18.458	-20.965	-47.865	1.00	29.16	H
ATOM	1710	HB1	ASN A 306	20.488	-22.877	-47.392	1.00	29.16	H



ATOM	1711	HB2 ASN A 306	18.998	-23.772	-47.776	1.00	29.16	H
ATOM	1712	N SER A 307	16.679	-21.504	-45.680	1.00	37.31	N
ATOM	1713	CA SER A 307	15.384	-21.867	-45.067	1.00	37.51	C
ATOM	1714	C SER A 307	14.205	-22.026	-46.044	1.00	37.80	C
ATOM	1715	O SER A 307	13.201	-22.648	-45.695	1.00	38.09	O
ATOM	1716	CB SER A 307	15.010	-20.798	-44.036	1.00	37.32	C
ATOM	1717	OG SER A 307	13.794	-21.127	-43.399	1.00	37.52	O
ATOM	1718	HN SER A 307	17.258	-20.848	-45.167	1.00	0.00	H
ATOM	1719	HG SER A 307	13.181	-21.505	-44.043	1.00	0.00	H
ATOM	1720	HA SER A 307	15.514	-22.812	-44.540	1.00	37.59	H
ATOM	1721	HB1 SER A 307	15.800	-20.730	-43.288	1.00	37.59	H
ATOM	1722	HB2 SER A 307	14.902	-19.837	-44.539	1.00	37.59	H
ATOM	1723	N THR A 308	14.250	-21.373	-47.211	1.00	47.88	N
ATOM	1724	CA THR A 308	13.223	-21.512	-48.267	1.00	48.11	C
ATOM	1725	C THR A 308	13.362	-22.796	-49.094	1.00	48.41	C
ATOM	1726	O THR A 308	12.437	-23.143	-49.823	1.00	48.70	O
ATOM	1727	CB THR A 308	13.214	-20.278	-49.183	1.00	47.94	C
ATOM	1728	OG1 THR A 308	12.090	-20.308	-50.026	1.00	48.12	O
ATOM	1729	CG2 THR A 308	14.452	-20.149	-50.074	1.00	47.91	C
ATOM	1730	HN THR A 308	15.103	-20.884	-47.434	1.00	0.00	H
ATOM	1731	HG1 THR A 308	11.995	-21.216	-50.354	1.00	0.00	H
ATOM	1732	HA THR A 308	12.253	-21.552	-47.770	1.00	48.15	H
ATOM	1733	HB THR A 308	13.149	-19.388	-48.557	1.00	48.15	H
ATOM	1734	1HG2 THR A 308	14.366	-19.253	-50.688	1.00	48.15	H
ATOM	1735	2HG2 THR A 308	14.529	-21.025	-50.718	1.00	48.15	H
ATOM	1736	3HG2 THR A 308	15.343	-20.078	-49.450	1.00	48.15	H
ATOM	1737	N SER A 309	14.512	-23.465	-49.007	1.00	30.05	N

ATOM	1738	CA	SER A 309	14.844	-24.720	-49.694	1.00	30.35	C
ATOM	1739	C	SER A 309	14.860	-25.911	-48.725	1.00	30.55	C
ATOM	1740	O	SER A 309	14.755	-27.060	-49.146	1.00	30.83	O
ATOM	1741	CB	SER A 309	16.241	-24.607	-50.322	1.00	30.22	C
ATOM	1742	OG	SER A 309	16.469	-23.358	-50.947	1.00	30.03	O
ATOM	1743	HN	SER A 309	15.252	-23.065	-48.445	1.00	0.00	H
ATOM	1744	HG	SER A 309	17.429	-23.190	-50.863	1.00	0.00	H
ATOM	1745	HA	SER A 309	14.111	-24.905	-50.479	1.00	30.34	H
ATOM	1746	HB1	SER A 309	16.986	-24.744	-49.538	1.00	30.34	H
ATOM	1747	HB2	SER A 309	16.350	-25.394	-51.069	1.00	30.34	H
ATOM	1748	N	TRP A 310	15.109	-25.654	-47.436	1.00	30.42	N
ATOM	1749	CA	TRP A 310	15.312	-26.683	-46.416	1.00	30.56	C
ATOM	1750	C	TRP A 310	14.010	-27.414	-46.048	1.00	30.94	C
ATOM	1751	O	TRP A 310	13.085	-26.836	-45.478	1.00	30.94	O
ATOM	1752	CB	TRP A 310	15.995	-26.054	-45.190	1.00	30.25	C
ATOM	1753	CG	TRP A 310	16.273	-26.997	-44.058	1.00	30.32	C
ATOM	1754	CD1	TRP A 310	17.028	-28.116	-44.136	1.00	30.36	C
ATOM	1755	CD2	TRP A 310	15.765	-26.965	-42.687	1.00	30.34	C
ATOM	1756	NE1	TRP A 310	17.006	-28.780	-42.926	1.00	30.40	N
ATOM	1757	CE2	TRP A 310	16.231	-28.124	-41.998	1.00	30.38	C
ATOM	1758	CE3	TRP A 310	14.969	-26.065	-41.947	1.00	30.34	C
ATOM	1759	CZ2	TRP A 310	15.877	-28.414	-40.674	1.00	30.41	C
ATOM	1760	CZ3	TRP A 310	14.600	-26.343	-40.617	1.00	30.39	C
ATOM	1761	CH2	TRP A 310	15.039	-27.521	-39.985	1.00	30.42	C
ATOM	1762	HN	TRP A 310	15.291	-24.696	-47.174	1.00	0.00	H
ATOM	1763	HE1	TRP A 310	17.381	-29.717	-42.787	1.00	0.00	H
ATOM	1764	HA	TRP A 310	15.998	-27.423	-46.829	1.00	30.46	H

ATOM	1765	HB1 TRP A 310	16.945	-25.629	-45.515	1.00	30.46	H
ATOM	1766	HB2 TRP A 310	15.349	-25.259	-44.816	1.00	30.46	H
ATOM	1767	HD1 TRP A 310	17.572	-28.444	-45.021	1.00	30.46	H
ATOM	1768	HE3 TRP A 310	14.634	-25.138	-42.413	1.00	30.46	H
ATOM	1769	HZ2 TRP A 310	16.245	-29.317	-40.187	1.00	30.46	H
ATOM	1770	HZ3 TRP A 310	13.969	-25.640	-40.073	1.00	30.46	H
ATOM	1771	HH2 TRP A 310	14.730	-27.740	-38.963	1.00	30.46	H
ATOM	1772	N THR A 311	13.988	-28.730	-46.259	1.00	63.68	N
ATOM	1773	CA THR A 311	13.044	-29.658	-45.620	1.00	64.05	C
ATOM	1774	C THR A 311	13.395	-29.802	-44.137	1.00	63.88	C
ATOM	1775	O THR A 311	14.513	-30.223	-43.848	1.00	63.62	O
ATOM	1776	CB THR A 311	13.144	-31.044	-46.283	1.00	64.38	C
ATOM	1777	OG1 THR A 311	14.486	-31.487	-46.273	1.00	64.15	O
ATOM	1778	CG2 THR A 311	12.672	-31.043	-47.736	1.00	64.60	C
ATOM	1779	HN THR A 311	14.766	-29.147	-46.749	1.00	0.00	H
ATOM	1780	HG1 THR A 311	14.822	-31.301	-45.382	1.00	0.00	H
ATOM	1781	HA THR A 311	12.028	-29.275	-45.721	1.00	64.05	H
ATOM	1782	HB THR A 311	12.536	-31.750	-45.716	1.00	64.05	H
ATOM	1783	1HG2 THR A 311	12.766	-32.047	-48.150	1.00	64.05	H
ATOM	1784	2HG2 THR A 311	13.284	-30.352	-48.317	1.00	64.05	H
ATOM	1785	3HG2 THR A 311	11.629	-30.729	-47.780	1.00	64.05	H
ATOM	1786	N GLU A 312	12.437	-29.637	-43.215	1.00	31.64	N
ATOM	1787	CA GLU A 312	12.686	-29.657	-41.754	1.00	31.46	C
ATOM	1788	C GLU A 312	12.916	-31.056	-41.137	1.00	31.70	C
ATOM	1789	O GLU A 312	12.334	-31.428	-40.120	1.00	31.93	O
ATOM	1790	CB GLU A 312	11.648	-28.810	-40.996	1.00	31.48	C
ATOM	1791	CG GLU A 312	10.209	-29.360	-40.955	1.00	31.91	C

ATOM	1792	CD	GLU A 312	9.523	-29.123	-39.596	1.00	31.86	C
ATOM	1793	OE1	GLU A 312	8.442	-29.734	-39.427	1.00	32.21	O
ATOM	1794	OE2	GLU A 312	9.649	-27.990	-39.087	1.00	31.49	O
ATOM	1795	HN	GLU A 312	11.525	-29.334	-43.514	1.00	0.00	H
ATOM	1796	HA	GLU A 312	13.631	-29.131	-41.621	1.00	31.74	H
ATOM	1797	HB1	GLU A 312	11.992	-28.707	-39.967	1.00	31.74	H
ATOM	1798	HB2	GLU A 312	11.614	-27.828	-41.468	1.00	31.74	H
ATOM	1799	HG1	GLU A 312	9.625	-28.867	-41.732	1.00	31.74	H
ATOM	1800	HG2	GLU A 312	10.240	-30.432	-41.148	1.00	31.74	H
ATOM	1801	N	SER A 313	13.772	-31.859	-41.768	1.00	31.66	N
ATOM	1802	CA	SER A 313	14.220	-33.147	-41.247	1.00	31.95	C
ATOM	1803	C	SER A 313	15.060	-32.943	-39.983	1.00	31.68	C
ATOM	1804	O	SER A 313	16.156	-32.379	-40.026	1.00	31.28	O
ATOM	1805	CB	SER A 313	15.004	-33.891	-42.327	1.00	32.07	C
ATOM	1806	OG	SER A 313	15.368	-35.179	-41.871	1.00	32.36	O
ATOM	1807	HN	SER A 313	14.290	-31.450	-42.536	1.00	0.00	H
ATOM	1808	HG	SER A 313	15.892	-35.609	-42.551	1.00	0.00	H
ATOM	1809	HA	SER A 313	13.342	-33.739	-40.987	1.00	31.83	H
ATOM	1810	HB1	SER A 313	14.384	-33.987	-43.219	1.00	31.83	H
ATOM	1811	HB2	SER A 313	15.905	-33.328	-42.569	1.00	31.83	H
ATOM	1812	N	LEU A 314	14.518	-33.353	-38.838	1.00	31.91	N
ATOM	1813	CA	LEU A 314	15.201	-33.325	-37.547	1.00	31.66	C
ATOM	1814	C	LEU A 314	15.597	-34.742	-37.129	1.00	31.94	C
ATOM	1815	O	LEU A 314	14.848	-35.702	-37.334	1.00	32.37	O
ATOM	1816	CB	LEU A 314	14.324	-32.622	-36.493	1.00	31.53	C
ATOM	1817	CG	LEU A 314	13.955	-31.159	-36.822	1.00	31.20	C
ATOM	1818	CD1	LEU A 314	13.219	-30.532	-35.636	1.00	31.20	C

ATOM	1819	CD2 LEU A 314	15.189	-30.303	-37.113	1.00	30.76	C
ATOM	1820	HN LEU A 314	13.597	-33.764	-38.874	1.00	0.00	H
ATOM	1821	HA LEU A 314	16.115	-32.743	-37.664	1.00	31.57	H
ATOM	1822	HB1 LEU A 314	13.399	-33.189	-36.390	1.00	31.57	H
ATOM	1823	HB2 LEU A 314	14.863	-32.630	-35.545	1.00	31.57	H
ATOM	1824	HG LEU A 314	13.300	-31.146	-37.693	1.00	31.57	H
ATOM	1825	1HD1 LEU A 314	12.961	-29.500	-35.873	1.00	31.57	H
ATOM	1826	2HD1 LEU A 314	13.863	-30.552	-34.756	1.00	31.57	H
ATOM	1827	3HD1 LEU A 314	12.309	-31.096	-35.433	1.00	31.57	H
ATOM	1828	1HD2 LEU A 314	14.879	-29.283	-37.339	1.00	31.57	H
ATOM	1829	2HD2 LEU A 314	15.726	-30.717	-37.967	1.00	31.57	H
ATOM	1830	3HD2 LEU A 314	15.843	-30.299	-36.241	1.00	31.57	H
ATOM	1831	N SER A 315	16.735	-34.866	-36.448	1.00	31.68	N
ATOM	1832	CA SER A 315	17.180	-36.144	-35.890	1.00	31.89	C
ATOM	1833	C SER A 315	17.784	-35.980	-34.504	1.00	31.54	C
ATOM	1834	O SER A 315	18.568	-35.062	-34.265	1.00	31.11	O
ATOM	1835	CB SER A 315	18.134	-36.856	-36.846	1.00	32.00	C
ATOM	1836	OG SER A 315	19.362	-36.162	-36.999	1.00	31.65	O
ATOM	1837	HN SER A 315	17.292	-34.038	-36.256	1.00	0.00	H
ATOM	1838	HG SER A 315	19.170	-35.217	-36.925	1.00	0.00	H
ATOM	1839	HA SER A 315	16.298	-36.775	-35.785	1.00	31.64	H
ATOM	1840	HB1 SER A 315	18.341	-37.853	-36.456	1.00	31.65	H
ATOM	1841	HB2 SER A 315	17.655	-36.939	-37.821	1.00	31.65	H
ATOM	1842	N LEU A 316	17.384	-36.851	-33.583	1.00	31.74	N
ATOM	1843	CA LEU A 316	17.939	-36.928	-32.240	1.00	31.44	C
ATOM	1844	C LEU A 316	18.898	-38.114	-32.151	1.00	31.58	C
ATOM	1845	O LEU A 316	18.556	-39.240	-32.513	1.00	32.03	O

ATOM	1846	CB	LEU A 316	16.792	-36.954	-31.214	1.00	31.53	C
ATOM	1847	CG	LEU A 316	17.273	-36.978	-29.750	1.00	31.25	C
ATOM	1848	CD1	LEU A 316	16.301	-36.196	-28.865	1.00	31.16	C
ATOM	1849	CD2	LEU A 316	17.364	-38.403	-29.197	1.00	31.53	C
ATOM	1850	HN	LEU A 316	16.810	-37.629	-33.893	1.00	0.00	H
ATOM	1851	HA	LEU A 316	18.517	-36.020	-32.068	1.00	31.53	H
ATOM	1852	HB1	LEU A 316	16.179	-36.065	-31.360	1.00	31.53	H
ATOM	1853	HB2	LEU A 316	16.190	-37.845	-31.393	1.00	31.53	H
ATOM	1854	HG	LEU A 316	18.257	-36.512	-29.693	1.00	31.53	H
ATOM	1855	1HD1	LEU A 316	16.650	-36.219	-27.833	1.00	31.53	H
ATOM	1856	2HD1	LEU A 316	15.311	-36.648	-28.924	1.00	31.53	H
ATOM	1857	3HD1	LEU A 316	16.248	-35.162	-29.207	1.00	31.53	H
ATOM	1858	1HD2	LEU A 316	17.707	-38.371	-28.163	1.00	31.53	H
ATOM	1859	2HD2	LEU A 316	18.069	-38.981	-29.795	1.00	31.53	H
ATOM	1860	3HD2	LEU A 316	16.381	-38.873	-29.239	1.00	31.53	H
ATOM	1861	N	ILE A 317	20.070	-37.872	-31.582	1.00	31.20	N
ATOM	1862	CA	ILE A 317	20.992	-38.898	-31.109	1.00	31.26	C
ATOM	1863	C	ILE A 317	20.883	-38.945	-29.583	1.00	31.02	C
ATOM	1864	O	ILE A 317	20.764	-37.904	-28.939	1.00	30.58	O
ATOM	1865	CB	ILE A 317	22.433	-38.618	-31.601	1.00	31.04	C
ATOM	1866	CG1	ILE A 317	22.492	-38.330	-33.122	1.00	31.28	C
ATOM	1867	CG2	ILE A 317	23.350	-39.814	-31.288	1.00	31.13	C
ATOM	1868	CD1	ILE A 317	22.469	-36.836	-33.474	1.00	31.03	C
ATOM	1869	HN	ILE A 317	20.258	-36.920	-31.278	1.00	0.00	H
ATOM	1870	HA	ILE A 317	20.672	-39.861	-31.508	1.00	31.07	H
ATOM	1871	HB	ILE A 317	22.814	-37.745	-31.071	1.00	31.07	H
ATOM	1872	1HG1	ILE A 317	23.412	-38.761	-33.517	1.00	31.07	H

ATOM	1873	2HG1	ILE	A	317	21.634	-38.807	-33.595	1.00	31.07	H
ATOM	1874	1HG2	ILE	A	317	24.359	-39.601	-31.640	1.00	31.07	H
ATOM	1875	2HG2	ILE	A	317	22.971	-40.704	-31.790	1.00	31.07	H
ATOM	1876	3HG2	ILE	A	317	23.370	-39.985	-30.212	1.00	31.07	H
ATOM	1877	1HD1	ILE	A	317	22.513	-36.717	-34.556	1.00	31.07	H
ATOM	1878	2HD1	ILE	A	317	23.327	-36.342	-33.019	1.00	31.07	H
ATOM	1879	3HD1	ILE	A	317	21.550	-36.387	-33.097	1.00	31.07	H
ATOM	1880	N	ARG	A	318	20.995	-40.126	-28.977	1.00	31.34	N
ATOM	1881	CA	ARG	A	318	21.327	-40.251	-27.550	1.00	31.16	C
ATOM	1882	C	ARG	A	318	22.633	-41.012	-27.393	1.00	31.10	C
ATOM	1883	O	ARG	A	318	22.848	-42.006	-28.089	1.00	31.47	O
ATOM	1884	CB	ARG	A	318	20.135	-40.799	-26.742	1.00	31.56	C
ATOM	1885	CG	ARG	A	318	19.896	-42.318	-26.838	1.00	32.13	C
ATOM	1886	CD	ARG	A	318	20.722	-43.107	-25.809	1.00	32.27	C
ATOM	1887	NE	ARG	A	318	20.310	-44.519	-25.708	1.00	32.85	N
ATOM	1888	CZ	ARG	A	318	19.320	-44.995	-24.975	1.00	33.29	C
ATOM	1889	NH1	ARG	A	318	18.534	-44.231	-24.269	1.00	33.24	N
ATOM	1890	NH2	ARG	A	318	19.083	-46.273	-24.972	1.00	33.82	N
ATOM	1891	HN	ARG	A	318	21.082	-40.947	-29.570	1.00	0.00	H
ATOM	1892	HE	ARG	A	318	20.950	-45.211	-26.078	1.00	0.00	H
ATOM	1893	1HH1	ARG	A	318	18.831	-43.284	-24.106	1.00	0.00	H
ATOM	1894	2HH1	ARG	A	318	17.925	-44.634	-23.582	1.00	0.00	H
ATOM	1895	1HH2	ARG	A	318	19.667	-46.870	-25.556	1.00	0.00	H
ATOM	1896	2HH2	ARG	A	318	18.344	-46.657	-24.418	1.00	0.00	H
ATOM	1897	HA	ARG	A	318	21.511	-39.241	-27.185	1.00	32.20	H
ATOM	1898	HB1	ARG	A	318	20.302	-40.553	-25.693	1.00	32.20	H
ATOM	1899	HB2	ARG	A	318	19.234	-40.297	-27.094	1.00	32.20	H

ATOM	1900	HG1 ARG A 318	18.838	-42.518	-26.665	1.00	32.20	H
ATOM	1901	HG2 ARG A 318	20.171	-42.653	-27.838	1.00	32.20	H
ATOM	1902	HD1 ARG A 318	21.771	-43.071	-26.103	1.00	32.20	H
ATOM	1903	HD2 ARG A 318	20.601	-42.638	-24.832	1.00	32.20	H
ATOM	1904	N LEU A 319	23.464	-40.576	-26.455	1.00	30.64	N
ATOM	1905	CA LEU A 319	24.765	-41.166	-26.144	1.00	30.54	C
ATOM	1906	C LEU A 319	24.841	-41.404	-24.632	1.00	30.35	C
ATOM	1907	O LEU A 319	24.603	-40.485	-23.849	1.00	29.99	O
ATOM	1908	CB LEU A 319	25.889	-40.227	-26.632	1.00	30.17	C
ATOM	1909	CG LEU A 319	25.898	-39.897	-28.139	1.00	30.26	C
ATOM	1910	CD1 LEU A 319	26.962	-38.844	-28.449	1.00	29.80	C
ATOM	1911	CD2 LEU A 319	26.195	-41.124	-28.999	1.00	30.72	C
ATOM	1912	HN LEU A 319	23.208	-39.735	-25.942	1.00	0.00	H
ATOM	1913	HA LEU A 319	24.853	-42.123	-26.659	1.00	30.31	H
ATOM	1914	HB1 LEU A 319	25.797	-39.288	-26.087	1.00	30.31	H
ATOM	1915	HB2 LEU A 319	26.842	-40.696	-26.389	1.00	30.31	H
ATOM	1916	HG LEU A 319	24.921	-39.501	-28.417	1.00	30.31	H
ATOM	1917	1HD1 LEU A 319	26.955	-38.623	-29.516	1.00	30.31	H
ATOM	1918	2HD1 LEU A 319	27.943	-39.223	-28.164	1.00	30.31	H
ATOM	1919	3HD1 LEU A 319	26.748	-37.934	-27.888	1.00	30.31	H
ATOM	1920	1HD2 LEU A 319	26.190	-40.840	-30.051	1.00	30.31	H
ATOM	1921	2HD2 LEU A 319	25.433	-41.884	-28.825	1.00	30.31	H
ATOM	1922	3HD2 LEU A 319	27.174	-41.525	-28.736	1.00	30.31	H
ATOM	1923	N ALA A 320	25.099	-42.644	-24.213	1.00	30.61	N
ATOM	1924	CA ALA A 320	25.290	-42.964	-22.800	1.00	30.44	C
ATOM	1925	C ALA A 320	26.560	-42.285	-22.263	1.00	29.90	C
ATOM	1926	O ALA A 320	27.632	-42.450	-22.847	1.00	29.81	O



ATOM	1927	CB	ALA A 320	25.332	-44.484	-22.612	1.00	30.84	C
ATOM	1928	HN	ALA A 320	25.276	-43.367	-24.898	1.00	0.00	H
ATOM	1929	HA	ALA A 320	24.436	-42.576	-22.245	1.00	30.32	H
ATOM	1930	HB1	ALA A 320	25.475	-44.716	-21.557	1.00	30.32	H
ATOM	1931	HB2	ALA A 320	26.158	-44.899	-23.190	1.00	30.32	H
ATOM	1932	HB3	ALA A 320	24.394	-44.919	-22.956	1.00	30.32	H
ATOM	1933	N	VAL A 321	26.457	-41.558	-21.150	1.00	55.87	N
ATOM	1934	CA	VAL A 321	27.574	-40.804	-20.543	1.00	55.36	C
ATOM	1935	C	VAL A 321	28.640	-41.714	-19.925	1.00	55.36	C
ATOM	1936	O	VAL A 321	29.812	-41.350	-19.889	1.00	55.04	O
ATOM	1937	CB	VAL A 321	27.066	-39.794	-19.493	1.00	54.95	C
ATOM	1938	CG1	VAL A 321	26.022	-38.846	-20.097	1.00	54.90	C
ATOM	1939	CG2	VAL A 321	26.477	-40.467	-18.244	1.00	55.05	C
ATOM	1940	HN	VAL A 321	25.541	-41.496	-20.710	1.00	0.00	H
ATOM	1941	HA	VAL A 321	28.053	-40.234	-21.339	1.00	55.22	H
ATOM	1942	HB	VAL A 321	27.916	-39.191	-19.175	1.00	55.22	H
ATOM	1943	1HG1	VAL A 321	25.682	-38.146	-19.334	1.00	55.22	H
ATOM	1944	2HG1	VAL A 321	25.173	-39.424	-20.462	1.00	55.22	H
ATOM	1945	3HG1	VAL A 321	26.468	-38.293	-20.924	1.00	55.22	H
ATOM	1946	1HG2	VAL A 321	26.138	-39.703	-17.545	1.00	55.22	H
ATOM	1947	2HG2	VAL A 321	27.241	-41.082	-17.768	1.00	55.22	H
ATOM	1948	3HG2	VAL A 321	25.634	-41.095	-18.532	1.00	55.22	H
ATOM	1949	N	ARG A 322	28.264	-42.956	-19.596	1.00	37.18	N
ATOM	1950	CA	ARG A 322	29.091	-43.948	-18.894	1.00	37.18	C
ATOM	1951	C	ARG A 322	28.913	-45.340	-19.536	1.00	37.74	C
ATOM	1952	O	ARG A 322	28.294	-46.225	-18.950	1.00	38.00	O
ATOM	1953	CB	ARG A 322	28.709	-43.858	-17.410	1.00	37.05	C

ATOM	1954	CG	ARG A 322	29.694	-44.531	-16.445	1.00	36.97	C
ATOM	1955	CD	ARG A 322	29.337	-44.217	-14.981	1.00	36.47	C
ATOM	1956	NE	ARG A 322	28.027	-44.784	-14.591	1.00	36.59	N
ATOM	1957	CZ	ARG A 322	26.842	-44.204	-14.700	1.00	36.64	C
ATOM	1958	NH1	ARG A 322	26.672	-42.964	-15.050	1.00	36.58	N
ATOM	1959	NH2	ARG A 322	25.764	-44.904	-14.536	1.00	36.77	N
ATOM	1960	HN	ARG A 322	27.278	-43.156	-19.682	1.00	0.00	H
ATOM	1961	HE	ARG A 322	28.020	-45.745	-14.308	1.00	0.00	H
ATOM	1962	1HH1	ARG A 322	27.463	-42.387	-15.274	1.00	0.00	H
ATOM	1963	2HH1	ARG A 322	25.712	-42.687	-15.276	1.00	0.00	H
ATOM	1964	1HH2	ARG A 322	25.793	-45.899	-14.511	1.00	0.00	H
ATOM	1965	2HH2	ARG A 322	24.901	-44.498	-14.924	1.00	0.00	H
ATOM	1966	HA	ARG A 322	30.136	-43.656	-18.996	1.00	37.02	H
ATOM	1967	HB1	ARG A 322	28.640	-42.804	-17.142	1.00	37.02	H
ATOM	1968	HB2	ARG A 322	27.735	-44.330	-17.282	1.00	37.02	H
ATOM	1969	HG1	ARG A 322	29.659	-45.610	-16.596	1.00	37.02	H
ATOM	1970	HG2	ARG A 322	30.700	-44.167	-16.652	1.00	37.02	H
ATOM	1971	HD1	ARG A 322	30.108	-44.637	-14.334	1.00	37.02	H
ATOM	1972	HD2	ARG A 322	29.303	-43.135	-14.852	1.00	37.02	H
ATOM	1973	N	PRO A 323	29.234	-45.477	-20.837	1.00	30.14	N
ATOM	1974	CA	PRO A 323	28.738	-46.534	-21.722	1.00	30.74	C
ATOM	1975	C	PRO A 323	29.149	-47.934	-21.237	1.00	31.12	C
ATOM	1976	O	PRO A 323	29.228	-48.878	-22.028	1.00	31.05	O
ATOM	1977	CB	PRO A 323	29.303	-46.174	-23.105	1.00	30.74	C
ATOM	1978	CG	PRO A 323	30.610	-45.469	-22.760	1.00	30.17	C
ATOM	1979	CD	PRO A 323	30.194	-44.646	-21.547	1.00	29.79	C
ATOM	1980	HA	PRO A 323	27.650	-46.480	-21.761	1.00	30.54	H

ATOM	1981	HC	PRO A 323	29.373	-48.095	-20.182	1.00	30.54	H
ATOM	1982	HB1	PRO A 323	29.485	-47.069	-23.700	1.00	30.54	H
ATOM	1983	HB2	PRO A 323	28.628	-45.509	-23.644	1.00	30.54	H
ATOM	1984	HG1	PRO A 323	31.394	-46.183	-22.508	1.00	30.54	H
ATOM	1985	HG2	PRO A 323	30.947	-44.832	-23.578	1.00	30.54	H
ATOM	1986	HD1	PRO A 323	31.056	-44.433	-20.915	1.00	30.54	H
ATOM	1987	HD2	PRO A 323	29.732	-43.710	-21.860	1.00	30.54	H
ATOM	1988	N	ASP A 329	22.436	-50.639	-28.123	1.00	34.57	N
ATOM	1989	CA	ASP A 329	21.606	-49.435	-28.176	1.00	34.22	C
ATOM	1990	C	ASP A 329	21.352	-48.781	-26.805	1.00	33.80	C
ATOM	1991	O	ASP A 329	20.647	-47.770	-26.711	1.00	33.55	O
ATOM	1992	CB	ASP A 329	20.295	-49.716	-28.922	1.00	34.68	C
ATOM	1993	CG	ASP A 329	20.503	-49.898	-30.427	1.00	34.80	C
ATOM	1994	OD1	ASP A 329	21.168	-50.880	-30.804	1.00	34.33	O
ATOM	1995	OD2	ASP A 329	19.705	-49.262	-31.160	1.00	35.36	O
ATOM	1996	HN1	ASP A 329	21.960	-51.374	-27.509	1.00	0.00	H
ATOM	1997	HN2	ASP A 329	23.393	-50.395	-27.710	1.00	34.41	H
ATOM	1998	HA	ASP A 329	22.154	-48.705	-28.773	1.00	34.41	H
ATOM	1999	HB1	ASP A 329	19.852	-50.626	-28.518	1.00	34.41	H
ATOM	2000	HB2	ASP A 329	19.616	-48.879	-28.762	1.00	34.41	H
ATOM	2001	N	TYR A 330	21.992	-49.276	-25.740	1.00	33.72	N
ATOM	2002	CA	TYR A 330	22.263	-48.463	-24.546	1.00	33.20	C
ATOM	2003	C	TYR A 330	23.263	-47.349	-24.886	1.00	32.60	C
ATOM	2004	O	TYR A 330	22.895	-46.175	-24.919	1.00	32.21	O
ATOM	2005	CB	TYR A 330	22.771	-49.346	-23.390	1.00	33.19	C
ATOM	2006	CG	TYR A 330	23.259	-48.568	-22.172	1.00	32.61	C
ATOM	2007	CD1	TYR A 330	22.338	-47.885	-21.351	1.00	32.26	C

ATOM	2008	CD2 TYR A 330	24.634	-48.509	-21.866	1.00	32.45	C
ATOM	2009	CE1 TYR A 330	22.785	-47.122	-20.250	1.00	31.77	C
ATOM	2010	CE2 TYR A 330	25.080	-47.761	-20.757	1.00	31.93	C
ATOM	2011	CZ TYR A 330	24.162	-47.060	-19.947	1.00	31.61	C
ATOM	2012	OH TYR A 330	24.632	-46.334	-18.897	1.00	31.12	O
ATOM	2013	HN TYR A 330	22.543	-50.109	-25.900	1.00	0.00	H
ATOM	2014	HH TYR A 330	23.968	-46.062	-18.248	1.00	0.00	H
ATOM	2015	HA TYR A 330	21.329	-47.997	-24.233	1.00	32.39	H
ATOM	2016	HB1 TYR A 330	21.956	-49.997	-23.075	1.00	32.39	H
ATOM	2017	HB2 TYR A 330	23.598	-49.952	-23.761	1.00	32.39	H
ATOM	2018	HD1 TYR A 330	21.272	-47.947	-21.568	1.00	32.39	H
ATOM	2019	HD2 TYR A 330	25.353	-49.042	-22.488	1.00	32.39	H
ATOM	2020	HE1 TYR A 330	22.067	-46.581	-19.634	1.00	32.39	H
ATOM	2021	HE2 TYR A 330	26.144	-47.724	-20.523	1.00	32.39	H
ATOM	2022	N ASN A 331	24.436	-47.752	-25.383	1.00	32.56	N
ATOM	2023	CA ASN A 331	25.605	-46.900	-25.601	1.00	32.02	C
ATOM	2024	C ASN A 331	25.331	-45.725	-26.551	1.00	31.95	C
ATOM	2025	O ASN A 331	25.723	-44.597	-26.258	1.00	31.51	O
ATOM	2026	CB ASN A 331	26.769	-47.770	-26.130	1.00	32.05	C
ATOM	2027	CG ASN A 331	27.141	-48.938	-25.224	1.00	32.09	C
ATOM	2028	OD1 ASN A 331	26.299	-49.681	-24.751	1.00	31.93	O
ATOM	2029	ND2 ASN A 331	28.402	-49.104	-24.911	1.00	32.30	N
ATOM	2030	HN ASN A 331	24.631	-48.746	-25.324	1.00	0.00	H
ATOM	2031	1HD2 ASN A 331	29.108	-48.481	-25.252	1.00	0.00	H
ATOM	2032	2HD2 ASN A 331	28.594	-49.729	-24.140	1.00	0.00	H
ATOM	2033	HA ASN A 331	25.905	-46.489	-24.637	1.00	32.05	H
ATOM	2034	HB1 ASN A 331	26.481	-48.170	-27.102	1.00	32.05	H

ATOM	2035	HB2 ASN A 331	27.646	-47.133	-26.244	1.00	32.05	H
ATOM	2036	N GLN A 332	24.650	-45.976	-27.671	1.00	32.39	N
ATOM	2037	CA GLN A 332	24.299	-44.978	-28.685	1.00	32.30	C
ATOM	2038	C GLN A 332	22.949	-45.341	-29.316	1.00	32.80	C
ATOM	2039	O GLN A 332	22.684	-46.521	-29.535	1.00	33.32	O
ATOM	2040	CB GLN A 332	25.379	-44.901	-29.786	1.00	32.24	C
ATOM	2041	CG GLN A 332	26.811	-44.674	-29.270	1.00	31.71	C
ATOM	2042	CD GLN A 332	27.807	-44.297	-30.363	1.00	31.54	C
ATOM	2043	OE1 GLN A 332	27.565	-44.419	-31.553	1.00	31.87	O
ATOM	2044	NE2 GLN A 332	28.975	-43.841	-29.977	1.00	31.04	N
ATOM	2045	HN GLN A 332	24.312	-46.915	-27.826	1.00	0.00	H
ATOM	2046	1HE2 GLN A 332	29.169	-43.717	-28.988	1.00	0.00	H
ATOM	2047	2HE2 GLN A 332	29.648	-43.549	-30.674	1.00	0.00	H
ATOM	2048	HA GLN A 332	24.214	-44.003	-28.206	1.00	32.13	H
ATOM	2049	HB1 GLN A 332	25.364	-45.838	-30.342	1.00	32.13	H
ATOM	2050	HB2 GLN A 332	25.125	-44.078	-30.453	1.00	32.13	H
ATOM	2051	HG1 GLN A 332	26.788	-43.870	-28.534	1.00	32.13	H
ATOM	2052	HG2 GLN A 332	27.154	-45.593	-28.794	1.00	32.13	H
ATOM	2053	N LYS A 333	22.153	-44.351	-29.735	1.00	32.66	N
ATOM	2054	CA LYS A 333	21.011	-44.566	-30.644	1.00	33.07	C
ATOM	2055	C LYS A 333	20.738	-43.320	-31.483	1.00	32.84	C
ATOM	2056	O LYS A 333	20.755	-42.214	-30.951	1.00	32.33	O
ATOM	2057	CB LYS A 333	19.764	-45.008	-29.853	1.00	33.24	C
ATOM	2058	CG LYS A 333	18.697	-45.631	-30.764	1.00	33.61	C
ATOM	2059	CD LYS A 333	17.467	-46.065	-29.953	1.00	33.92	C
ATOM	2060	CE LYS A 333	16.652	-47.132	-30.697	1.00	34.58	C
ATOM	2061	NZ LYS A 333	17.302	-48.463	-30.637	1.00	34.67	N1+

ATOM	2062	HN	LYS	A	333	22.411	-43.396	-29.493	1.00	0.00	H
ATOM	2063	HZ1	LYS	A	333	16.801	-49.177	-31.142	1.00	0.00	H
ATOM	2064	HZ2	LYS	A	333	17.484	-48.775	-29.692	1.00	0.00	H
ATOM	2065	HZ3	LYS	A	333	18.233	-48.447	-31.072	1.00	0.00	H
ATOM	2066	HA	LYS	A	333	21.276	-45.374	-31.326	1.00	33.44	H
ATOM	2067	HB1	LYS	A	333	20.063	-45.744	-29.107	1.00	33.44	H
ATOM	2068	HB2	LYS	A	333	19.337	-44.138	-29.355	1.00	33.44	H
ATOM	2069	HG1	LYS	A	333	18.392	-44.896	-31.509	1.00	33.44	H
ATOM	2070	HG2	LYS	A	333	19.120	-46.502	-31.264	1.00	33.44	H
ATOM	2071	HD1	LYS	A	333	17.798	-46.474	-28.998	1.00	33.44	H
ATOM	2072	HD2	LYS	A	333	16.834	-45.195	-29.776	1.00	33.44	H
ATOM	2073	HE1	LYS	A	333	15.664	-47.201	-30.242	1.00	33.44	H
ATOM	2074	HE2	LYS	A	333	16.552	-46.835	-31.741	1.00	33.44	H
ATOM	2075	N	TYR	A	334	20.411	-43.515	-32.759	1.00	33.24	N
ATOM	2076	CA	TYR	A	334	19.962	-42.473	-33.691	1.00	33.11	C
ATOM	2077	C	TYR	A	334	18.449	-42.581	-33.944	1.00	33.44	C
ATOM	2078	O	TYR	A	334	17.930	-43.687	-34.101	1.00	33.93	O
ATOM	2079	CB	TYR	A	334	20.763	-42.611	-34.996	1.00	33.28	C
ATOM	2080	CG	TYR	A	334	20.545	-41.494	-35.999	1.00	32.90	C
ATOM	2081	CD1	TYR	A	334	19.536	-41.593	-36.979	1.00	33.04	C
ATOM	2082	CD2	TYR	A	334	21.367	-40.353	-35.954	1.00	32.40	C
ATOM	2083	CE1	TYR	A	334	19.352	-40.550	-37.910	1.00	32.68	C
ATOM	2084	CE2	TYR	A	334	21.163	-39.294	-36.858	1.00	32.06	C
ATOM	2085	CZ	TYR	A	334	20.167	-39.400	-37.850	1.00	32.19	C
ATOM	2086	OH	TYR	A	334	19.969	-38.378	-38.722	1.00	31.85	O
ATOM	2087	HN	TYR	A	334	20.363	-44.464	-33.091	1.00	0.00	H
ATOM	2088	HH	TYR	A	334	20.019	-37.527	-38.262	1.00	0.00	H

ATOM	2089	HA	TYR A 334	20.174	-41.498	-33.253	1.00	32.84	H
ATOM	2090	HB1	TYR A 334	21.823	-42.636	-34.742	1.00	32.84	H
ATOM	2091	HB2	TYR A 334	20.480	-43.551	-35.469	1.00	32.84	H
ATOM	2092	HD1	TYR A 334	18.898	-42.476	-37.017	1.00	32.84	H
ATOM	2093	HD2	TYR A 334	22.166	-40.289	-35.215	1.00	32.84	H
ATOM	2094	HE1	TYR A 334	18.581	-40.632	-38.676	1.00	32.84	H
ATOM	2095	HE2	TYR A 334	21.774	-38.394	-36.791	1.00	32.84	H
ATOM	2096	N	ILE A 335	17.752	-41.448	-34.044	1.00	33.18	N
ATOM	2097	CA	ILE A 335	16.310	-41.345	-34.314	1.00	33.48	C
ATOM	2098	C	ILE A 335	16.084	-40.233	-35.345	1.00	33.30	C
ATOM	2099	O	ILE A 335	16.319	-39.064	-35.050	1.00	32.82	O
ATOM	2100	CB	ILE A 335	15.519	-41.071	-33.004	1.00	33.41	C
ATOM	2101	CG1	ILE A 335	15.700	-42.218	-31.980	1.00	33.82	C
ATOM	2102	CG2	ILE A 335	14.023	-40.839	-33.304	1.00	33.54	C
ATOM	2103	CD1	ILE A 335	15.024	-41.975	-30.623	1.00	33.89	C
ATOM	2104	HN	ILE A 335	18.227	-40.578	-33.815	1.00	0.00	H
ATOM	2105	HA	ILE A 335	15.966	-42.289	-34.738	1.00	33.43	H
ATOM	2106	HB	ILE A 335	15.916	-40.159	-32.558	1.00	33.43	H
ATOM	2107	1HG1	ILE A 335	15.281	-43.127	-32.411	1.00	33.43	H
ATOM	2108	2HG1	ILE A 335	16.768	-42.355	-31.808	1.00	33.43	H
ATOM	2109	1HG2	ILE A 335	13.490	-40.649	-32.372	1.00	33.43	H
ATOM	2110	2HG2	ILE A 335	13.607	-41.724	-33.786	1.00	33.43	H
ATOM	2111	3HG2	ILE A 335	13.914	-39.980	-33.966	1.00	33.43	H
ATOM	2112	1HD1	ILE A 335	15.203	-42.829	-29.969	1.00	33.43	H
ATOM	2113	2HD1	ILE A 335	13.951	-41.848	-30.769	1.00	33.43	H
ATOM	2114	3HD1	ILE A 335	15.437	-41.076	-30.166	1.00	33.43	H
ATOM	2115	N	ALA A 336	15.507	-40.563	-36.503	1.00	48.91	N

ATOM	2116	CA	ALA A 336	14.855	-39.574	-37.365	1.00	48.81	C
ATOM	2117	C	ALA A 336	13.444	-39.276	-36.825	1.00	48.88	C
ATOM	2118	O	ALA A 336	12.671	-40.204	-36.576	1.00	49.36	O
ATOM	2119	CB	ALA A 336	14.820	-40.108	-38.801	1.00	49.23	C
ATOM	2120	HN	ALA A 336	15.260	-41.528	-36.650	1.00	0.00	H
ATOM	2121	HA	ALA A 336	15.439	-38.654	-37.347	1.00	49.04	H
ATOM	2122	HB1	ALA A 336	14.336	-39.377	-39.449	1.00	49.04	H
ATOM	2123	HB2	ALA A 336	14.261	-41.043	-38.828	1.00	49.04	H
ATOM	2124	HB3	ALA A 336	15.838	-40.284	-39.149	1.00	49.04	H
ATOM	2125	N	ILE A 337	13.132	-38.007	-36.555	1.00	33.24	N
ATOM	2126	CA	ILE A 337	11.854	-37.619	-35.943	1.00	33.27	C
ATOM	2127	C	ILE A 337	10.745	-37.584	-36.999	1.00	33.57	C
ATOM	2128	O	ILE A 337	10.852	-36.909	-38.017	1.00	33.45	O
ATOM	2129	CB	ILE A 337	12.017	-36.291	-35.177	1.00	32.73	C
ATOM	2130	CG1	ILE A 337	12.875	-36.522	-33.908	1.00	32.41	C
ATOM	2131	CG2	ILE A 337	10.665	-35.690	-34.761	1.00	32.81	C
ATOM	2132	CD1	ILE A 337	13.977	-35.475	-33.772	1.00	31.85	C
ATOM	2133	HN	ILE A 337	13.774	-37.267	-36.827	1.00	0.00	H
ATOM	2134	HA	ILE A 337	11.591	-38.387	-35.216	1.00	32.92	H
ATOM	2135	HB	ILE A 337	12.532	-35.578	-35.821	1.00	32.92	H
ATOM	2136	1HG1	ILE A 337	12.229	-36.471	-33.031	1.00	32.92	H
ATOM	2137	2HG1	ILE A 337	13.332	-37.510	-33.966	1.00	32.92	H
ATOM	2138	1HG2	ILE A 337	10.832	-34.756	-34.225	1.00	32.92	H
ATOM	2139	2HG2	ILE A 337	10.139	-36.391	-34.113	1.00	32.92	H
ATOM	2140	3HG2	ILE A 337	10.064	-35.496	-35.650	1.00	32.92	H
ATOM	2141	1HD1	ILE A 337	14.556	-35.672	-32.870	1.00	32.92	H
ATOM	2142	2HD1	ILE A 337	13.530	-34.483	-33.707	1.00	32.92	H



ATOM	2143	3HD1 ILE A 337	14.633	-35.522	-34.642	1.00	32.92	H
ATOM	2144	N THR A 338	9.645	-38.289	-36.725	1.00	33.99	N
ATOM	2145	CA THR A 338	8.498	-38.439	-37.643	1.00	34.40	C
ATOM	2146	C THR A 338	7.315	-37.519	-37.323	1.00	34.37	C
ATOM	2147	O THR A 338	6.333	-37.512	-38.064	1.00	34.43	O
ATOM	2148	CB THR A 338	8.022	-39.899	-37.683	1.00	35.02	C
ATOM	2149	OG1 THR A 338	7.709	-40.356	-36.386	1.00	35.10	O
ATOM	2150	CG2 THR A 338	9.081	-40.844	-38.252	1.00	35.14	C
ATOM	2151	HN THR A 338	9.632	-38.830	-35.874	1.00	0.00	H
ATOM	2152	HG1 THR A 338	8.436	-40.915	-36.101	1.00	0.00	H
ATOM	2153	HA THR A 338	8.847	-38.183	-38.644	1.00	34.64	H
ATOM	2154	HB THR A 338	7.127	-39.960	-38.303	1.00	34.64	H
ATOM	2155	1HG2 THR A 338	8.694	-41.863	-38.258	1.00	34.64	H
ATOM	2156	2HG2 THR A 338	9.978	-40.800	-37.634	1.00	34.64	H
ATOM	2157	3HG2 THR A 338	9.327	-40.543	-39.270	1.00	34.64	H
ATOM	2158	N LYS A 339	7.394	-36.723	-36.246	1.00	44.67	N
ATOM	2159	CA LYS A 339	6.368	-35.754	-35.830	1.00	44.64	C
ATOM	2160	C LYS A 339	7.001	-34.518	-35.195	1.00	44.06	C
ATOM	2161	O LYS A 339	7.706	-34.636	-34.193	1.00	43.81	O
ATOM	2162	CB LYS A 339	5.399	-36.389	-34.823	1.00	45.08	C
ATOM	2163	CG LYS A 339	4.450	-37.428	-35.434	1.00	45.68	C
ATOM	2164	CD LYS A 339	3.465	-37.887	-34.356	1.00	46.21	C
ATOM	2165	CE LYS A 339	2.395	-38.812	-34.929	1.00	46.84	C
ATOM	2166	NZ LYS A 339	1.403	-39.148	-33.878	1.00	47.34	N1+
ATOM	2167	HN LYS A 339	8.243	-36.763	-35.699	1.00	0.00	H
ATOM	2168	HZ1 LYS A 339	0.676	-39.745	-34.247	1.00	0.00	H
ATOM	2169	HZ2 LYS A 339	0.983	-38.297	-33.520	1.00	0.00	H

ATOM	2170	HZ3	LYS	A	339	1.858	-39.618	-33.106	1.00	0.00	H
ATOM	2171	HA	LYS	A	339	5.804	-35.444	-36.710	1.00	45.37	H
ATOM	2172	HB1	LYS	A	339	5.986	-36.878	-34.045	1.00	45.37	H
ATOM	2173	HB2	LYS	A	339	4.797	-35.595	-34.380	1.00	45.37	H
ATOM	2174	HG1	LYS	A	339	3.903	-36.981	-36.264	1.00	45.37	H
ATOM	2175	HG2	LYS	A	339	5.024	-38.282	-35.794	1.00	45.37	H
ATOM	2176	HD1	LYS	A	339	4.014	-38.420	-33.579	1.00	45.37	H
ATOM	2177	HD2	LYS	A	339	2.981	-37.011	-33.924	1.00	45.37	H
ATOM	2178	HE1	LYS	A	339	1.890	-38.312	-35.756	1.00	45.37	H
ATOM	2179	HE2	LYS	A	339	2.864	-39.728	-35.289	1.00	45.37	H
ATOM	2180	N	VAL	A	340	6.590	-33.344	-35.671	1.00	33.47	N
ATOM	2181	CA	VAL	A	340	6.974	-32.042	-35.117	1.00	32.97	C
ATOM	2182	C	VAL	A	340	5.751	-31.124	-35.114	1.00	33.00	C
ATOM	2183	O	VAL	A	340	5.136	-30.895	-36.154	1.00	33.08	O
ATOM	2184	CB	VAL	A	340	8.144	-31.405	-35.896	1.00	32.55	C
ATOM	2185	CG1	VAL	A	340	8.675	-30.188	-35.137	1.00	32.09	C
ATOM	2186	CG2	VAL	A	340	9.329	-32.359	-36.108	1.00	32.46	C
ATOM	2187	HN	VAL	A	340	5.960	-33.333	-36.458	1.00	0.00	H
ATOM	2188	HA	VAL	A	340	7.292	-32.191	-34.085	1.00	32.80	H
ATOM	2189	HB	VAL	A	340	7.779	-31.078	-36.870	1.00	32.80	H
ATOM	2190	1HG1	VAL	A	340	9.501	-29.744	-35.693	1.00	32.80	H
ATOM	2191	2HG1	VAL	A	340	9.026	-30.498	-34.153	1.00	32.80	H
ATOM	2192	3HG1	VAL	A	340	7.878	-29.454	-35.023	1.00	32.80	H
ATOM	2193	1HG2	VAL	A	340	10.115	-31.846	-36.662	1.00	32.80	H
ATOM	2194	2HG2	VAL	A	340	8.998	-33.231	-36.672	1.00	32.80	H
ATOM	2195	3HG2	VAL	A	340	9.717	-32.678	-35.141	1.00	32.80	H
ATOM	2196	N	GLU	A	341	5.341	-30.652	-33.941	1.00	49.50	N

ATOM	2197	CA	GLU A 341	4.078	-29.938	-33.728	1.00	49.55	C
ATOM	2198	C	GLU A 341	4.362	-28.475	-33.355	1.00	49.06	C
ATOM	2199	O	GLU A 341	4.981	-28.189	-32.331	1.00	48.77	O
ATOM	2200	CB	GLU A 341	3.234	-30.675	-32.672	1.00	49.79	C
ATOM	2201	CG	GLU A 341	2.808	-32.075	-33.165	1.00	50.32	C
ATOM	2202	CD	GLU A 341	2.043	-32.921	-32.134	1.00	50.60	C
ATOM	2203	OE1	GLU A 341	2.082	-32.579	-30.928	1.00	50.33	O
ATOM	2204	OE2	GLU A 341	1.618	-34.032	-32.534	1.00	51.10	O
ATOM	2205	HN	GLU A 341	5.866	-30.920	-33.111	1.00	0.00	H
ATOM	2206	HA	GLU A 341	3.524	-29.945	-34.667	1.00	49.89	H
ATOM	2207	HB1	GLU A 341	3.823	-30.784	-31.761	1.00	49.89	H
ATOM	2208	HB2	GLU A 341	2.341	-30.087	-32.459	1.00	49.89	H
ATOM	2209	HG1	GLU A 341	2.168	-31.946	-34.038	1.00	49.89	H
ATOM	2210	HG2	GLU A 341	3.707	-32.621	-33.450	1.00	49.89	H
ATOM	2211	N	ARG A 342	4.044	-27.543	-34.267	1.00	32.42	N
ATOM	2212	CA	ARG A 342	4.571	-26.161	-34.234	1.00	31.99	C
ATOM	2213	C	ARG A 342	3.576	-25.054	-34.609	1.00	32.01	C
ATOM	2214	O	ARG A 342	3.972	-23.962	-35.009	1.00	31.69	O
ATOM	2215	CB	ARG A 342	5.925	-26.076	-34.970	1.00	31.67	C
ATOM	2216	CG	ARG A 342	5.940	-26.320	-36.489	1.00	31.83	C
ATOM	2217	CD	ARG A 342	5.754	-27.792	-36.898	1.00	32.12	C
ATOM	2218	NE	ARG A 342	6.327	-28.106	-38.220	1.00	32.19	N
ATOM	2219	CZ	ARG A 342	6.017	-27.592	-39.394	1.00	32.47	C
ATOM	2220	NH1	ARG A 342	5.168	-26.627	-39.571	1.00	32.71	N
ATOM	2221	NH2	ARG A 342	6.628	-27.982	-40.456	1.00	32.50	N
ATOM	2222	HN	ARG A 342	3.613	-27.868	-35.119	1.00	0.00	H
ATOM	2223	HE	ARG A 342	7.083	-28.795	-38.267	1.00	0.00	H

ATOM	2224	1HH1	ARG A 342	4.839	-26.086	-38.798	1.00	0.00	H
ATOM	2225	2HH1	ARG A 342	5.221	-26.165	-40.461	1.00	0.00	H
ATOM	2226	1HH2	ARG A 342	7.363	-28.665	-40.272	1.00	0.00	H
ATOM	2227	2HH2	ARG A 342	6.716	-27.339	-41.231	1.00	0.00	H
ATOM	2228	HA	ARG A 342	4.810	-25.978	-33.186	1.00	32.15	H
ATOM	2229	HB1	ARG A 342	6.324	-25.076	-34.799	1.00	32.15	H
ATOM	2230	HB2	ARG A 342	6.587	-26.814	-34.517	1.00	32.15	H
ATOM	2231	HG1	ARG A 342	5.134	-25.738	-36.936	1.00	32.15	H
ATOM	2232	HG2	ARG A 342	6.898	-25.976	-36.880	1.00	32.15	H
ATOM	2233	HD1	ARG A 342	6.239	-28.422	-36.152	1.00	32.15	H
ATOM	2234	HD2	ARG A 342	4.687	-28.012	-36.922	1.00	32.15	H
ATOM	2235	N	GLY A 343	2.279	-25.299	-34.424	1.00	32.41	N
ATOM	2236	CA	GLY A 343	1.241	-24.266	-34.533	1.00	32.51	C
ATOM	2237	C	GLY A 343	1.241	-23.542	-35.887	1.00	32.44	C
ATOM	2238	O	GLY A 343	1.014	-24.167	-36.920	1.00	32.74	O
ATOM	2239	HN	GLY A 343	2.026	-26.199	-34.049	1.00	0.00	H
ATOM	2240	HA1	GLY A 343	0.268	-24.738	-34.394	1.00	32.53	H
ATOM	2241	HA2	GLY A 343	1.404	-23.529	-33.747	1.00	32.53	H
ATOM	2242	N	LYS A 344	1.447	-22.216	-35.878	1.00	32.05	N
ATOM	2243	CA	LYS A 344	1.487	-21.372	-37.090	1.00	31.95	C
ATOM	2244	C	LYS A 344	2.871	-21.250	-37.749	1.00	31.64	C
ATOM	2245	O	LYS A 344	2.976	-20.586	-38.778	1.00	31.67	O
ATOM	2246	CB	LYS A 344	0.877	-19.984	-36.783	1.00	31.81	C
ATOM	2247	CG	LYS A 344	-0.319	-19.627	-37.685	1.00	32.03	C
ATOM	2248	CD	LYS A 344	0.033	-19.432	-39.170	1.00	31.88	C
ATOM	2249	CE	LYS A 344	-1.245	-19.149	-39.969	1.00	32.20	C
ATOM	2250	NZ	LYS A 344	-0.968	-18.970	-41.414	1.00	32.04	N1+

ATOM	2251	HN	LYS	A	344	1.653	-21.781	-34.989	1.00	0.00	H
ATOM	2252	HZ1	LYS	A	344	-0.380	-19.695	-41.793	1.00	0.00	H
ATOM	2253	HZ2	LYS	A	344	-0.503	-18.074	-41.591	1.00	0.00	H
ATOM	2254	HZ3	LYS	A	344	-1.813	-18.886	-41.958	1.00	0.00	H
ATOM	2255	HA	LYS	A	344	0.833	-21.846	-37.822	1.00	31.92	H
ATOM	2256	HB1	LYS	A	344	0.542	-19.976	-35.746	1.00	31.92	H
ATOM	2257	HB2	LYS	A	344	1.651	-19.229	-36.921	1.00	31.92	H
ATOM	2258	HG1	LYS	A	344	-1.051	-20.431	-37.612	1.00	31.92	H
ATOM	2259	HG2	LYS	A	344	-0.758	-18.700	-37.316	1.00	31.92	H
ATOM	2260	HD1	LYS	A	344	0.719	-18.591	-39.273	1.00	31.92	H
ATOM	2261	HD2	LYS	A	344	0.507	-20.336	-39.552	1.00	31.92	H
ATOM	2262	HE1	LYS	A	344	-1.931	-19.987	-39.843	1.00	31.92	H
ATOM	2263	HE2	LYS	A	344	-1.707	-18.240	-39.584	1.00	31.92	H
ATOM	2264	N	TYR	A	345	3.925	-21.834	-37.175	1.00	31.63	N
ATOM	2265	CA	TYR	A	345	5.253	-21.852	-37.799	1.00	31.32	C
ATOM	2266	C	TYR	A	345	5.272	-22.804	-38.998	1.00	31.52	C
ATOM	2267	O	TYR	A	345	4.770	-23.925	-38.926	1.00	31.84	O
ATOM	2268	CB	TYR	A	345	6.342	-22.182	-36.768	1.00	31.08	C
ATOM	2269	CG	TYR	A	345	6.509	-21.056	-35.772	1.00	30.90	C
ATOM	2270	CD1	TYR	A	345	5.715	-21.007	-34.612	1.00	31.05	C
ATOM	2271	CD2	TYR	A	345	7.365	-19.982	-36.078	1.00	30.61	C
ATOM	2272	CE1	TYR	A	345	5.729	-19.858	-33.799	1.00	30.91	C
ATOM	2273	CE2	TYR	A	345	7.389	-18.837	-35.264	1.00	30.48	C
ATOM	2274	CZ	TYR	A	345	6.543	-18.758	-34.144	1.00	30.63	C
ATOM	2275	OH	TYR	A	345	6.492	-17.603	-33.439	1.00	30.51	O
ATOM	2276	HN	TYR	A	345	3.782	-22.425	-36.367	1.00	0.00	H
ATOM	2277	HH	TYR	A	345	5.833	-17.687	-32.699	1.00	0.00	H

ATOM	2278	HA	TYR A 345	5.452	-20.848	-38.175	1.00	31.04	H
ATOM	2279	HB1	TYR A 345	6.063	-23.091	-36.234	1.00	31.04	H
ATOM	2280	HB2	TYR A 345	7.287	-22.341	-37.287	1.00	31.04	H
ATOM	2281	HD1	TYR A 345	5.089	-21.858	-34.343	1.00	31.04	H
ATOM	2282	HD2	TYR A 345	8.014	-20.039	-36.952	1.00	31.04	H
ATOM	2283	HE1	TYR A 345	5.111	-19.818	-32.902	1.00	31.04	H
ATOM	2284	HE2	TYR A 345	8.062	-18.012	-35.500	1.00	31.04	H
ATOM	2285	N	ASP A 346	5.869	-22.350	-40.101	1.00	31.10	N
ATOM	2286	CA	ASP A 346	6.030	-23.118	-41.345	1.00	31.28	C
ATOM	2287	C	ASP A 346	6.996	-24.298	-41.149	1.00	31.32	C
ATOM	2288	O	ASP A 346	6.691	-25.415	-41.580	1.00	31.66	O
ATOM	2289	CB	ASP A 346	6.495	-22.127	-42.427	1.00	31.04	C
ATOM	2290	CG	ASP A 346	6.955	-22.724	-43.768	1.00	31.26	C
ATOM	2291	OD1	ASP A 346	7.858	-23.583	-43.717	1.00	31.53	O
ATOM	2292	OD2	ASP A 346	6.922	-21.945	-44.746	1.00	31.17	O
ATOM	2293	HN	ASP A 346	6.360	-21.466	-40.034	1.00	0.00	H
ATOM	2294	HB1	ASP A 346	5.683	-21.425	-42.615	1.00	0.00	H
ATOM	2295	HB2	ASP A 346	7.331	-21.560	-42.017	1.00	0.00	H
ATOM	2296	HA	ASP A 346	5.056	-23.513	-41.635	1.00	31.29	H
ATOM	2297	N	LYS A 347	8.019	-24.088	-40.309	1.00	31.00	N
ATOM	2298	CA	LYS A 347	9.024	-25.069	-39.880	1.00	31.01	C
ATOM	2299	C	LYS A 347	9.731	-24.635	-38.585	1.00	30.69	C
ATOM	2300	O	LYS A 347	9.635	-23.466	-38.201	1.00	30.42	O
ATOM	2301	CB	LYS A 347	10.021	-25.317	-41.029	1.00	30.92	C
ATOM	2302	CG	LYS A 347	10.678	-24.031	-41.554	1.00	30.70	C
ATOM	2303	CD	LYS A 347	11.762	-24.261	-42.609	1.00	30.51	C
ATOM	2304	CE	LYS A 347	11.314	-24.966	-43.893	1.00	30.82	C

ATOM	2305	NZ	LYS	A 347	10.284	-24.214	-44.642	1.00	31.19	N1+
ATOM	2306	HN	LYS	A 347	8.125	-23.148	-39.943	1.00	0.00	H
ATOM	2307	HZ1	LYS	A 347	10.019	-24.687	-45.490	1.00	0.00	H
ATOM	2308	HZ2	LYS	A 347	10.584	-23.277	-44.885	1.00	0.00	H
ATOM	2309	HZ3	LYS	A 347	9.424	-24.097	-44.097	1.00	0.00	H
ATOM	2310	HA	LYS	A 347	8.508	-26.008	-39.679	1.00	30.81	H
ATOM	2311	HB1	LYS	A 347	10.805	-25.983	-40.669	1.00	30.81	H
ATOM	2312	HB2	LYS	A 347	9.488	-25.794	-41.852	1.00	30.81	H
ATOM	2313	HG1	LYS	A 347	9.901	-23.406	-41.994	1.00	30.81	H
ATOM	2314	HG2	LYS	A 347	11.129	-23.510	-40.710	1.00	30.81	H
ATOM	2315	HD1	LYS	A 347	12.167	-23.288	-42.887	1.00	30.81	H
ATOM	2316	HD2	LYS	A 347	12.547	-24.865	-42.154	1.00	30.81	H
ATOM	2317	HE1	LYS	A 347	12.183	-25.098	-44.537	1.00	30.81	H
ATOM	2318	HE2	LYS	A 347	10.906	-25.942	-43.628	1.00	30.81	H
ATOM	2319	N	VAL	A 348	10.462	-25.542	-37.932	1.00	30.74	N
ATOM	2320	CA	VAL	A 348	11.216	-25.325	-36.672	1.00	30.45	C
ATOM	2321	C	VAL	A 348	12.532	-26.126	-36.629	1.00	30.37	C
ATOM	2322	O	VAL	A 348	12.715	-27.076	-37.387	1.00	30.60	O
ATOM	2323	CB	VAL	A 348	10.369	-25.668	-35.427	1.00	30.60	C
ATOM	2324	CG1	VAL	A 348	9.206	-24.701	-35.198	1.00	30.99	C
ATOM	2325	CG2	VAL	A 348	9.812	-27.091	-35.479	1.00	30.67	C
ATOM	2326	HN	VAL	A 348	10.440	-26.496	-38.302	1.00	0.00	H
ATOM	2327	HA	VAL	A 348	11.471	-24.267	-36.617	1.00	30.63	H
ATOM	2328	HB	VAL	A 348	11.024	-25.604	-34.558	1.00	30.63	H
ATOM	2329	1HG1	VAL	A 348	8.653	-25.001	-34.308	1.00	30.63	H
ATOM	2330	2HG1	VAL	A 348	8.541	-24.721	-36.061	1.00	30.63	H
ATOM	2331	3HG1	VAL	A 348	9.594	-23.691	-35.062	1.00	30.63	H

ATOM	2332	1HG2 VAL A 348	9.224	-27.285	-34.582	1.00	30.63	H
ATOM	2333	2HG2 VAL A 348	10.636	-27.803	-35.533	1.00	30.63	H
ATOM	2334	3HG2 VAL A 348	9.179	-27.202	-36.359	1.00	30.63	H
ATOM	2335	N MET A 349	13.474	-25.744	-35.756	1.00	30.05	N
ATOM	2336	CA MET A 349	14.831	-26.317	-35.709	1.00	29.89	C
ATOM	2337	C MET A 349	15.505	-26.168	-34.324	1.00	29.58	C
ATOM	2338	O MET A 349	15.299	-25.136	-33.682	1.00	29.38	O
ATOM	2339	CB MET A 349	15.657	-25.606	-36.795	1.00	29.75	C
ATOM	2340	CG MET A 349	16.999	-26.261	-37.103	1.00	29.69	C
ATOM	2341	SD MET A 349	18.024	-25.355	-38.282	1.00	29.34	S
ATOM	2342	CE MET A 349	18.574	-23.966	-37.256	1.00	28.98	C
ATOM	2343	HN MET A 349	13.302	-24.907	-35.207	1.00	0.00	H
ATOM	2344	HB1 MET A 349	15.092	-25.600	-37.726	1.00	0.00	H
ATOM	2345	HB2 MET A 349	15.822	-24.574	-36.491	1.00	0.00	H
ATOM	2346	HA MET A 349	14.771	-27.377	-35.955	1.00	29.58	H
ATOM	2347	HG1 MET A 349	17.555	-26.353	-36.170	1.00	29.58	H
ATOM	2348	HG2 MET A 349	16.807	-27.253	-37.511	1.00	29.58	H
ATOM	2349	HE1 MET A 349	19.219	-23.312	-37.844	1.00	29.58	H
ATOM	2350	HE2 MET A 349	19.128	-24.345	-36.397	1.00	29.58	H
ATOM	2351	HE3 MET A 349	17.707	-23.404	-36.909	1.00	29.58	H
ATOM	2352	N PRO A 350	16.368	-27.107	-33.871	1.00	29.54	N
ATOM	2353	CA PRO A 350	17.294	-26.876	-32.750	1.00	29.23	C
ATOM	2354	C PRO A 350	18.264	-25.722	-33.044	1.00	28.89	C
ATOM	2355	O PRO A 350	18.670	-25.519	-34.188	1.00	28.87	O
ATOM	2356	CB PRO A 350	18.069	-28.187	-32.573	1.00	29.24	C
ATOM	2357	CG PRO A 350	18.061	-28.772	-33.984	1.00	29.53	C
ATOM	2358	CD PRO A 350	16.663	-28.402	-34.472	1.00	29.80	C



ATOM	2359	HA	PRO A 350	16.728	-26.659	-31.844	1.00	29.30	H
ATOM	2360	HB1	PRO A 350	19.087	-27.999	-32.231	1.00	29.30	H
ATOM	2361	HB2	PRO A 350	17.565	-28.850	-31.870	1.00	29.30	H
ATOM	2362	HG1	PRO A 350	18.831	-28.316	-34.606	1.00	29.30	H
ATOM	2363	HG2	PRO A 350	18.201	-29.853	-33.965	1.00	29.30	H
ATOM	2364	HD1	PRO A 350	16.647	-28.329	-35.559	1.00	29.30	H
ATOM	2365	HD2	PRO A 350	15.937	-29.147	-34.146	1.00	29.30	H
ATOM	2366	N	TYR A 351	18.590	-24.917	-32.030	1.00	28.63	N
ATOM	2367	CA	TYR A 351	19.341	-23.674	-32.232	1.00	28.32	C
ATOM	2368	C	TYR A 351	20.016	-23.186	-30.940	1.00	28.05	C
ATOM	2369	O	TYR A 351	19.713	-22.114	-30.418	1.00	27.95	O
ATOM	2370	CB	TYR A 351	18.403	-22.623	-32.867	1.00	28.34	C
ATOM	2371	CG	TYR A 351	19.048	-21.560	-33.742	1.00	28.15	C
ATOM	2372	CD1	TYR A 351	18.568	-20.241	-33.675	1.00	28.01	C
ATOM	2373	CD2	TYR A 351	19.979	-21.910	-34.744	1.00	28.14	C
ATOM	2374	CE1	TYR A 351	18.960	-19.297	-34.639	1.00	27.86	C
ATOM	2375	CE2	TYR A 351	20.447	-20.939	-35.652	1.00	27.98	C
ATOM	2376	CZ	TYR A 351	19.924	-19.630	-35.609	1.00	27.84	C
ATOM	2377	OH	TYR A 351	20.328	-18.683	-36.496	1.00	27.70	O
ATOM	2378	HN	TYR A 351	18.203	-25.107	-31.110	1.00	0.00	H
ATOM	2379	HH	TYR A 351	19.667	-17.995	-36.600	1.00	0.00	H
ATOM	2380	HA	TYR A 351	20.131	-23.884	-32.953	1.00	28.08	H
ATOM	2381	HB1	TYR A 351	17.678	-23.158	-33.480	1.00	28.08	H
ATOM	2382	HB2	TYR A 351	17.886	-22.111	-32.055	1.00	28.08	H
ATOM	2383	HD1	TYR A 351	17.890	-19.949	-32.873	1.00	28.08	H
ATOM	2384	HD2	TYR A 351	20.338	-22.937	-34.816	1.00	28.08	H
ATOM	2385	HE1	TYR A 351	18.515	-18.302	-34.636	1.00	28.08	H

ATOM	2386	HE2 TYR A 351	21.211	-21.199	-36.385	1.00	28.08	H
ATOM	2387	N GLY A 352	20.890	-24.009	-30.358	1.00	61.59	N
ATOM	2388	CA GLY A 352	21.552	-23.673	-29.096	1.00	61.31	C
ATOM	2389	C GLY A 352	22.239	-24.860	-28.425	1.00	61.32	C
ATOM	2390	O GLY A 352	21.687	-25.952	-28.479	1.00	61.57	O
ATOM	2391	HN GLY A 352	21.040	-24.929	-30.753	1.00	0.00	H
ATOM	2392	HA1 GLY A 352	22.303	-22.909	-29.295	1.00	61.45	H
ATOM	2393	HA2 GLY A 352	20.803	-23.277	-28.410	1.00	61.45	H
ATOM	2394	N PRO A 353	23.405	-24.702	-27.775	1.00	27.41	N
ATOM	2395	CA PRO A 353	24.228	-25.843	-27.368	1.00	27.40	C
ATOM	2396	C PRO A 353	23.640	-26.672	-26.211	1.00	27.59	C
ATOM	2397	O PRO A 353	23.677	-27.905	-26.267	1.00	27.81	O
ATOM	2398	CB PRO A 353	25.579	-25.225	-26.999	1.00	27.05	C
ATOM	2399	CG PRO A 353	25.225	-23.812	-26.536	1.00	26.92	C
ATOM	2400	CD PRO A 353	24.061	-23.444	-27.456	1.00	27.12	C
ATOM	2401	HA PRO A 353	24.367	-26.497	-28.229	1.00	27.33	H
ATOM	2402	HB1 PRO A 353	26.056	-25.787	-26.196	1.00	27.33	H
ATOM	2403	HB2 PRO A 353	26.240	-25.195	-27.865	1.00	27.33	H
ATOM	2404	HG1 PRO A 353	24.918	-23.806	-25.490	1.00	27.33	H
ATOM	2405	HG2 PRO A 353	26.065	-23.131	-26.672	1.00	27.33	H
ATOM	2406	HD1 PRO A 353	23.370	-22.773	-26.946	1.00	27.33	H
ATOM	2407	HD2 PRO A 353	24.429	-22.966	-28.364	1.00	27.33	H
ATOM	2408	N SER A 354	23.019	-26.020	-25.222	1.00	27.51	N
ATOM	2409	CA SER A 354	22.569	-26.648	-23.974	1.00	27.64	C
ATOM	2410	C SER A 354	21.151	-26.224	-23.567	1.00	27.79	C
ATOM	2411	O SER A 354	20.751	-25.060	-23.686	1.00	27.72	O
ATOM	2412	CB SER A 354	23.597	-26.414	-22.855	1.00	27.36	C

ATOM	2413	OG	SER A 354	23.932	-25.055	-22.653	1.00	27.06	O
ATOM	2414	HN	SER A 354	23.007	-25.012	-25.237	1.00	0.00	H
ATOM	2415	HG	SER A 354	24.684	-25.048	-22.043	1.00	0.00	H
ATOM	2416	HA	SER A 354	22.538	-27.722	-24.155	1.00	27.51	H
ATOM	2417	HB1	SER A 354	23.186	-26.807	-21.925	1.00	27.51	H
ATOM	2418	HB2	SER A 354	24.508	-26.957	-23.108	1.00	27.51	H
ATOM	2419	N	GLY A 355	20.356	-27.239	-23.227	1.00	28.03	N
ATOM	2420	CA	GLY A 355	18.976	-27.155	-22.758	1.00	28.21	C
ATOM	2421	C	GLY A 355	18.775	-27.849	-21.408	1.00	28.15	C
ATOM	2422	O	GLY A 355	19.743	-28.164	-20.716	1.00	27.85	O
ATOM	2423	HN	GLY A 355	20.767	-28.166	-23.214	1.00	0.00	H
ATOM	2424	HA1	GLY A 355	18.705	-26.104	-22.655	1.00	28.06	H
ATOM	2425	HA2	GLY A 355	18.327	-27.628	-23.495	1.00	28.06	H
ATOM	2426	N	ILE A 356	17.518	-28.117	-21.034	1.00	28.45	N
ATOM	2427	CA	ILE A 356	17.182	-28.738	-19.741	1.00	28.46	C
ATOM	2428	C	ILE A 356	16.191	-29.893	-19.859	1.00	28.89	C
ATOM	2429	O	ILE A 356	15.198	-29.823	-20.574	1.00	29.19	O
ATOM	2430	CB	ILE A 356	16.704	-27.705	-18.693	1.00	28.26	C
ATOM	2431	CG1	ILE A 356	15.406	-26.972	-19.102	1.00	28.43	C
ATOM	2432	CG2	ILE A 356	17.847	-26.733	-18.368	1.00	27.82	C
ATOM	2433	CD1	ILE A 356	14.821	-26.095	-17.991	1.00	28.26	C
ATOM	2434	HN	ILE A 356	16.773	-27.945	-21.701	1.00	0.00	H
ATOM	2435	HA	ILE A 356	18.108	-29.164	-19.354	1.00	28.47	H
ATOM	2436	HB	ILE A 356	16.484	-28.256	-17.779	1.00	28.47	H
ATOM	2437	1HG1	ILE A 356	15.624	-26.339	-19.962	1.00	28.47	H
ATOM	2438	2HG1	ILE A 356	14.662	-27.718	-19.380	1.00	28.47	H
ATOM	2439	1HG2	ILE A 356	17.508	-26.006	-17.630	1.00	28.47	H

ATOM	2440	2HG2 ILE A 356	18.151	-26.212	-19.276	1.00	28.47	H
ATOM	2441	3HG2 ILE A 356	18.695	-27.289	-17.967	1.00	28.47	H
ATOM	2442	1HD1 ILE A 356	13.912	-25.612	-18.349	1.00	28.47	H
ATOM	2443	2HD1 ILE A 356	15.548	-25.334	-17.707	1.00	28.47	H
ATOM	2444	3HD1 ILE A 356	14.586	-26.714	-17.125	1.00	28.47	H
ATOM	2445	N LYS A 357	16.353	-30.862	-18.959	1.00	42.34	N
ATOM	2446	CA LYS A 357	15.305	-31.792	-18.525	1.00	42.77	C
ATOM	2447	C LYS A 357	14.466	-31.186	-17.398	1.00	42.88	C
ATOM	2448	O LYS A 357	15.002	-30.493	-16.528	1.00	42.60	O
ATOM	2449	CB LYS A 357	15.896	-33.169	-18.159	1.00	42.82	C
ATOM	2450	CG LYS A 357	16.745	-33.253	-16.876	1.00	42.57	C
ATOM	2451	CD LYS A 357	18.001	-32.366	-16.897	1.00	42.06	C
ATOM	2452	CE LYS A 357	19.039	-32.862	-15.886	1.00	41.78	C
ATOM	2453	NZ LYS A 357	20.409	-32.719	-16.420	1.00	41.37	N1+
ATOM	2454	HN LYS A 357	17.180	-30.804	-18.389	1.00	0.00	H
ATOM	2455	HZ1 LYS A 357	21.110	-32.990	-15.734	1.00	0.00	H
ATOM	2456	HZ2 LYS A 357	20.655	-31.760	-16.687	1.00	0.00	H
ATOM	2457	HZ3 LYS A 357	20.513	-33.277	-17.262	1.00	0.00	H
ATOM	2458	HA LYS A 357	14.639	-31.944	-19.374	1.00	42.35	H
ATOM	2459	HB1 LYS A 357	15.063	-33.864	-18.047	1.00	42.35	H
ATOM	2460	HB2 LYS A 357	16.526	-33.487	-18.990	1.00	42.35	H
ATOM	2461	HG1 LYS A 357	16.124	-32.948	-16.034	1.00	42.35	H
ATOM	2462	HG2 LYS A 357	17.059	-34.288	-16.740	1.00	42.35	H
ATOM	2463	HD1 LYS A 357	18.437	-32.389	-17.896	1.00	42.35	H
ATOM	2464	HD2 LYS A 357	17.719	-31.343	-16.646	1.00	42.35	H
ATOM	2465	HE1 LYS A 357	18.951	-32.278	-14.970	1.00	42.35	H
ATOM	2466	HE2 LYS A 357	18.850	-33.913	-15.668	1.00	42.35	H

ATOM	2467	N	GLN A 358	13.197	-31.573	-17.347	1.00	29.91	N
ATOM	2468	CA	GLN A 358	12.217	-31.262	-16.303	1.00	30.11	C
ATOM	2469	C	GLN A 358	11.470	-32.549	-15.928	1.00	30.55	C
ATOM	2470	O	GLN A 358	10.349	-32.794	-16.373	1.00	30.95	O
ATOM	2471	CB	GLN A 358	11.275	-30.135	-16.765	1.00	30.25	C
ATOM	2472	CG	GLN A 358	12.010	-28.797	-16.962	1.00	29.87	C
ATOM	2473	CD	GLN A 358	11.070	-27.595	-17.027	1.00	30.05	C
ATOM	2474	OE1	GLN A 358	9.859	-27.693	-17.077	1.00	30.45	O
ATOM	2475	NE2	GLN A 358	11.590	-26.390	-16.974	1.00	29.77	N
ATOM	2476	HN	GLN A 358	12.863	-32.132	-18.128	1.00	0.00	H
ATOM	2477	1HE2	GLN A 358	12.582	-26.256	-16.929	1.00	0.00	H
ATOM	2478	2HE2	GLN A 358	10.924	-25.639	-17.010	1.00	0.00	H
ATOM	2479	HA	GLN A 358	12.757	-30.914	-15.423	1.00	30.21	H
ATOM	2480	HB1	GLN A 358	10.819	-30.426	-17.711	1.00	30.21	H
ATOM	2481	HB2	GLN A 358	10.497	-29.999	-16.013	1.00	30.21	H
ATOM	2482	HG1	GLN A 358	12.697	-28.654	-16.128	1.00	30.21	H
ATOM	2483	HG2	GLN A 358	12.574	-28.846	-17.894	1.00	30.21	H
ATOM	2484	N	GLY A 359	12.221	-33.489	-15.345	1.00	30.49	N
ATOM	2485	CA	GLY A 359	11.855	-34.906	-15.367	1.00	30.89	C
ATOM	2486	C	GLY A 359	11.900	-35.470	-16.789	1.00	31.08	C
ATOM	2487	O	GLY A 359	12.805	-35.150	-17.557	1.00	30.84	O
ATOM	2488	HN	GLY A 359	13.179	-33.262	-15.148	1.00	0.00	H
ATOM	2489	HA1	GLY A 359	12.553	-35.463	-14.742	1.00	30.83	H
ATOM	2490	HA2	GLY A 359	10.845	-35.018	-14.973	1.00	30.83	H
ATOM	2491	N	ASP A 360	10.856	-36.211	-17.148	1.00	31.53	N
ATOM	2492	CA	ASP A 360	10.718	-36.949	-18.411	1.00	31.77	C
ATOM	2493	C	ASP A 360	10.544	-36.056	-19.668	1.00	31.71	C

ATOM	2494	O	ASP A 360	10.648	-36.532	-20.800	1.00	32.07	O
ATOM	2495	CB	ASP A 360	9.501	-37.875	-18.246	1.00	32.39	C
ATOM	2496	CG	ASP A 360	9.617	-39.194	-19.004	1.00	32.55	C
ATOM	2497	OD1	ASP A 360	10.722	-39.772	-19.039	1.00	32.33	O
ATOM	2498	OD2	ASP A 360	8.542	-39.696	-19.402	1.00	32.94	O
ATOM	2499	HN	ASP A 360	10.151	-36.390	-16.452	1.00	0.00	H
ATOM	2500	HA	ASP A 360	11.605	-37.567	-18.548	1.00	32.16	H
ATOM	2501	HB1	ASP A 360	9.382	-38.099	-17.186	1.00	32.16	H
ATOM	2502	HB2	ASP A 360	8.618	-37.348	-18.608	1.00	32.16	H
ATOM	2503	N	THR A 361	10.279	-34.751	-19.498	1.00	31.27	N
ATOM	2504	CA	THR A 361	10.316	-33.761	-20.586	1.00	31.23	C
ATOM	2505	C	THR A 361	11.706	-33.151	-20.735	1.00	30.74	C
ATOM	2506	O	THR A 361	12.170	-32.457	-19.830	1.00	30.38	O
ATOM	2507	CB	THR A 361	9.261	-32.660	-20.393	1.00	31.43	C
ATOM	2508	OG1	THR A 361	7.967	-33.191	-20.554	1.00	31.83	O
ATOM	2509	CG2	THR A 361	9.338	-31.580	-21.477	1.00	31.61	C
ATOM	2510	HN	THR A 361	10.264	-34.400	-18.550	1.00	0.00	H
ATOM	2511	HG1	THR A 361	7.968	-34.122	-20.262	1.00	0.00	H
ATOM	2512	HA	THR A 361	10.083	-34.282	-21.515	1.00	31.21	H
ATOM	2513	HB	THR A 361	9.363	-32.210	-19.405	1.00	31.21	H
ATOM	2514	1HG2	THR A 361	8.572	-30.826	-21.295	1.00	31.21	H
ATOM	2515	2HG2	THR A 361	9.175	-32.034	-22.455	1.00	31.21	H
ATOM	2516	3HG2	THR A 361	10.322	-31.111	-21.454	1.00	31.21	H
ATOM	2517	N	LEU A 362	12.286	-33.229	-21.937	1.00	30.73	N
ATOM	2518	CA	LEU A 362	13.448	-32.433	-22.352	1.00	30.30	C
ATOM	2519	C	LEU A 362	12.988	-31.128	-23.028	1.00	30.21	C
ATOM	2520	O	LEU A 362	11.986	-31.129	-23.744	1.00	30.52	O

ATOM	2521	CB	LEU A 362	14.363	-33.254	-23.286	1.00	30.34	C
ATOM	2522	CG	LEU A 362	14.598	-34.727	-22.893	1.00	30.50	C
ATOM	2523	CD1	LEU A 362	15.581	-35.351	-23.882	1.00	30.55	C
ATOM	2524	CD2	LEU A 362	15.179	-34.896	-21.489	1.00	30.16	C
ATOM	2525	HN	LEU A 362	11.832	-33.794	-22.648	1.00	0.00	H
ATOM	2526	HA	LEU A 362	14.018	-32.172	-21.460	1.00	30.41	H
ATOM	2527	HB1	LEU A 362	13.917	-33.243	-24.281	1.00	30.41	H
ATOM	2528	HB2	LEU A 362	15.334	-32.760	-23.317	1.00	30.41	H
ATOM	2529	HG	LEU A 362	13.651	-35.263	-22.950	1.00	30.41	H
ATOM	2530	1HD1	LEU A 362	15.755	-36.393	-23.614	1.00	30.41	H
ATOM	2531	2HD1	LEU A 362	16.524	-34.806	-23.850	1.00	30.41	H
ATOM	2532	3HD1	LEU A 362	15.166	-35.300	-24.889	1.00	30.41	H
ATOM	2533	1HD2	LEU A 362	15.319	-35.956	-21.278	1.00	30.41	H
ATOM	2534	2HD2	LEU A 362	14.493	-34.468	-20.758	1.00	30.41	H
ATOM	2535	3HD2	LEU A 362	16.140	-34.384	-21.429	1.00	30.41	H
ATOM	2536	N	TYR A 363	13.800	-30.073	-22.943	1.00	29.80	N
ATOM	2537	CA	TYR A 363	13.611	-28.778	-23.601	1.00	29.69	C
ATOM	2538	C	TYR A 363	14.925	-28.317	-24.240	1.00	29.35	C
ATOM	2539	O	TYR A 363	15.799	-27.756	-23.572	1.00	29.03	O
ATOM	2540	CB	TYR A 363	13.137	-27.738	-22.580	1.00	29.57	C
ATOM	2541	CG	TYR A 363	11.701	-27.871	-22.127	1.00	29.95	C
ATOM	2542	CD1	TYR A 363	10.684	-27.299	-22.913	1.00	30.19	C
ATOM	2543	CD2	TYR A 363	11.393	-28.466	-20.889	1.00	30.09	C
ATOM	2544	CE1	TYR A 363	9.363	-27.265	-22.439	1.00	30.57	C
ATOM	2545	CE2	TYR A 363	10.066	-28.449	-20.419	1.00	30.48	C
ATOM	2546	CZ	TYR A 363	9.057	-27.832	-21.187	1.00	30.72	C
ATOM	2547	OH	TYR A 363	7.783	-27.790	-20.732	1.00	31.13	O

ATOM	2548	HN	TYR	A 363	14.566	-30.126	-22.281	1.00	0.00	H
ATOM	2549	HH	TYR	A 363	7.313	-27.014	-21.130	1.00	0.00	H
ATOM	2550	HA	TYR	A 363	12.855	-28.882	-24.379	1.00	30.05	H
ATOM	2551	HB1	TYR	A 363	13.775	-27.818	-21.700	1.00	30.05	H
ATOM	2552	HB2	TYR	A 363	13.257	-26.751	-23.027	1.00	30.05	H
ATOM	2553	HD1	TYR	A 363	10.922	-26.882	-23.891	1.00	30.05	H
ATOM	2554	HD2	TYR	A 363	12.178	-28.937	-20.297	1.00	30.05	H
ATOM	2555	HE1	TYR	A 363	8.578	-26.802	-23.037	1.00	30.05	H
ATOM	2556	HE2	TYR	A 363	9.819	-28.912	-19.464	1.00	30.05	H
ATOM	2557	N	PHE	A 364	15.043	-28.501	-25.554	1.00	29.44	N
ATOM	2558	CA	PHE	A 364	16.165	-28.004	-26.352	1.00	29.16	C
ATOM	2559	C	PHE	A 364	15.931	-26.532	-26.752	1.00	29.02	C
ATOM	2560	O	PHE	A 364	14.851	-26.237	-27.270	1.00	29.22	O
ATOM	2561	CB	PHE	A 364	16.309	-28.888	-27.601	1.00	29.37	C
ATOM	2562	CG	PHE	A 364	16.519	-30.364	-27.308	1.00	29.56	C
ATOM	2563	CD1	PHE	A 364	17.792	-30.828	-26.930	1.00	29.38	C
ATOM	2564	CD2	PHE	A 364	15.443	-31.271	-27.392	1.00	29.95	C
ATOM	2565	CE1	PHE	A 364	17.994	-32.190	-26.644	1.00	29.58	C
ATOM	2566	CE2	PHE	A 364	15.644	-32.634	-27.104	1.00	30.15	C
ATOM	2567	CZ	PHE	A 364	16.919	-33.092	-26.729	1.00	29.96	C
ATOM	2568	HN	PHE	A 364	14.272	-28.939	-26.049	1.00	0.00	H
ATOM	2569	HA	PHE	A 364	17.079	-28.071	-25.761	1.00	29.53	H
ATOM	2570	HB1	PHE	A 364	15.402	-28.785	-28.197	1.00	29.53	H
ATOM	2571	HB2	PHE	A 364	17.164	-28.530	-28.175	1.00	29.53	H
ATOM	2572	HD1	PHE	A 364	18.625	-30.129	-26.858	1.00	29.53	H
ATOM	2573	HD2	PHE	A 364	14.454	-30.916	-27.681	1.00	29.53	H
ATOM	2574	HE1	PHE	A 364	18.983	-32.546	-26.357	1.00	29.53	H



ATOM	2575	HE2 PHE A 364	14.811	-33.334	-27.172	1.00	29.53	H
ATOM	2576	HZ PHE A 364	17.074	-34.147	-26.504	1.00	29.53	H
ATOM	2577	N PRO A 365	16.905	-25.607	-26.630	1.00	28.68	N
ATOM	2578	CA PRO A 365	16.816	-24.278	-27.247	1.00	28.60	C
ATOM	2579	C PRO A 365	16.688	-24.370	-28.776	1.00	28.76	C
ATOM	2580	O PRO A 365	17.375	-25.156	-29.433	1.00	28.80	O
ATOM	2581	CB PRO A 365	18.091	-23.538	-26.831	1.00	28.21	C
ATOM	2582	CG PRO A 365	19.075	-24.682	-26.613	1.00	28.10	C
ATOM	2583	CD PRO A 365	18.198	-25.757	-25.981	1.00	28.38	C
ATOM	2584	HA PRO A 365	15.949	-23.753	-26.845	1.00	28.50	H
ATOM	2585	HB1 PRO A 365	18.433	-22.868	-27.620	1.00	28.50	H
ATOM	2586	HB2 PRO A 365	17.936	-22.971	-25.913	1.00	28.50	H
ATOM	2587	HG1 PRO A 365	19.497	-25.024	-27.558	1.00	28.50	H
ATOM	2588	HG2 PRO A 365	19.880	-24.386	-25.941	1.00	28.50	H
ATOM	2589	HD1 PRO A 365	18.610	-26.749	-26.169	1.00	28.50	H
ATOM	2590	HD2 PRO A 365	18.109	-25.598	-24.906	1.00	28.50	H
ATOM	2591	N ALA A 366	15.809	-23.551	-29.351	1.00	28.87	N
ATOM	2592	CA ALA A 366	15.298	-23.750	-30.705	1.00	29.07	C
ATOM	2593	C ALA A 366	14.928	-22.440	-31.419	1.00	29.01	C
ATOM	2594	O ALA A 366	14.850	-21.373	-30.809	1.00	28.83	O
ATOM	2595	CB ALA A 366	14.084	-24.678	-30.594	1.00	29.47	C
ATOM	2596	HN ALA A 366	15.276	-22.924	-28.756	1.00	0.00	H
ATOM	2597	HA ALA A 366	16.065	-24.256	-31.291	1.00	29.05	H
ATOM	2598	HB1 ALA A 366	13.669	-24.854	-31.586	1.00	29.05	H
ATOM	2599	HB2 ALA A 366	13.327	-24.213	-29.962	1.00	29.05	H
ATOM	2600	HB3 ALA A 366	14.391	-25.627	-30.155	1.00	29.05	H
ATOM	2601	N VAL A 367	14.563	-22.559	-32.698	1.00	29.17	N

ATOM	2602	CA	VAL A 367	14.020	-21.481	-33.529	1.00	29.11	C
ATOM	2603	C	VAL A 367	12.843	-21.965	-34.376	1.00	29.41	C
ATOM	2604	O	VAL A 367	12.872	-23.062	-34.933	1.00	29.61	O
ATOM	2605	CB	VAL A 367	15.137	-20.835	-34.372	1.00	28.84	C
ATOM	2606	CG1	VAL A 367	15.714	-21.752	-35.456	1.00	28.96	C
ATOM	2607	CG2	VAL A 367	14.710	-19.527	-35.043	1.00	28.75	C
ATOM	2608	HN	VAL A 367	14.650	-23.477	-33.127	1.00	0.00	H
ATOM	2609	HA	VAL A 367	13.639	-20.714	-32.855	1.00	29.12	H
ATOM	2610	HB	VAL A 367	15.953	-20.593	-33.690	1.00	29.12	H
ATOM	2611	1HG1	VAL A 367	16.494	-21.222	-36.003	1.00	29.12	H
ATOM	2612	2HG1	VAL A 367	14.922	-22.044	-36.145	1.00	29.12	H
ATOM	2613	3HG1	VAL A 367	16.138	-22.642	-34.992	1.00	29.12	H
ATOM	2614	1HG2	VAL A 367	15.543	-19.125	-35.620	1.00	29.12	H
ATOM	2615	2HG2	VAL A 367	14.416	-18.806	-34.280	1.00	29.12	H
ATOM	2616	3HG2	VAL A 367	13.867	-19.717	-35.707	1.00	29.12	H
ATOM	2617	N	GLY A 368	11.819	-21.123	-34.498	1.00	29.46	N
ATOM	2618	CA	GLY A 368	10.718	-21.270	-35.444	1.00	29.75	C
ATOM	2619	C	GLY A 368	10.811	-20.262	-36.583	1.00	29.61	C
ATOM	2620	O	GLY A 368	11.202	-19.110	-36.382	1.00	29.36	O
ATOM	2621	HN	GLY A 368	11.868	-20.253	-33.980	1.00	0.00	H
ATOM	2622	HA1	GLY A 368	10.744	-22.277	-35.861	1.00	29.55	H
ATOM	2623	HA2	GLY A 368	9.777	-21.119	-34.916	1.00	29.55	H
ATOM	2624	N	PHE A 369	10.417	-20.698	-37.778	1.00	29.79	N
ATOM	2625	CA	PHE A 369	10.414	-19.909	-39.006	1.00	29.68	C
ATOM	2626	C	PHE A 369	8.964	-19.639	-39.428	1.00	29.92	C
ATOM	2627	O	PHE A 369	8.154	-20.566	-39.540	1.00	30.18	O
ATOM	2628	CB	PHE A 369	11.165	-20.655	-40.116	1.00	29.68	C

ATOM	2629	CG	PHE A 369	12.571	-21.156	-39.802	1.00	29.51	C
ATOM	2630	CD1	PHE A 369	13.682	-20.589	-40.451	1.00	29.32	C
ATOM	2631	CD2	PHE A 369	12.778	-22.253	-38.942	1.00	29.56	C
ATOM	2632	CE1	PHE A 369	14.973	-21.115	-40.256	1.00	29.18	C
ATOM	2633	CE2	PHE A 369	14.065	-22.768	-38.732	1.00	29.41	C
ATOM	2634	CZ	PHE A 369	15.166	-22.208	-39.396	1.00	29.23	C
ATOM	2635	HN	PHE A 369	10.095	-21.659	-37.854	1.00	0.00	H
ATOM	2636	HA	PHE A 369	10.912	-18.958	-38.818	1.00	29.59	H
ATOM	2637	HB1	PHE A 369	10.564	-21.522	-40.391	1.00	29.59	H
ATOM	2638	HB2	PHE A 369	11.242	-19.980	-40.968	1.00	29.59	H
ATOM	2639	HD1	PHE A 369	13.542	-19.733	-41.112	1.00	29.59	H
ATOM	2640	HD2	PHE A 369	11.927	-22.707	-38.434	1.00	29.59	H
ATOM	2641	HE1	PHE A 369	15.824	-20.673	-40.774	1.00	29.59	H
ATOM	2642	HE2	PHE A 369	14.210	-23.606	-38.051	1.00	29.59	H
ATOM	2643	HZ	PHE A 369	16.165	-22.618	-39.246	1.00	29.59	H
ATOM	2644	N	LEU A 370	8.610	-18.370	-39.630	1.00	29.85	N
ATOM	2645	CA	LEU A 370	7.235	-17.944	-39.910	1.00	30.06	C
ATOM	2646	C	LEU A 370	7.226	-16.895	-41.035	1.00	29.90	C
ATOM	2647	O	LEU A 370	7.999	-15.938	-40.952	1.00	29.61	O
ATOM	2648	CB	LEU A 370	6.611	-17.465	-38.586	1.00	30.07	C
ATOM	2649	CG	LEU A 370	5.220	-16.811	-38.688	1.00	30.32	C
ATOM	2650	CD1	LEU A 370	4.343	-17.228	-37.506	1.00	30.46	C
ATOM	2651	CD2	LEU A 370	5.334	-15.287	-38.657	1.00	30.17	C
ATOM	2652	HN	LEU A 370	9.313	-17.648	-39.493	1.00	0.00	H
ATOM	2653	HA	LEU A 370	6.674	-18.813	-40.253	1.00	30.05	H
ATOM	2654	HB1	LEU A 370	6.525	-18.329	-37.927	1.00	30.06	H
ATOM	2655	HB2	LEU A 370	7.290	-16.736	-38.143	1.00	30.06	H

ATOM	2656	HG	LEU	A	370	4.743	-17.119	-39.618	1.00	30.05	H
ATOM	2657	1HD1	LEU	A	370	3.364	-16.756	-37.595	1.00	30.05	H
ATOM	2658	2HD1	LEU	A	370	4.814	-16.913	-36.575	1.00	30.05	H
ATOM	2659	3HD1	LEU	A	370	4.225	-18.312	-37.505	1.00	30.05	H
ATOM	2660	1HD2	LEU	A	370	4.340	-14.846	-38.730	1.00	30.05	H
ATOM	2661	2HD2	LEU	A	370	5.943	-14.951	-39.496	1.00	30.05	H
ATOM	2662	3HD2	LEU	A	370	5.801	-14.976	-37.722	1.00	30.05	H
ATOM	2663	N	PRO	A	371	6.494	-17.104	-42.148	1.00	30.08	N
ATOM	2664	CA	PRO	A	371	6.512	-16.161	-43.261	1.00	29.90	C
ATOM	2665	C	PRO	A	371	6.012	-14.780	-42.818	1.00	29.87	C
ATOM	2666	O	PRO	A	371	5.013	-14.667	-42.110	1.00	30.10	O
ATOM	2667	CB	PRO	A	371	5.670	-16.776	-44.382	1.00	30.11	C
ATOM	2668	CG	PRO	A	371	4.951	-17.976	-43.764	1.00	30.46	C
ATOM	2669	CD	PRO	A	371	5.685	-18.272	-42.457	1.00	30.45	C
ATOM	2670	HA	PRO	A	371	7.538	-16.061	-43.614	1.00	30.14	H
ATOM	2671	HB1	PRO	A	371	4.945	-16.051	-44.752	1.00	30.14	H
ATOM	2672	HB2	PRO	A	371	6.311	-17.100	-45.202	1.00	30.14	H
ATOM	2673	HG1	PRO	A	371	3.907	-17.733	-43.566	1.00	30.14	H
ATOM	2674	HG2	PRO	A	371	5.004	-18.836	-44.432	1.00	30.14	H
ATOM	2675	HD1	PRO	A	371	4.967	-18.452	-41.657	1.00	30.14	H
ATOM	2676	HD2	PRO	A	371	6.323	-19.148	-42.576	1.00	30.14	H
ATOM	2677	N	ARG	A	372	6.701	-13.705	-43.220	1.00	39.74	N
ATOM	2678	CA	ARG	A	372	6.431	-12.338	-42.733	1.00	39.73	C
ATOM	2679	C	ARG	A	372	5.151	-11.691	-43.288	1.00	39.94	C
ATOM	2680	O	ARG	A	372	4.867	-10.549	-42.948	1.00	40.06	O
ATOM	2681	CB	ARG	A	372	7.687	-11.449	-42.828	1.00	39.44	C
ATOM	2682	CG	ARG	A	372	8.079	-10.972	-44.232	1.00	39.24	C

ATOM	2683	CD	ARG A 372	9.132	-9.846	-44.200	1.00	39.00	C
ATOM	2684	NE	ARG A 372	10.407	-10.198	-43.526	1.00	38.78	N
ATOM	2685	CZ	ARG A 372	10.953	-9.577	-42.488	1.00	38.60	C
ATOM	2686	NH1	ARG A 372	10.243	-8.821	-41.698	1.00	38.61	N
ATOM	2687	NH2	ARG A 372	12.215	-9.714	-42.203	1.00	38.43	N
ATOM	2688	HN	ARG A 372	7.532	-13.866	-43.783	1.00	0.00	H
ATOM	2689	HE	ARG A 372	11.009	-10.840	-44.030	1.00	0.00	H
ATOM	2690	1HH1	ARG A 372	9.255	-8.798	-41.836	1.00	0.00	H
ATOM	2691	2HH1	ARG A 372	10.639	-8.449	-40.840	1.00	0.00	H
ATOM	2692	1HH2	ARG A 372	12.810	-10.224	-42.849	1.00	0.00	H
ATOM	2693	2HH2	ARG A 372	12.662	-9.093	-41.538	1.00	0.00	H
ATOM	2694	HA	ARG A 372	6.248	-12.452	-41.665	1.00	39.23	H
ATOM	2695	HB1	ARG A 372	7.515	-10.565	-42.213	1.00	39.23	H
ATOM	2696	HB2	ARG A 372	8.526	-12.016	-42.424	1.00	39.23	H
ATOM	2697	HG1	ARG A 372	8.487	-11.817	-44.787	1.00	39.23	H
ATOM	2698	HG2	ARG A 372	7.187	-10.602	-44.737	1.00	39.23	H
ATOM	2699	HD1	ARG A 372	9.359	-9.567	-45.229	1.00	39.23	H
ATOM	2700	HD2	ARG A 372	8.698	-8.993	-43.679	1.00	39.23	H
ATOM	2701	N	THR A 373	4.352	-12.439	-44.049	1.00	29.86	N
ATOM	2702	CA	THR A 373	2.921	-12.186	-44.301	1.00	30.10	C
ATOM	2703	C	THR A 373	2.055	-12.459	-43.066	1.00	30.40	C
ATOM	2704	O	THR A 373	1.123	-11.712	-42.791	1.00	30.61	O
ATOM	2705	CB	THR A 373	2.430	-13.098	-45.440	1.00	30.20	C
ATOM	2706	OG1	THR A 373	2.840	-14.431	-45.220	1.00	30.34	O
ATOM	2707	CG2	THR A 373	3.014	-12.677	-46.788	1.00	29.92	C
ATOM	2708	HN	THR A 373	4.659	-13.378	-44.257	1.00	0.00	H
ATOM	2709	HG1	THR A 373	2.075	-14.915	-44.812	1.00	0.00	H

ATOM	2710	HA	THR A 373	2.793	-11.146	-44.600	1.00	30.20	H
ATOM	2711	HB	THR A 373	1.342	-13.059	-45.490	1.00	30.20	H
ATOM	2712	1HG2	THR A 373	2.646	-13.343	-47.568	1.00	30.20	H
ATOM	2713	2HG2	THR A 373	4.102	-12.733	-46.747	1.00	30.20	H
ATOM	2714	3HG2	THR A 373	2.712	-11.654	-47.012	1.00	30.20	H
ATOM	2715	N	GLU A 374	2.429	-13.447	-42.251	1.00	30.43	N
ATOM	2716	CA	GLU A 374	1.701	-13.846	-41.040	1.00	30.71	C
ATOM	2717	C	GLU A 374	2.125	-13.032	-39.808	1.00	30.59	C
ATOM	2718	O	GLU A 374	1.435	-13.051	-38.788	1.00	30.80	O
ATOM	2719	CB	GLU A 374	1.941	-15.341	-40.749	1.00	30.92	C
ATOM	2720	CG	GLU A 374	1.946	-16.266	-41.971	1.00	31.03	C
ATOM	2721	CD	GLU A 374	0.715	-16.072	-42.853	1.00	31.30	C
ATOM	2722	OE1	GLU A 374	-0.327	-16.638	-42.450	1.00	31.63	O
ATOM	2723	OE2	GLU A 374	0.905	-15.677	-44.023	1.00	31.19	O
ATOM	2724	HN	GLU A 374	3.217	-14.023	-42.528	1.00	0.00	H
ATOM	2725	HA	GLU A 374	0.635	-13.692	-41.209	1.00	30.96	H
ATOM	2726	HB1	GLU A 374	2.908	-15.434	-40.255	1.00	30.96	H
ATOM	2727	HB2	GLU A 374	1.154	-15.681	-40.076	1.00	30.96	H
ATOM	2728	HG1	GLU A 374	2.837	-16.058	-42.563	1.00	30.96	H
ATOM	2729	HG2	GLU A 374	1.971	-17.300	-41.627	1.00	30.96	H
ATOM	2730	N	PHE A 375	3.310	-12.413	-39.854	1.00	30.27	N
ATOM	2731	CA	PHE A 375	3.981	-11.826	-38.695	1.00	30.14	C
ATOM	2732	C	PHE A 375	3.301	-10.538	-38.208	1.00	30.19	C
ATOM	2733	O	PHE A 375	3.645	-9.430	-38.620	1.00	30.11	O
ATOM	2734	CB	PHE A 375	5.469	-11.610	-39.009	1.00	29.79	C
ATOM	2735	CG	PHE A 375	6.268	-11.037	-37.850	1.00	29.62	C
ATOM	2736	CD1	PHE A 375	6.228	-11.653	-36.582	1.00	29.76	C

ATOM	2737	CD2 PHE A 375	7.054	-9.884	-38.036	1.00	29.34	C
ATOM	2738	CE1 PHE A 375	6.949	-11.107	-35.506	1.00	29.61	C
ATOM	2739	CE2 PHE A 375	7.789	-9.350	-36.964	1.00	29.19	C
ATOM	2740	CZ PHE A 375	7.728	-9.954	-35.696	1.00	29.33	C
ATOM	2741	HN PHE A 375	3.806	-12.439	-40.731	1.00	0.00	H
ATOM	2742	HA PHE A 375	3.922	-12.551	-37.884	1.00	29.76	H
ATOM	2743	HB1 PHE A 375	5.904	-12.571	-39.284	1.00	29.76	H
ATOM	2744	HB2 PHE A 375	5.545	-10.922	-39.851	1.00	29.76	H
ATOM	2745	HD1 PHE A 375	5.636	-12.556	-36.436	1.00	29.76	H
ATOM	2746	HD2 PHE A 375	7.093	-9.404	-39.014	1.00	29.76	H
ATOM	2747	HE1 PHE A 375	6.904	-11.578	-34.524	1.00	29.76	H
ATOM	2748	HE2 PHE A 375	8.408	-8.466	-37.116	1.00	29.76	H
ATOM	2749	HZ PHE A 375	8.285	-9.528	-34.861	1.00	29.76	H
ATOM	2750	N GLN A 376	2.383	-10.694	-37.255	1.00	30.34	N
ATOM	2751	CA GLN A 376	1.738	-9.579	-36.566	1.00	30.47	C
ATOM	2752	C GLN A 376	2.737	-8.891	-35.624	1.00	30.27	C
ATOM	2753	O GLN A 376	3.091	-9.432	-34.578	1.00	30.24	O
ATOM	2754	CB GLN A 376	0.488	-10.068	-35.805	1.00	30.84	C
ATOM	2755	CG GLN A 376	-0.487	-10.906	-36.652	1.00	31.14	C
ATOM	2756	CD GLN A 376	-0.809	-10.270	-38.001	1.00	31.05	C
ATOM	2757	OE1 GLN A 376	-1.278	-9.150	-38.091	1.00	31.11	O
ATOM	2758	NE2 GLN A 376	-0.492	-10.926	-39.094	1.00	30.92	N
ATOM	2759	HN GLN A 376	2.120	-11.633	-36.996	1.00	0.00	H
ATOM	2760	1HE2 GLN A 376	0.033	-11.789	-39.024	1.00	0.00	H
ATOM	2761	2HE2 GLN A 376	-0.625	-10.447	-39.966	1.00	0.00	H
ATOM	2762	HA GLN A 376	1.420	-8.854	-37.315	1.00	30.71	H
ATOM	2763	HB1 GLN A 376	0.818	-10.677	-34.964	1.00	30.71	H

ATOM	2764	HB2 GLN A 376	-0.048	-9.194	-35.434	1.00	30.71	H
ATOM	2765	HG1 GLN A 376	-0.040	-11.885	-36.828	1.00	30.71	H
ATOM	2766	HG2 GLN A 376	-1.416	-11.025	-36.095	1.00	30.71	H
ATOM	2767	N TYR A 377	3.134	-7.664	-35.962	1.00	50.03	N
ATOM	2768	CA TYR A 377	3.960	-6.806	-35.115	1.00	49.87	C
ATOM	2769	C TYR A 377	3.527	-5.347	-35.266	1.00	49.97	C
ATOM	2770	O TYR A 377	3.466	-4.825	-36.378	1.00	49.92	O
ATOM	2771	CB TYR A 377	5.446	-6.992	-35.455	1.00	49.53	C
ATOM	2772	CG TYR A 377	6.376	-6.200	-34.551	1.00	49.40	C
ATOM	2773	CD1 TYR A 377	6.861	-6.783	-33.362	1.00	49.50	C
ATOM	2774	CD2 TYR A 377	6.705	-4.865	-34.862	1.00	49.20	C
ATOM	2775	CE1 TYR A 377	7.661	-6.029	-32.481	1.00	49.40	C
ATOM	2776	CE2 TYR A 377	7.506	-4.112	-33.983	1.00	49.12	C
ATOM	2777	CZ TYR A 377	7.970	-4.687	-32.783	1.00	49.21	C
ATOM	2778	OH TYR A 377	8.698	-3.943	-31.912	1.00	49.15	O
ATOM	2779	HN TYR A 377	2.846	-7.297	-36.857	1.00	0.00	H
ATOM	2780	HH TYR A 377	8.548	-3.005	-32.036	1.00	0.00	H
ATOM	2781	HA TYR A 377	3.807	-7.102	-34.077	1.00	49.53	H
ATOM	2782	HB1 TYR A 377	5.692	-8.050	-35.362	1.00	49.53	H
ATOM	2783	HB2 TYR A 377	5.608	-6.670	-36.484	1.00	49.53	H
ATOM	2784	HD1 TYR A 377	6.617	-7.818	-33.124	1.00	49.53	H
ATOM	2785	HD2 TYR A 377	6.338	-4.415	-35.785	1.00	49.53	H
ATOM	2786	HE1 TYR A 377	8.041	-6.483	-31.566	1.00	49.53	H
ATOM	2787	HE2 TYR A 377	7.768	-3.083	-34.231	1.00	49.53	H
ATOM	2788	N ASN A 378	3.233	-4.682	-34.148	1.00	34.98	N
ATOM	2789	CA ASN A 378	2.982	-3.245	-34.127	1.00	35.08	C
ATOM	2790	C ASN A 378	4.315	-2.486	-34.127	1.00	34.82	C



ATOM	2791	O	ASN A 378	4.971	-2.394	-33.090	1.00	34.72	O
ATOM	2792	CB	ASN A 378	2.116	-2.907	-32.902	1.00	35.37	C
ATOM	2793	CG	ASN A 378	1.811	-1.422	-32.770	1.00	35.45	C
ATOM	2794	OD1	ASN A 378	1.848	-0.646	-33.715	1.00	35.27	O
ATOM	2795	ND2	ASN A 378	1.605	-0.944	-31.570	1.00	35.74	N
ATOM	2796	HN	ASN A 378	3.358	-5.150	-33.265	1.00	0.00	H
ATOM	2797	1HD2	ASN A 378	1.918	-1.486	-30.768	1.00	0.00	H
ATOM	2798	2HD2	ASN A 378	1.418	0.036	-31.482	1.00	0.00	H
ATOM	2799	HA	ASN A 378	2.430	-2.976	-35.027	1.00	35.18	H
ATOM	2800	HB1	ASN A 378	1.173	-3.447	-32.986	1.00	35.18	H
ATOM	2801	HB2	ASN A 378	2.644	-3.232	-32.005	1.00	35.18	H
ATOM	2802	N	ASP A 379	4.616	-1.790	-35.223	1.00	29.95	N
ATOM	2803	CA	ASP A 379	5.781	-0.901	-35.331	1.00	29.73	C
ATOM	2804	C	ASP A 379	5.823	0.182	-34.233	1.00	29.83	C
ATOM	2805	O	ASP A 379	6.901	0.489	-33.731	1.00	29.65	O
ATOM	2806	CB	ASP A 379	5.811	-0.257	-36.722	1.00	29.67	C
ATOM	2807	CG	ASP A 379	6.158	-1.207	-37.860	1.00	29.51	C
ATOM	2808	OD1	ASP A 379	6.438	-2.407	-37.646	1.00	29.27	O
ATOM	2809	OD2	ASP A 379	6.246	-0.712	-39.002	1.00	29.66	O
ATOM	2810	HN	ASP A 379	4.087	-1.975	-36.063	1.00	0.00	H
ATOM	2811	HA	ASP A 379	6.677	-1.513	-35.229	1.00	29.66	H
ATOM	2812	HB1	ASP A 379	4.826	0.165	-36.921	1.00	29.66	H
ATOM	2813	HB2	ASP A 379	6.553	0.542	-36.709	1.00	29.66	H
ATOM	2814	N	SER A 380	4.669	0.594	-33.691	1.00	30.51	N
ATOM	2815	CA	SER A 380	4.578	1.555	-32.574	1.00	30.65	C
ATOM	2816	C	SER A 380	5.143	1.023	-31.244	1.00	30.54	C
ATOM	2817	O	SER A 380	5.414	1.814	-30.345	1.00	30.55	O

ATOM	2818	CB	SER A 380	3.135	2.033	-32.336	1.00	31.03	C
ATOM	2819	OG	SER A 380	2.353	2.057	-33.518	1.00	31.14	O
ATOM	2820	HN	SER A 380	3.809	0.241	-34.086	1.00	0.00	H
ATOM	2821	HG	SER A 380	2.073	1.147	-33.726	1.00	0.00	H
ATOM	2822	HA	SER A 380	5.168	2.429	-32.850	1.00	30.74	H
ATOM	2823	HB1	SER A 380	2.661	1.361	-31.621	1.00	30.74	H
ATOM	2824	HB2	SER A 380	3.168	3.041	-31.922	1.00	30.74	H
ATOM	2825	N	ASN A 381	5.360	-0.294	-31.109	1.00	30.08	N
ATOM	2826	CA	ASN A 381	6.080	-0.889	-29.976	1.00	29.95	C
ATOM	2827	C	ASN A 381	7.609	-0.696	-30.073	1.00	29.61	C
ATOM	2828	O	ASN A 381	8.325	-1.043	-29.135	1.00	29.48	O
ATOM	2829	CB	ASN A 381	5.755	-2.398	-29.865	1.00	29.99	C
ATOM	2830	CG	ASN A 381	4.333	-2.748	-29.452	1.00	30.34	C
ATOM	2831	OD1	ASN A 381	3.362	-2.050	-29.694	1.00	30.56	O
ATOM	2832	ND2	ASN A 381	4.150	-3.883	-28.818	1.00	30.43	N
ATOM	2833	HN	ASN A 381	5.129	-0.897	-31.891	1.00	0.00	H
ATOM	2834	1HD2	ASN A 381	4.931	-4.471	-28.584	1.00	0.00	H
ATOM	2835	2HD2	ASN A 381	3.217	-4.090	-28.513	1.00	0.00	H
ATOM	2836	HA	ASN A 381	5.736	-0.402	-29.064	1.00	30.06	H
ATOM	2837	HB1	ASN A 381	5.940	-2.851	-30.839	1.00	30.06	H
ATOM	2838	HB2	ASN A 381	6.432	-2.831	-29.128	1.00	30.06	H
ATOM	2839	N	CYS A 382	8.142	-0.330	-31.245	1.00	29.47	N
ATOM	2840	CA	CYS A 382	9.580	-0.286	-31.496	1.00	29.18	C
ATOM	2841	C	CYS A 382	10.253	0.877	-30.719	1.00	29.19	C
ATOM	2842	O	CYS A 382	9.856	2.022	-30.939	1.00	29.32	O
ATOM	2843	CB	CYS A 382	9.796	-0.203	-33.013	1.00	29.06	C
ATOM	2844	SG	CYS A 382	11.476	-0.555	-33.575	1.00	28.72	S

ATOM	2845	HN	CYS A 382	7.524	-0.020	-31.989	1.00	0.00	H
ATOM	2846	HA	CYS A 382	10.013	-1.222	-31.144	1.00	29.16	H
ATOM	2847	HB1	CYS A 382	9.125	-0.919	-33.488	1.00	29.16	H
ATOM	2848	HB2	CYS A 382	9.538	0.806	-33.335	1.00	29.16	H
ATOM	2849	N	PRO A 383	11.278	0.652	-29.859	1.00	54.27	N
ATOM	2850	CA	PRO A 383	11.807	1.655	-28.903	1.00	54.34	C
ATOM	2851	C	PRO A 383	12.537	2.911	-29.443	1.00	54.19	C
ATOM	2852	O	PRO A 383	13.381	3.477	-28.751	1.00	53.96	O
ATOM	2853	CB	PRO A 383	12.718	0.874	-27.944	1.00	54.27	C
ATOM	2854	CG	PRO A 383	12.134	-0.530	-27.965	1.00	54.10	C
ATOM	2855	CD	PRO A 383	11.715	-0.676	-29.422	1.00	54.07	C
ATOM	2856	HA	PRO A 383	10.960	2.010	-28.316	1.00	54.17	H
ATOM	2857	HB1	PRO A 383	13.748	0.873	-28.300	1.00	54.17	H
ATOM	2858	HB2	PRO A 383	12.680	1.297	-26.940	1.00	54.17	H
ATOM	2859	HG1	PRO A 383	12.882	-1.274	-27.692	1.00	54.17	H
ATOM	2860	HG2	PRO A 383	11.277	-0.613	-27.296	1.00	54.17	H
ATOM	2861	HD1	PRO A 383	12.558	-1.013	-30.025	1.00	54.17	H
ATOM	2862	HD2	PRO A 383	10.896	-1.390	-29.509	1.00	54.17	H
ATOM	2863	N	ILE A 384	12.220	3.398	-30.642	1.00	33.61	N
ATOM	2864	CA	ILE A 384	12.958	4.432	-31.394	1.00	33.52	C
ATOM	2865	C	ILE A 384	12.998	5.847	-30.774	1.00	33.74	C
ATOM	2866	O	ILE A 384	13.517	6.759	-31.407	1.00	33.73	O
ATOM	2867	CB	ILE A 384	12.403	4.515	-32.836	1.00	33.48	C
ATOM	2868	CG1	ILE A 384	10.954	5.064	-32.856	1.00	33.76	C
ATOM	2869	CG2	ILE A 384	12.518	3.153	-33.544	1.00	33.33	C
ATOM	2870	CD1	ILE A 384	10.458	5.442	-34.252	1.00	33.73	C
ATOM	2871	HN	ILE A 384	11.435	2.960	-31.113	1.00	0.00	H

ATOM	2872	HA	ILE A 384	13.996	4.105	-31.457	1.00	0.00	H
ATOM	2873	HB	ILE A 384	13.026	5.221	-33.385	1.00	33.61	H
ATOM	2874	1HG1	ILE A 384	10.291	4.299	-32.451	1.00	33.61	H
ATOM	2875	2HG1	ILE A 384	10.914	5.952	-32.225	1.00	33.61	H
ATOM	2876	1HG2	ILE A 384	12.122	3.235	-34.556	1.00	33.61	H
ATOM	2877	2HG2	ILE A 384	11.949	2.406	-32.991	1.00	33.61	H
ATOM	2878	3HG2	ILE A 384	13.565	2.853	-33.587	1.00	33.61	H
ATOM	2879	1HD1	ILE A 384	9.437	5.818	-34.186	1.00	33.61	H
ATOM	2880	2HD1	ILE A 384	10.480	4.563	-34.896	1.00	33.61	H
ATOM	2881	3HD1	ILE A 384	11.103	6.215	-34.670	1.00	33.61	H
ATOM	2882	N	ILE A 385	12.392	6.090	-29.609	1.00	41.53	N
ATOM	2883	CA	ILE A 385	12.001	7.441	-29.145	1.00	41.81	C
ATOM	2884	C	ILE A 385	13.188	8.421	-29.027	1.00	41.76	C
ATOM	2885	O	ILE A 385	13.058	9.583	-29.402	1.00	41.95	O
ATOM	2886	CB	ILE A 385	11.196	7.326	-27.824	1.00	42.09	C
ATOM	2887	CG1	ILE A 385	9.871	6.565	-28.089	1.00	42.20	C
ATOM	2888	CG2	ILE A 385	10.911	8.706	-27.198	1.00	42.42	C
ATOM	2889	CD1	ILE A 385	9.036	6.268	-26.836	1.00	42.55	C
ATOM	2890	HN	ILE A 385	12.039	5.288	-29.107	1.00	0.00	H
ATOM	2891	HA	ILE A 385	11.324	7.851	-29.895	1.00	42.04	H
ATOM	2892	HB	ILE A 385	11.786	6.746	-27.115	1.00	42.04	H
ATOM	2893	1HG1	ILE A 385	9.264	7.167	-28.766	1.00	42.04	H
ATOM	2894	2HG1	ILE A 385	10.115	5.616	-28.566	1.00	42.04	H
ATOM	2895	1HG2	ILE A 385	10.345	8.577	-26.275	1.00	42.04	H
ATOM	2896	2HG2	ILE A 385	10.332	9.310	-27.897	1.00	42.04	H
ATOM	2897	3HG2	ILE A 385	11.854	9.208	-26.979	1.00	42.04	H
ATOM	2898	1HD1	ILE A 385	8.130	5.734	-27.121	1.00	42.04	H

ATOM	2899	2HD1 ILE A 385	8.767	7.205	-26.348	1.00	42.04	H
ATOM	2900	3HD1 ILE A 385	9.618	5.654	-26.148	1.00	42.04	H
ATOM	2901	N HIS A 386	14.368	7.941	-28.625	1.00	29.46	N
ATOM	2902	CA HIS A 386	15.611	8.740	-28.571	1.00	29.42	C
ATOM	2903	C HIS A 386	16.465	8.635	-29.851	1.00	29.17	C
ATOM	2904	O HIS A 386	17.497	9.294	-29.994	1.00	29.07	O
ATOM	2905	CB HIS A 386	16.415	8.312	-27.334	1.00	29.35	C
ATOM	2906	CG HIS A 386	15.611	8.358	-26.058	1.00	29.60	C
ATOM	2907	ND1 HIS A 386	15.133	9.520	-25.451	1.00	29.94	N
ATOM	2908	CD2 HIS A 386	15.178	7.278	-25.344	1.00	29.60	C
ATOM	2909	CE1 HIS A 386	14.431	9.118	-24.383	1.00	30.13	C
ATOM	2910	NE2 HIS A 386	14.440	7.776	-24.292	1.00	29.92	N
ATOM	2911	HN HIS A 386	14.411	6.969	-28.362	1.00	0.00	H
ATOM	2912	HE2 HIS A 386	13.986	7.236	-23.570	1.00	0.00	H
ATOM	2913	HA HIS A 386	15.331	9.785	-28.442	1.00	29.57	H
ATOM	2914	HB1 HIS A 386	16.766	7.291	-27.485	1.00	29.57	H
ATOM	2915	HB2 HIS A 386	17.270	8.979	-27.229	1.00	29.57	H
ATOM	2916	HD2 HIS A 386	15.377	6.229	-25.563	1.00	29.57	H
ATOM	2917	HE1 HIS A 386	13.924	9.785	-23.686	1.00	29.57	H
ATOM	2918	N CYS A 387	16.106	7.719	-30.746	1.00	35.54	N
ATOM	2919	CA CYS A 387	16.943	7.215	-31.827	1.00	35.30	C
ATOM	2920	C CYS A 387	16.730	8.024	-33.109	1.00	35.39	C
ATOM	2921	O CYS A 387	15.987	7.623	-33.998	1.00	35.38	O
ATOM	2922	CB CYS A 387	16.640	5.727	-31.995	1.00	35.10	C
ATOM	2923	SG CYS A 387	16.989	4.785	-30.493	1.00	34.90	S
ATOM	2924	HN CYS A 387	15.189	7.300	-30.650	1.00	0.00	H
ATOM	2925	HA CYS A 387	17.986	7.319	-31.528	1.00	35.27	H

ATOM	2926	HB1 CYS A 387	15.586	5.610	-32.246	1.00	35.27	H
ATOM	2927	HB2 CYS A 387	17.253	5.334	-32.806	1.00	35.27	H
ATOM	2928	N LYS A 388	17.468	9.137	-33.222	1.00	29.04	N
ATOM	2929	CA LYS A 388	17.288	10.247	-34.189	1.00	29.18	C
ATOM	2930	C LYS A 388	17.003	9.892	-35.668	1.00	29.02	C
ATOM	2931	O LYS A 388	16.627	10.788	-36.418	1.00	29.16	O
ATOM	2932	CB LYS A 388	18.555	11.125	-34.131	1.00	29.19	C
ATOM	2933	CG LYS A 388	18.271	12.622	-34.345	1.00	29.50	C
ATOM	2934	CD LYS A 388	19.472	13.439	-34.853	1.00	29.52	C
ATOM	2935	CE LYS A 388	20.773	13.279	-34.049	1.00	29.35	C
ATOM	2936	NZ LYS A 388	21.578	12.114	-34.500	1.00	29.01	N1+
ATOM	2937	HN LYS A 388	17.979	9.359	-32.376	1.00	0.00	H
ATOM	2938	HZ1 LYS A 388	22.433	12.032	-33.967	1.00	0.00	H
ATOM	2939	HZ2 LYS A 388	21.825	12.216	-35.483	1.00	0.00	H
ATOM	2940	HZ3 LYS A 388	21.054	11.254	-34.407	1.00	0.00	H
ATOM	2941	HA LYS A 388	16.455	10.855	-33.835	1.00	29.22	H
ATOM	2942	HB1 LYS A 388	19.019	10.998	-33.153	1.00	29.22	H
ATOM	2943	HB2 LYS A 388	19.243	10.790	-34.907	1.00	29.22	H
ATOM	2944	HG1 LYS A 388	17.466	12.714	-35.074	1.00	29.22	H
ATOM	2945	HG2 LYS A 388	17.951	13.046	-33.393	1.00	29.22	H
ATOM	2946	HD1 LYS A 388	19.673	13.135	-35.880	1.00	29.22	H
ATOM	2947	HD2 LYS A 388	19.193	14.493	-34.833	1.00	29.22	H
ATOM	2948	HE1 LYS A 388	21.370	14.183	-34.166	1.00	29.22	H
ATOM	2949	HE2 LYS A 388	20.520	13.144	-32.997	1.00	29.22	H
ATOM	2950	N TYR A 389	17.363	8.693	-36.127	1.00	28.75	N
ATOM	2951	CA TYR A 389	17.205	8.242	-37.520	1.00	28.60	C
ATOM	2952	C TYR A 389	16.382	6.947	-37.671	1.00	28.49	C

ATOM	2953	O	TYR A 389	16.008	6.594	-38.789	1.00	28.40	O
ATOM	2954	CB	TYR A 389	18.598	8.056	-38.151	1.00	28.39	C
ATOM	2955	CG	TYR A 389	19.576	9.209	-37.973	1.00	28.48	C
ATOM	2956	CD1	TYR A 389	19.188	10.530	-38.273	1.00	28.48	C
ATOM	2957	CD2	TYR A 389	20.883	8.952	-37.513	1.00	28.60	C
ATOM	2958	CE1	TYR A 389	20.093	11.594	-38.093	1.00	28.59	C
ATOM	2959	CE2	TYR A 389	21.793	10.011	-37.332	1.00	28.72	C
ATOM	2960	CZ	TYR A 389	21.396	11.331	-37.624	1.00	28.72	C
ATOM	2961	OH	TYR A 389	22.249	12.355	-37.363	1.00	28.86	O
ATOM	2962	HN	TYR A 389	17.625	8.005	-35.440	1.00	0.00	H
ATOM	2963	HH	TYR A 389	22.741	12.588	-38.160	1.00	0.00	H
ATOM	2964	HA	TYR A 389	16.691	9.030	-38.070	1.00	28.59	H
ATOM	2965	HB1	TYR A 389	19.048	7.167	-37.708	1.00	28.59	H
ATOM	2966	HB2	TYR A 389	18.460	7.899	-39.221	1.00	28.59	H
ATOM	2967	HD1	TYR A 389	18.183	10.729	-38.646	1.00	28.59	H
ATOM	2968	HD2	TYR A 389	21.191	7.929	-37.296	1.00	28.59	H
ATOM	2969	HE1	TYR A 389	19.787	12.616	-38.315	1.00	28.59	H
ATOM	2970	HE2	TYR A 389	22.800	9.811	-36.967	1.00	28.59	H
ATOM	2971	N	SER A 390	16.131	6.226	-36.576	1.00	28.50	N
ATOM	2972	CA	SER A 390	15.590	4.867	-36.597	1.00	28.40	C
ATOM	2973	C	SER A 390	14.095	4.848	-36.898	1.00	28.59	C
ATOM	2974	O	SER A 390	13.304	5.553	-36.270	1.00	28.81	O
ATOM	2975	CB	SER A 390	15.873	4.168	-35.268	1.00	28.34	C
ATOM	2976	OG	SER A 390	17.270	4.118	-35.053	1.00	28.20	O
ATOM	2977	HN	SER A 390	16.345	6.610	-35.666	1.00	0.00	H
ATOM	2978	HG	SER A 390	17.654	3.627	-35.826	1.00	0.00	H
ATOM	2979	HA	SER A 390	16.100	4.313	-37.385	1.00	28.47	H

ATOM	2980	HB1 SER A 390	15.400	4.722	-34.457	1.00	28.47	H
ATOM	2981	HB2 SER A 390	15.473	3.154	-35.298	1.00	28.47	H
ATOM	2982	N LYS A 391	13.677	3.990	-37.832	1.00	28.50	N
ATOM	2983	CA LYS A 391	12.264	3.831	-38.198	1.00	28.66	C
ATOM	2984	C LYS A 391	11.568	2.893	-37.217	1.00	28.73	C
ATOM	2985	O LYS A 391	12.111	1.845	-36.883	1.00	28.63	O
ATOM	2986	CB LYS A 391	12.112	3.321	-39.640	1.00	28.55	C
ATOM	2987	CG LYS A 391	12.939	4.121	-40.663	1.00	28.49	C
ATOM	2988	CD LYS A 391	12.654	3.665	-42.099	1.00	28.44	C
ATOM	2989	CE LYS A 391	11.297	4.189	-42.584	1.00	28.65	C
ATOM	2990	NZ LYS A 391	10.905	3.574	-43.873	1.00	28.62	N1+
ATOM	2991	HN LYS A 391	14.360	3.343	-38.214	1.00	0.00	H
ATOM	2992	HZ1 LYS A 391	10.055	3.980	-44.234	1.00	0.00	H
ATOM	2993	HZ2 LYS A 391	11.641	3.610	-44.559	1.00	0.00	H
ATOM	2994	HZ3 LYS A 391	10.650	2.590	-43.716	1.00	0.00	H
ATOM	2995	HA LYS A 391	11.785	4.808	-38.131	1.00	28.59	H
ATOM	2996	HB1 LYS A 391	12.434	2.280	-39.674	1.00	28.59	H
ATOM	2997	HB2 LYS A 391	11.061	3.386	-39.920	1.00	28.59	H
ATOM	2998	HG1 LYS A 391	12.689	5.178	-40.571	1.00	28.59	H
ATOM	2999	HG2 LYS A 391	13.998	3.978	-40.450	1.00	28.59	H
ATOM	3000	HD1 LYS A 391	13.437	4.044	-42.755	1.00	28.59	H
ATOM	3001	HD2 LYS A 391	12.648	2.576	-42.132	1.00	28.59	H
ATOM	3002	HE1 LYS A 391	10.540	3.955	-41.836	1.00	28.59	H
ATOM	3003	HE2 LYS A 391	11.360	5.270	-42.712	1.00	28.59	H
ATOM	3004	N ALA A 392	10.265	3.094	-37.036	1.00	38.67	N
ATOM	3005	CA ALA A 392	9.406	2.165	-36.294	1.00	38.80	C
ATOM	3006	C ALA A 392	9.332	0.763	-36.949	1.00	38.67	C



ATOM	3007	O	ALA A 392	9.303	-0.252	-36.256	1.00	38.68	O
ATOM	3008	CB	ALA A 392	8.033	2.837	-36.170	1.00	39.08	C
ATOM	3009	HN	ALA A 392	9.870	3.969	-37.334	1.00	0.00	H
ATOM	3010	HA	ALA A 392	9.818	2.049	-35.292	1.00	38.78	H
ATOM	3011	HB1	ALA A 392	7.355	2.182	-35.623	1.00	38.78	H
ATOM	3012	HB2	ALA A 392	7.630	3.027	-37.165	1.00	38.78	H
ATOM	3013	HB3	ALA A 392	8.137	3.781	-35.634	1.00	38.78	H
ATOM	3014	N	GLU A 393	9.560	0.701	-38.267	1.00	32.27	N
ATOM	3015	CA	GLU A 393	9.720	-0.543	-39.029	1.00	32.19	C
ATOM	3016	C	GLU A 393	10.927	-1.393	-38.601	1.00	31.99	C
ATOM	3017	O	GLU A 393	10.941	-2.596	-38.855	1.00	31.95	O
ATOM	3018	CB	GLU A 393	9.937	-0.226	-40.516	1.00	32.12	C
ATOM	3019	CG	GLU A 393	8.928	0.727	-41.165	1.00	32.18	C
ATOM	3020	CD	GLU A 393	8.927	0.524	-42.685	1.00	31.98	C
ATOM	3021	OE1	GLU A 393	8.488	-0.569	-43.125	1.00	31.89	O
ATOM	3022	OE2	GLU A 393	9.553	1.363	-43.371	1.00	31.92	O
ATOM	3023	HN	GLU A 393	9.592	1.566	-38.776	1.00	0.00	H
ATOM	3024	HA	GLU A 393	8.814	-1.140	-38.924	1.00	32.05	H
ATOM	3025	HB1	GLU A 393	10.927	0.219	-40.619	1.00	32.05	H
ATOM	3026	HB2	GLU A 393	9.903	-1.168	-41.064	1.00	32.05	H
ATOM	3027	HG1	GLU A 393	7.932	0.522	-40.772	1.00	32.05	H
ATOM	3028	HG2	GLU A 393	9.204	1.757	-40.938	1.00	32.05	H
ATOM	3029	N	ASN A 394	11.999	-0.778	-38.087	1.00	32.64	N
ATOM	3030	CA	ASN A 394	13.317	-1.412	-37.982	1.00	32.44	C
ATOM	3031	C	ASN A 394	13.295	-2.685	-37.126	1.00	32.45	C
ATOM	3032	O	ASN A 394	13.847	-3.702	-37.547	1.00	32.34	O
ATOM	3033	CB	ASN A 394	14.334	-0.401	-37.431	1.00	32.41	C

ATOM	3034	CG	ASN A 394	14.736	0.694	-38.408	1.00	32.39	C
ATOM	3035	OD1	ASN A 394	14.377	0.694	-39.577	1.00	32.47	O
ATOM	3036	ND2	ASN A 394	15.578	1.597	-37.971	1.00	32.30	N
ATOM	3037	HN	ASN A 394	11.936	0.209	-37.866	1.00	0.00	H
ATOM	3038	1HD2	ASN A 394	15.926	1.499	-37.018	1.00	0.00	H
ATOM	3039	2HD2	ASN A 394	16.283	1.933	-38.623	1.00	0.00	H
ATOM	3040	HA	ASN A 394	13.634	-1.691	-38.987	1.00	32.43	H
ATOM	3041	HB1	ASN A 394	13.899	0.073	-36.551	1.00	32.43	H
ATOM	3042	HB2	ASN A 394	15.233	-0.946	-37.144	1.00	32.43	H
ATOM	3043	N	CYS A 395	12.455	-2.704	-36.084	1.00	31.44	N
ATOM	3044	CA	CYS A 395	12.134	-3.904	-35.318	1.00	31.44	C
ATOM	3045	C	CYS A 395	11.551	-5.013	-36.212	1.00	31.49	C
ATOM	3046	O	CYS A 395	12.182	-6.054	-36.387	1.00	31.38	O
ATOM	3047	CB	CYS A 395	11.164	-3.548	-34.182	1.00	31.64	C
ATOM	3048	SG	CYS A 395	11.826	-2.451	-32.904	1.00	31.62	S
ATOM	3049	HN	CYS A 395	11.987	-1.841	-35.843	1.00	0.00	H
ATOM	3050	HA	CYS A 395	13.056	-4.278	-34.872	1.00	31.50	H
ATOM	3051	HB1	CYS A 395	10.294	-3.062	-34.624	1.00	31.50	H
ATOM	3052	HB2	CYS A 395	10.856	-4.476	-33.701	1.00	31.50	H
ATOM	3053	N	ARG A 396	10.420	-4.751	-36.882	1.00	28.58	N
ATOM	3054	CA	ARG A 396	9.716	-5.702	-37.763	1.00	28.67	C
ATOM	3055	C	ARG A 396	10.585	-6.213	-38.915	1.00	28.50	C
ATOM	3056	O	ARG A 396	10.500	-7.387	-39.284	1.00	28.50	O
ATOM	3057	CB	ARG A 396	8.444	-5.004	-38.281	1.00	28.89	C
ATOM	3058	CG	ARG A 396	7.640	-5.814	-39.316	1.00	29.00	C
ATOM	3059	CD	ARG A 396	6.301	-5.154	-39.681	1.00	29.22	C
ATOM	3060	NE	ARG A 396	6.446	-3.741	-40.065	1.00	29.17	N

ATOM	3061	CZ	ARG A 396	6.895	-3.205	-41.179	1.00	29.02	C
ATOM	3062	NH1	ARG A 396	7.261	-3.903	-42.212	1.00	28.90	N
ATOM	3063	NH2	ARG A 396	6.977	-1.924	-41.281	1.00	29.01	N
ATOM	3064	HN	ARG A 396	10.031	-3.820	-36.798	1.00	0.00	H
ATOM	3065	HE	ARG A 396	6.292	-3.071	-39.304	1.00	0.00	H
ATOM	3066	1HH1	ARG A 396	7.090	-4.884	-42.203	1.00	0.00	H
ATOM	3067	2HH1	ARG A 396	7.563	-3.401	-43.027	1.00	0.00	H
ATOM	3068	1HH2	ARG A 396	6.688	-1.368	-40.471	1.00	0.00	H
ATOM	3069	2HH2	ARG A 396	7.436	-1.455	-42.061	1.00	0.00	H
ATOM	3070	HA	ARG A 396	9.412	-6.559	-37.162	1.00	28.86	H
ATOM	3071	HB1	ARG A 396	7.795	-4.805	-37.428	1.00	28.86	H
ATOM	3072	HB2	ARG A 396	8.738	-4.061	-38.742	1.00	28.86	H
ATOM	3073	HG1	ARG A 396	8.238	-5.912	-40.222	1.00	28.86	H
ATOM	3074	HG2	ARG A 396	7.439	-6.803	-38.904	1.00	28.86	H
ATOM	3075	HD1	ARG A 396	5.861	-5.698	-40.517	1.00	28.86	H
ATOM	3076	HD2	ARG A 396	5.637	-5.214	-38.818	1.00	28.86	H
ATOM	3077	N	LEU A 397	11.412	-5.347	-39.495	1.00	28.38	N
ATOM	3078	CA	LEU A 397	12.327	-5.696	-40.581	1.00	28.20	C
ATOM	3079	C	LEU A 397	13.477	-6.595	-40.095	1.00	28.06	C
ATOM	3080	O	LEU A 397	13.667	-7.663	-40.681	1.00	28.01	O
ATOM	3081	CB	LEU A 397	12.843	-4.406	-41.245	1.00	28.09	C
ATOM	3082	CG	LEU A 397	11.758	-3.560	-41.946	1.00	28.20	C
ATOM	3083	CD1	LEU A 397	12.386	-2.273	-42.480	1.00	28.15	C
ATOM	3084	CD2	LEU A 397	11.077	-4.288	-43.108	1.00	28.17	C
ATOM	3085	HN	LEU A 397	11.393	-4.387	-39.158	1.00	0.00	H
ATOM	3086	HA	LEU A 397	11.761	-6.253	-41.328	1.00	28.16	H
ATOM	3087	HB1	LEU A 397	13.308	-3.791	-40.475	1.00	28.16	H

ATOM	3088	HB2 LEU A 397	13.590	-4.683	-41.989	1.00	28.16	H
ATOM	3089	HG LEU A 397	10.998	-3.295	-41.211	1.00	28.16	H
ATOM	3090	1HD1 LEU A 397	11.622	-1.674	-42.975	1.00	28.16	H
ATOM	3091	2HD1 LEU A 397	13.172	-2.521	-43.193	1.00	28.16	H
ATOM	3092	3HD1 LEU A 397	12.812	-1.706	-41.653	1.00	28.16	H
ATOM	3093	1HD2 LEU A 397	10.326	-3.637	-43.555	1.00	28.16	H
ATOM	3094	2HD2 LEU A 397	10.597	-5.194	-42.738	1.00	28.16	H
ATOM	3095	3HD2 LEU A 397	11.822	-4.552	-43.859	1.00	28.16	H
ATOM	3096	N SER A 398	14.107	-6.260	-38.960	1.00	29.91	N
ATOM	3097	CA SER A 398	15.251	-6.986	-38.378	1.00	29.76	C
ATOM	3098	C SER A 398	14.941	-8.426	-37.954	1.00	29.83	C
ATOM	3099	O SER A 398	15.838	-9.256	-38.020	1.00	29.71	O
ATOM	3100	CB SER A 398	15.818	-6.197	-37.185	1.00	29.68	C
ATOM	3101	OG SER A 398	16.835	-6.905	-36.489	1.00	29.55	O
ATOM	3102	HN SER A 398	13.827	-5.400	-38.494	1.00	0.00	H
ATOM	3103	HG SER A 398	17.565	-7.113	-37.107	1.00	0.00	H
ATOM	3104	HA SER A 398	16.030	-7.031	-39.139	1.00	29.74	H
ATOM	3105	HB1 SER A 398	16.236	-5.261	-37.554	1.00	29.74	H
ATOM	3106	HB2 SER A 398	15.005	-5.984	-36.491	1.00	29.74	H
ATOM	3107	N MET A 399	13.676	-8.795	-37.707	1.00	28.13	N
ATOM	3108	CA MET A 399	13.304	-10.161	-37.282	1.00	28.23	C
ATOM	3109	C MET A 399	13.583	-11.284	-38.308	1.00	28.22	C
ATOM	3110	O MET A 399	13.324	-12.448	-38.010	1.00	28.30	O
ATOM	3111	CB MET A 399	11.833	-10.229	-36.831	1.00	28.49	C
ATOM	3112	CG MET A 399	11.420	-9.198	-35.781	1.00	28.56	C
ATOM	3113	SD MET A 399	12.495	-9.055	-34.327	1.00	28.44	S
ATOM	3114	CE MET A 399	11.635	-7.723	-33.449	1.00	28.56	C

ATOM	3115	HN	MET A 399	12.984	-8.061	-37.632	1.00	0.00	H
ATOM	3116	HA	MET A 399	13.908	-10.387	-36.403	1.00	28.37	H
ATOM	3117	HB1	MET A 399	11.205	-10.083	-37.710	1.00	28.37	H
ATOM	3118	HB2	MET A 399	11.654	-11.221	-36.416	1.00	28.37	H
ATOM	3119	HG1	MET A 399	11.389	-8.223	-36.268	1.00	28.37	H
ATOM	3120	HG2	MET A 399	10.422	-9.462	-35.431	1.00	28.37	H
ATOM	3121	HE1	MET A 399	12.161	-7.500	-32.521	1.00	28.37	H
ATOM	3122	HE2	MET A 399	10.616	-8.036	-33.222	1.00	28.37	H
ATOM	3123	HE3	MET A 399	11.610	-6.831	-34.075	1.00	28.37	H
ATOM	3124	N	GLY A 400	14.090	-10.986	-39.509	1.00	28.13	N
ATOM	3125	CA	GLY A 400	14.535	-11.989	-40.482	1.00	28.11	C
ATOM	3126	C	GLY A 400	15.872	-11.627	-41.134	1.00	27.89	C
ATOM	3127	O	GLY A 400	16.190	-10.452	-41.288	1.00	27.75	O
ATOM	3128	HN	GLY A 400	14.437	-10.043	-39.637	1.00	0.00	H
ATOM	3129	HA1	GLY A 400	14.644	-12.946	-39.971	1.00	27.97	H
ATOM	3130	HA2	GLY A 400	13.779	-12.077	-41.262	1.00	27.97	H
ATOM	3131	N	VAL A 401	16.570	-12.642	-41.660	1.00	27.88	N
ATOM	3132	CA	VAL A 401	17.931	-12.569	-42.254	1.00	27.71	C
ATOM	3133	C	VAL A 401	18.082	-11.520	-43.373	1.00	27.63	C
ATOM	3134	O	VAL A 401	19.172	-11.009	-43.615	1.00	27.49	O
ATOM	3135	CB	VAL A 401	18.325	-13.981	-42.755	1.00	27.78	C
ATOM	3136	CG1	VAL A 401	19.585	-14.037	-43.628	1.00	27.64	C
ATOM	3137	CG2	VAL A 401	18.532	-14.928	-41.566	1.00	27.85	C
ATOM	3138	HN	VAL A 401	16.219	-13.569	-41.473	1.00	0.00	H
ATOM	3139	HA	VAL A 401	18.623	-12.299	-41.456	1.00	27.71	H
ATOM	3140	HB	VAL A 401	17.494	-14.367	-43.346	1.00	27.71	H
ATOM	3141	1HG1	VAL A 401	19.775	-15.068	-43.927	1.00	27.71	H

ATOM	3142	2HG1 VAL A 401	20.437	-13.660	-43.062	1.00	27.71	H
ATOM	3143	3HG1 VAL A 401	19.440	-13.423	-44.517	1.00	27.71	H
ATOM	3144	1HG2 VAL A 401	18.808	-15.917	-41.932	1.00	27.71	H
ATOM	3145	2HG2 VAL A 401	17.608	-14.999	-40.992	1.00	27.71	H
ATOM	3146	3HG2 VAL A 401	19.327	-14.542	-40.928	1.00	27.71	H
ATOM	3147	N ASN A 402	16.979	-11.096	-43.993	1.00	27.75	N
ATOM	3148	CA ASN A 402	16.870	-9.793	-44.649	1.00	27.71	C
ATOM	3149	C ASN A 402	15.631	-9.063	-44.100	1.00	27.82	C
ATOM	3150	O ASN A 402	14.590	-9.697	-43.925	1.00	27.97	O
ATOM	3151	CB ASN A 402	16.735	-9.944	-46.179	1.00	27.78	C
ATOM	3152	CG ASN A 402	17.873	-10.554	-46.982	1.00	27.74	C
ATOM	3153	OD1 ASN A 402	17.722	-10.733	-48.179	1.00	27.60	O
ATOM	3154	ND2 ASN A 402	19.032	-10.814	-46.430	1.00	27.89	N
ATOM	3155	HN ASN A 402	16.115	-11.462	-43.623	1.00	0.00	H
ATOM	3156	HB1 ASN A 402	15.855	-10.562	-46.359	1.00	0.00	H
ATOM	3157	1HD2 ASN A 402	19.178	-10.720	-45.428	1.00	0.00	H
ATOM	3158	2HD2 ASN A 402	19.747	-11.200	-47.019	1.00	0.00	H
ATOM	3159	HA ASN A 402	17.760	-9.205	-44.425	1.00	27.78	H
ATOM	3160	HB2 ASN A 402	16.566	-8.945	-46.581	1.00	27.78	H
ATOM	3161	N SER A 403	15.602	-7.739	-44.269	1.00	27.76	N
ATOM	3162	CA SER A 403	14.370	-6.929	-44.220	1.00	27.88	C
ATOM	3163	C SER A 403	13.289	-7.416	-45.202	1.00	28.04	C
ATOM	3164	O SER A 403	12.124	-7.542	-44.833	1.00	28.19	O
ATOM	3165	CB SER A 403	14.743	-5.479	-44.546	1.00	27.82	C
ATOM	3166	OG SER A 403	15.415	-5.410	-45.795	1.00	27.78	O
ATOM	3167	HN SER A 403	16.455	-7.263	-44.524	1.00	0.00	H
ATOM	3168	HG SER A 403	15.723	-4.504	-45.923	1.00	0.00	H

ATOM	3169	HA	SER A 403	13.966	-6.967	-43.208	1.00	27.91	H
ATOM	3170	HB1	SER A 403	13.836	-4.877	-44.593	1.00	27.91	H
ATOM	3171	HB2	SER A 403	15.397	-5.092	-43.765	1.00	27.91	H
ATOM	3172	N	LYS A 404	13.710	-7.847	-46.400	1.00	28.00	N
ATOM	3173	CA	LYS A 404	12.878	-8.440	-47.465	1.00	28.14	C
ATOM	3174	C	LYS A 404	12.785	-9.978	-47.448	1.00	28.29	C
ATOM	3175	O	LYS A 404	12.532	-10.576	-48.493	1.00	28.45	O
ATOM	3176	CB	LYS A 404	13.310	-7.858	-48.829	1.00	28.05	C
ATOM	3177	CG	LYS A 404	14.747	-8.213	-49.280	1.00	27.95	C
ATOM	3178	CD	LYS A 404	14.869	-9.300	-50.361	1.00	28.03	C
ATOM	3179	CE	LYS A 404	14.234	-8.861	-51.688	1.00	27.98	C
ATOM	3180	NZ	LYS A 404	14.296	-9.943	-52.701	1.00	27.94	N1+
ATOM	3181	HN	LYS A 404	14.678	-7.649	-46.607	1.00	0.00	H
ATOM	3182	HZ1	LYS A 404	13.897	-9.633	-53.578	1.00	0.00	H
ATOM	3183	HZ2	LYS A 404	13.776	-10.749	-52.377	1.00	0.00	H
ATOM	3184	HZ3	LYS A 404	15.256	-10.223	-52.859	1.00	0.00	H
ATOM	3185	HA	LYS A 404	11.865	-8.077	-47.291	1.00	28.09	H
ATOM	3186	HB1	LYS A 404	12.619	-8.229	-49.586	1.00	28.09	H
ATOM	3187	HB2	LYS A 404	13.236	-6.772	-48.769	1.00	28.09	H
ATOM	3188	HG1	LYS A 404	15.208	-7.305	-49.668	1.00	28.09	H
ATOM	3189	HG2	LYS A 404	15.297	-8.553	-48.402	1.00	28.09	H
ATOM	3190	HD1	LYS A 404	15.925	-9.513	-50.529	1.00	28.09	H
ATOM	3191	HD2	LYS A 404	14.367	-10.202	-50.012	1.00	28.09	H
ATOM	3192	HE1	LYS A 404	13.191	-8.599	-51.512	1.00	28.09	H
ATOM	3193	HE2	LYS A 404	14.769	-7.990	-52.066	1.00	28.09	H
ATOM	3194	N	SER A 405	13.146	-10.635	-46.342	1.00	28.23	N
ATOM	3195	CA	SER A 405	13.092	-12.102	-46.225	1.00	28.36	C

ATOM	3196	C	SER A 405	11.665	-12.640	-46.380	1.00	28.62	C
ATOM	3197	O	SER A 405	10.704	-11.955	-46.041	1.00	28.71	O
ATOM	3198	CB	SER A 405	13.662	-12.563	-44.878	1.00	28.30	C
ATOM	3199	OG	SER A 405	12.888	-12.063	-43.806	1.00	28.39	O
ATOM	3200	HN	SER A 405	13.349	-10.104	-45.504	1.00	0.00	H
ATOM	3201	HG	SER A 405	12.640	-12.825	-43.233	1.00	0.00	H
ATOM	3202	HA	SER A 405	13.705	-12.530	-47.018	1.00	28.43	H
ATOM	3203	HB1	SER A 405	13.659	-13.652	-44.843	1.00	28.43	H
ATOM	3204	HB2	SER A 405	14.685	-12.199	-44.780	1.00	28.43	H
ATOM	3205	N	HIS A 406	11.546	-13.915	-46.762	1.00	28.77	N
ATOM	3206	CA	HIS A 406	10.296	-14.679	-46.657	1.00	29.05	C
ATOM	3207	C	HIS A 406	9.943	-14.948	-45.184	1.00	29.17	C
ATOM	3208	O	HIS A 406	9.006	-14.345	-44.672	1.00	29.36	O
ATOM	3209	CB	HIS A 406	10.432	-15.959	-47.501	1.00	29.22	C
ATOM	3210	CG	HIS A 406	9.279	-16.924	-47.405	1.00	29.54	C
ATOM	3211	ND1	HIS A 406	8.969	-17.668	-46.272	1.00	29.74	N
ATOM	3212	CD2	HIS A 406	8.496	-17.350	-48.439	1.00	29.72	C
ATOM	3213	CE1	HIS A 406	8.020	-18.540	-46.644	1.00	30.04	C
ATOM	3214	NE2	HIS A 406	7.702	-18.357	-47.935	1.00	30.03	N
ATOM	3215	HN	HIS A 406	12.379	-14.419	-47.019	1.00	0.00	H
ATOM	3216	HE2	HIS A 406	7.050	-18.931	-48.453	1.00	0.00	H
ATOM	3217	HA	HIS A 406	9.497	-14.076	-47.089	1.00	29.46	H
ATOM	3218	HB1	HIS A 406	10.536	-15.663	-48.545	1.00	29.46	H
ATOM	3219	HB2	HIS A 406	11.334	-16.480	-47.178	1.00	29.46	H
ATOM	3220	HD2	HIS A 406	8.498	-16.969	-49.460	1.00	29.46	H
ATOM	3221	HE1	HIS A 406	7.572	-19.289	-45.992	1.00	29.46	H
ATOM	3222	N	TYR A 407	10.840	-15.602	-44.441	1.00	29.08	N



ATOM	3223	CA	TYR A 407	10.692	-15.844	-43.002	1.00	29.17	C
ATOM	3224	C	TYR A 407	11.130	-14.660	-42.128	1.00	28.96	C
ATOM	3225	O	TYR A 407	12.218	-14.113	-42.338	1.00	28.74	O
ATOM	3226	CB	TYR A 407	11.478	-17.109	-42.624	1.00	29.25	C
ATOM	3227	CG	TYR A 407	10.986	-18.339	-43.352	1.00	29.54	C
ATOM	3228	CD1	TYR A 407	9.708	-18.833	-43.049	1.00	29.82	C
ATOM	3229	CD2	TYR A 407	11.751	-18.941	-44.369	1.00	29.57	C
ATOM	3230	CE1	TYR A 407	9.187	-19.924	-43.756	1.00	30.10	C
ATOM	3231	CE2	TYR A 407	11.227	-20.040	-45.080	1.00	29.87	C
ATOM	3232	CZ	TYR A 407	9.943	-20.535	-44.775	1.00	30.13	C
ATOM	3233	OH	TYR A 407	9.435	-21.585	-45.473	1.00	30.46	O
ATOM	3234	HN	TYR A 407	11.551	-16.125	-44.922	1.00	0.00	H
ATOM	3235	HH	TYR A 407	8.488	-21.742	-45.240	1.00	0.00	H
ATOM	3236	HA	TYR A 407	9.637	-16.034	-42.802	1.00	29.56	H
ATOM	3237	HB1	TYR A 407	12.528	-16.954	-42.871	1.00	29.56	H
ATOM	3238	HB2	TYR A 407	11.377	-17.275	-41.551	1.00	29.56	H
ATOM	3239	HD1	TYR A 407	9.118	-18.366	-42.260	1.00	29.56	H
ATOM	3240	HD2	TYR A 407	12.744	-18.559	-44.606	1.00	29.56	H
ATOM	3241	HE1	TYR A 407	8.193	-20.302	-43.517	1.00	29.56	H
ATOM	3242	HE2	TYR A 407	11.817	-20.508	-45.868	1.00	29.56	H
ATOM	3243	N	ILE A 408	10.432	-14.453	-41.006	1.00	29.04	N
ATOM	3244	CA	ILE A 408	11.074	-14.082	-39.735	1.00	28.85	C
ATOM	3245	C	ILE A 408	11.494	-15.341	-38.970	1.00	28.90	C
ATOM	3246	O	ILE A 408	10.919	-16.417	-39.154	1.00	29.12	O
ATOM	3247	CB	ILE A 408	10.209	-13.143	-38.859	1.00	28.90	C
ATOM	3248	CG1	ILE A 408	8.884	-13.727	-38.317	1.00	29.19	C
ATOM	3249	CG2	ILE A 408	9.940	-11.835	-39.617	1.00	28.83	C

ATOM	3250	CD1 ILE A 408	9.015	-14.513	-37.004	1.00	29.25	C
ATOM	3251	HN ILE A 408	9.570	-14.983	-40.911	1.00	0.00	H
ATOM	3252	HA ILE A 408	11.986	-13.539	-39.983	1.00	29.01	H
ATOM	3253	HB ILE A 408	10.813	-12.882	-37.990	1.00	29.01	H
ATOM	3254	1HG1 ILE A 408	8.193	-12.901	-38.150	1.00	29.01	H
ATOM	3255	2HG1 ILE A 408	8.474	-14.397	-39.073	1.00	29.01	H
ATOM	3256	1HG2 ILE A 408	9.331	-11.175	-38.999	1.00	29.01	H
ATOM	3257	2HG2 ILE A 408	9.411	-12.054	-40.544	1.00	29.01	H
ATOM	3258	3HG2 ILE A 408	10.887	-11.346	-39.846	1.00	29.01	H
ATOM	3259	1HD1 ILE A 408	8.035	-14.884	-36.702	1.00	29.01	H
ATOM	3260	2HD1 ILE A 408	9.411	-13.859	-36.227	1.00	29.01	H
ATOM	3261	3HD1 ILE A 408	9.692	-15.355	-37.150	1.00	29.01	H
ATOM	3262	N LEU A 409	12.480	-15.180	-38.090	1.00	28.70	N
ATOM	3263	CA LEU A 409	12.918	-16.181	-37.123	1.00	28.69	C
ATOM	3264	C LEU A 409	12.405	-15.803	-35.724	1.00	28.72	C
ATOM	3265	O LEU A 409	12.503	-14.639	-35.333	1.00	28.54	O
ATOM	3266	CB LEU A 409	14.457	-16.280	-37.145	1.00	28.44	C
ATOM	3267	CG LEU A 409	15.110	-16.514	-38.519	1.00	28.40	C
ATOM	3268	CD1 LEU A 409	16.625	-16.636	-38.356	1.00	28.20	C
ATOM	3269	CD2 LEU A 409	14.604	-17.787	-39.189	1.00	28.67	C
ATOM	3270	HN LEU A 409	12.833	-14.237	-37.957	1.00	0.00	H
ATOM	3271	HA LEU A 409	12.499	-17.148	-37.402	1.00	28.54	H
ATOM	3272	HB1 LEU A 409	14.855	-15.348	-36.744	1.00	28.54	H
ATOM	3273	HB2 LEU A 409	14.745	-17.107	-36.496	1.00	28.54	H
ATOM	3274	HG LEU A 409	14.891	-15.663	-39.164	1.00	28.54	H
ATOM	3275	1HD1 LEU A 409	17.084	-16.802	-39.331	1.00	28.54	H
ATOM	3276	2HD1 LEU A 409	16.854	-17.476	-37.700	1.00	28.54	H

ATOM	3277	3HD1	LEU A 409	17.019	-15.718	-37.921	1.00	28.54	H
ATOM	3278	1HD2	LEU A 409	15.094	-17.909	-40.155	1.00	28.54	H
ATOM	3279	2HD2	LEU A 409	13.526	-17.718	-39.335	1.00	28.54	H
ATOM	3280	3HD2	LEU A 409	14.830	-18.646	-38.557	1.00	28.54	H
ATOM	3281	N	ARG A 410	12.060	-16.798	-34.903	1.00	28.95	N
ATOM	3282	CA	ARG A 410	11.633	-16.638	-33.499	1.00	29.00	C
ATOM	3283	C	ARG A 410	12.342	-17.667	-32.618	1.00	28.96	C
ATOM	3284	O	ARG A 410	12.143	-18.859	-32.825	1.00	29.08	O
ATOM	3285	CB	ARG A 410	10.104	-16.832	-33.447	1.00	29.32	C
ATOM	3286	CG	ARG A 410	9.463	-16.556	-32.075	1.00	29.43	C
ATOM	3287	CD	ARG A 410	9.222	-15.060	-31.837	1.00	29.22	C
ATOM	3288	NE	ARG A 410	8.336	-14.813	-30.682	1.00	29.41	N
ATOM	3289	CZ	ARG A 410	7.015	-14.863	-30.656	1.00	29.65	C
ATOM	3290	NH1	ARG A 410	6.290	-15.248	-31.659	1.00	29.72	N
ATOM	3291	NH2	ARG A 410	6.388	-14.676	-29.541	1.00	29.82	N
ATOM	3292	HN	ARG A 410	11.967	-17.724	-35.318	1.00	0.00	H
ATOM	3293	HE	ARG A 410	8.762	-14.671	-29.773	1.00	0.00	H
ATOM	3294	1HH1	ARG A 410	6.741	-15.705	-32.430	1.00	0.00	H
ATOM	3295	2HH1	ARG A 410	5.372	-15.615	-31.393	1.00	0.00	H
ATOM	3296	1HH2	ARG A 410	6.952	-14.687	-28.702	1.00	0.00	H
ATOM	3297	2HH2	ARG A 410	5.451	-15.085	-29.498	1.00	0.00	H
ATOM	3298	HA	ARG A 410	11.883	-15.634	-33.156	1.00	29.32	H
ATOM	3299	HB1	ARG A 410	9.652	-16.157	-34.174	1.00	29.32	H
ATOM	3300	HB2	ARG A 410	9.884	-17.863	-33.722	1.00	29.32	H
ATOM	3301	HG1	ARG A 410	8.507	-17.078	-32.023	1.00	29.32	H
ATOM	3302	HG2	ARG A 410	10.126	-16.933	-31.296	1.00	29.32	H
ATOM	3303	HD1	ARG A 410	10.181	-14.575	-31.653	1.00	29.32	H

ATOM	3304	HD2 ARG A 410	8.763	-14.633	-32.729	1.00	29.32	H
ATOM	3305	N SER A 411	13.165	-17.241	-31.656	1.00	28.78	N
ATOM	3306	CA SER A 411	13.763	-18.166	-30.674	1.00	28.71	C
ATOM	3307	C SER A 411	12.689	-18.807	-29.784	1.00	28.96	C
ATOM	3308	O SER A 411	11.583	-18.282	-29.643	1.00	29.14	O
ATOM	3309	CB SER A 411	14.818	-17.475	-29.799	1.00	28.40	C
ATOM	3310	OG SER A 411	15.889	-16.997	-30.590	1.00	28.18	O
ATOM	3311	HN SER A 411	13.305	-16.253	-31.525	1.00	0.00	H
ATOM	3312	HG SER A 411	16.656	-17.591	-30.482	1.00	0.00	H
ATOM	3313	HA SER A 411	14.259	-18.964	-31.226	1.00	28.69	H
ATOM	3314	HB1 SER A 411	14.357	-16.636	-29.278	1.00	28.69	H
ATOM	3315	HB2 SER A 411	15.202	-18.189	-29.071	1.00	28.69	H
ATOM	3316	N GLY A 412	13.016	-19.934	-29.160	1.00	28.98	N
ATOM	3317	CA GLY A 412	12.067	-20.702	-28.365	1.00	29.24	C
ATOM	3318	C GLY A 412	12.660	-21.996	-27.815	1.00	29.23	C
ATOM	3319	O GLY A 412	13.880	-22.133	-27.698	1.00	28.98	O
ATOM	3320	HN GLY A 412	13.903	-20.379	-29.382	1.00	0.00	H
ATOM	3321	HA1 GLY A 412	11.738	-20.087	-27.527	1.00	29.11	H
ATOM	3322	HA2 GLY A 412	11.211	-20.951	-28.992	1.00	29.11	H
ATOM	3323	N LEU A 413	11.789	-22.969	-27.558	1.00	29.53	N
ATOM	3324	CA LEU A 413	12.137	-24.318	-27.113	1.00	29.59	C
ATOM	3325	C LEU A 413	11.505	-25.368	-28.032	1.00	29.95	C
ATOM	3326	O LEU A 413	10.344	-25.238	-28.415	1.00	30.22	O
ATOM	3327	CB LEU A 413	11.678	-24.547	-25.659	1.00	29.66	C
ATOM	3328	CG LEU A 413	12.202	-23.538	-24.624	1.00	29.39	C
ATOM	3329	CD1 LEU A 413	11.518	-23.746	-23.274	1.00	29.64	C
ATOM	3330	CD2 LEU A 413	13.712	-23.665	-24.417	1.00	29.11	C

ATOM	3331	HN	LEU A 413	10.806	-22.779	-27.741	1.00	0.00	H
ATOM	3332	HA	LEU A 413	13.221	-24.428	-27.155	1.00	29.64	H
ATOM	3333	HB1	LEU A 413	10.589	-24.508	-25.642	1.00	29.64	H
ATOM	3334	HB2	LEU A 413	12.011	-25.540	-25.356	1.00	29.64	H
ATOM	3335	HG	LEU A 413	11.981	-22.530	-24.976	1.00	29.64	H
ATOM	3336	1HD1	LEU A 413	11.903	-23.022	-22.556	1.00	29.64	H
ATOM	3337	2HD1	LEU A 413	11.720	-24.755	-22.915	1.00	29.64	H
ATOM	3338	3HD1	LEU A 413	10.442	-23.609	-23.386	1.00	29.64	H
ATOM	3339	1HD2	LEU A 413	14.041	-22.934	-23.678	1.00	29.64	H
ATOM	3340	2HD2	LEU A 413	14.225	-23.483	-25.361	1.00	29.64	H
ATOM	3341	3HD2	LEU A 413	13.948	-24.669	-24.064	1.00	29.64	H
ATOM	3342	N	LEU A 414	12.201	-26.486	-28.234	1.00	29.98	N
ATOM	3343	CA	LEU A 414	11.608	-27.748	-28.673	1.00	30.37	C
ATOM	3344	C	LEU A 414	11.495	-28.692	-27.469	1.00	30.54	C
ATOM	3345	O	LEU A 414	12.492	-29.215	-26.968	1.00	30.32	O
ATOM	3346	CB	LEU A 414	12.415	-28.337	-29.843	1.00	30.34	C
ATOM	3347	CG	LEU A 414	12.166	-27.599	-31.171	1.00	30.36	C
ATOM	3348	CD1	LEU A 414	13.267	-27.907	-32.186	1.00	30.22	C
ATOM	3349	CD2	LEU A 414	10.832	-27.982	-31.813	1.00	30.80	C
ATOM	3350	HN	LEU A 414	13.141	-26.525	-27.850	1.00	0.00	H
ATOM	3351	HA	LEU A 414	10.600	-27.539	-29.032	1.00	30.37	H
ATOM	3352	HB1	LEU A 414	13.476	-28.271	-29.602	1.00	30.37	H
ATOM	3353	HB2	LEU A 414	12.134	-29.383	-29.968	1.00	30.37	H
ATOM	3354	HG	LEU A 414	12.163	-26.526	-30.977	1.00	30.37	H
ATOM	3355	1HD1	LEU A 414	13.066	-27.373	-33.114	1.00	30.37	H
ATOM	3356	2HD1	LEU A 414	13.291	-28.979	-32.382	1.00	30.37	H
ATOM	3357	3HD1	LEU A 414	14.230	-27.589	-31.786	1.00	30.37	H

ATOM	3358	1HD2 LEU A 414	10.707	-27.433	-32.746	1.00	30.37	H
ATOM	3359	2HD2 LEU A 414	10.017	-27.734	-31.134	1.00	30.37	H
ATOM	3360	3HD2 LEU A 414	10.821	-29.053	-32.017	1.00	30.37	H
ATOM	3361	N LYS A 415	10.266	-28.811	-26.966	1.00	30.93	N
ATOM	3362	CA LYS A 415	9.820	-29.746	-25.929	1.00	31.15	C
ATOM	3363	C LYS A 415	9.801	-31.174	-26.492	1.00	31.47	C
ATOM	3364	O LYS A 415	9.338	-31.381	-27.614	1.00	31.77	O
ATOM	3365	CB LYS A 415	8.419	-29.274	-25.498	1.00	31.44	C
ATOM	3366	CG LYS A 415	7.795	-30.021	-24.314	1.00	31.88	C
ATOM	3367	CD LYS A 415	6.318	-29.618	-24.170	1.00	32.14	C
ATOM	3368	CE LYS A 415	5.649	-30.297	-22.969	1.00	32.69	C
ATOM	3369	NZ LYS A 415	5.777	-29.485	-21.736	1.00	32.84	N1+
ATOM	3370	HN LYS A 415	9.527	-28.344	-27.485	1.00	0.00	H
ATOM	3371	HZ1 LYS A 415	5.371	-29.935	-20.932	1.00	0.00	H
ATOM	3372	HZ2 LYS A 415	6.738	-29.237	-21.523	1.00	0.00	H
ATOM	3373	HZ3 LYS A 415	5.300	-28.584	-21.849	1.00	0.00	H
ATOM	3374	HA LYS A 415	10.499	-29.698	-25.078	1.00	31.81	H
ATOM	3375	HB1 LYS A 415	8.490	-28.220	-25.228	1.00	31.81	H
ATOM	3376	HB2 LYS A 415	7.752	-29.386	-26.352	1.00	31.81	H
ATOM	3377	HG1 LYS A 415	7.863	-31.095	-24.487	1.00	31.81	H
ATOM	3378	HG2 LYS A 415	8.331	-29.765	-23.400	1.00	31.81	H
ATOM	3379	HD1 LYS A 415	6.260	-28.537	-24.040	1.00	31.81	H
ATOM	3380	HD2 LYS A 415	5.786	-29.905	-25.077	1.00	31.81	H
ATOM	3381	HE1 LYS A 415	4.591	-30.440	-23.189	1.00	31.81	H
ATOM	3382	HE2 LYS A 415	6.120	-31.266	-22.804	1.00	31.81	H
ATOM	3383	N TYR A 416	10.211	-32.163	-25.702	1.00	31.42	N
ATOM	3384	CA TYR A 416	10.307	-33.573	-26.105	1.00	31.73	C

ATOM	3385	C	TYR A 416	10.047	-34.480	-24.895	1.00	31.90	C
ATOM	3386	O	TYR A 416	10.918	-34.631	-24.040	1.00	31.62	O
ATOM	3387	CB	TYR A 416	11.706	-33.806	-26.697	1.00	31.48	C
ATOM	3388	CG	TYR A 416	11.950	-35.166	-27.330	1.00	31.86	C
ATOM	3389	CD1	TYR A 416	11.496	-35.426	-28.638	1.00	32.12	C
ATOM	3390	CD2	TYR A 416	12.696	-36.142	-26.643	1.00	31.95	C
ATOM	3391	CE1	TYR A 416	11.835	-36.631	-29.284	1.00	32.49	C
ATOM	3392	CE2	TYR A 416	13.027	-37.355	-27.278	1.00	32.33	C
ATOM	3393	CZ	TYR A 416	12.609	-37.595	-28.605	1.00	32.61	C
ATOM	3394	OH	TYR A 416	12.942	-38.760	-29.219	1.00	33.01	O
ATOM	3395	HN	TYR A 416	10.663	-31.896	-24.832	1.00	0.00	H
ATOM	3396	HH	TYR A 416	13.212	-39.419	-28.579	1.00	0.00	H
ATOM	3397	HA	TYR A 416	9.558	-33.777	-26.870	1.00	32.04	H
ATOM	3398	HB1	TYR A 416	11.873	-33.048	-27.463	1.00	32.04	H
ATOM	3399	HB2	TYR A 416	12.432	-33.678	-25.894	1.00	32.04	H
ATOM	3400	HD1	TYR A 416	10.879	-34.690	-29.153	1.00	32.04	H
ATOM	3401	HD2	TYR A 416	13.018	-35.959	-25.618	1.00	32.04	H
ATOM	3402	HE1	TYR A 416	11.501	-36.818	-30.304	1.00	32.04	H
ATOM	3403	HE2	TYR A 416	13.606	-38.109	-26.745	1.00	32.04	H
ATOM	3404	N	ASN A 417	8.797	-34.913	-24.707	1.00	32.37	N
ATOM	3405	CA	ASN A 417	8.398	-35.716	-23.545	1.00	32.60	C
ATOM	3406	C	ASN A 417	8.552	-37.220	-23.813	1.00	32.91	C
ATOM	3407	O	ASN A 417	7.847	-37.779	-24.656	1.00	33.38	O
ATOM	3408	CB	ASN A 417	6.977	-35.330	-23.114	1.00	32.98	C
ATOM	3409	CG	ASN A 417	6.643	-35.996	-21.792	1.00	33.03	C
ATOM	3410	OD1	ASN A 417	7.339	-35.828	-20.807	1.00	32.78	O
ATOM	3411	ND2	ASN A 417	5.697	-36.900	-21.775	1.00	33.34	N

ATOM	3412	HN	ASN A 417	8.115	-34.751	-25.431	1.00	0.00	H
ATOM	3413	1HD2	ASN A 417	5.228	-37.168	-22.615	1.00	0.00	H
ATOM	3414	2HD2	ASN A 417	5.710	-37.504	-20.954	1.00	0.00	H
ATOM	3415	HA	ASN A 417	9.069	-35.460	-22.725	1.00	32.92	H
ATOM	3416	HB1	ASN A 417	6.915	-34.248	-23.000	1.00	32.92	H
ATOM	3417	HB2	ASN A 417	6.267	-35.657	-23.874	1.00	32.92	H
ATOM	3418	N	LEU A 418	9.434	-37.879	-23.062	1.00	32.67	N
ATOM	3419	CA	LEU A 418	9.832	-39.272	-23.280	1.00	32.94	C
ATOM	3420	C	LEU A 418	8.716	-40.292	-22.976	1.00	33.45	C
ATOM	3421	O	LEU A 418	8.602	-41.266	-23.722	1.00	33.83	O
ATOM	3422	CB	LEU A 418	11.102	-39.546	-22.455	1.00	32.53	C
ATOM	3423	CG	LEU A 418	12.344	-38.734	-22.875	1.00	32.07	C
ATOM	3424	CD1	LEU A 418	13.437	-38.837	-21.815	1.00	31.67	C
ATOM	3425	CD2	LEU A 418	12.925	-39.241	-24.198	1.00	32.31	C
ATOM	3426	HN	LEU A 418	9.926	-37.369	-22.330	1.00	0.00	H
ATOM	3427	HA	LEU A 418	10.095	-39.377	-24.332	1.00	32.68	H
ATOM	3428	HB1	LEU A 418	10.884	-39.314	-21.413	1.00	32.68	H
ATOM	3429	HB2	LEU A 418	11.343	-40.605	-22.549	1.00	32.68	H
ATOM	3430	HG	LEU A 418	12.061	-37.688	-22.991	1.00	32.68	H
ATOM	3431	1HD1	LEU A 418	14.305	-38.257	-22.130	1.00	32.68	H
ATOM	3432	2HD1	LEU A 418	13.724	-39.881	-21.689	1.00	32.68	H
ATOM	3433	3HD1	LEU A 418	13.064	-38.446	-20.868	1.00	32.68	H
ATOM	3434	1HD2	LEU A 418	13.799	-38.646	-24.463	1.00	32.68	H
ATOM	3435	2HD2	LEU A 418	12.174	-39.153	-24.983	1.00	32.68	H
ATOM	3436	3HD2	LEU A 418	13.216	-40.286	-24.091	1.00	32.68	H
ATOM	3437	N	SER A 419	7.728	-39.935	-22.141	1.00	33.50	N
ATOM	3438	CA	SER A 419	6.552	-40.781	-21.838	1.00	34.04	C



ATOM	3439	C	SER A 419	5.671	-41.084	-23.058	1.00	34.59	C
ATOM	3440	O	SER A 419	4.808	-41.957	-23.001	1.00	35.09	O
ATOM	3441	CB	SER A 419	5.637	-40.177	-20.751	1.00	33.95	C
ATOM	3442	OG	SER A 419	6.194	-39.091	-20.042	1.00	33.55	O
ATOM	3443	HN	SER A 419	7.941	-39.200	-21.476	1.00	0.00	H
ATOM	3444	HG	SER A 419	7.087	-39.379	-19.691	1.00	0.00	H
ATOM	3445	HA	SER A 419	6.924	-41.733	-21.459	1.00	34.12	H
ATOM	3446	HB1	SER A 419	4.721	-39.833	-21.232	1.00	34.12	H
ATOM	3447	HB2	SER A 419	5.399	-40.963	-20.034	1.00	34.12	H
ATOM	3448	N	LEU A 420	5.814	-40.320	-24.147	1.00	34.51	N
ATOM	3449	CA	LEU A 420	5.107	-40.550	-25.406	1.00	35.00	C
ATOM	3450	C	LEU A 420	5.605	-41.846	-26.064	1.00	35.44	C
ATOM	3451	O	LEU A 420	5.358	-42.082	-27.250	1.00	35.95	O
ATOM	3452	CB	LEU A 420	5.281	-39.320	-26.317	1.00	34.74	C
ATOM	3453	CG	LEU A 420	4.695	-38.006	-25.765	1.00	34.51	C
ATOM	3454	CD1	LEU A 420	5.059	-36.856	-26.704	1.00	33.93	C
ATOM	3455	CD2	LEU A 420	3.170	-38.063	-25.652	1.00	34.98	C
ATOM	3456	HN	LEU A 420	6.579	-39.654	-24.142	1.00	0.00	H
ATOM	3457	HA	LEU A 420	4.046	-40.665	-25.186	1.00	34.88	H
ATOM	3458	HC	LEU A 420	6.181	-42.563	-25.479	1.00	34.88	H
ATOM	3459	HB1	LEU A 420	6.348	-39.170	-26.481	1.00	34.88	H
ATOM	3460	HB2	LEU A 420	4.793	-39.533	-27.268	1.00	34.88	H
ATOM	3461	HG	LEU A 420	5.119	-37.811	-24.780	1.00	34.88	H
ATOM	3462	1HD1	LEU A 420	4.646	-35.925	-26.316	1.00	34.88	H
ATOM	3463	2HD1	LEU A 420	4.647	-37.051	-27.694	1.00	34.88	H
ATOM	3464	3HD1	LEU A 420	6.144	-36.771	-26.772	1.00	34.88	H
ATOM	3465	1HD2	LEU A 420	2.799	-37.117	-25.259	1.00	34.88	H

ATOM	3466	2HD2	LEU A 420	2.885	-38.872	-24.979	1.00	34.88	H
ATOM	3467	3HD2	LEU A 420	2.739	-38.241	-26.637	1.00	34.88	H
ATOM	3468	N	ILE A 424	9.238	-40.377	-30.929	1.00	34.45	N
ATOM	3469	CA	ILE A 424	8.601	-39.459	-29.981	1.00	34.27	C
ATOM	3470	C	ILE A 424	8.507	-38.057	-30.613	1.00	33.88	C
ATOM	3471	O	ILE A 424	9.183	-37.753	-31.599	1.00	33.54	O
ATOM	3472	CB	ILE A 424	9.332	-39.509	-28.610	1.00	34.01	C
ATOM	3473	CG1	ILE A 424	8.897	-40.726	-27.756	1.00	34.49	C
ATOM	3474	CG2	ILE A 424	9.106	-38.264	-27.730	1.00	33.66	C
ATOM	3475	CD1	ILE A 424	9.225	-42.106	-28.340	1.00	35.04	C
ATOM	3476	HN1	ILE A 424	10.221	-40.024	-31.163	1.00	0.00	H
ATOM	3477	HN2	ILE A 424	8.655	-40.427	-31.825	1.00	34.17	H
ATOM	3478	HA	ILE A 424	7.583	-39.812	-29.820	1.00	34.17	H
ATOM	3479	HB	ILE A 424	10.401	-39.597	-28.801	1.00	34.17	H
ATOM	3480	1HG1	ILE A 424	9.391	-40.648	-26.787	1.00	34.17	H
ATOM	3481	2HG1	ILE A 424	7.817	-40.669	-27.620	1.00	34.17	H
ATOM	3482	1HG2	ILE A 424	9.649	-38.378	-26.792	1.00	34.17	H
ATOM	3483	2HG2	ILE A 424	8.042	-38.154	-27.522	1.00	34.17	H
ATOM	3484	3HG2	ILE A 424	9.467	-37.378	-28.253	1.00	34.17	H
ATOM	3485	1HD1	ILE A 424	8.875	-42.882	-27.659	1.00	34.17	H
ATOM	3486	2HD1	ILE A 424	10.303	-42.198	-28.472	1.00	34.17	H
ATOM	3487	3HD1	ILE A 424	8.730	-42.220	-29.304	1.00	34.17	H
ATOM	3488	N	ILE A 425	7.499	-37.294	-30.185	1.00	33.98	N
ATOM	3489	CA	ILE A 425	7.091	-36.014	-30.779	1.00	33.71	C
ATOM	3490	C	ILE A 425	7.971	-34.870	-30.257	1.00	33.14	C
ATOM	3491	O	ILE A 425	8.118	-34.718	-29.044	1.00	33.01	O
ATOM	3492	CB	ILE A 425	5.590	-35.753	-30.492	1.00	33.99	C

ATOM	3493	CG1 ILE A 425	4.731	-36.969	-30.919	1.00	34.60	C
ATOM	3494	CG2 ILE A 425	5.124	-34.464	-31.185	1.00	33.68	C
ATOM	3495	CD1 ILE A 425	3.213	-36.799	-30.783	1.00	34.81	C
ATOM	3496	HN ILE A 425	7.020	-37.585	-29.348	1.00	0.00	H
ATOM	3497	HA ILE A 425	7.225	-36.081	-31.859	1.00	33.86	H
ATOM	3498	HB ILE A 425	5.472	-35.619	-29.417	1.00	33.86	H
ATOM	3499	1HG1 ILE A 425	4.950	-37.182	-31.965	1.00	33.86	H
ATOM	3500	2HG1 ILE A 425	5.028	-37.819	-30.305	1.00	33.86	H
ATOM	3501	1HG2 ILE A 425	4.068	-34.298	-30.972	1.00	33.86	H
ATOM	3502	2HG2 ILE A 425	5.266	-34.558	-32.262	1.00	33.86	H
ATOM	3503	3HG2 ILE A 425	5.706	-33.621	-30.814	1.00	33.86	H
ATOM	3504	1HD1 ILE A 425	2.714	-37.711	-31.110	1.00	33.86	H
ATOM	3505	2HD1 ILE A 425	2.884	-35.964	-31.401	1.00	33.86	H
ATOM	3506	3HD1 ILE A 425	2.961	-36.601	-29.741	1.00	33.86	H
ATOM	3507	N LEU A 426	8.415	-33.980	-31.151	1.00	32.81	N
ATOM	3508	CA LEU A 426	8.852	-32.628	-30.777	1.00	32.29	C
ATOM	3509	C LEU A 426	7.671	-31.650	-30.799	1.00	32.29	C
ATOM	3510	O LEU A 426	6.949	-31.592	-31.792	1.00	32.54	O
ATOM	3511	CB LEU A 426	9.948	-32.131	-31.733	1.00	31.95	C
ATOM	3512	CG LEU A 426	11.311	-32.820	-31.585	1.00	31.92	C
ATOM	3513	CD1 LEU A 426	12.212	-32.365	-32.729	1.00	31.80	C
ATOM	3514	CD2 LEU A 426	12.032	-32.443	-30.291	1.00	31.56	C
ATOM	3515	HN LEU A 426	8.192	-34.143	-32.127	1.00	0.00	H
ATOM	3516	HA LEU A 426	9.259	-32.660	-29.766	1.00	32.15	H
ATOM	3517	HB1 LEU A 426	9.601	-32.289	-32.754	1.00	32.15	H
ATOM	3518	HB2 LEU A 426	10.089	-31.065	-31.557	1.00	32.15	H
ATOM	3519	HG LEU A 426	11.181	-33.901	-31.630	1.00	32.14	H

ATOM	3520	1HD1	LEU A 426	13.186	-32.846	-32.639	1.00	32.14	H
ATOM	3521	2HD1	LEU A 426	12.336	-31.283	-32.686	1.00	32.14	H
ATOM	3522	3HD1	LEU A 426	11.758	-32.640	-33.681	1.00	32.14	H
ATOM	3523	1HD2	LEU A 426	12.990	-32.962	-30.244	1.00	32.14	H
ATOM	3524	2HD2	LEU A 426	11.420	-32.732	-29.436	1.00	32.14	H
ATOM	3525	3HD2	LEU A 426	12.201	-31.366	-30.269	1.00	32.14	H
ATOM	3526	N	GLN A 427	7.596	-30.751	-29.819	1.00	32.01	N
ATOM	3527	CA	GLN A 427	6.581	-29.691	-29.747	1.00	32.05	C
ATOM	3528	C	GLN A 427	7.254	-28.324	-29.546	1.00	31.59	C
ATOM	3529	O	GLN A 427	8.116	-28.184	-28.679	1.00	31.34	O
ATOM	3530	CB	GLN A 427	5.561	-30.007	-28.637	1.00	32.34	C
ATOM	3531	CG	GLN A 427	4.902	-31.389	-28.795	1.00	32.77	C
ATOM	3532	CD	GLN A 427	3.775	-31.614	-27.795	1.00	33.14	C
ATOM	3533	OE1	GLN A 427	3.917	-31.395	-26.600	1.00	33.09	O
ATOM	3534	NE2	GLN A 427	2.643	-32.127	-28.222	1.00	33.55	N
ATOM	3535	HN	GLN A 427	8.243	-30.835	-29.040	1.00	0.00	H
ATOM	3536	1HE2	GLN A 427	2.484	-32.304	-29.225	1.00	0.00	H
ATOM	3537	2HE2	GLN A 427	1.918	-32.267	-27.550	1.00	0.00	H
ATOM	3538	HA	GLN A 427	6.049	-29.668	-30.698	1.00	32.43	H
ATOM	3539	HB1	GLN A 427	6.074	-29.976	-27.676	1.00	32.43	H
ATOM	3540	HB2	GLN A 427	4.780	-29.247	-28.657	1.00	32.43	H
ATOM	3541	HG1	GLN A 427	4.496	-31.470	-29.803	1.00	32.43	H
ATOM	3542	HG2	GLN A 427	5.661	-32.157	-28.646	1.00	32.43	H
ATOM	3543	N	PHE A 428	6.965	-27.338	-30.400	1.00	31.50	N
ATOM	3544	CA	PHE A 428	7.614	-26.020	-30.342	1.00	31.09	C
ATOM	3545	C	PHE A 428	6.866	-25.024	-29.445	1.00	31.08	C
ATOM	3546	O	PHE A 428	5.677	-24.774	-29.646	1.00	31.41	O

ATOM	3547	CB	PHE A 428	7.821	-25.455	-31.750	1.00	31.02	C
ATOM	3548	CG	PHE A 428	8.544	-24.116	-31.778	1.00	30.60	C
ATOM	3549	CD1	PHE A 428	9.917	-24.045	-31.474	1.00	30.28	C
ATOM	3550	CD2	PHE A 428	7.844	-22.933	-32.087	1.00	30.54	C
ATOM	3551	CE1	PHE A 428	10.584	-22.806	-31.472	1.00	29.91	C
ATOM	3552	CE2	PHE A 428	8.512	-21.694	-32.092	1.00	30.18	C
ATOM	3553	CZ	PHE A 428	9.881	-21.629	-31.781	1.00	29.87	C
ATOM	3554	HN	PHE A 428	6.244	-27.497	-31.098	1.00	0.00	H
ATOM	3555	HA	PHE A 428	8.602	-26.167	-29.906	1.00	30.68	H
ATOM	3556	HB1	PHE A 428	8.406	-26.173	-32.325	1.00	30.68	H
ATOM	3557	HB2	PHE A 428	6.844	-25.327	-32.215	1.00	30.68	H
ATOM	3558	HD1	PHE A 428	10.467	-24.956	-31.239	1.00	30.68	H
ATOM	3559	HD2	PHE A 428	6.781	-22.977	-32.323	1.00	30.68	H
ATOM	3560	HE1	PHE A 428	11.646	-22.759	-31.231	1.00	30.68	H
ATOM	3561	HE2	PHE A 428	7.966	-20.783	-32.338	1.00	30.68	H
ATOM	3562	HZ	PHE A 428	10.396	-20.668	-31.779	1.00	30.68	H
ATOM	3563	N	ILE A 429	7.625	-24.304	-28.617	1.00	30.74	N
ATOM	3564	CA	ILE A 429	7.180	-23.154	-27.827	1.00	30.70	C
ATOM	3565	C	ILE A 429	7.976	-21.914	-28.253	1.00	30.33	C
ATOM	3566	O	ILE A 429	9.201	-21.909	-28.167	1.00	30.02	O
ATOM	3567	CB	ILE A 429	7.353	-23.469	-26.323	1.00	30.69	C
ATOM	3568	CG1	ILE A 429	6.435	-24.610	-25.817	1.00	31.13	C
ATOM	3569	CG2	ILE A 429	7.161	-22.206	-25.476	1.00	30.51	C
ATOM	3570	CD1	ILE A 429	4.926	-24.325	-25.866	1.00	31.38	C
ATOM	3571	HN	ILE A 429	8.612	-24.539	-28.561	1.00	0.00	H
ATOM	3572	HA	ILE A 429	6.123	-22.978	-28.029	1.00	30.69	H
ATOM	3573	HB	ILE A 429	8.382	-23.798	-26.180	1.00	30.69	H

ATOM	3574	1HG1	ILE A 429	6.629	-25.491	-26.428	1.00	30.69	H
ATOM	3575	2HG1	ILE A 429	6.702	-24.820	-24.781	1.00	30.69	H
ATOM	3576	1HG2	ILE A 429	7.287	-22.452	-24.422	1.00	30.69	H
ATOM	3577	2HG2	ILE A 429	6.159	-21.808	-25.638	1.00	30.69	H
ATOM	3578	3HG2	ILE A 429	7.900	-21.458	-25.765	1.00	30.69	H
ATOM	3579	1HD1	ILE A 429	4.380	-25.190	-25.489	1.00	30.69	H
ATOM	3580	2HD1	ILE A 429	4.626	-24.127	-26.895	1.00	30.69	H
ATOM	3581	3HD1	ILE A 429	4.700	-23.456	-25.248	1.00	30.69	H
ATOM	3582	N	GLU A 430	7.288	-20.835	-28.625	1.00	30.39	N
ATOM	3583	CA	GLU A 430	7.908	-19.535	-28.906	1.00	30.08	C
ATOM	3584	C	GLU A 430	8.277	-18.760	-27.627	1.00	29.90	C
ATOM	3585	O	GLU A 430	7.578	-18.840	-26.616	1.00	30.07	O
ATOM	3586	CB	GLU A 430	6.991	-18.713	-29.824	1.00	30.21	C
ATOM	3587	CG	GLU A 430	5.584	-18.406	-29.269	1.00	30.38	C
ATOM	3588	CD	GLU A 430	4.750	-17.576	-30.262	1.00	30.63	C
ATOM	3589	OE1	GLU A 430	4.931	-17.794	-31.480	1.00	30.68	O
ATOM	3590	OE2	GLU A 430	4.396	-16.433	-29.901	1.00	30.79	O
ATOM	3591	HN	GLU A 430	6.282	-20.874	-28.593	1.00	0.00	H
ATOM	3592	HA	GLU A 430	8.832	-19.725	-29.452	1.00	30.35	H
ATOM	3593	HB1	GLU A 430	7.485	-17.763	-30.026	1.00	30.35	H
ATOM	3594	HB2	GLU A 430	6.869	-19.265	-30.756	1.00	30.35	H
ATOM	3595	HG1	GLU A 430	5.068	-19.346	-29.074	1.00	30.35	H
ATOM	3596	HG2	GLU A 430	5.685	-17.847	-28.339	1.00	30.35	H
ATOM	3597	N	ILE A 431	9.330	-17.936	-27.699	1.00	29.56	N
ATOM	3598	CA	ILE A 431	9.667	-16.948	-26.660	1.00	29.38	C
ATOM	3599	C	ILE A 431	8.743	-15.723	-26.718	1.00	29.53	C
ATOM	3600	O	ILE A 431	8.392	-15.267	-27.808	1.00	29.62	O

ATOM	3601	CB	ILE A 431	11.162	-16.557	-26.752	1.00	29.00	C
ATOM	3602	CG1	ILE A 431	11.657	-15.952	-25.421	1.00	28.83	C
ATOM	3603	CG2	ILE A 431	11.480	-15.590	-27.912	1.00	28.92	C
ATOM	3604	CD1	ILE A 431	13.176	-16.067	-25.259	1.00	28.52	C
ATOM	3605	HN	ILE A 431	9.904	-17.948	-28.534	1.00	0.00	H
ATOM	3606	HA	ILE A 431	9.514	-17.427	-25.693	1.00	29.17	H
ATOM	3607	HB	ILE A 431	11.729	-17.472	-26.925	1.00	29.17	H
ATOM	3608	1HG1	ILE A 431	11.380	-14.898	-25.391	1.00	29.17	H
ATOM	3609	2HG1	ILE A 431	11.176	-16.478	-24.597	1.00	29.17	H
ATOM	3610	1HG2	ILE A 431	12.546	-15.361	-27.913	1.00	29.17	H
ATOM	3611	2HG2	ILE A 431	10.911	-14.669	-27.784	1.00	29.17	H
ATOM	3612	3HG2	ILE A 431	11.208	-16.056	-28.859	1.00	29.17	H
ATOM	3613	1HD1	ILE A 431	13.475	-15.627	-24.307	1.00	29.17	H
ATOM	3614	2HD1	ILE A 431	13.670	-15.538	-26.074	1.00	29.17	H
ATOM	3615	3HD1	ILE A 431	13.466	-17.118	-25.280	1.00	29.17	H
ATOM	3616	N	ALA A 432	8.451	-15.112	-25.568	1.00	29.57	N
ATOM	3617	CA	ALA A 432	7.614	-13.914	-25.440	1.00	29.73	C
ATOM	3618	C	ALA A 432	8.048	-12.710	-26.314	1.00	29.55	C
ATOM	3619	O	ALA A 432	9.199	-12.581	-26.733	1.00	29.25	O
ATOM	3620	CB	ALA A 432	7.552	-13.532	-23.954	1.00	29.72	C
ATOM	3621	HN	ALA A 432	8.679	-15.614	-24.716	1.00	0.00	H
ATOM	3622	HA	ALA A 432	6.605	-14.190	-25.746	1.00	29.56	H
ATOM	3623	HB1	ALA A 432	6.934	-12.642	-23.833	1.00	29.56	H
ATOM	3624	HB2	ALA A 432	8.558	-13.327	-23.589	1.00	29.56	H
ATOM	3625	HB3	ALA A 432	7.119	-14.355	-23.385	1.00	29.56	H
ATOM	3626	N	ASP A 433	7.120	-11.771	-26.516	1.00	29.73	N
ATOM	3627	CA	ASP A 433	7.316	-10.492	-27.217	1.00	29.58	C

ATOM	3628	C	ASP A 433	8.240	-9.513	-26.461	1.00	29.37	C
ATOM	3629	O	ASP A 433	8.782	-8.571	-27.044	1.00	29.27	O
ATOM	3630	CB	ASP A 433	5.942	-9.817	-27.386	1.00	29.85	C
ATOM	3631	CG	ASP A 433	5.325	-9.431	-26.032	1.00	30.11	C
ATOM	3632	OD1	ASP A 433	5.072	-10.388	-25.266	1.00	30.09	O
ATOM	3633	OD2	ASP A 433	5.645	-8.305	-25.586	1.00	30.34	O
ATOM	3634	HN	ASP A 433	6.227	-11.859	-26.035	1.00	0.00	H
ATOM	3635	HA	ASP A 433	7.738	-10.689	-28.202	1.00	29.79	H
ATOM	3636	HB1	ASP A 433	6.063	-8.916	-27.988	1.00	29.79	H
ATOM	3637	HB2	ASP A 433	5.270	-10.508	-27.896	1.00	29.79	H
ATOM	3638	N	ASN A 434	8.360	-9.683	-25.141	1.00	29.30	N
ATOM	3639	CA	ASN A 434	9.047	-8.740	-24.266	1.00	29.19	C
ATOM	3640	C	ASN A 434	10.544	-8.696	-24.638	1.00	28.85	C
ATOM	3641	O	ASN A 434	11.232	-9.709	-24.519	1.00	28.68	O
ATOM	3642	CB	ASN A 434	8.842	-9.156	-22.793	1.00	29.31	C
ATOM	3643	CG	ASN A 434	7.414	-9.377	-22.302	1.00	29.69	C
ATOM	3644	OD1	ASN A 434	7.223	-9.968	-21.249	1.00	29.84	O
ATOM	3645	ND2	ASN A 434	6.375	-8.931	-22.963	1.00	29.87	N
ATOM	3646	HN	ASN A 434	7.796	-10.411	-24.729	1.00	0.00	H
ATOM	3647	1HD2	ASN A 434	6.424	-8.600	-23.932	1.00	0.00	H
ATOM	3648	2HD2	ASN A 434	5.475	-9.282	-22.690	1.00	0.00	H
ATOM	3649	HA	ASN A 434	8.619	-7.748	-24.414	1.00	29.34	H
ATOM	3650	HB1	ASN A 434	9.385	-10.089	-22.642	1.00	29.34	H
ATOM	3651	HB2	ASN A 434	9.281	-8.375	-22.172	1.00	29.34	H
ATOM	3652	N	ARG A 435	11.042	-7.553	-25.143	1.00	30.70	N
ATOM	3653	CA	ARG A 435	12.352	-7.442	-25.836	1.00	30.41	C
ATOM	3654	C	ARG A 435	12.522	-8.508	-26.935	1.00	30.33	C



ATOM	3655	O	ARG A 435	13.543	-9.192	-27.006	1.00	30.15	O
ATOM	3656	CB	ARG A 435	13.546	-7.390	-24.849	1.00	30.20	C
ATOM	3657	CG	ARG A 435	13.652	-6.054	-24.096	1.00	30.27	C
ATOM	3658	CD	ARG A 435	14.786	-6.038	-23.057	1.00	30.09	C
ATOM	3659	NE	ARG A 435	16.146	-6.118	-23.636	1.00	29.80	N
ATOM	3660	CZ	ARG A 435	17.259	-6.313	-22.952	1.00	29.70	C
ATOM	3661	NH1	ARG A 435	18.393	-6.455	-23.565	1.00	29.45	N
ATOM	3662	NH2	ARG A 435	17.264	-6.371	-21.649	1.00	29.88	N
ATOM	3663	HN	ARG A 435	10.377	-6.805	-25.280	1.00	0.00	H
ATOM	3664	HE	ARG A 435	16.274	-6.116	-24.652	1.00	0.00	H
ATOM	3665	1HH1	ARG A 435	18.430	-6.224	-24.571	1.00	0.00	H
ATOM	3666	2HH1	ARG A 435	19.255	-6.499	-23.066	1.00	0.00	H
ATOM	3667	1HH2	ARG A 435	16.464	-6.020	-21.135	1.00	0.00	H
ATOM	3668	2HH2	ARG A 435	18.084	-6.677	-21.145	1.00	0.00	H
ATOM	3669	HA	ARG A 435	12.342	-6.480	-26.348	1.00	30.09	H
ATOM	3670	HB1	ARG A 435	13.427	-8.190	-24.119	1.00	30.09	H
ATOM	3671	HB2	ARG A 435	14.467	-7.545	-25.411	1.00	30.09	H
ATOM	3672	HG1	ARG A 435	13.834	-5.260	-24.821	1.00	30.09	H
ATOM	3673	HG2	ARG A 435	12.708	-5.869	-23.583	1.00	30.09	H
ATOM	3674	HD1	ARG A 435	14.712	-5.112	-22.486	1.00	30.09	H
ATOM	3675	HD2	ARG A 435	14.649	-6.889	-22.390	1.00	30.09	H
ATOM	3676	N	LEU A 436	11.526	-8.657	-27.810	1.00	28.55	N
ATOM	3677	CA	LEU A 436	11.640	-9.473	-29.018	1.00	28.54	C
ATOM	3678	C	LEU A 436	12.813	-8.994	-29.888	1.00	28.30	C
ATOM	3679	O	LEU A 436	12.936	-7.812	-30.198	1.00	28.26	O
ATOM	3680	CB	LEU A 436	10.307	-9.446	-29.791	1.00	28.79	C
ATOM	3681	CG	LEU A 436	10.280	-10.286	-31.080	1.00	28.94	C

ATOM	3682	CD1 LEU A 436	10.450	-11.781	-30.805	1.00	28.93	C
ATOM	3683	CD2 LEU A 436	8.944	-10.092	-31.800	1.00	29.25	C
ATOM	3684	HN LEU A 436	10.642	-8.197	-27.628	1.00	0.00	H
ATOM	3685	HA LEU A 436	11.838	-10.502	-28.716	1.00	28.69	H
ATOM	3686	HB1 LEU A 436	9.526	-9.819	-29.129	1.00	28.69	H
ATOM	3687	HB2 LEU A 436	10.093	-8.411	-30.058	1.00	28.69	H
ATOM	3688	HG LEU A 436	11.085	-9.954	-31.735	1.00	28.70	H
ATOM	3689	1HD1 LEU A 436	10.424	-12.329	-31.747	1.00	28.70	H
ATOM	3690	2HD1 LEU A 436	9.641	-12.127	-30.161	1.00	28.70	H
ATOM	3691	3HD1 LEU A 436	11.406	-11.954	-30.311	1.00	28.70	H
ATOM	3692	1HD2 LEU A 436	8.932	-10.689	-32.712	1.00	28.70	H
ATOM	3693	2HD2 LEU A 436	8.817	-9.040	-32.054	1.00	28.70	H
ATOM	3694	3HD2 LEU A 436	8.130	-10.408	-31.148	1.00	28.70	H
ATOM	3695	N THR A 437	13.595	-9.950	-30.379	1.00	28.80	N
ATOM	3696	CA THR A 437	14.648	-9.774	-31.389	1.00	28.61	C
ATOM	3697	C THR A 437	14.591	-10.953	-32.356	1.00	28.65	C
ATOM	3698	O THR A 437	13.956	-11.966	-32.047	1.00	28.76	O
ATOM	3699	CB THR A 437	16.049	-9.672	-30.754	1.00	28.36	C
ATOM	3700	OG1 THR A 437	16.340	-10.798	-29.951	1.00	28.32	O
ATOM	3701	CG2 THR A 437	16.215	-8.444	-29.866	1.00	28.33	C
ATOM	3702	HN THR A 437	13.367	-10.906	-30.152	1.00	0.00	H
ATOM	3703	HG1 THR A 437	16.567	-11.540	-30.531	1.00	0.00	H
ATOM	3704	HA THR A 437	14.449	-8.857	-31.944	1.00	28.55	H
ATOM	3705	HB THR A 437	16.787	-9.620	-31.555	1.00	28.55	H
ATOM	3706	1HG2 THR A 437	17.222	-8.430	-29.449	1.00	28.55	H
ATOM	3707	2HG2 THR A 437	15.487	-8.480	-29.055	1.00	28.55	H
ATOM	3708	3HG2 THR A 437	16.055	-7.543	-30.458	1.00	28.55	H

ATOM	3709	N	ILE A 438	15.323	-10.871	-33.473	1.00	27.92	N
ATOM	3710	CA	ILE A 438	15.451	-11.970	-34.440	1.00	27.96	C
ATOM	3711	C	ILE A 438	15.783	-13.296	-33.751	1.00	27.93	C
ATOM	3712	O	ILE A 438	16.641	-13.347	-32.868	1.00	27.78	O
ATOM	3713	CB	ILE A 438	16.486	-11.627	-35.538	1.00	27.81	C
ATOM	3714	CG1	ILE A 438	16.565	-12.770	-36.577	1.00	27.92	C
ATOM	3715	CG2	ILE A 438	17.888	-11.313	-34.977	1.00	27.59	C
ATOM	3716	CD1	ILE A 438	17.174	-12.369	-37.922	1.00	27.82	C
ATOM	3717	HN	ILE A 438	15.847	-10.028	-33.653	1.00	0.00	H
ATOM	3718	HA	ILE A 438	14.484	-12.089	-34.929	1.00	27.84	H
ATOM	3719	HB	ILE A 438	16.132	-10.736	-36.056	1.00	27.84	H
ATOM	3720	1HG1	ILE A 438	17.172	-13.571	-36.155	1.00	27.84	H
ATOM	3721	2HG1	ILE A 438	15.554	-13.135	-36.757	1.00	27.84	H
ATOM	3722	1HG2	ILE A 438	18.565	-11.081	-35.799	1.00	27.84	H
ATOM	3723	2HG2	ILE A 438	18.264	-12.178	-34.431	1.00	27.84	H
ATOM	3724	3HG2	ILE A 438	17.827	-10.457	-34.304	1.00	27.84	H
ATOM	3725	1HD1	ILE A 438	17.189	-13.233	-38.587	1.00	27.84	H
ATOM	3726	2HD1	ILE A 438	18.192	-12.012	-37.768	1.00	27.84	H
ATOM	3727	3HD1	ILE A 438	16.575	-11.576	-38.371	1.00	27.84	H
ATOM	3728	N	GLY A 439	15.112	-14.368	-34.177	1.00	28.10	N
ATOM	3729	CA	GLY A 439	15.406	-15.726	-33.741	1.00	28.11	C
ATOM	3730	C	GLY A 439	16.870	-16.076	-33.983	1.00	27.85	C
ATOM	3731	O	GLY A 439	17.353	-16.100	-35.114	1.00	27.73	O
ATOM	3732	HN	GLY A 439	14.345	-14.232	-34.827	1.00	0.00	H
ATOM	3733	HA1	GLY A 439	15.191	-15.812	-32.676	1.00	27.95	H
ATOM	3734	HA2	GLY A 439	14.777	-16.422	-34.296	1.00	27.95	H
ATOM	3735	N	SER A 440	17.580	-16.295	-32.887	1.00	42.44	N

ATOM	3736	CA	SER A 440	19.033	-16.396	-32.800	1.00	42.21	C
ATOM	3737	C	SER A 440	19.416	-17.476	-31.782	1.00	42.22	C
ATOM	3738	O	SER A 440	18.564	-17.853	-30.966	1.00	42.34	O
ATOM	3739	CB	SER A 440	19.610	-15.037	-32.418	1.00	42.01	C
ATOM	3740	OG	SER A 440	19.157	-14.633	-31.145	1.00	42.03	O
ATOM	3741	HN	SER A 440	17.090	-16.249	-32.001	1.00	0.00	H
ATOM	3742	HG	SER A 440	19.886	-14.136	-30.718	1.00	0.00	H
ATOM	3743	HA	SER A 440	19.424	-16.681	-33.777	1.00	42.21	H
ATOM	3744	HB1	SER A 440	20.698	-15.103	-32.404	1.00	42.21	H
ATOM	3745	HB2	SER A 440	19.300	-14.298	-33.157	1.00	42.21	H
ATOM	3746	N	PRO A 441	20.635	-18.048	-31.852	1.00	27.43	N
ATOM	3747	CA	PRO A 441	20.950	-19.217	-31.048	1.00	27.40	C
ATOM	3748	C	PRO A 441	20.926	-18.900	-29.550	1.00	27.28	C
ATOM	3749	O	PRO A 441	21.413	-17.858	-29.105	1.00	27.10	O
ATOM	3750	CB	PRO A 441	22.297	-19.750	-31.537	1.00	27.22	C
ATOM	3751	CG	PRO A 441	22.463	-19.121	-32.920	1.00	27.30	C
ATOM	3752	CD	PRO A 441	21.701	-17.800	-32.812	1.00	27.32	C
ATOM	3753	HA	PRO A 441	20.194	-19.977	-31.245	1.00	27.29	H
ATOM	3754	HB1	PRO A 441	23.102	-19.439	-30.871	1.00	27.29	H
ATOM	3755	HB2	PRO A 441	22.281	-20.838	-31.605	1.00	27.29	H
ATOM	3756	HG1	PRO A 441	23.515	-18.945	-33.143	1.00	27.29	H
ATOM	3757	HG2	PRO A 441	22.029	-19.758	-33.691	1.00	27.29	H
ATOM	3758	HD1	PRO A 441	22.359	-17.008	-32.455	1.00	27.29	H
ATOM	3759	HD2	PRO A 441	21.285	-17.519	-33.780	1.00	27.29	H
ATOM	3760	N	SER A 442	20.348	-19.803	-28.768	1.00	27.41	N
ATOM	3761	CA	SER A 442	19.942	-19.567	-27.377	1.00	27.34	C
ATOM	3762	C	SER A 442	20.324	-20.732	-26.458	1.00	27.40	C

ATOM	3763	O	SER A 442	20.978	-21.674	-26.888	1.00	27.55	O
ATOM	3764	CB	SER A 442	18.436	-19.250	-27.352	1.00	27.52	C
ATOM	3765	OG	SER A 442	17.650	-20.206	-28.043	1.00	27.81	O
ATOM	3766	HN	SER A 442	19.967	-20.631	-29.219	1.00	0.00	H
ATOM	3767	HG	SER A 442	17.740	-21.064	-27.623	1.00	0.00	H
ATOM	3768	HA	SER A 442	20.471	-18.682	-27.025	1.00	27.50	H
ATOM	3769	HB1	SER A 442	18.107	-19.217	-26.313	1.00	27.51	H
ATOM	3770	HB2	SER A 442	18.280	-18.275	-27.814	1.00	27.51	H
ATOM	3771	N	LYS A 443	20.030	-20.626	-25.163	1.00	27.29	N
ATOM	3772	CA	LYS A 443	20.440	-21.590	-24.132	1.00	27.31	C
ATOM	3773	C	LYS A 443	19.489	-21.507	-22.944	1.00	27.35	C
ATOM	3774	O	LYS A 443	19.059	-20.413	-22.584	1.00	27.20	O
ATOM	3775	CB	LYS A 443	21.907	-21.288	-23.770	1.00	27.03	C
ATOM	3776	CG	LYS A 443	22.463	-21.918	-22.488	1.00	26.89	C
ATOM	3777	CD	LYS A 443	23.974	-21.646	-22.417	1.00	26.60	C
ATOM	3778	CE	LYS A 443	24.557	-21.807	-21.009	1.00	26.37	C
ATOM	3779	NZ	LYS A 443	26.030	-21.700	-21.039	1.00	26.08	N1+
ATOM	3780	HN	LYS A 443	19.565	-19.778	-24.848	1.00	0.00	H
ATOM	3781	HZ1	LYS A 443	26.447	-22.624	-21.121	1.00	0.00	H
ATOM	3782	HZ2	LYS A 443	26.382	-21.071	-21.756	1.00	0.00	H
ATOM	3783	HZ3	LYS A 443	26.420	-21.388	-20.160	1.00	0.00	H
ATOM	3784	HA	LYS A 443	20.385	-22.594	-24.553	1.00	26.90	H
ATOM	3785	HB1	LYS A 443	22.525	-21.633	-24.598	1.00	26.90	H
ATOM	3786	HB2	LYS A 443	22.003	-20.207	-23.671	1.00	26.90	H
ATOM	3787	HG1	LYS A 443	21.971	-21.478	-21.621	1.00	26.90	H
ATOM	3788	HG2	LYS A 443	22.285	-22.993	-22.501	1.00	26.90	H
ATOM	3789	HD1	LYS A 443	24.482	-22.344	-23.083	1.00	26.90	H

ATOM	3790	HD2 LYS A 443	24.157	-20.625	-22.752	1.00	26.90	H
ATOM	3791	HE1 LYS A 443	24.155	-21.026	-20.364	1.00	26.90	H
ATOM	3792	HE2 LYS A 443	24.277	-22.784	-20.615	1.00	26.90	H
ATOM	3793	N ILE A 444	19.182	-22.642	-22.323	1.00	27.58	N
ATOM	3794	CA ILE A 444	18.385	-22.719	-21.089	1.00	27.62	C
ATOM	3795	C ILE A 444	19.063	-23.682	-20.113	1.00	27.48	C
ATOM	3796	O ILE A 444	19.596	-24.700	-20.544	1.00	27.53	O
ATOM	3797	CB ILE A 444	16.902	-23.058	-21.380	1.00	28.00	C
ATOM	3798	CG1 ILE A 444	16.067	-22.967	-20.080	1.00	28.08	C
ATOM	3799	CG2 ILE A 444	16.719	-24.417	-22.072	1.00	28.23	C
ATOM	3800	CD1 ILE A 444	14.549	-23.078	-20.279	1.00	28.47	C
ATOM	3801	HN ILE A 444	19.635	-23.499	-22.632	1.00	0.00	H
ATOM	3802	HA ILE A 444	18.405	-21.730	-20.631	1.00	27.87	H
ATOM	3803	HB ILE A 444	16.524	-22.295	-22.061	1.00	27.87	H
ATOM	3804	1HG1 ILE A 444	16.382	-23.774	-19.418	1.00	27.87	H
ATOM	3805	2HG1 ILE A 444	16.277	-22.007	-19.609	1.00	27.87	H
ATOM	3806	1HG2 ILE A 444	15.658	-24.596	-22.248	1.00	27.87	H
ATOM	3807	2HG2 ILE A 444	17.119	-25.206	-21.435	1.00	27.87	H
ATOM	3808	3HG2 ILE A 444	17.250	-24.415	-23.024	1.00	27.87	H
ATOM	3809	1HD1 ILE A 444	14.049	-23.003	-19.313	1.00	27.87	H
ATOM	3810	2HD1 ILE A 444	14.311	-24.038	-20.737	1.00	27.87	H
ATOM	3811	3HD1 ILE A 444	14.207	-22.272	-20.928	1.00	27.87	H
ATOM	3812	N TYR A 445	19.190	-23.295	-18.840	1.00	27.31	N
ATOM	3813	CA TYR A 445	20.089	-23.972	-17.897	1.00	27.14	C
ATOM	3814	C TYR A 445	19.654	-23.806	-16.429	1.00	27.08	C
ATOM	3815	O TYR A 445	19.313	-22.713	-15.976	1.00	27.00	O
ATOM	3816	CB TYR A 445	21.533	-23.505	-18.147	1.00	26.82	C

ATOM	3817	CG	TYR A 445	21.815	-22.020	-17.985	1.00	26.58	C
ATOM	3818	CD1	TYR A 445	22.528	-21.574	-16.862	1.00	26.32	C
ATOM	3819	CD2	TYR A 445	21.433	-21.089	-18.973	1.00	26.63	C
ATOM	3820	CE1	TYR A 445	22.873	-20.219	-16.732	1.00	26.13	C
ATOM	3821	CE2	TYR A 445	21.788	-19.730	-18.857	1.00	26.45	C
ATOM	3822	CZ	TYR A 445	22.519	-19.293	-17.733	1.00	26.21	C
ATOM	3823	OH	TYR A 445	22.879	-17.990	-17.604	1.00	26.05	O
ATOM	3824	HN	TYR A 445	18.831	-22.380	-18.577	1.00	0.00	H
ATOM	3825	HH	TYR A 445	23.598	-17.760	-18.221	1.00	0.00	H
ATOM	3826	HA	TYR A 445	20.051	-25.037	-18.125	1.00	26.64	H
ATOM	3827	HB1	TYR A 445	22.177	-24.040	-17.449	1.00	26.64	H
ATOM	3828	HB2	TYR A 445	21.795	-23.780	-19.169	1.00	26.64	H
ATOM	3829	HD1	TYR A 445	22.816	-22.283	-16.086	1.00	26.64	H
ATOM	3830	HD2	TYR A 445	20.857	-21.424	-19.836	1.00	26.64	H
ATOM	3831	HE1	TYR A 445	23.418	-19.881	-15.851	1.00	26.64	H
ATOM	3832	HE2	TYR A 445	21.499	-19.020	-19.632	1.00	26.64	H
ATOM	3833	N	ASN A 446	19.658	-24.910	-15.672	1.00	48.90	N
ATOM	3834	CA	ASN A 446	19.094	-25.023	-14.315	1.00	48.86	C
ATOM	3835	C	ASN A 446	19.984	-24.412	-13.205	1.00	48.47	C
ATOM	3836	O	ASN A 446	20.363	-25.095	-12.251	1.00	48.24	O
ATOM	3837	CB	ASN A 446	18.737	-26.503	-14.042	1.00	49.01	C
ATOM	3838	CG	ASN A 446	17.537	-27.004	-14.826	1.00	49.43	C
ATOM	3839	OD1	ASN A 446	16.602	-26.276	-15.103	1.00	49.56	O
ATOM	3840	ND2	ASN A 446	17.488	-28.277	-15.142	1.00	49.67	N
ATOM	3841	HN	ASN A 446	19.974	-25.762	-16.111	1.00	0.00	H
ATOM	3842	1HD2	ASN A 446	18.243	-28.889	-14.904	1.00	0.00	H
ATOM	3843	2HD2	ASN A 446	16.638	-28.603	-15.579	1.00	0.00	H

ATOM	3844	HA	ASN A 446	18.157	-24.465	-14.313	1.00	49.02	H
ATOM	3845	HB1	ASN A 446	19.598	-27.117	-14.304	1.00	49.02	H
ATOM	3846	HB2	ASN A 446	18.522	-26.613	-12.979	1.00	49.02	H
ATOM	3847	N	SER A 447	20.320	-23.122	-13.300	1.00	26.66	N
ATOM	3848	CA	SER A 447	21.146	-22.438	-12.292	1.00	26.31	C
ATOM	3849	C	SER A 447	20.483	-22.451	-10.914	1.00	26.35	C
ATOM	3850	O	SER A 447	19.441	-21.827	-10.715	1.00	26.61	O
ATOM	3851	CB	SER A 447	21.423	-20.979	-12.658	1.00	26.16	C
ATOM	3852	OG	SER A 447	22.041	-20.887	-13.917	1.00	26.11	O
ATOM	3853	HN	SER A 447	19.959	-22.596	-14.087	1.00	0.00	H
ATOM	3854	HG	SER A 447	21.383	-20.965	-14.616	1.00	0.00	H
ATOM	3855	HA	SER A 447	22.100	-22.960	-12.219	1.00	26.37	H
ATOM	3856	HB1	SER A 447	20.480	-20.432	-12.682	1.00	26.37	H
ATOM	3857	HB2	SER A 447	22.079	-20.541	-11.906	1.00	26.37	H
ATOM	3858	N	LEU A 448	21.168	-23.003	-9.908	1.00	26.11	N
ATOM	3859	CA	LEU A 448	20.837	-22.810	-8.487	1.00	26.08	C
ATOM	3860	C	LEU A 448	19.348	-23.088	-8.158	1.00	26.46	C
ATOM	3861	O	LEU A 448	18.684	-22.270	-7.524	1.00	26.55	O
ATOM	3862	CB	LEU A 448	21.321	-21.415	-8.024	1.00	25.87	C
ATOM	3863	CG	LEU A 448	22.781	-21.057	-8.365	1.00	25.61	C
ATOM	3864	CD1	LEU A 448	23.047	-19.604	-7.985	1.00	25.35	C
ATOM	3865	CD2	LEU A 448	23.780	-21.952	-7.631	1.00	25.44	C
ATOM	3866	HN	LEU A 448	22.026	-23.483	-10.137	1.00	0.00	H
ATOM	3867	HA	LEU A 448	21.421	-23.543	-7.929	1.00	25.93	H
ATOM	3868	HB1	LEU A 448	20.678	-20.668	-8.489	1.00	25.93	H
ATOM	3869	HB2	LEU A 448	21.211	-21.367	-6.941	1.00	25.93	H
ATOM	3870	HG	LEU A 448	22.929	-21.172	-9.439	1.00	25.93	H



ATOM	3871	1HD1	LEU A 448	24.079	-19.348	-8.225	1.00	25.93	H
ATOM	3872	2HD1	LEU A 448	22.880	-19.471	-6.916	1.00	25.93	H
ATOM	3873	3HD1	LEU A 448	22.373	-18.953	-8.542	1.00	25.93	H
ATOM	3874	1HD2	LEU A 448	24.795	-21.663	-7.902	1.00	25.93	H
ATOM	3875	2HD2	LEU A 448	23.612	-22.992	-7.912	1.00	25.93	H
ATOM	3876	3HD2	LEU A 448	23.646	-21.840	-6.555	1.00	25.93	H
ATOM	3877	N	GLY A 449	18.781	-24.152	-8.742	1.00	26.72	N
ATOM	3878	CA	GLY A 449	17.403	-24.604	-8.489	1.00	27.11	C
ATOM	3879	C	GLY A 449	16.291	-23.976	-9.343	1.00	27.46	C
ATOM	3880	O	GLY A 449	15.135	-24.330	-9.145	1.00	27.80	O
ATOM	3881	HN	GLY A 449	19.359	-24.719	-9.345	1.00	0.00	H
ATOM	3882	HA1	GLY A 449	17.375	-25.681	-8.655	1.00	27.27	H
ATOM	3883	HA2	GLY A 449	17.174	-24.391	-7.445	1.00	27.27	H
ATOM	3884	N	GLN A 450	16.608	-23.114	-10.314	1.00	27.37	N
ATOM	3885	CA	GLN A 450	15.624	-22.408	-11.156	1.00	27.66	C
ATOM	3886	C	GLN A 450	16.215	-22.161	-12.562	1.00	27.50	C
ATOM	3887	O	GLN A 450	17.385	-21.771	-12.643	1.00	27.16	O
ATOM	3888	CB	GLN A 450	15.210	-21.115	-10.416	1.00	27.78	C
ATOM	3889	CG	GLN A 450	14.780	-19.906	-11.266	1.00	27.81	C
ATOM	3890	CD	GLN A 450	13.436	-20.042	-11.966	1.00	28.20	C
ATOM	3891	OE1	GLN A 450	12.672	-20.968	-11.755	1.00	28.43	O
ATOM	3892	NE2	GLN A 450	13.119	-19.091	-12.809	1.00	28.29	N
ATOM	3893	HN	GLN A 450	17.581	-22.865	-10.440	1.00	0.00	H
ATOM	3894	1HE2	GLN A 450	13.765	-18.350	-13.000	1.00	0.00	H
ATOM	3895	2HE2	GLN A 450	12.212	-19.109	-13.265	1.00	0.00	H
ATOM	3896	HA	GLN A 450	14.743	-23.042	-11.260	1.00	27.80	H
ATOM	3897	HB1	GLN A 450	14.374	-21.368	-9.764	1.00	27.80	H

ATOM	3898	HB2 GLN A 450	16.061	-20.801	-9.811	1.00	27.80	H
ATOM	3899	HG1 GLN A 450	14.731	-19.036	-10.611	1.00	27.80	H
ATOM	3900	HG2 GLN A 450	15.541	-19.745	-12.029	1.00	27.80	H
ATOM	3901	N PRO A 451	15.478	-22.358	-13.675	1.00	27.73	N
ATOM	3902	CA PRO A 451	16.040	-22.151	-15.006	1.00	27.60	C
ATOM	3903	C PRO A 451	16.356	-20.681	-15.306	1.00	27.50	C
ATOM	3904	O PRO A 451	15.513	-19.795	-15.154	1.00	27.64	O
ATOM	3905	CB PRO A 451	15.046	-22.736	-16.012	1.00	27.91	C
ATOM	3906	CG PRO A 451	14.166	-23.658	-15.169	1.00	28.25	C
ATOM	3907	CD PRO A 451	14.169	-22.986	-13.798	1.00	28.15	C
ATOM	3908	HA PRO A 451	16.968	-22.719	-15.075	1.00	27.83	H
ATOM	3909	HB1 PRO A 451	14.451	-21.947	-16.472	1.00	27.83	H
ATOM	3910	HB2 PRO A 451	15.566	-23.299	-16.787	1.00	27.83	H
ATOM	3911	HG1 PRO A 451	13.156	-23.713	-15.575	1.00	27.83	H
ATOM	3912	HG2 PRO A 451	14.591	-24.660	-15.114	1.00	27.83	H
ATOM	3913	HD1 PRO A 451	13.380	-22.236	-13.740	1.00	27.83	H
ATOM	3914	HD2 PRO A 451	14.026	-23.726	-13.011	1.00	27.83	H
ATOM	3915	N VAL A 452	17.515	-20.472	-15.924	1.00	27.28	N
ATOM	3916	CA VAL A 452	17.921	-19.226	-16.585	1.00	27.17	C
ATOM	3917	C VAL A 452	17.888	-19.452	-18.093	1.00	27.20	C
ATOM	3918	O VAL A 452	18.285	-20.518	-18.568	1.00	27.13	O
ATOM	3919	CB VAL A 452	19.322	-18.783	-16.121	1.00	26.83	C
ATOM	3920	CG1 VAL A 452	19.739	-17.423	-16.695	1.00	26.82	C
ATOM	3921	CG2 VAL A 452	19.403	-18.657	-14.599	1.00	26.76	C
ATOM	3922	HN VAL A 452	18.123	-21.272	-16.060	1.00	0.00	H
ATOM	3923	HA VAL A 452	17.204	-18.445	-16.332	1.00	27.03	H
ATOM	3924	HB VAL A 452	20.046	-19.531	-16.445	1.00	27.03	H

ATOM	3925	1HG1 VAL A 452	20.734	-17.165	-16.333	1.00	27.03	H
ATOM	3926	2HG1 VAL A 452	19.028	-16.660	-16.377	1.00	27.03	H
ATOM	3927	3HG1 VAL A 452	19.752	-17.476	-17.784	1.00	27.03	H
ATOM	3928	1HG2 VAL A 452	20.407	-18.343	-14.313	1.00	27.03	H
ATOM	3929	2HG2 VAL A 452	19.181	-19.621	-14.142	1.00	27.03	H
ATOM	3930	3HG2 VAL A 452	18.680	-17.917	-14.256	1.00	27.03	H
ATOM	3931	N PHE A 453	17.418	-18.464	-18.848	1.00	27.32	N
ATOM	3932	CA PHE A 453	17.481	-18.426	-20.305	1.00	27.39	C
ATOM	3933	C PHE A 453	18.518	-17.397	-20.778	1.00	27.15	C
ATOM	3934	O PHE A 453	18.691	-16.342	-20.165	1.00	27.02	O
ATOM	3935	CB PHE A 453	16.084	-18.132	-20.869	1.00	27.70	C
ATOM	3936	CG PHE A 453	15.937	-18.457	-22.344	1.00	27.81	C
ATOM	3937	CD1 PHE A 453	15.575	-19.760	-22.728	1.00	28.03	C
ATOM	3938	CD2 PHE A 453	16.180	-17.485	-23.333	1.00	27.70	C
ATOM	3939	CE1 PHE A 453	15.489	-20.107	-24.088	1.00	28.15	C
ATOM	3940	CE2 PHE A 453	16.076	-17.827	-24.694	1.00	27.80	C
ATOM	3941	CZ PHE A 453	15.729	-19.136	-25.072	1.00	28.02	C
ATOM	3942	HN PHE A 453	17.135	-17.608	-18.380	1.00	0.00	H
ATOM	3943	HA PHE A 453	17.791	-19.409	-20.658	1.00	27.64	H
ATOM	3944	HB1 PHE A 453	15.358	-18.724	-20.313	1.00	27.64	H
ATOM	3945	HB2 PHE A 453	15.873	-17.072	-20.728	1.00	27.64	H
ATOM	3946	HD1 PHE A 453	15.359	-20.508	-21.965	1.00	27.64	H
ATOM	3947	HD2 PHE A 453	16.448	-16.469	-23.045	1.00	27.64	H
ATOM	3948	HE1 PHE A 453	15.237	-21.127	-24.377	1.00	27.64	H
ATOM	3949	HE2 PHE A 453	16.265	-17.074	-25.459	1.00	27.64	H
ATOM	3950	HZ PHE A 453	15.647	-19.396	-26.127	1.00	27.64	H
ATOM	3951	N TYR A 454	19.100	-17.638	-21.950	1.00	27.11	N

ATOM	3952	CA	TYR A 454	19.944	-16.706	-22.695	1.00	26.94	C
ATOM	3953	C	TYR A 454	19.599	-16.759	-24.189	1.00	27.06	C
ATOM	3954	O	TYR A 454	19.381	-17.837	-24.744	1.00	27.13	O
ATOM	3955	CB	TYR A 454	21.429	-17.005	-22.415	1.00	26.67	C
ATOM	3956	CG	TYR A 454	22.399	-16.590	-23.511	1.00	26.56	C
ATOM	3957	CD1	TYR A 454	23.106	-15.372	-23.449	1.00	26.46	C
ATOM	3958	CD2	TYR A 454	22.575	-17.439	-24.619	1.00	26.58	C
ATOM	3959	CE1	TYR A 454	24.017	-15.034	-24.473	1.00	26.38	C
ATOM	3960	CE2	TYR A 454	23.468	-17.100	-25.643	1.00	26.49	C
ATOM	3961	CZ	TYR A 454	24.214	-15.911	-25.562	1.00	26.39	C
ATOM	3962	OH	TYR A 454	25.143	-15.666	-26.522	1.00	26.32	O
ATOM	3963	HN	TYR A 454	18.900	-18.531	-22.395	1.00	0.00	H
ATOM	3964	HH	TYR A 454	25.482	-16.507	-26.837	1.00	0.00	H
ATOM	3965	HA	TYR A 454	19.731	-15.699	-22.336	1.00	26.67	H
ATOM	3966	HB1	TYR A 454	21.710	-16.481	-21.502	1.00	26.67	H
ATOM	3967	HB2	TYR A 454	21.532	-18.080	-22.265	1.00	26.67	H
ATOM	3968	HD1	TYR A 454	22.949	-14.692	-22.612	1.00	26.67	H
ATOM	3969	HD2	TYR A 454	22.011	-18.370	-24.681	1.00	26.67	H
ATOM	3970	HE1	TYR A 454	24.569	-14.095	-24.423	1.00	26.67	H
ATOM	3971	HE2	TYR A 454	23.585	-17.759	-26.504	1.00	26.67	H
ATOM	3972	N	GLN A 455	19.701	-15.618	-24.869	1.00	27.06	N
ATOM	3973	CA	GLN A 455	19.637	-15.494	-26.323	1.00	27.15	C
ATOM	3974	C	GLN A 455	20.860	-14.718	-26.822	1.00	26.94	C
ATOM	3975	O	GLN A 455	21.095	-13.594	-26.386	1.00	26.82	O
ATOM	3976	CB	GLN A 455	18.308	-14.816	-26.705	1.00	27.36	C
ATOM	3977	CG	GLN A 455	18.171	-14.571	-28.214	1.00	27.48	C
ATOM	3978	CD	GLN A 455	16.823	-13.982	-28.630	1.00	27.72	C

ATOM	3979	OE1 GLN A 455	16.031	-13.501	-27.829	1.00	27.83	O
ATOM	3980	NE2 GLN A 455	16.584	-13.846	-29.914	1.00	27.80	N
ATOM	3981	HN GLN A 455	19.973	-14.785	-24.352	1.00	0.00	H
ATOM	3982	1HE2 GLN A 455	17.261	-14.193	-30.591	1.00	0.00	H
ATOM	3983	2HE2 GLN A 455	15.667	-13.558	-30.205	1.00	0.00	H
ATOM	3984	HA GLN A 455	19.656	-16.493	-26.759	1.00	27.35	H
ATOM	3985	HB1 GLN A 455	17.487	-15.455	-26.381	1.00	27.35	H
ATOM	3986	HB2 GLN A 455	18.247	-13.857	-26.191	1.00	27.35	H
ATOM	3987	HG1 GLN A 455	18.956	-13.880	-28.521	1.00	27.35	H
ATOM	3988	HG2 GLN A 455	18.302	-15.523	-28.729	1.00	27.35	H
ATOM	3989	N ALA A 456	21.560	-15.232	-27.835	1.00	26.92	N
ATOM	3990	CA ALA A 456	22.638	-14.482	-28.467	1.00	26.76	C
ATOM	3991	C ALA A 456	22.082	-13.266	-29.225	1.00	26.83	C
ATOM	3992	O ALA A 456	21.237	-13.405	-30.113	1.00	27.02	O
ATOM	3993	CB ALA A 456	23.439	-15.415	-29.374	1.00	26.74	C
ATOM	3994	HN ALA A 456	21.343	-16.157	-28.192	1.00	0.00	H
ATOM	3995	HA ALA A 456	23.303	-14.118	-27.683	1.00	26.85	H
ATOM	3996	HB1 ALA A 456	24.246	-14.857	-29.848	1.00	26.85	H
ATOM	3997	HB2 ALA A 456	22.784	-15.828	-30.141	1.00	26.85	H
ATOM	3998	HB3 ALA A 456	23.859	-16.227	-28.781	1.00	26.85	H
ATOM	3999	N SER A 457	22.593	-12.080	-28.904	1.00	57.19	N
ATOM	4000	CA SER A 457	22.084	-10.776	-29.348	1.00	57.25	C
ATOM	4001	C SER A 457	22.418	-10.437	-30.815	1.00	57.25	C
ATOM	4002	O SER A 457	23.145	-9.493	-31.104	1.00	57.14	O
ATOM	4003	CB SER A 457	22.608	-9.713	-28.376	1.00	57.13	C
ATOM	4004	OG SER A 457	22.256	-10.059	-27.049	1.00	57.13	O
ATOM	4005	HN SER A 457	23.167	-12.049	-28.073	1.00	0.00	H

ATOM	4006	HG	SER A 457	22.183	-9.229	-26.529	1.00	0.00	H
ATOM	4007	HA	SER A 457	20.998	-10.799	-29.255	1.00	57.18	H
ATOM	4008	HB1	SER A 457	23.693	-9.652	-28.458	1.00	57.18	H
ATOM	4009	HB2	SER A 457	22.169	-8.747	-28.626	1.00	57.18	H
ATOM	4010	N	TYR A 458	21.943	-11.249	-31.762	1.00	26.89	N
ATOM	4011	CA	TYR A 458	22.236	-11.165	-33.204	1.00	26.89	C
ATOM	4012	C	TYR A 458	21.496	-10.041	-33.968	1.00	26.95	C
ATOM	4013	O	TYR A 458	21.383	-10.106	-35.191	1.00	26.95	O
ATOM	4014	CB	TYR A 458	22.029	-12.550	-33.847	1.00	27.01	C
ATOM	4015	CG	TYR A 458	23.259	-13.434	-33.823	1.00	26.91	C
ATOM	4016	CD1	TYR A 458	24.161	-13.391	-34.904	1.00	26.84	C
ATOM	4017	CD2	TYR A 458	23.505	-14.296	-32.740	1.00	26.88	C
ATOM	4018	CE1	TYR A 458	25.306	-14.211	-34.903	1.00	26.77	C
ATOM	4019	CE2	TYR A 458	24.648	-15.120	-32.736	1.00	26.80	C
ATOM	4020	CZ	TYR A 458	25.552	-15.076	-33.817	1.00	26.75	C
ATOM	4021	OH	TYR A 458	26.658	-15.866	-33.801	1.00	26.68	O
ATOM	4022	HN	TYR A 458	21.406	-12.045	-31.440	1.00	0.00	H
ATOM	4023	HH	TYR A 458	27.137	-15.798	-34.632	1.00	0.00	H
ATOM	4024	HA	TYR A 458	23.300	-10.944	-33.288	1.00	26.86	H
ATOM	4025	HB1	TYR A 458	21.230	-13.061	-33.309	1.00	26.86	H
ATOM	4026	HB2	TYR A 458	21.733	-12.404	-34.886	1.00	26.86	H
ATOM	4027	HD1	TYR A 458	23.972	-12.722	-35.743	1.00	26.86	H
ATOM	4028	HD2	TYR A 458	22.810	-14.327	-31.901	1.00	26.86	H
ATOM	4029	HE1	TYR A 458	26.002	-14.177	-35.741	1.00	26.86	H
ATOM	4030	HE2	TYR A 458	24.833	-15.791	-31.897	1.00	26.86	H
ATOM	4031	N	SER A 459	21.010	-8.994	-33.299	1.00	36.02	N
ATOM	4032	CA	SER A 459	20.677	-7.727	-33.971	1.00	36.09	C

ATOM	4033	C	SER A 459	20.798	-6.541	-33.003	1.00	36.08	C
ATOM	4034	O	SER A 459	21.832	-6.417	-32.353	1.00	35.99	O
ATOM	4035	CB	SER A 459	19.353	-7.796	-34.761	1.00	36.27	C
ATOM	4036	OG	SER A 459	18.171	-7.810	-33.982	1.00	36.38	O
ATOM	4037	HN	SER A 459	21.242	-8.931	-32.318	1.00	0.00	H
ATOM	4038	HG	SER A 459	17.454	-7.611	-34.606	1.00	0.00	H
ATOM	4039	HA	SER A 459	21.457	-7.577	-34.718	1.00	36.14	H
ATOM	4040	HB1	SER A 459	19.310	-6.927	-35.418	1.00	36.14	H
ATOM	4041	HB2	SER A 459	19.369	-8.706	-35.361	1.00	36.14	H
ATOM	4042	N	TRP A 460	19.880	-5.576	-33.060	1.00	27.19	N
ATOM	4043	CA	TRP A 460	20.076	-4.195	-32.607	1.00	27.20	C
ATOM	4044	C	TRP A 460	20.078	-3.988	-31.082	1.00	27.19	C
ATOM	4045	O	TRP A 460	20.686	-3.028	-30.619	1.00	27.14	O
ATOM	4046	CB	TRP A 460	19.001	-3.336	-33.282	1.00	27.38	C
ATOM	4047	CG	TRP A 460	17.585	-3.776	-33.051	1.00	27.55	C
ATOM	4048	CD1	TRP A 460	16.830	-4.473	-33.930	1.00	27.66	C
ATOM	4049	CD2	TRP A 460	16.740	-3.570	-31.875	1.00	27.66	C
ATOM	4050	NE1	TRP A 460	15.603	-4.758	-33.363	1.00	27.84	N
ATOM	4051	CE2	TRP A 460	15.489	-4.219	-32.098	1.00	27.85	C
ATOM	4052	CE3	TRP A 460	16.891	-2.866	-30.659	1.00	27.63	C
ATOM	4053	CZ2	TRP A 460	14.461	-4.217	-31.144	1.00	28.01	C
ATOM	4054	CZ3	TRP A 460	15.861	-2.843	-29.701	1.00	27.79	C
ATOM	4055	CH2	TRP A 460	14.653	-3.525	-29.934	1.00	27.98	C
ATOM	4056	HN	TRP A 460	19.040	-5.767	-33.587	1.00	0.00	H
ATOM	4057	HE1	TRP A 460	14.892	-5.302	-33.828	1.00	0.00	H
ATOM	4058	HA	TRP A 460	21.043	-3.862	-32.983	1.00	27.58	H
ATOM	4059	HB1	TRP A 460	19.101	-2.317	-32.908	1.00	27.58	H

ATOM	4060	HB2 TRP A 460	19.186	-3.349	-34.356	1.00	27.58	H
ATOM	4061	HD1 TRP A 460	17.142	-4.765	-34.933	1.00	27.58	H
ATOM	4062	HE3 TRP A 460	17.820	-2.332	-30.460	1.00	27.58	H
ATOM	4063	HZ2 TRP A 460	13.527	-4.744	-31.337	1.00	27.58	H
ATOM	4064	HZ3 TRP A 460	16.000	-2.292	-28.771	1.00	27.58	H
ATOM	4065	HH2 TRP A 460	13.867	-3.517	-29.179	1.00	27.58	H
ATOM	4066	N ASP A 461	19.457	-4.875	-30.302	1.00	27.26	N
ATOM	4067	CA ASP A 461	19.566	-4.928	-28.832	1.00	27.24	C
ATOM	4068	C ASP A 461	20.871	-5.653	-28.449	1.00	27.02	C
ATOM	4069	O ASP A 461	20.862	-6.870	-28.265	1.00	26.96	O
ATOM	4070	CB ASP A 461	18.299	-5.613	-28.265	1.00	27.40	C
ATOM	4071	CG ASP A 461	18.248	-5.793	-26.737	1.00	27.43	C
ATOM	4072	OD1 ASP A 461	19.117	-5.276	-26.004	1.00	27.29	O
ATOM	4073	OD2 ASP A 461	17.266	-6.389	-26.226	1.00	27.62	O
ATOM	4074	HN ASP A 461	18.995	-5.644	-30.756	1.00	0.00	H
ATOM	4075	HA ASP A 461	19.610	-3.908	-28.450	1.00	27.28	H
ATOM	4076	HB1 ASP A 461	17.438	-5.013	-28.558	1.00	27.28	H
ATOM	4077	HB2 ASP A 461	18.225	-6.601	-28.719	1.00	27.28	H
ATOM	4078	N THR A 462	22.026	-4.993	-28.635	1.00	26.91	N
ATOM	4079	CA THR A 462	23.347	-5.671	-28.668	1.00	26.71	C
ATOM	4080	C THR A 462	23.848	-6.126	-27.296	1.00	26.62	C
ATOM	4081	O THR A 462	24.853	-6.842	-27.204	1.00	26.44	O
ATOM	4082	CB THR A 462	24.438	-4.816	-29.335	1.00	26.65	C
ATOM	4083	OG1 THR A 462	24.910	-3.772	-28.515	1.00	26.72	O
ATOM	4084	CG2 THR A 462	23.978	-4.224	-30.662	1.00	26.73	C
ATOM	4085	HN THR A 462	21.989	-4.007	-28.885	1.00	0.00	H
ATOM	4086	HG1 THR A 462	25.388	-4.172	-27.776	1.00	0.00	H



ATOM	4087	HA	THR A 462	23.229	-6.567	-29.277	1.00	26.68	H
ATOM	4088	HB	THR A 462	25.283	-5.472	-29.546	1.00	26.68	H
ATOM	4089	1HG2	THR A 462	24.783	-3.629	-31.094	1.00	26.68	H
ATOM	4090	2HG2	THR A 462	23.107	-3.590	-30.495	1.00	26.68	H
ATOM	4091	3HG2	THR A 462	23.714	-5.029	-31.348	1.00	26.68	H
ATOM	4092	N	MET A 463	23.191	-5.654	-26.236	1.00	26.74	N
ATOM	4093	CA	MET A 463	23.445	-6.013	-24.842	1.00	26.67	C
ATOM	4094	C	MET A 463	23.123	-7.489	-24.591	1.00	26.61	C
ATOM	4095	O	MET A 463	22.294	-8.077	-25.286	1.00	26.70	O
ATOM	4096	CB	MET A 463	22.605	-5.113	-23.917	1.00	26.86	C
ATOM	4097	CG	MET A 463	22.806	-3.613	-24.183	1.00	26.94	C
ATOM	4098	SD	MET A 463	24.529	-3.038	-24.209	1.00	26.74	S
ATOM	4099	CE	MET A 463	24.994	-3.363	-22.491	1.00	26.56	C
ATOM	4100	HN	MET A 463	22.361	-5.113	-26.429	1.00	0.00	H
ATOM	4101	HA	MET A 463	24.500	-5.845	-24.626	1.00	26.73	H
ATOM	4102	HB1	MET A 463	21.552	-5.352	-24.064	1.00	26.73	H
ATOM	4103	HB2	MET A 463	22.884	-5.322	-22.884	1.00	26.73	H
ATOM	4104	HG1	MET A 463	22.362	-3.383	-25.152	1.00	26.73	H
ATOM	4105	HG2	MET A 463	22.282	-3.062	-23.402	1.00	26.73	H
ATOM	4106	HE1	MET A 463	26.031	-3.066	-22.332	1.00	26.73	H
ATOM	4107	HE2	MET A 463	24.885	-4.427	-22.280	1.00	26.73	H
ATOM	4108	HE3	MET A 463	24.347	-2.793	-21.825	1.00	26.73	H
ATOM	4109	N	ILE A 464	23.755	-8.113	-23.593	1.00	54.73	N
ATOM	4110	CA	ILE A 464	23.518	-9.533	-23.294	1.00	54.68	C
ATOM	4111	C	ILE A 464	22.059	-9.792	-22.871	1.00	54.89	C
ATOM	4112	O	ILE A 464	21.601	-9.360	-21.812	1.00	55.00	O
ATOM	4113	CB	ILE A 464	24.561	-10.088	-22.299	1.00	54.48	C

ATOM	4114	CG1 ILE A 464	24.378	-11.617	-22.164	1.00	54.44	C
ATOM	4115	CG2 ILE A 464	24.552	-9.373	-20.933	1.00	54.53	C
ATOM	4116	CD1 ILE A 464	25.534	-12.326	-21.448	1.00	54.22	C
ATOM	4117	HN ILE A 464	24.461	-7.605	-23.069	1.00	0.00	H
ATOM	4118	HA ILE A 464	23.667	-10.073	-24.229	1.00	54.62	H
ATOM	4119	HB ILE A 464	25.544	-9.922	-22.740	1.00	54.62	H
ATOM	4120	1HG1 ILE A 464	23.462	-11.804	-21.603	1.00	54.62	H
ATOM	4121	2HG1 ILE A 464	24.284	-12.040	-23.164	1.00	54.62	H
ATOM	4122	1HG2 ILE A 464	25.310	-9.815	-20.286	1.00	54.62	H
ATOM	4123	2HG2 ILE A 464	23.571	-9.483	-20.471	1.00	54.62	H
ATOM	4124	3HG2 ILE A 464	24.769	-8.314	-21.075	1.00	54.62	H
ATOM	4125	1HD1 ILE A 464	25.328	-13.395	-21.395	1.00	54.62	H
ATOM	4126	2HD1 ILE A 464	25.637	-11.926	-20.439	1.00	54.62	H
ATOM	4127	3HD1 ILE A 464	26.459	-12.162	-22.000	1.00	54.62	H
ATOM	4128	N LYS A 465	21.324	-10.557	-23.685	1.00	26.70	N
ATOM	4129	CA LYS A 465	19.965	-11.004	-23.362	1.00	26.91	C
ATOM	4130	C LYS A 465	20.021	-12.295	-22.544	1.00	26.86	C
ATOM	4131	O LYS A 465	20.094	-13.389	-23.097	1.00	26.83	O
ATOM	4132	CB LYS A 465	19.143	-11.166	-24.647	1.00	27.06	C
ATOM	4133	CG LYS A 465	18.958	-9.846	-25.414	1.00	27.19	C
ATOM	4134	CD LYS A 465	18.036	-10.048	-26.621	1.00	27.39	C
ATOM	4135	CE LYS A 465	16.576	-10.145	-26.167	1.00	27.64	C
ATOM	4136	NZ LYS A 465	15.732	-10.797	-27.187	1.00	27.83	N1+
ATOM	4137	HN LYS A 465	21.719	-10.837	-24.575	1.00	0.00	H
ATOM	4138	HZ1 LYS A 465	15.982	-10.487	-28.122	1.00	0.00	H
ATOM	4139	HZ2 LYS A 465	15.824	-11.811	-27.177	1.00	0.00	H
ATOM	4140	HZ3 LYS A 465	14.760	-10.538	-27.037	1.00	0.00	H

ATOM	4141	HA	LYS A 465	19.491	-10.236	-22.751	1.00	27.16	H
ATOM	4142	HB1	LYS A 465	19.653	-11.877	-25.298	1.00	27.16	H
ATOM	4143	HB2	LYS A 465	18.159	-11.555	-24.383	1.00	27.16	H
ATOM	4144	HG1	LYS A 465	18.518	-9.103	-24.748	1.00	27.16	H
ATOM	4145	HG2	LYS A 465	19.930	-9.494	-25.761	1.00	27.16	H
ATOM	4146	HD1	LYS A 465	18.145	-9.204	-27.302	1.00	27.16	H
ATOM	4147	HD2	LYS A 465	18.314	-10.968	-27.135	1.00	27.16	H
ATOM	4148	HE1	LYS A 465	16.530	-10.726	-25.246	1.00	27.16	H
ATOM	4149	HE2	LYS A 465	16.196	-9.140	-25.983	1.00	27.16	H
ATOM	4150	N	LEU A 466	19.926	-12.165	-21.222	1.00	26.86	N
ATOM	4151	CA	LEU A 466	19.771	-13.278	-20.276	1.00	26.84	C
ATOM	4152	C	LEU A 466	18.744	-12.944	-19.185	1.00	27.00	C
ATOM	4153	O	LEU A 466	18.462	-11.769	-18.959	1.00	27.10	O
ATOM	4154	CB	LEU A 466	21.144	-13.706	-19.709	1.00	26.55	C
ATOM	4155	CG	LEU A 466	21.687	-12.914	-18.499	1.00	26.47	C
ATOM	4156	CD1	LEU A 466	23.035	-13.501	-18.074	1.00	26.18	C
ATOM	4157	CD2	LEU A 466	21.903	-11.426	-18.774	1.00	26.53	C
ATOM	4158	HN	LEU A 466	19.902	-11.228	-20.845	1.00	0.00	H
ATOM	4159	HA	LEU A 466	19.378	-14.125	-20.838	1.00	26.69	H
ATOM	4160	HB1	LEU A 466	21.063	-14.750	-19.407	1.00	26.69	H
ATOM	4161	HB2	LEU A 466	21.873	-13.615	-20.514	1.00	26.69	H
ATOM	4162	HG	LEU A 466	20.985	-13.017	-17.671	1.00	26.69	H
ATOM	4163	1HD1	LEU A 466	23.421	-12.944	-17.220	1.00	26.69	H
ATOM	4164	2HD1	LEU A 466	23.740	-13.430	-18.902	1.00	26.69	H
ATOM	4165	3HD1	LEU A 466	22.905	-14.547	-17.796	1.00	26.69	H
ATOM	4166	1HD2	LEU A 466	22.285	-10.942	-17.875	1.00	26.69	H
ATOM	4167	2HD2	LEU A 466	20.956	-10.967	-19.059	1.00	26.69	H

ATOM	4168	3HD2 LEU A 466	22.622	-11.306	-19.584	1.00	26.69	H
ATOM	4169	N GLY A 467	18.201	-13.947	-18.498	1.00	27.06	N
ATOM	4170	CA GLY A 467	17.263	-13.753	-17.386	1.00	27.20	C
ATOM	4171	C GLY A 467	16.701	-15.063	-16.836	1.00	27.36	C
ATOM	4172	O GLY A 467	16.761	-16.093	-17.500	1.00	27.44	O
ATOM	4173	HN GLY A 467	18.392	-14.902	-18.793	1.00	0.00	H
ATOM	4174	HA1 GLY A 467	17.783	-13.234	-16.581	1.00	27.27	H
ATOM	4175	HA2 GLY A 467	16.433	-13.140	-17.737	1.00	27.27	H
ATOM	4176	N ASP A 468	16.158	-15.038	-15.620	1.00	27.42	N
ATOM	4177	CA ASP A 468	15.366	-16.158	-15.088	1.00	27.61	C
ATOM	4178	C ASP A 468	14.077	-16.373	-15.905	1.00	27.96	C
ATOM	4179	O ASP A 468	13.507	-15.413	-16.431	1.00	28.13	O
ATOM	4180	CB ASP A 468	15.066	-15.909	-13.599	1.00	27.64	C
ATOM	4181	CG ASP A 468	16.284	-16.202	-12.721	1.00	27.32	C
ATOM	4182	OD1 ASP A 468	16.769	-17.349	-12.790	1.00	27.07	O
ATOM	4183	OD2 ASP A 468	16.570	-15.445	-11.768	1.00	27.33	O
ATOM	4184	HN ASP A 468	16.061	-14.148	-15.159	1.00	0.00	H
ATOM	4185	HA ASP A 468	15.968	-17.063	-15.164	1.00	27.56	H
ATOM	4186	HB1 ASP A 468	14.777	-14.866	-13.466	1.00	27.56	H
ATOM	4187	HB2 ASP A 468	14.245	-16.556	-13.291	1.00	27.56	H
ATOM	4188	N VAL A 469	13.608	-17.621	-16.024	1.00	28.08	N
ATOM	4189	CA VAL A 469	12.295	-17.905	-16.636	1.00	28.43	C
ATOM	4190	C VAL A 469	11.166	-17.600	-15.648	1.00	28.70	C
ATOM	4191	O VAL A 469	11.154	-18.108	-14.529	1.00	28.67	O
ATOM	4192	CB VAL A 469	12.182	-19.337	-17.208	1.00	28.48	C
ATOM	4193	CG1 VAL A 469	13.321	-19.630	-18.194	1.00	28.26	C
ATOM	4194	CG2 VAL A 469	12.133	-20.456	-16.160	1.00	28.42	C

ATOM	4195	HN	VAL A 469	14.120	-18.388	-15.598	1.00	0.00	H
ATOM	4196	HA	VAL A 469	12.179	-17.218	-17.474	1.00	28.43	H
ATOM	4197	HB	VAL A 469	11.250	-19.384	-17.771	1.00	28.43	H
ATOM	4198	1HG1	VAL A 469	13.216	-20.644	-18.580	1.00	28.43	H
ATOM	4199	2HG1	VAL A 469	14.279	-19.534	-17.682	1.00	28.43	H
ATOM	4200	3HG1	VAL A 469	13.278	-18.921	-19.020	1.00	28.43	H
ATOM	4201	1HG2	VAL A 469	12.054	-21.421	-16.661	1.00	28.43	H
ATOM	4202	2HG2	VAL A 469	11.268	-20.311	-15.513	1.00	28.43	H
ATOM	4203	3HG2	VAL A 469	13.043	-20.433	-15.560	1.00	28.43	H
ATOM	4204	N	ASP A 470	10.173	-16.818	-16.063	1.00	39.49	N
ATOM	4205	CA	ASP A 470	8.910	-16.665	-15.328	1.00	39.78	C
ATOM	4206	C	ASP A 470	7.862	-17.700	-15.777	1.00	40.13	C
ATOM	4207	O	ASP A 470	6.863	-17.916	-15.092	1.00	40.29	O
ATOM	4208	CB	ASP A 470	8.352	-15.234	-15.444	1.00	39.91	C
ATOM	4209	CG	ASP A 470	9.416	-14.160	-15.680	1.00	39.59	C
ATOM	4210	OD1	ASP A 470	9.761	-13.988	-16.869	1.00	39.27	O
ATOM	4211	OD2	ASP A 470	9.451	-13.186	-14.897	1.00	39.68	O
ATOM	4212	HN	ASP A 470	10.232	-16.412	-16.993	1.00	0.00	H
ATOM	4213	HA	ASP A 470	9.121	-16.849	-14.275	1.00	39.77	H
ATOM	4214	HB1	ASP A 470	7.650	-15.208	-16.278	1.00	39.77	H
ATOM	4215	HB2	ASP A 470	7.827	-14.997	-14.519	1.00	39.77	H
ATOM	4216	N	THR A 471	8.035	-18.305	-16.959	1.00	29.72	N
ATOM	4217	CA	THR A 471	7.220	-19.432	-17.452	1.00	30.01	C
ATOM	4218	C	THR A 471	7.951	-20.164	-18.589	1.00	29.86	C
ATOM	4219	O	THR A 471	8.837	-19.582	-19.218	1.00	29.67	O
ATOM	4220	CB	THR A 471	5.803	-19.002	-17.913	1.00	30.44	C
ATOM	4221	OG1	THR A 471	5.441	-17.708	-17.480	1.00	30.39	O

ATOM	4222	CG2 THR A 471	4.748	-19.935	-17.320	1.00	30.66	C
ATOM	4223	HN THR A 471	8.834	-18.035	-17.523	1.00	0.00	H
ATOM	4224	HG1 THR A 471	5.708	-17.665	-16.547	1.00	0.00	H
ATOM	4225	HA THR A 471	7.100	-20.137	-16.629	1.00	30.11	H
ATOM	4226	HB THR A 471	5.750	-19.045	-19.001	1.00	30.11	H
ATOM	4227	1HG2 THR A 471	3.758	-19.622	-17.651	1.00	30.11	H
ATOM	4228	2HG2 THR A 471	4.796	-19.894	-16.232	1.00	30.11	H
ATOM	4229	3HG2 THR A 471	4.936	-20.956	-17.653	1.00	30.11	H
ATOM	4230	N VAL A 472	7.686	-21.466	-18.772	1.00	29.99	N
ATOM	4231	CA VAL A 472	8.402	-22.337	-19.738	1.00	29.91	C
ATOM	4232	C VAL A 472	7.494	-22.853	-20.860	1.00	30.22	C
ATOM	4233	O VAL A 472	7.849	-22.692	-22.024	1.00	30.11	O
ATOM	4234	CB VAL A 472	9.124	-23.493	-19.014	1.00	29.92	C
ATOM	4235	CG1 VAL A 472	9.828	-24.459	-19.977	1.00	29.85	C
ATOM	4236	CG2 VAL A 472	10.195	-22.941	-18.063	1.00	29.58	C
ATOM	4237	HN VAL A 472	6.951	-21.878	-18.221	1.00	0.00	H
ATOM	4238	HA VAL A 472	9.172	-21.725	-20.208	1.00	29.94	H
ATOM	4239	HB VAL A 472	8.392	-24.052	-18.431	1.00	29.94	H
ATOM	4240	1HG1 VAL A 472	10.317	-25.249	-19.407	1.00	29.94	H
ATOM	4241	2HG1 VAL A 472	10.574	-23.915	-20.557	1.00	29.94	H
ATOM	4242	3HG1 VAL A 472	9.094	-24.899	-20.652	1.00	29.94	H
ATOM	4243	1HG2 VAL A 472	10.696	-23.768	-17.560	1.00	29.94	H
ATOM	4244	2HG2 VAL A 472	9.725	-22.296	-17.321	1.00	29.94	H
ATOM	4245	3HG2 VAL A 472	10.926	-22.367	-18.632	1.00	29.94	H
ATOM	4246	N ASP A 473	6.255	-23.232	-20.532	1.00	51.41	N
ATOM	4247	CA ASP A 473	5.142	-23.327	-21.482	1.00	51.73	C
ATOM	4248	C ASP A 473	4.130	-22.195	-21.182	1.00	52.06	C

ATOM	4249	O	ASP A 473	3.421	-22.291	-20.176	1.00	52.38	O
ATOM	4250	CB	ASP A 473	4.431	-24.700	-21.402	1.00	51.95	C
ATOM	4251	CG	ASP A 473	5.237	-25.949	-21.790	1.00	51.66	C
ATOM	4252	OD1	ASP A 473	6.480	-25.913	-21.896	1.00	51.33	O
ATOM	4253	OD2	ASP A 473	4.629	-27.043	-21.839	1.00	51.80	O
ATOM	4254	HN	ASP A 473	6.017	-23.307	-19.560	1.00	0.00	H
ATOM	4255	HA	ASP A 473	5.530	-23.192	-22.491	1.00	51.79	H
ATOM	4256	HB1	ASP A 473	4.099	-24.834	-20.372	1.00	51.79	H
ATOM	4257	HB2	ASP A 473	3.564	-24.656	-22.061	1.00	51.79	H
ATOM	4258	N	PRO A 474	3.998	-21.149	-22.025	1.00	31.22	N
ATOM	4259	CA	PRO A 474	4.957	-20.696	-23.039	1.00	30.90	C
ATOM	4260	C	PRO A 474	6.233	-20.106	-22.405	1.00	30.47	C
ATOM	4261	O	PRO A 474	6.238	-19.761	-21.225	1.00	30.41	O
ATOM	4262	CB	PRO A 474	4.200	-19.625	-23.829	1.00	31.07	C
ATOM	4263	CG	PRO A 474	3.339	-18.966	-22.752	1.00	31.32	C
ATOM	4264	CD	PRO A 474	2.956	-20.143	-21.855	1.00	31.52	C
ATOM	4265	HA	PRO A 474	5.220	-21.525	-23.697	1.00	30.99	H
ATOM	4266	HB1	PRO A 474	4.887	-18.907	-24.278	1.00	30.99	H
ATOM	4267	HB2	PRO A 474	3.582	-20.073	-24.607	1.00	30.99	H
ATOM	4268	HG1	PRO A 474	3.908	-18.219	-22.198	1.00	30.99	H
ATOM	4269	HG2	PRO A 474	2.455	-18.501	-23.187	1.00	30.99	H
ATOM	4270	HD1	PRO A 474	2.908	-19.823	-20.814	1.00	30.99	H
ATOM	4271	HD2	PRO A 474	1.990	-20.547	-22.156	1.00	30.99	H
ATOM	4272	N	LEU A 475	7.292	-19.889	-23.193	1.00	30.19	N
ATOM	4273	CA	LEU A 475	8.548	-19.352	-22.668	1.00	29.79	C
ATOM	4274	C	LEU A 475	8.460	-17.831	-22.454	1.00	29.62	C
ATOM	4275	O	LEU A 475	8.470	-17.048	-23.409	1.00	29.51	O

ATOM	4276	CB	LEU A 475	9.727	-19.773	-23.562	1.00	29.57	C
ATOM	4277	CG	LEU A 475	11.075	-19.184	-23.098	1.00	29.17	C
ATOM	4278	CD1	LEU A 475	11.530	-19.709	-21.734	1.00	29.09	C
ATOM	4279	CD2	LEU A 475	12.164	-19.495	-24.117	1.00	29.00	C
ATOM	4280	HN	LEU A 475	7.242	-20.124	-24.174	1.00	0.00	H
ATOM	4281	HA	LEU A 475	8.708	-19.806	-21.690	1.00	29.49	H
ATOM	4282	HB1	LEU A 475	9.801	-20.860	-23.550	1.00	29.49	H
ATOM	4283	HB2	LEU A 475	9.531	-19.433	-24.579	1.00	29.49	H
ATOM	4284	HG	LEU A 475	10.970	-18.101	-23.030	1.00	29.49	H
ATOM	4285	1HD1	LEU A 475	12.484	-19.254	-21.469	1.00	29.49	H
ATOM	4286	2HD1	LEU A 475	11.645	-20.792	-21.781	1.00	29.49	H
ATOM	4287	3HD1	LEU A 475	10.785	-19.455	-20.980	1.00	29.49	H
ATOM	4288	1HD2	LEU A 475	13.110	-19.074	-23.778	1.00	29.49	H
ATOM	4289	2HD2	LEU A 475	11.897	-19.059	-25.080	1.00	29.49	H
ATOM	4290	3HD2	LEU A 475	12.265	-20.575	-24.224	1.00	29.49	H
ATOM	4291	N	ARG A 476	8.621	-17.405	-21.201	1.00	29.61	N
ATOM	4292	CA	ARG A 476	8.668	-15.999	-20.776	1.00	29.46	C
ATOM	4293	C	ARG A 476	9.810	-15.802	-19.775	1.00	29.09	C
ATOM	4294	O	ARG A 476	10.035	-16.637	-18.903	1.00	29.03	O
ATOM	4295	CB	ARG A 476	7.262	-15.604	-20.274	1.00	29.73	C
ATOM	4296	CG	ARG A 476	7.163	-14.381	-19.354	1.00	29.60	C
ATOM	4297	CD	ARG A 476	7.777	-13.066	-19.870	1.00	29.61	C
ATOM	4298	NE	ARG A 476	8.600	-12.473	-18.803	1.00	29.28	N
ATOM	4299	CZ	ARG A 476	8.393	-11.370	-18.118	1.00	29.29	C
ATOM	4300	NH1	ARG A 476	7.639	-10.399	-18.545	1.00	29.59	N
ATOM	4301	NH2	ARG A 476	8.920	-11.253	-16.936	1.00	29.00	N
ATOM	4302	HN	ARG A 476	8.672	-18.118	-20.474	1.00	0.00	H



ATOM	4303	HE	ARG A 476	9.198	-13.126	-18.294	1.00	0.00	H
ATOM	4304	1HH1	ARG A 476	7.356	-10.416	-19.523	1.00	0.00	H
ATOM	4305	2HH1	ARG A 476	7.552	-9.560	-18.016	1.00	0.00	H
ATOM	4306	1HH2	ARG A 476	9.345	-12.100	-16.530	1.00	0.00	H
ATOM	4307	2HH2	ARG A 476	8.623	-10.545	-16.303	1.00	0.00	H
ATOM	4308	HA	ARG A 476	8.889	-15.394	-21.655	1.00	29.39	H
ATOM	4309	HB1	ARG A 476	6.645	-15.405	-21.150	1.00	29.39	H
ATOM	4310	HB2	ARG A 476	6.857	-16.457	-19.730	1.00	29.39	H
ATOM	4311	HG1	ARG A 476	6.106	-14.198	-19.164	1.00	29.39	H
ATOM	4312	HG2	ARG A 476	7.663	-14.632	-18.418	1.00	29.39	H
ATOM	4313	HD1	ARG A 476	8.399	-13.270	-20.741	1.00	29.39	H
ATOM	4314	HD2	ARG A 476	6.981	-12.374	-20.145	1.00	29.39	H
ATOM	4315	N	VAL A 477	10.613	-14.763	-20.018	1.00	28.85	N
ATOM	4316	CA	VAL A 477	11.924	-14.529	-19.394	1.00	28.51	C
ATOM	4317	C	VAL A 477	11.989	-13.105	-18.848	1.00	28.47	C
ATOM	4318	O	VAL A 477	11.765	-12.147	-19.593	1.00	28.48	O
ATOM	4319	CB	VAL A 477	13.061	-14.764	-20.417	1.00	28.28	C
ATOM	4320	CG1	VAL A 477	14.453	-14.578	-19.799	1.00	27.96	C
ATOM	4321	CG2	VAL A 477	13.002	-16.166	-21.039	1.00	28.42	C
ATOM	4322	HN	VAL A 477	10.353	-14.131	-20.757	1.00	0.00	H
ATOM	4323	HA	VAL A 477	12.048	-15.227	-18.566	1.00	28.42	H
ATOM	4324	HB	VAL A 477	12.948	-14.035	-21.219	1.00	28.42	H
ATOM	4325	1HG1	VAL A 477	15.215	-14.754	-20.558	1.00	28.42	H
ATOM	4326	2HG1	VAL A 477	14.586	-15.286	-18.981	1.00	28.42	H
ATOM	4327	3HG1	VAL A 477	14.549	-13.561	-19.418	1.00	28.42	H
ATOM	4328	1HG2	VAL A 477	13.820	-16.283	-21.750	1.00	28.42	H
ATOM	4329	2HG2	VAL A 477	12.051	-16.295	-21.555	1.00	28.42	H

ATOM	4330	3HG2 VAL A 477	13.094	-16.917	-20.254	1.00	28.42	H
ATOM	4331	N GLN A 478	12.409	-12.939	-17.594	1.00	28.42	N
ATOM	4332	CA GLN A 478	12.701	-11.630	-17.008	1.00	28.38	C
ATOM	4333	C GLN A 478	14.114	-11.186	-17.397	1.00	28.05	C
ATOM	4334	O GLN A 478	15.071	-11.307	-16.628	1.00	27.83	O
ATOM	4335	CB GLN A 478	12.414	-11.589	-15.498	1.00	28.45	C
ATOM	4336	CG GLN A 478	12.926	-12.780	-14.676	1.00	28.17	C
ATOM	4337	CD GLN A 478	12.600	-12.608	-13.202	1.00	28.23	C
ATOM	4338	OE1 GLN A 478	13.440	-12.240	-12.394	1.00	28.04	O
ATOM	4339	NE2 GLN A 478	11.341	-12.699	-12.834	1.00	28.52	N
ATOM	4340	HN GLN A 478	12.590	-13.771	-17.037	1.00	0.00	H
ATOM	4341	1HE2 GLN A 478	10.622	-12.923	-13.530	1.00	0.00	H
ATOM	4342	2HE2 GLN A 478	11.133	-12.578	-11.863	1.00	0.00	H
ATOM	4343	HA GLN A 478	12.015	-10.922	-17.473	1.00	28.23	H
ATOM	4344	HB1 GLN A 478	12.875	-10.686	-15.097	1.00	28.23	H
ATOM	4345	HB2 GLN A 478	11.333	-11.535	-15.367	1.00	28.23	H
ATOM	4346	HG1 GLN A 478	12.455	-13.693	-15.041	1.00	28.23	H
ATOM	4347	HG2 GLN A 478	14.007	-12.856	-14.795	1.00	28.23	H
ATOM	4348	N TRP A 479	14.245	-10.732	-18.647	1.00	28.03	N
ATOM	4349	CA TRP A 479	15.504	-10.239	-19.202	1.00	27.76	C
ATOM	4350	C TRP A 479	16.131	-9.175	-18.297	1.00	27.66	C
ATOM	4351	O TRP A 479	15.516	-8.140	-18.027	1.00	27.86	O
ATOM	4352	CB TRP A 479	15.290	-9.624	-20.589	1.00	27.82	C
ATOM	4353	CG TRP A 479	14.655	-10.480	-21.637	1.00	27.93	C
ATOM	4354	CD1 TRP A 479	13.444	-10.248	-22.186	1.00	28.21	C
ATOM	4355	CD2 TRP A 479	15.197	-11.638	-22.346	1.00	27.79	C
ATOM	4356	NE1 TRP A 479	13.223	-11.134	-23.215	1.00	28.25	N

ATOM	4357	CE2 TRP A 479	14.281	-11.998	-23.379	1.00	28.00	C
ATOM	4358	CE3 TRP A 479	16.379	-12.403	-22.245	1.00	27.52	C
ATOM	4359	CZ2 TRP A 479	14.544	-13.021	-24.297	1.00	27.97	C
ATOM	4360	CZ3 TRP A 479	16.636	-13.464	-23.137	1.00	27.49	C
ATOM	4361	CH2 TRP A 479	15.730	-13.761	-24.171	1.00	27.72	C
ATOM	4362	HN TRP A 479	13.437	-10.783	-19.256	1.00	0.00	H
ATOM	4363	HE1 TRP A 479	12.414	-11.051	-23.832	1.00	0.00	H
ATOM	4364	HA TRP A 479	16.198	-11.075	-19.293	1.00	27.86	H
ATOM	4365	HB1 TRP A 479	14.660	-8.744	-20.461	1.00	27.86	H
ATOM	4366	HB2 TRP A 479	16.267	-9.320	-20.965	1.00	27.86	H
ATOM	4367	HD1 TRP A 479	12.746	-9.475	-21.863	1.00	27.86	H
ATOM	4368	HE3 TRP A 479	17.104	-12.170	-21.465	1.00	27.86	H
ATOM	4369	HZ2 TRP A 479	13.838	-13.240	-25.098	1.00	27.86	H
ATOM	4370	HZ3 TRP A 479	17.543	-14.058	-23.025	1.00	27.86	H
ATOM	4371	HH2 TRP A 479	15.949	-14.565	-24.874	1.00	27.86	H
ATOM	4372	N ARG A 480	17.423	-9.323	-17.997	1.00	27.38	N
ATOM	4373	CA ARG A 480	18.202	-8.260	-17.361	1.00	27.28	C
ATOM	4374	C ARG A 480	18.344	-7.103	-18.347	1.00	27.35	C
ATOM	4375	O ARG A 480	18.833	-7.284	-19.465	1.00	27.32	O
ATOM	4376	CB ARG A 480	19.578	-8.760	-16.886	1.00	26.96	C
ATOM	4377	CG ARG A 480	19.602	-10.100	-16.125	1.00	26.85	C
ATOM	4378	CD ARG A 480	18.531	-10.307	-15.045	1.00	26.99	C
ATOM	4379	NE ARG A 480	18.764	-9.476	-13.856	1.00	26.84	N
ATOM	4380	CZ ARG A 480	18.156	-9.603	-12.693	1.00	26.92	C
ATOM	4381	NH1 ARG A 480	17.198	-10.467	-12.496	1.00	27.17	N
ATOM	4382	NH2 ARG A 480	18.486	-8.830	-11.706	1.00	26.78	N
ATOM	4383	HN ARG A 480	17.893	-10.170	-18.300	1.00	0.00	H

ATOM	4384	HE	ARG A 480	19.579	-8.856	-13.866	1.00	0.00	H
ATOM	4385	1HH1	ARG A 480	16.963	-11.096	-13.240	1.00	0.00	H
ATOM	4386	2HH1	ARG A 480	16.833	-10.625	-11.578	1.00	0.00	H
ATOM	4387	1HH2	ARG A 480	19.139	-8.069	-11.927	1.00	0.00	H
ATOM	4388	2HH2	ARG A 480	18.040	-8.887	-10.818	1.00	0.00	H
ATOM	4389	HA	ARG A 480	17.649	-7.903	-16.492	1.00	27.08	H
ATOM	4390	HB1	ARG A 480	20.212	-8.869	-17.766	1.00	27.08	H
ATOM	4391	HB2	ARG A 480	19.997	-7.999	-16.228	1.00	27.08	H
ATOM	4392	HG1	ARG A 480	19.487	-10.897	-16.859	1.00	27.08	H
ATOM	4393	HG2	ARG A 480	20.576	-10.187	-15.643	1.00	27.08	H
ATOM	4394	HD1	ARG A 480	17.558	-10.052	-15.464	1.00	27.08	H
ATOM	4395	HD2	ARG A 480	18.535	-11.355	-14.745	1.00	27.08	H
ATOM	4396	N	ASN A 481	18.054	-5.883	-17.907	1.00	39.58	N
ATOM	4397	CA	ASN A 481	18.405	-4.664	-18.644	1.00	39.63	C
ATOM	4398	C	ASN A 481	19.880	-4.295	-18.407	1.00	39.36	C
ATOM	4399	O	ASN A 481	20.185	-3.249	-17.843	1.00	39.37	O
ATOM	4400	CB	ASN A 481	17.381	-3.558	-18.338	1.00	39.93	C
ATOM	4401	CG	ASN A 481	15.995	-3.900	-18.867	1.00	40.20	C
ATOM	4402	OD1	ASN A 481	15.818	-4.607	-19.851	1.00	40.19	O
ATOM	4403	ND2	ASN A 481	14.959	-3.418	-18.221	1.00	40.44	N
ATOM	4404	HN	ASN A 481	17.696	-5.791	-16.970	1.00	0.00	H
ATOM	4405	1HD2	ASN A 481	15.089	-2.844	-17.409	1.00	0.00	H
ATOM	4406	2HD2	ASN A 481	14.053	-3.684	-18.562	1.00	0.00	H
ATOM	4407	HA	ASN A 481	18.306	-4.899	-19.704	1.00	39.84	H
ATOM	4408	HB1	ASN A 481	17.322	-3.423	-17.258	1.00	39.84	H
ATOM	4409	HB2	ASN A 481	17.716	-2.631	-18.803	1.00	39.84	H
ATOM	4410	N	ASN A 482	20.765	-5.264	-18.670	1.00	27.02	N

ATOM	4411	CA	ASN A 482	22.193	-5.176	-18.399	1.00	26.76	C
ATOM	4412	C	ASN A 482	22.821	-4.008	-19.175	1.00	26.76	C
ATOM	4413	O	ASN A 482	22.593	-3.875	-20.378	1.00	26.82	O
ATOM	4414	CB	ASN A 482	22.844	-6.532	-18.740	1.00	26.54	C
ATOM	4415	CG	ASN A 482	24.335	-6.559	-18.440	1.00	26.27	C
ATOM	4416	OD1	ASN A 482	25.143	-5.925	-19.100	1.00	26.24	O
ATOM	4417	ND2	ASN A 482	24.755	-7.296	-17.440	1.00	26.09	N
ATOM	4418	HN	ASN A 482	20.426	-6.101	-19.126	1.00	0.00	H
ATOM	4419	1HD2	ASN A 482	24.094	-7.747	-16.838	1.00	0.00	H
ATOM	4420	2HD2	ASN A 482	25.715	-7.166	-17.171	1.00	0.00	H
ATOM	4421	HA	ASN A 482	22.328	-4.990	-17.333	1.00	26.56	H
ATOM	4422	HB1	ASN A 482	22.356	-7.310	-18.153	1.00	26.56	H
ATOM	4423	HB2	ASN A 482	22.698	-6.732	-19.802	1.00	26.56	H
ATOM	4424	N	SER A 483	23.633	-3.194	-18.499	1.00	30.82	N
ATOM	4425	CA	SER A 483	24.206	-1.961	-19.054	1.00	30.88	C
ATOM	4426	C	SER A 483	25.717	-2.041	-19.327	1.00	30.65	C
ATOM	4427	O	SER A 483	26.358	-0.996	-19.424	1.00	30.70	O
ATOM	4428	CB	SER A 483	23.839	-0.764	-18.164	1.00	31.07	C
ATOM	4429	OG	SER A 483	24.672	-0.685	-17.025	1.00	30.95	O
ATOM	4430	HN	SER A 483	23.784	-3.386	-17.512	1.00	0.00	H
ATOM	4431	HG	SER A 483	25.550	-0.433	-17.341	1.00	0.00	H
ATOM	4432	HA	SER A 483	23.722	-1.796	-20.017	1.00	30.84	H
ATOM	4433	HB1	SER A 483	23.946	0.153	-18.744	1.00	30.84	H
ATOM	4434	HB2	SER A 483	22.804	-0.870	-17.838	1.00	30.84	H
ATOM	4435	N	VAL A 484	26.322	-3.240	-19.298	1.00	26.29	N
ATOM	4436	CA	VAL A 484	27.792	-3.401	-19.234	1.00	26.09	C
ATOM	4437	C	VAL A 484	28.392	-4.503	-20.120	1.00	25.96	C

ATOM	4438	O	VAL A 484	29.519	-4.331	-20.575	1.00	25.91	O
ATOM	4439	CB	VAL A 484	28.276	-3.578	-17.780	1.00	25.92	C
ATOM	4440	CG1	VAL A 484	27.994	-2.347	-16.913	1.00	26.08	C
ATOM	4441	CG2	VAL A 484	27.683	-4.806	-17.074	1.00	25.72	C
ATOM	4442	HN	VAL A 484	25.741	-4.058	-19.142	1.00	0.00	H
ATOM	4443	HA	VAL A 484	28.218	-2.461	-19.585	1.00	26.00	H
ATOM	4444	HB	VAL A 484	29.357	-3.712	-17.812	1.00	26.00	H
ATOM	4445	1HG1	VAL A 484	28.355	-2.525	-15.900	1.00	26.00	H
ATOM	4446	2HG1	VAL A 484	26.921	-2.158	-16.888	1.00	26.00	H
ATOM	4447	3HG1	VAL A 484	28.506	-1.481	-17.333	1.00	26.00	H
ATOM	4448	1HG2	VAL A 484	28.070	-4.863	-16.057	1.00	26.00	H
ATOM	4449	2HG2	VAL A 484	27.961	-5.708	-17.619	1.00	26.00	H
ATOM	4450	3HG2	VAL A 484	26.597	-4.720	-17.045	1.00	26.00	H
ATOM	4451	N	ILE A 485	27.653	-5.558	-20.482	1.00	25.93	N
ATOM	4452	CA	ILE A 485	28.118	-6.590	-21.429	1.00	25.83	C
ATOM	4453	C	ILE A 485	27.390	-6.438	-22.773	1.00	25.99	C
ATOM	4454	O	ILE A 485	26.171	-6.586	-22.852	1.00	26.18	O
ATOM	4455	CB	ILE A 485	27.965	-8.011	-20.837	1.00	25.74	C
ATOM	4456	CG1	ILE A 485	28.742	-8.247	-19.521	1.00	25.55	C
ATOM	4457	CG2	ILE A 485	28.343	-9.100	-21.862	1.00	25.69	C
ATOM	4458	CD1	ILE A 485	30.271	-8.168	-19.617	1.00	25.41	C
ATOM	4459	HN	ILE A 485	26.713	-5.645	-20.108	1.00	0.00	H
ATOM	4460	HA	ILE A 485	29.180	-6.420	-21.608	1.00	25.79	H
ATOM	4461	HB	ILE A 485	26.908	-8.146	-20.608	1.00	25.79	H
ATOM	4462	1HG1	ILE A 485	28.414	-7.496	-18.802	1.00	25.79	H
ATOM	4463	2HG1	ILE A 485	28.482	-9.240	-19.154	1.00	25.79	H
ATOM	4464	1HG2	ILE A 485	28.223	-10.084	-21.409	1.00	25.79	H

ATOM	4465	2HG2	ILE	A 485	29.380	-8.966	-22.169	1.00	25.79	H
ATOM	4466	3HG2	ILE	A 485	27.694	-9.020	-22.734	1.00	25.79	H
ATOM	4467	1HD1	ILE	A 485	30.707	-8.350	-18.635	1.00	25.79	H
ATOM	4468	2HD1	ILE	A 485	30.563	-7.177	-19.966	1.00	25.79	H
ATOM	4469	3HD1	ILE	A 485	30.631	-8.921	-20.319	1.00	25.79	H
ATOM	4470	N	SER	A 486	28.164	-6.314	-23.855	1.00	25.92	N
ATOM	4471	CA	SER	A 486	27.695	-6.274	-25.248	1.00	26.04	C
ATOM	4472	C	SER	A 486	28.661	-7.033	-26.160	1.00	25.93	C
ATOM	4473	O	SER	A 486	29.875	-6.905	-25.994	1.00	25.79	O
ATOM	4474	CB	SER	A 486	27.566	-4.819	-25.715	1.00	26.14	C
ATOM	4475	OG	SER	A 486	27.142	-4.757	-27.067	1.00	26.27	O
ATOM	4476	HN	SER	A 486	29.161	-6.257	-23.708	1.00	0.00	H
ATOM	4477	HG	SER	A 486	27.785	-5.220	-27.619	1.00	0.00	H
ATOM	4478	HA	SER	A 486	26.715	-6.748	-25.302	1.00	26.02	H
ATOM	4479	HB1	SER	A 486	26.836	-4.307	-25.088	1.00	26.02	H
ATOM	4480	HB2	SER	A 486	28.534	-4.327	-25.622	1.00	26.02	H
ATOM	4481	N	ARG	A 487	28.136	-7.689	-27.206	1.00	26.00	N
ATOM	4482	CA	ARG	A 487	28.914	-8.449	-28.214	1.00	25.93	C
ATOM	4483	C	ARG	A 487	29.420	-7.589	-29.396	1.00	25.98	C
ATOM	4484	O	ARG	A 487	28.713	-6.634	-29.741	1.00	26.08	O
ATOM	4485	CB	ARG	A 487	28.085	-9.670	-28.680	1.00	26.02	C
ATOM	4486	CG	ARG	A 487	27.147	-9.478	-29.888	1.00	26.18	C
ATOM	4487	CD	ARG	A 487	26.108	-8.354	-29.781	1.00	26.31	C
ATOM	4488	NE	ARG	A 487	25.513	-8.047	-31.096	1.00	26.45	N
ATOM	4489	CZ	ARG	A 487	25.760	-7.007	-31.872	1.00	26.49	C
ATOM	4490	NH1	ARG	A 487	26.658	-6.110	-31.602	1.00	26.40	N
ATOM	4491	NH2	ARG	A 487	25.081	-6.808	-32.955	1.00	26.62	N

ATOM	4492	HN	ARG A 487	27.124	-7.683	-27.286	1.00	0.00	H
ATOM	4493	HE	ARG A 487	24.695	-8.588	-31.359	1.00	0.00	H
ATOM	4494	1HH1	ARG A 487	27.328	-6.265	-30.861	1.00	0.00	H
ATOM	4495	2HH1	ARG A 487	26.705	-5.297	-32.203	1.00	0.00	H
ATOM	4496	1HH2	ARG A 487	24.466	-7.528	-33.320	1.00	0.00	H
ATOM	4497	2HH2	ARG A 487	25.262	-5.967	-33.487	1.00	0.00	H
ATOM	4498	HA	ARG A 487	29.796	-8.840	-27.706	1.00	26.22	H
ATOM	4499	HB1	ARG A 487	28.788	-10.463	-28.936	1.00	26.22	H
ATOM	4500	HB2	ARG A 487	27.470	-9.987	-27.838	1.00	26.22	H
ATOM	4501	HG1	ARG A 487	27.769	-9.271	-30.759	1.00	26.22	H
ATOM	4502	HG2	ARG A 487	26.608	-10.413	-30.039	1.00	26.22	H
ATOM	4503	HD1	ARG A 487	25.318	-8.665	-29.098	1.00	26.22	H
ATOM	4504	HD2	ARG A 487	26.593	-7.458	-29.393	1.00	26.22	H
ATOM	4505	N	PRO A 488	30.507	-7.957	-30.108	1.00	25.91	N
ATOM	4506	CA	PRO A 488	30.891	-7.349	-31.392	1.00	25.97	C
ATOM	4507	C	PRO A 488	29.763	-7.421	-32.423	1.00	26.10	C
ATOM	4508	O	PRO A 488	29.118	-8.457	-32.562	1.00	26.12	O
ATOM	4509	CB	PRO A 488	32.114	-8.123	-31.904	1.00	25.88	C
ATOM	4510	CG	PRO A 488	32.098	-9.419	-31.100	1.00	25.78	C
ATOM	4511	CD	PRO A 488	31.452	-9.011	-29.778	1.00	25.79	C
ATOM	4512	HA	PRO A 488	31.166	-6.307	-31.230	1.00	25.94	H
ATOM	4513	HB1	PRO A 488	32.023	-8.328	-32.971	1.00	25.94	H
ATOM	4514	HB2	PRO A 488	33.031	-7.564	-31.718	1.00	25.94	H
ATOM	4515	HG1	PRO A 488	31.505	-10.182	-31.604	1.00	25.94	H
ATOM	4516	HG2	PRO A 488	33.110	-9.791	-30.940	1.00	25.94	H
ATOM	4517	HD1	PRO A 488	30.934	-9.859	-29.331	1.00	25.94	H
ATOM	4518	HD2	PRO A 488	32.207	-8.640	-29.085	1.00	25.94	H



ATOM	4519	N	GLY A 489	29.500	-6.314	-33.118	1.00	26.20	N
ATOM	4520	CA	GLY A 489	28.614	-6.288	-34.288	1.00	26.31	C
ATOM	4521	C	GLY A 489	29.406	-6.298	-35.590	1.00	26.32	C
ATOM	4522	O	GLY A 489	30.530	-6.783	-35.617	1.00	26.24	O
ATOM	4523	HN	GLY A 489	30.129	-5.528	-32.997	1.00	0.00	H
ATOM	4524	HA1	GLY A 489	27.966	-7.164	-34.261	1.00	26.27	H
ATOM	4525	HA2	GLY A 489	28.005	-5.385	-34.251	1.00	26.27	H
ATOM	4526	N	GLN A 490	28.922	-5.534	-36.564	1.00	26.42	N
ATOM	4527	CA	GLN A 490	29.726	-4.814	-37.552	1.00	26.44	C
ATOM	4528	C	GLN A 490	29.271	-3.339	-37.549	1.00	26.54	C
ATOM	4529	O	GLN A 490	28.921	-2.813	-36.492	1.00	26.57	O
ATOM	4530	CB	GLN A 490	29.648	-5.525	-38.919	1.00	26.48	C
ATOM	4531	CG	GLN A 490	30.257	-6.936	-38.840	1.00	26.41	C
ATOM	4532	CD	GLN A 490	30.789	-7.450	-40.171	1.00	26.47	C
ATOM	4533	OE1	GLN A 490	30.216	-7.275	-41.233	1.00	26.55	O
ATOM	4534	NE2	GLN A 490	31.918	-8.122	-40.164	1.00	26.45	N
ATOM	4535	HN	GLN A 490	27.972	-5.177	-36.465	1.00	0.00	H
ATOM	4536	1HE2	GLN A 490	32.434	-8.213	-39.304	1.00	0.00	H
ATOM	4537	2HE2	GLN A 490	32.272	-8.410	-41.055	1.00	0.00	H
ATOM	4538	HA	GLN A 490	30.764	-4.843	-37.221	1.00	26.48	H
ATOM	4539	HB1	GLN A 490	28.604	-5.604	-39.221	1.00	26.48	H
ATOM	4540	HB2	GLN A 490	30.197	-4.940	-39.657	1.00	26.48	H
ATOM	4541	HG1	GLN A 490	31.080	-6.916	-38.126	1.00	26.48	H
ATOM	4542	HG2	GLN A 490	29.487	-7.623	-38.489	1.00	26.48	H
ATOM	4543	N	SER A 491	29.408	-2.608	-38.657	1.00	35.03	N
ATOM	4544	CA	SER A 491	29.243	-1.145	-38.700	1.00	35.13	C
ATOM	4545	C	SER A 491	27.787	-0.633	-38.693	1.00	35.22	C

ATOM	4546	O	SER A 491	27.565	0.519	-39.059	1.00	35.29	O
ATOM	4547	CB	SER A 491	30.008	-0.592	-39.907	1.00	35.18	C
ATOM	4548	OG	SER A 491	29.399	-1.019	-41.111	1.00	35.16	O
ATOM	4549	HN	SER A 491	29.699	-3.063	-39.510	1.00	0.00	H
ATOM	4550	HG	SER A 491	28.564	-0.541	-41.192	1.00	0.00	H
ATOM	4551	HA	SER A 491	29.725	-0.745	-37.808	1.00	35.17	H
ATOM	4552	HB1	SER A 491	30.003	0.497	-39.868	1.00	35.17	H
ATOM	4553	HB2	SER A 491	31.036	-0.952	-39.877	1.00	35.17	H
ATOM	4554	N	GLN A 492	26.794	-1.485	-38.413	1.00	26.80	N
ATOM	4555	CA	GLN A 492	25.361	-1.137	-38.420	1.00	26.91	C
ATOM	4556	C	GLN A 492	24.715	-1.346	-37.036	1.00	26.93	C
ATOM	4557	O	GLN A 492	24.024	-0.459	-36.542	1.00	27.05	O
ATOM	4558	CB	GLN A 492	24.688	-1.946	-39.546	1.00	26.94	C
ATOM	4559	CG	GLN A 492	23.149	-1.946	-39.565	1.00	27.06	C
ATOM	4560	CD	GLN A 492	22.488	-0.656	-40.040	1.00	27.18	C
ATOM	4561	OE1	GLN A 492	23.092	0.389	-40.211	1.00	27.18	O
ATOM	4562	NE2	GLN A 492	21.204	-0.705	-40.324	1.00	27.28	N
ATOM	4563	HN	GLN A 492	27.040	-2.430	-38.149	1.00	0.00	H
ATOM	4564	1HE2	GLN A 492	20.720	-1.590	-40.282	1.00	0.00	H
ATOM	4565	2HE2	GLN A 492	20.749	0.175	-40.493	1.00	0.00	H
ATOM	4566	HA	GLN A 492	25.276	-0.080	-38.672	1.00	27.04	H
ATOM	4567	HB1	GLN A 492	25.031	-1.539	-40.497	1.00	27.04	H
ATOM	4568	HB2	GLN A 492	25.018	-2.981	-39.453	1.00	27.04	H
ATOM	4569	HG1	GLN A 492	22.823	-2.750	-40.225	1.00	27.04	H
ATOM	4570	HG2	GLN A 492	22.803	-2.145	-38.551	1.00	27.04	H
ATOM	4571	N	CYS A 493	25.108	-2.403	-36.321	1.00	26.82	N
ATOM	4572	CA	CYS A 493	24.735	-2.694	-34.934	1.00	26.83	C

ATOM	4573	C	CYS A 493	25.978	-3.091	-34.091	1.00	26.69	C
ATOM	4574	O	CYS A 493	26.039	-4.225	-33.597	1.00	26.61	O
ATOM	4575	CB	CYS A 493	23.617	-3.757	-34.951	1.00	26.88	C
ATOM	4576	SG	CYS A 493	22.037	-3.172	-35.630	1.00	27.07	S
ATOM	4577	HN	CYS A 493	25.664	-3.112	-36.796	1.00	0.00	H
ATOM	4578	HA	CYS A 493	24.320	-1.783	-34.504	1.00	26.82	H
ATOM	4579	HB1	CYS A 493	23.956	-4.599	-35.554	1.00	26.82	H
ATOM	4580	HB2	CYS A 493	23.446	-4.088	-33.927	1.00	26.82	H
ATOM	4581	N	PRO A 494	26.996	-2.210	-33.938	1.00	26.66	N
ATOM	4582	CA	PRO A 494	28.217	-2.450	-33.145	1.00	26.53	C
ATOM	4583	C	PRO A 494	27.943	-2.540	-31.629	1.00	26.51	C
ATOM	4584	O	PRO A 494	26.814	-2.340	-31.185	1.00	26.63	O
ATOM	4585	CB	PRO A 494	29.138	-1.266	-33.471	1.00	26.57	C
ATOM	4586	CG	PRO A 494	28.155	-0.132	-33.746	1.00	26.74	C
ATOM	4587	CD	PRO A 494	27.021	-0.852	-34.469	1.00	26.78	C
ATOM	4588	HA	PRO A 494	28.687	-3.374	-33.481	1.00	26.63	H
ATOM	4589	HB1	PRO A 494	29.784	-1.028	-32.626	1.00	26.63	H
ATOM	4590	HB2	PRO A 494	29.750	-1.476	-34.349	1.00	26.63	H
ATOM	4591	HG1	PRO A 494	27.806	0.321	-32.818	1.00	26.63	H
ATOM	4592	HG2	PRO A 494	28.603	0.634	-34.379	1.00	26.63	H
ATOM	4593	HD1	PRO A 494	26.072	-0.353	-34.274	1.00	26.63	H
ATOM	4594	HD2	PRO A 494	27.209	-0.870	-35.543	1.00	26.63	H
ATOM	4595	N	ARG A 495	28.974	-2.818	-30.809	1.00	29.12	N
ATOM	4596	CA	ARG A 495	28.834	-2.867	-29.333	1.00	29.08	C
ATOM	4597	C	ARG A 495	28.155	-1.619	-28.756	1.00	29.24	C
ATOM	4598	O	ARG A 495	28.538	-0.498	-29.078	1.00	29.36	O
ATOM	4599	CB	ARG A 495	30.183	-3.090	-28.614	1.00	28.96	C

ATOM	4600	CG	ARG A 495	30.550	-4.571	-28.566	1.00	28.78	C
ATOM	4601	CD	ARG A 495	31.876	-4.925	-27.890	1.00	28.67	C
ATOM	4602	NE	ARG A 495	31.867	-4.848	-26.422	1.00	28.62	N
ATOM	4603	CZ	ARG A 495	32.892	-4.379	-25.732	1.00	28.53	C
ATOM	4604	NH1	ARG A 495	33.262	-4.972	-24.637	1.00	28.48	N
ATOM	4605	NH2	ARG A 495	33.638	-3.397	-26.145	1.00	28.51	N
ATOM	4606	HN	ARG A 495	29.881	-2.976	-31.228	1.00	0.00	H
ATOM	4607	HE	ARG A 495	31.346	-5.594	-25.979	1.00	0.00	H
ATOM	4608	1HH1	ARG A 495	32.906	-5.888	-24.439	1.00	0.00	H
ATOM	4609	2HH1	ARG A 495	34.176	-4.727	-24.260	1.00	0.00	H
ATOM	4610	1HH2	ARG A 495	33.468	-3.022	-27.072	1.00	0.00	H
ATOM	4611	2HH2	ARG A 495	34.607	-3.434	-25.861	1.00	0.00	H
ATOM	4612	HA	ARG A 495	28.197	-3.720	-29.097	1.00	28.85	H
ATOM	4613	HB1	ARG A 495	30.963	-2.548	-29.149	1.00	28.85	H
ATOM	4614	HB2	ARG A 495	30.109	-2.710	-27.595	1.00	28.85	H
ATOM	4615	HG1	ARG A 495	29.756	-5.091	-28.030	1.00	28.85	H
ATOM	4616	HG2	ARG A 495	30.595	-4.934	-29.593	1.00	28.85	H
ATOM	4617	HD1	ARG A 495	32.138	-5.945	-28.173	1.00	28.85	H
ATOM	4618	HD2	ARG A 495	32.637	-4.238	-28.259	1.00	28.85	H
ATOM	4619	N	PHE A 496	27.319	-1.858	-27.745	1.00	44.38	N
ATOM	4620	CA	PHE A 496	26.547	-0.867	-26.987	1.00	44.56	C
ATOM	4621	C	PHE A 496	25.545	-0.047	-27.820	1.00	44.76	C
ATOM	4622	O	PHE A 496	25.055	0.979	-27.346	1.00	44.93	O
ATOM	4623	CB	PHE A 496	27.466	-0.017	-26.091	1.00	44.56	C
ATOM	4624	CG	PHE A 496	28.371	-0.830	-25.182	1.00	44.39	C
ATOM	4625	CD1	PHE A 496	27.847	-1.411	-24.013	1.00	44.42	C
ATOM	4626	CD2	PHE A 496	29.730	-1.010	-25.501	1.00	44.21	C

ATOM	4627	CE1 PHE A 496	28.674	-2.178	-23.173	1.00	44.26	C
ATOM	4628	CE2 PHE A 496	30.557	-1.778	-24.660	1.00	44.05	C
ATOM	4629	CZ PHE A 496	30.027	-2.367	-23.498	1.00	44.06	C
ATOM	4630	HN PHE A 496	27.116	-2.826	-27.543	1.00	0.00	H
ATOM	4631	HA PHE A 496	25.935	-1.449	-26.297	1.00	44.42	H
ATOM	4632	HB1 PHE A 496	28.093	0.602	-26.733	1.00	44.42	H
ATOM	4633	HB2 PHE A 496	26.840	0.622	-25.468	1.00	44.42	H
ATOM	4634	HD1 PHE A 496	26.797	-1.266	-23.758	1.00	44.42	H
ATOM	4635	HD2 PHE A 496	30.143	-0.554	-26.401	1.00	44.42	H
ATOM	4636	HE1 PHE A 496	28.264	-2.627	-22.268	1.00	44.42	H
ATOM	4637	HE2 PHE A 496	31.609	-1.916	-24.909	1.00	44.42	H
ATOM	4638	HZ PHE A 496	30.665	-2.969	-22.851	1.00	44.42	H
ATOM	4639	N ASN A 497	25.114	-0.550	-28.985	1.00	38.11	N
ATOM	4640	CA ASN A 497	23.877	-0.066	-29.588	1.00	38.29	C
ATOM	4641	C ASN A 497	22.645	-0.597	-28.830	1.00	38.39	C
ATOM	4642	O ASN A 497	22.563	-1.768	-28.462	1.00	38.31	O
ATOM	4643	CB ASN A 497	23.820	-0.390	-31.088	1.00	38.25	C
ATOM	4644	CG ASN A 497	22.542	0.156	-31.707	1.00	38.43	C
ATOM	4645	OD1 ASN A 497	22.216	1.324	-31.545	1.00	38.55	O
ATOM	4646	ND2 ASN A 497	21.611	-0.706	-32.031	1.00	38.45	N
ATOM	4647	HN ASN A 497	25.459	-1.454	-29.283	1.00	0.00	H
ATOM	4648	1HD2 ASN A 497	21.680	-1.666	-31.722	1.00	0.00	H
ATOM	4649	2HD2 ASN A 497	20.714	-0.331	-32.321	1.00	0.00	H
ATOM	4650	HA ASN A 497	23.873	1.020	-29.491	1.00	38.35	H
ATOM	4651	HB1 ASN A 497	24.679	0.061	-31.584	1.00	38.35	H
ATOM	4652	HB2 ASN A 497	23.849	-1.471	-31.222	1.00	38.35	H
ATOM	4653	N VAL A 498	21.638	0.266	-28.710	1.00	52.36	N

ATOM	4654	CA	VAL A 498	20.312	-0.046	-28.146	1.00	52.51	C
ATOM	4655	C	VAL A 498	19.185	0.477	-29.056	1.00	52.68	C
ATOM	4656	O	VAL A 498	18.021	0.120	-28.886	1.00	52.79	O
ATOM	4657	CB	VAL A 498	20.211	0.502	-26.699	1.00	52.65	C
ATOM	4658	CG1	VAL A 498	18.941	0.051	-25.964	1.00	52.78	C
ATOM	4659	CG2	VAL A 498	21.400	0.070	-25.822	1.00	52.48	C
ATOM	4660	HN	VAL A 498	21.803	1.201	-29.052	1.00	0.00	H
ATOM	4661	HA	VAL A 498	20.221	-1.131	-28.096	1.00	52.61	H
ATOM	4662	HB	VAL A 498	20.205	1.591	-26.749	1.00	52.61	H
ATOM	4663	1HG1	VAL A 498	18.935	0.470	-24.958	1.00	52.61	H
ATOM	4664	2HG1	VAL A 498	18.923	-1.037	-25.904	1.00	52.61	H
ATOM	4665	3HG1	VAL A 498	18.063	0.399	-26.508	1.00	52.61	H
ATOM	4666	1HG2	VAL A 498	21.280	0.480	-24.819	1.00	52.61	H
ATOM	4667	2HG2	VAL A 498	22.327	0.442	-26.258	1.00	52.61	H
ATOM	4668	3HG2	VAL A 498	21.435	-1.018	-25.767	1.00	52.61	H
ATOM	4669	N	CYS A 499	19.512	1.294	-30.065	1.00	27.71	N
ATOM	4670	CA	CYS A 499	18.532	1.829	-31.003	1.00	27.88	C
ATOM	4671	C	CYS A 499	18.097	0.776	-32.033	1.00	27.79	C
ATOM	4672	O	CYS A 499	18.969	0.156	-32.644	1.00	27.61	O
ATOM	4673	CB	CYS A 499	19.099	3.074	-31.687	1.00	27.92	C
ATOM	4674	SG	CYS A 499	19.005	4.528	-30.615	1.00	28.18	S
ATOM	4675	HN	CYS A 499	20.487	1.419	-30.299	1.00	0.00	H
ATOM	4676	HA	CYS A 499	17.651	2.129	-30.435	1.00	27.85	H
ATOM	4677	HB1	CYS A 499	20.142	2.891	-31.944	1.00	27.85	H
ATOM	4678	HB2	CYS A 499	18.529	3.268	-32.596	1.00	27.85	H
ATOM	4679	N	PRO A 500	16.788	0.623	-32.316	1.00	27.95	N
ATOM	4680	CA	PRO A 500	16.325	-0.359	-33.287	1.00	27.92	C

ATOM	4681	C	PRO A 500	16.806	-0.068	-34.707	1.00	27.81	C
ATOM	4682	O	PRO A 500	16.348	0.886	-35.331	1.00	27.87	O
ATOM	4683	CB	PRO A 500	14.800	-0.382	-33.182	1.00	28.16	C
ATOM	4684	CG	PRO A 500	14.533	0.135	-31.772	1.00	28.30	C
ATOM	4685	CD	PRO A 500	15.657	1.141	-31.557	1.00	28.19	C
ATOM	4686	HA	PRO A 500	16.703	-1.338	-32.991	1.00	28.03	H
ATOM	4687	HB1	PRO A 500	14.348	0.271	-33.929	1.00	28.03	H
ATOM	4688	HB2	PRO A 500	14.416	-1.395	-33.305	1.00	28.03	H
ATOM	4689	HG1	PRO A 500	13.558	0.618	-31.710	1.00	28.03	H
ATOM	4690	HG2	PRO A 500	14.586	-0.673	-31.042	1.00	28.03	H
ATOM	4691	HD1	PRO A 500	15.366	2.123	-31.929	1.00	28.03	H
ATOM	4692	HD2	PRO A 500	15.908	1.212	-30.499	1.00	28.03	H
ATOM	4693	N	GLU A 501	17.544	-1.007	-35.296	1.00	27.67	N
ATOM	4694	CA	GLU A 501	18.062	-0.888	-36.660	1.00	27.58	C
ATOM	4695	C	GLU A 501	17.939	-2.165	-37.486	1.00	27.53	C
ATOM	4696	O	GLU A 501	17.790	-3.278	-36.972	1.00	27.52	O
ATOM	4697	CB	GLU A 501	19.510	-0.356	-36.671	1.00	27.41	C
ATOM	4698	CG	GLU A 501	19.604	1.177	-36.589	1.00	27.44	C
ATOM	4699	CD	GLU A 501	18.743	1.918	-37.632	1.00	27.59	C
ATOM	4700	OE1	GLU A 501	18.409	1.311	-38.683	1.00	27.60	O
ATOM	4701	OE2	GLU A 501	18.120	2.926	-37.223	1.00	27.70	O
ATOM	4702	HN	GLU A 501	17.859	-1.792	-34.746	1.00	0.00	H
ATOM	4703	HA	GLU A 501	17.451	-0.136	-37.159	1.00	27.56	H
ATOM	4704	HB1	GLU A 501	20.039	-0.780	-35.817	1.00	27.56	H
ATOM	4705	HB2	GLU A 501	19.989	-0.682	-37.594	1.00	27.56	H
ATOM	4706	HG1	GLU A 501	19.280	1.487	-35.596	1.00	27.56	H
ATOM	4707	HG2	GLU A 501	20.645	1.464	-36.738	1.00	27.56	H

ATOM	4708	N	VAL A 502	17.913	-1.979	-38.807	1.00	27.52	N
ATOM	4709	CA	VAL A 502	17.830	-3.079	-39.772	1.00	27.49	C
ATOM	4710	C	VAL A 502	19.177	-3.800	-39.834	1.00	27.33	C
ATOM	4711	O	VAL A 502	20.052	-3.424	-40.611	1.00	27.25	O
ATOM	4712	CB	VAL A 502	17.370	-2.587	-41.160	1.00	27.53	C
ATOM	4713	CG1	VAL A 502	17.185	-3.761	-42.131	1.00	27.50	C
ATOM	4714	CG2	VAL A 502	16.025	-1.855	-41.072	1.00	27.70	C
ATOM	4715	HN	VAL A 502	18.055	-1.030	-39.147	1.00	0.00	H
ATOM	4716	HA	VAL A 502	17.088	-3.789	-39.406	1.00	27.47	H
ATOM	4717	HB	VAL A 502	18.120	-1.906	-41.563	1.00	27.47	H
ATOM	4718	1HG1	VAL A 502	16.861	-3.384	-43.101	1.00	27.47	H
ATOM	4719	2HG1	VAL A 502	16.432	-4.444	-41.737	1.00	27.47	H
ATOM	4720	3HG1	VAL A 502	18.131	-4.291	-42.246	1.00	27.47	H
ATOM	4721	1HG2	VAL A 502	15.727	-1.520	-42.066	1.00	27.47	H
ATOM	4722	2HG2	VAL A 502	16.123	-0.992	-40.413	1.00	27.47	H
ATOM	4723	3HG2	VAL A 502	15.268	-2.531	-40.675	1.00	27.47	H
ATOM	4724	N	CYS A 503	19.344	-4.827	-39.003	1.00	28.33	N
ATOM	4725	CA	CYS A 503	20.543	-5.663	-38.948	1.00	28.19	C
ATOM	4726	C	CYS A 503	20.222	-7.121	-38.583	1.00	28.20	C
ATOM	4727	O	CYS A 503	19.201	-7.409	-37.947	1.00	28.29	O
ATOM	4728	CB	CYS A 503	21.556	-5.042	-37.975	1.00	28.09	C
ATOM	4729	SG	CYS A 503	21.033	-4.838	-36.251	1.00	28.16	S
ATOM	4730	HN	CYS A 503	18.661	-4.951	-38.268	1.00	0.00	H
ATOM	4731	HA	CYS A 503	20.993	-5.662	-39.941	1.00	28.21	H
ATOM	4732	HB1	CYS A 503	22.442	-5.677	-37.976	1.00	28.21	H
ATOM	4733	HB2	CYS A 503	21.815	-4.055	-38.358	1.00	28.21	H
ATOM	4734	N	TRP A 504	21.155	-8.009	-38.939	1.00	28.10	N



ATOM	4735	CA	TRP A 504	21.322	-9.360	-38.399	1.00	28.10	C
ATOM	4736	C	TRP A 504	22.824	-9.643	-38.282	1.00	27.95	C
ATOM	4737	O	TRP A 504	23.486	-9.941	-39.273	1.00	27.94	O
ATOM	4738	CB	TRP A 504	20.620	-10.421	-39.259	1.00	28.23	C
ATOM	4739	CG	TRP A 504	20.896	-11.841	-38.839	1.00	28.24	C
ATOM	4740	CD1	TRP A 504	20.707	-12.337	-37.594	1.00	28.21	C
ATOM	4741	CD2	TRP A 504	21.484	-12.940	-39.605	1.00	28.31	C
ATOM	4742	NE1	TRP A 504	21.059	-13.669	-37.555	1.00	28.25	N
ATOM	4743	CE2	TRP A 504	21.547	-14.098	-38.770	1.00	28.32	C
ATOM	4744	CE3	TRP A 504	21.986	-13.083	-40.920	1.00	28.36	C
ATOM	4745	CZ2	TRP A 504	22.038	-15.331	-39.215	1.00	28.41	C
ATOM	4746	CZ3	TRP A 504	22.491	-14.317	-41.377	1.00	28.45	C
ATOM	4747	CH2	TRP A 504	22.510	-15.443	-40.534	1.00	28.48	C
ATOM	4748	HN	TRP A 504	21.952	-7.655	-39.451	1.00	0.00	H
ATOM	4749	HE1	TRP A 504	21.002	-14.237	-36.723	1.00	0.00	H
ATOM	4750	HA	TRP A 504	20.889	-9.386	-37.399	1.00	28.24	H
ATOM	4751	HB1	TRP A 504	19.545	-10.251	-39.201	1.00	28.24	H
ATOM	4752	HB2	TRP A 504	20.952	-10.299	-40.290	1.00	28.24	H
ATOM	4753	HD1	TRP A 504	20.331	-11.766	-36.745	1.00	28.24	H
ATOM	4754	HE3	TRP A 504	21.982	-12.224	-41.591	1.00	28.24	H
ATOM	4755	HZ2	TRP A 504	22.054	-16.193	-38.548	1.00	28.24	H
ATOM	4756	HZ3	TRP A 504	22.871	-14.400	-42.395	1.00	28.24	H
ATOM	4757	HH2	TRP A 504	22.889	-16.397	-40.902	1.00	28.24	H
ATOM	4758	N	GLU A 505	23.391	-9.299	-37.128	1.00	44.40	N
ATOM	4759	CA	GLU A 505	24.831	-9.325	-36.870	1.00	44.26	C
ATOM	4760	C	GLU A 505	25.118	-9.435	-35.368	1.00	44.18	C
ATOM	4761	O	GLU A 505	24.330	-9.000	-34.521	1.00	44.22	O

ATOM	4762	CB	GLU A 505	25.526	-8.089	-37.475	1.00	44.21	C
ATOM	4763	CG	GLU A 505	25.227	-6.777	-36.737	1.00	44.24	C
ATOM	4764	CD	GLU A 505	25.537	-5.563	-37.617	1.00	44.26	C
ATOM	4765	OE1	GLU A 505	24.724	-5.305	-38.527	1.00	44.24	O
ATOM	4766	OE2	GLU A 505	26.351	-4.724	-37.166	1.00	44.33	O
ATOM	4767	HN	GLU A 505	22.786	-9.091	-36.343	1.00	0.00	H
ATOM	4768	HA	GLU A 505	25.242	-10.211	-37.355	1.00	44.26	H
ATOM	4769	HB1	GLU A 505	26.603	-8.257	-37.452	1.00	44.26	H
ATOM	4770	HB2	GLU A 505	25.196	-7.983	-38.508	1.00	44.26	H
ATOM	4771	HG1	GLU A 505	24.172	-6.756	-36.462	1.00	44.26	H
ATOM	4772	HG2	GLU A 505	25.839	-6.729	-35.836	1.00	44.26	H
ATOM	4773	N	GLY A 506	26.263	-10.021	-35.038	1.00	26.50	N
ATOM	4774	CA	GLY A 506	26.666	-10.348	-33.676	1.00	26.39	C
ATOM	4775	C	GLY A 506	27.616	-11.544	-33.668	1.00	26.34	C
ATOM	4776	O	GLY A 506	27.719	-12.250	-34.673	1.00	26.39	O
ATOM	4777	HN	GLY A 506	26.848	-10.393	-35.774	1.00	0.00	H
ATOM	4778	HA1	GLY A 506	27.170	-9.488	-33.236	1.00	26.40	H
ATOM	4779	HA2	GLY A 506	25.780	-10.591	-33.089	1.00	26.40	H
ATOM	4780	N	THR A 507	28.075	-11.935	-32.479	1.00	26.24	N
ATOM	4781	CA	THR A 507	28.517	-13.313	-32.223	1.00	26.20	C
ATOM	4782	C	THR A 507	27.970	-13.847	-30.899	1.00	26.19	C
ATOM	4783	O	THR A 507	27.530	-13.095	-30.024	1.00	26.16	O
ATOM	4784	CB	THR A 507	30.037	-13.532	-32.335	1.00	26.05	C
ATOM	4785	OG1	THR A 507	30.704	-13.230	-31.139	1.00	25.91	O
ATOM	4786	CG2	THR A 507	30.745	-12.780	-33.459	1.00	26.09	C
ATOM	4787	HN	THR A 507	27.949	-11.332	-31.682	1.00	0.00	H
ATOM	4788	HG1	THR A 507	31.515	-13.770	-31.176	1.00	0.00	H

ATOM	4789	HA	THR A 507	28.066	-13.925	-33.004	1.00	26.12	H
ATOM	4790	HB	THR A 507	30.190	-14.595	-32.522	1.00	26.12	H
ATOM	4791	1HG2	THR A 507	31.810	-13.013	-33.438	1.00	26.12	H
ATOM	4792	2HG2	THR A 507	30.605	-11.707	-33.324	1.00	26.12	H
ATOM	4793	3HG2	THR A 507	30.326	-13.082	-34.419	1.00	26.12	H
ATOM	4794	N	TYR A 508	27.905	-15.172	-30.779	1.00	26.23	N
ATOM	4795	CA	TYR A 508	27.410	-15.864	-29.592	1.00	26.23	C
ATOM	4796	C	TYR A 508	28.416	-15.743	-28.427	1.00	26.02	C
ATOM	4797	O	TYR A 508	29.510	-16.304	-28.492	1.00	25.93	O
ATOM	4798	CB	TYR A 508	27.116	-17.312	-30.014	1.00	26.38	C
ATOM	4799	CG	TYR A 508	26.492	-18.197	-28.958	1.00	26.39	C
ATOM	4800	CD1	TYR A 508	25.155	-18.618	-29.069	1.00	26.60	C
ATOM	4801	CD2	TYR A 508	27.265	-18.636	-27.876	1.00	26.22	C
ATOM	4802	CE1	TYR A 508	24.593	-19.475	-28.099	1.00	26.63	C
ATOM	4803	CE2	TYR A 508	26.712	-19.482	-26.905	1.00	26.23	C
ATOM	4804	CZ	TYR A 508	25.368	-19.888	-26.995	1.00	26.44	C
ATOM	4805	OH	TYR A 508	24.827	-20.648	-26.015	1.00	26.46	O
ATOM	4806	HN	TYR A 508	28.273	-15.733	-31.531	1.00	0.00	H
ATOM	4807	HH	TYR A 508	25.380	-20.613	-25.198	1.00	0.00	H
ATOM	4808	HA	TYR A 508	26.473	-15.397	-29.287	1.00	26.31	H
ATOM	4809	HB1	TYR A 508	26.437	-17.280	-30.866	1.00	26.31	H
ATOM	4810	HB2	TYR A 508	28.058	-17.769	-30.317	1.00	26.31	H
ATOM	4811	HD1	TYR A 508	24.549	-18.280	-29.910	1.00	26.31	H
ATOM	4812	HD2	TYR A 508	28.304	-18.318	-27.788	1.00	26.31	H
ATOM	4813	HE1	TYR A 508	23.563	-19.817	-28.202	1.00	26.31	H
ATOM	4814	HE2	TYR A 508	27.327	-19.828	-26.074	1.00	26.31	H
ATOM	4815	N	ASN A 509	28.004	-15.100	-27.329	1.00	25.97	N

ATOM	4816	CA	ASN A 509	28.809	-14.855	-26.125	1.00	25.77	C
ATOM	4817	C	ASN A 509	27.963	-15.148	-24.871	1.00	25.80	C
ATOM	4818	O	ASN A 509	27.151	-14.301	-24.498	1.00	25.82	O
ATOM	4819	CB	ASN A 509	29.293	-13.388	-26.115	1.00	25.64	C
ATOM	4820	CG	ASN A 509	30.307	-13.048	-27.188	1.00	25.59	C
ATOM	4821	OD1	ASN A 509	31.470	-12.831	-26.910	1.00	25.46	O
ATOM	4822	ND2	ASN A 509	29.876	-12.792	-28.398	1.00	25.70	N
ATOM	4823	HN	ASN A 509	27.062	-14.731	-27.309	1.00	0.00	H
ATOM	4824	1HD2	ASN A 509	28.911	-12.939	-28.649	1.00	0.00	H
ATOM	4825	2HD2	ASN A 509	30.567	-12.678	-29.127	1.00	0.00	H
ATOM	4826	HA	ASN A 509	29.675	-15.517	-26.134	1.00	25.72	H
ATOM	4827	HB1	ASN A 509	28.425	-12.743	-26.252	1.00	25.72	H
ATOM	4828	HB2	ASN A 509	29.746	-13.187	-25.144	1.00	25.72	H
ATOM	4829	N	ASP A 510	28.012	-16.376	-24.333	1.00	25.84	N
ATOM	4830	CA	ASP A 510	27.130	-16.788	-23.223	1.00	25.87	C
ATOM	4831	C	ASP A 510	27.815	-16.835	-21.844	1.00	25.65	C
ATOM	4832	O	ASP A 510	29.041	-16.904	-21.710	1.00	25.46	O
ATOM	4833	CB	ASP A 510	26.279	-18.029	-23.576	1.00	26.03	C
ATOM	4834	CG	ASP A 510	26.884	-19.413	-23.320	1.00	25.92	C
ATOM	4835	OD1	ASP A 510	27.427	-19.634	-22.221	1.00	25.71	O
ATOM	4836	OD2	ASP A 510	26.378	-20.368	-23.947	1.00	26.06	O
ATOM	4837	HN	ASP A 510	28.786	-16.979	-24.581	1.00	0.00	H
ATOM	4838	HA	ASP A 510	26.405	-15.978	-23.138	1.00	25.82	H
ATOM	4839	HB1	ASP A 510	25.358	-17.966	-22.996	1.00	25.82	H
ATOM	4840	HB2	ASP A 510	26.045	-17.969	-24.639	1.00	25.82	H
ATOM	4841	N	ALA A 511	26.976	-16.691	-20.817	1.00	25.68	N
ATOM	4842	CA	ALA A 511	27.347	-16.546	-19.416	1.00	25.49	C

ATOM	4843	C	ALA A 511	26.333	-17.265	-18.512	1.00	25.56	C
ATOM	4844	O	ALA A 511	25.180	-17.486	-18.898	1.00	25.77	O
ATOM	4845	CB	ALA A 511	27.440	-15.049	-19.091	1.00	25.47	C
ATOM	4846	HN	ALA A 511	25.987	-16.711	-21.012	1.00	0.00	H
ATOM	4847	HA	ALA A 511	28.328	-16.997	-19.267	1.00	25.59	H
ATOM	4848	HB1	ALA A 511	27.717	-14.920	-18.045	1.00	25.59	H
ATOM	4849	HB2	ALA A 511	26.474	-14.577	-19.271	1.00	25.59	H
ATOM	4850	HB3	ALA A 511	28.195	-14.585	-19.726	1.00	25.59	H
ATOM	4851	N	PHE A 512	26.745	-17.555	-17.280	1.00	25.40	N
ATOM	4852	CA	PHE A 512	26.056	-18.434	-16.338	1.00	25.44	C
ATOM	4853	C	PHE A 512	25.835	-17.743	-14.986	1.00	25.38	C
ATOM	4854	O	PHE A 512	26.763	-17.145	-14.444	1.00	25.18	O
ATOM	4855	CB	PHE A 512	26.902	-19.701	-16.195	1.00	25.28	C
ATOM	4856	CG	PHE A 512	26.203	-20.909	-15.605	1.00	25.41	C
ATOM	4857	CD1	PHE A 512	25.847	-21.983	-16.442	1.00	25.60	C
ATOM	4858	CD2	PHE A 512	25.968	-20.999	-14.220	1.00	25.36	C
ATOM	4859	CE1	PHE A 512	25.321	-23.166	-15.894	1.00	25.75	C
ATOM	4860	CE2	PHE A 512	25.403	-22.166	-13.677	1.00	25.50	C
ATOM	4861	CZ	PHE A 512	25.095	-23.255	-14.510	1.00	25.71	C
ATOM	4862	HN	PHE A 512	27.704	-17.317	-17.048	1.00	0.00	H
ATOM	4863	HA	PHE A 512	25.086	-18.705	-16.756	1.00	25.46	H
ATOM	4864	HB1	PHE A 512	27.260	-19.976	-17.187	1.00	25.46	H
ATOM	4865	HB2	PHE A 512	27.752	-19.463	-15.555	1.00	25.46	H
ATOM	4866	HD1	PHE A 512	25.980	-21.897	-17.520	1.00	25.46	H
ATOM	4867	HD2	PHE A 512	26.224	-20.164	-13.568	1.00	25.46	H
ATOM	4868	HE1	PHE A 512	25.089	-24.012	-16.541	1.00	25.46	H
ATOM	4869	HE2	PHE A 512	25.203	-22.226	-12.607	1.00	25.46	H

ATOM	4870	HZ	PHE A 512	24.681	-24.168	-14.083	1.00	25.46	H
ATOM	4871	N	LEU A 513	24.639	-17.861	-14.404	1.00	25.57	N
ATOM	4872	CA	LEU A 513	24.291	-17.278	-13.103	1.00	25.55	C
ATOM	4873	C	LEU A 513	24.958	-18.041	-11.939	1.00	25.33	C
ATOM	4874	O	LEU A 513	24.559	-19.159	-11.616	1.00	25.37	O
ATOM	4875	CB	LEU A 513	22.757	-17.266	-13.002	1.00	25.85	C
ATOM	4876	CG	LEU A 513	22.193	-16.566	-11.754	1.00	25.88	C
ATOM	4877	CD1	LEU A 513	22.444	-15.063	-11.800	1.00	25.85	C
ATOM	4878	CD2	LEU A 513	20.685	-16.796	-11.695	1.00	26.20	C
ATOM	4879	HN	LEU A 513	23.916	-18.369	-14.889	1.00	0.00	H
ATOM	4880	HA	LEU A 513	24.644	-16.247	-13.084	1.00	25.70	H
ATOM	4881	HB1	LEU A 513	22.364	-16.756	-13.882	1.00	25.70	H
ATOM	4882	HB2	LEU A 513	22.411	-18.299	-12.995	1.00	25.70	H
ATOM	4883	HG	LEU A 513	22.659	-16.984	-10.862	1.00	25.70	H
ATOM	4884	1HD1	LEU A 513	22.033	-14.598	-10.904	1.00	25.70	H
ATOM	4885	2HD1	LEU A 513	21.962	-14.640	-12.682	1.00	25.70	H
ATOM	4886	3HD1	LEU A 513	23.517	-14.875	-11.848	1.00	25.70	H
ATOM	4887	1HD2	LEU A 513	20.276	-16.303	-10.813	1.00	25.70	H
ATOM	4888	2HD2	LEU A 513	20.482	-17.866	-11.640	1.00	25.70	H
ATOM	4889	3HD2	LEU A 513	20.219	-16.384	-12.590	1.00	25.70	H
ATOM	4890	N	ILE A 514	25.961	-17.432	-11.296	1.00	25.10	N
ATOM	4891	CA	ILE A 514	26.731	-18.035	-10.188	1.00	24.87	C
ATOM	4892	C	ILE A 514	26.261	-17.607	-8.787	1.00	24.86	C
ATOM	4893	O	ILE A 514	26.547	-18.307	-7.819	1.00	24.69	O
ATOM	4894	CB	ILE A 514	28.249	-17.820	-10.372	1.00	24.59	C
ATOM	4895	CG1	ILE A 514	28.657	-16.331	-10.332	1.00	24.54	C
ATOM	4896	CG2	ILE A 514	28.746	-18.514	-11.653	1.00	24.63	C

ATOM	4897	CD1 ILE A 514	30.156	-16.137	-10.082	1.00	24.27	C
ATOM	4898	HN ILE A 514	26.187	-16.482	-11.564	1.00	0.00	H
ATOM	4899	HA ILE A 514	26.565	-19.110	-10.251	1.00	24.69	H
ATOM	4900	HB ILE A 514	28.744	-18.308	-9.533	1.00	24.69	H
ATOM	4901	1HG1 ILE A 514	28.400	-15.873	-11.287	1.00	24.69	H
ATOM	4902	2HG1 ILE A 514	28.103	-15.839	-9.532	1.00	24.69	H
ATOM	4903	1HG2 ILE A 514	29.818	-18.350	-11.763	1.00	24.69	H
ATOM	4904	2HG2 ILE A 514	28.225	-18.100	-12.516	1.00	24.69	H
ATOM	4905	3HG2 ILE A 514	28.548	-19.584	-11.588	1.00	24.69	H
ATOM	4906	1HD1 ILE A 514	30.387	-15.072	-10.064	1.00	24.69	H
ATOM	4907	2HD1 ILE A 514	30.723	-16.618	-10.879	1.00	24.69	H
ATOM	4908	3HD1 ILE A 514	30.426	-16.583	-9.125	1.00	24.69	H
ATOM	4909	N ASP A 515	25.427	-16.568	-8.688	1.00	25.05	N
ATOM	4910	CA ASP A 515	24.532	-16.325	-7.549	1.00	25.09	C
ATOM	4911	C ASP A 515	23.263	-15.601	-8.019	1.00	25.41	C
ATOM	4912	O ASP A 515	23.348	-14.541	-8.635	1.00	25.46	O
ATOM	4913	CB ASP A 515	25.229	-15.516	-6.443	1.00	24.84	C
ATOM	4914	CG ASP A 515	24.283	-15.203	-5.274	1.00	24.86	C
ATOM	4915	OD1 ASP A 515	24.347	-14.050	-4.794	1.00	24.79	O
ATOM	4916	OD2 ASP A 515	23.290	-15.943	-5.090	1.00	24.97	O
ATOM	4917	HN ASP A 515	25.279	-16.001	-9.516	1.00	0.00	H
ATOM	4918	HA ASP A 515	24.240	-17.289	-7.133	1.00	25.06	H
ATOM	4919	HB1 ASP A 515	26.075	-16.091	-6.066	1.00	25.06	H
ATOM	4920	HB2 ASP A 515	25.587	-14.578	-6.866	1.00	25.06	H
ATOM	4921	N ARG A 516	22.081	-16.113	-7.654	1.00	25.65	N
ATOM	4922	CA ARG A 516	20.793	-15.452	-7.915	1.00	25.98	C
ATOM	4923	C ARG A 516	20.472	-14.332	-6.919	1.00	26.04	C

ATOM	4924	O	ARG A 516	19.787	-13.388	-7.299	1.00	26.23	O
ATOM	4925	CB	ARG A 516	19.680	-16.514	-7.971	1.00	26.22	C
ATOM	4926	CG	ARG A 516	18.327	-15.915	-8.402	1.00	26.59	C
ATOM	4927	CD	ARG A 516	17.270	-16.975	-8.732	1.00	26.83	C
ATOM	4928	NE	ARG A 516	17.539	-17.627	-10.024	1.00	26.90	N
ATOM	4929	CZ	ARG A 516	18.023	-18.831	-10.255	1.00	26.75	C
ATOM	4930	NH1	ARG A 516	18.361	-19.655	-9.309	1.00	26.51	N
ATOM	4931	NH2	ARG A 516	18.138	-19.257	-11.471	1.00	26.85	N
ATOM	4932	HN	ARG A 516	22.112	-16.879	-6.994	1.00	0.00	H
ATOM	4933	HE	ARG A 516	17.274	-17.097	-10.861	1.00	0.00	H
ATOM	4934	1HH1	ARG A 516	18.183	-19.434	-8.351	1.00	0.00	H
ATOM	4935	2HH1	ARG A 516	18.696	-20.572	-9.578	1.00	0.00	H
ATOM	4936	1HH2	ARG A 516	17.728	-18.651	-12.190	1.00	0.00	H
ATOM	4937	2HH2	ARG A 516	18.273	-20.242	-11.664	1.00	0.00	H
ATOM	4938	HA	ARG A 516	20.857	-14.998	-8.904	1.00	26.41	H
ATOM	4939	HB1	ARG A 516	19.966	-17.285	-8.686	1.00	26.41	H
ATOM	4940	HB2	ARG A 516	19.568	-16.958	-6.982	1.00	26.41	H
ATOM	4941	HG1	ARG A 516	17.950	-15.293	-7.590	1.00	26.41	H
ATOM	4942	HG2	ARG A 516	18.488	-15.300	-9.287	1.00	26.41	H
ATOM	4943	HD1	ARG A 516	17.271	-17.732	-7.947	1.00	26.41	H
ATOM	4944	HD2	ARG A 516	16.291	-16.497	-8.775	1.00	26.41	H
ATOM	4945	N	LEU A 517	20.974	-14.388	-5.683	1.00	48.11	N
ATOM	4946	CA	LEU A 517	20.622	-13.433	-4.622	1.00	48.15	C
ATOM	4947	C	LEU A 517	21.212	-12.036	-4.872	1.00	48.13	C
ATOM	4948	O	LEU A 517	20.497	-11.042	-4.797	1.00	48.35	O
ATOM	4949	CB	LEU A 517	21.071	-13.986	-3.256	1.00	47.91	C
ATOM	4950	CG	LEU A 517	20.491	-15.365	-2.884	1.00	48.03	C



ATOM	4951	CD1 LEU A 517	21.051	-15.811	-1.532	1.00	47.84	C
ATOM	4952	CD2 LEU A 517	18.963	-15.344	-2.779	1.00	48.44	C
ATOM	4953	HN LEU A 517	21.657	-15.113	-5.465	1.00	0.00	H
ATOM	4954	HA LEU A 517	19.536	-13.339	-4.604	1.00	48.12	H
ATOM	4955	HB1 LEU A 517	22.158	-14.069	-3.267	1.00	48.12	H
ATOM	4956	HB2 LEU A 517	20.768	-13.274	-2.488	1.00	48.12	H
ATOM	4957	HG LEU A 517	20.784	-16.089	-3.645	1.00	48.12	H
ATOM	4958	1HD1 LEU A 517	20.639	-16.786	-1.271	1.00	48.12	H
ATOM	4959	2HD1 LEU A 517	20.776	-15.085	-0.767	1.00	48.12	H
ATOM	4960	3HD1 LEU A 517	22.137	-15.880	-1.593	1.00	48.12	H
ATOM	4961	1HD2 LEU A 517	18.603	-16.338	-2.515	1.00	48.12	H
ATOM	4962	2HD2 LEU A 517	18.537	-15.046	-3.737	1.00	48.12	H
ATOM	4963	3HD2 LEU A 517	18.661	-14.633	-2.010	1.00	48.12	H
ATOM	4964	N ASN A 518	22.463	-11.975	-5.331	1.00	51.68	N
ATOM	4965	CA ASN A 518	23.101	-10.761	-5.855	1.00	51.67	C
ATOM	4966	C ASN A 518	22.906	-10.579	-7.379	1.00	51.69	C
ATOM	4967	O ASN A 518	23.472	-9.645	-7.946	1.00	51.58	O
ATOM	4968	CB ASN A 518	24.593	-10.786	-5.468	1.00	51.37	C
ATOM	4969	CG ASN A 518	24.816	-10.698	-3.971	1.00	51.27	C
ATOM	4970	OD1 ASN A 518	25.105	-9.644	-3.434	1.00	51.49	O
ATOM	4971	ND2 ASN A 518	24.794	-11.802	-3.267	1.00	50.94	N
ATOM	4972	HN ASN A 518	23.014	-12.832	-5.309	1.00	0.00	H
ATOM	4973	1HD2 ASN A 518	24.602	-12.690	-3.739	1.00	0.00	H
ATOM	4974	2HD2 ASN A 518	24.938	-11.733	-2.282	1.00	0.00	H
ATOM	4975	HA ASN A 518	22.644	-9.905	-5.358	1.00	51.46	H
ATOM	4976	HB1 ASN A 518	25.031	-11.716	-5.831	1.00	51.46	H
ATOM	4977	HB2 ASN A 518	25.090	-9.940	-5.944	1.00	51.46	H

ATOM	4978	N	TRP A 519	22.248	-11.541	-8.040	1.00	25.85	N
ATOM	4979	CA	TRP A 519	22.129	-11.727	-9.497	1.00	25.89	C
ATOM	4980	C	TRP A 519	23.455	-11.548	-10.268	1.00	25.65	C
ATOM	4981	O	TRP A 519	23.581	-10.745	-11.195	1.00	25.72	O
ATOM	4982	CB	TRP A 519	20.889	-11.013	-10.071	1.00	26.21	C
ATOM	4983	CG	TRP A 519	20.049	-11.914	-10.935	1.00	26.35	C
ATOM	4984	CD1	TRP A 519	18.989	-12.637	-10.500	1.00	26.48	C
ATOM	4985	CD2	TRP A 519	20.267	-12.337	-12.320	1.00	26.37	C
ATOM	4986	NE1	TRP A 519	18.524	-13.452	-11.516	1.00	26.59	N
ATOM	4987	CE2	TRP A 519	19.303	-13.340	-12.645	1.00	26.52	C
ATOM	4988	CE3	TRP A 519	21.202	-12.009	-13.328	1.00	26.28	C
ATOM	4989	CZ2	TRP A 519	19.284	-14.005	-13.878	1.00	26.60	C
ATOM	4990	CZ3	TRP A 519	21.202	-12.680	-14.568	1.00	26.34	C
ATOM	4991	CH2	TRP A 519	20.251	-13.681	-14.844	1.00	26.50	C
ATOM	4992	HN	TRP A 519	21.792	-12.237	-7.469	1.00	0.00	H
ATOM	4993	HE1	TRP A 519	17.759	-14.133	-11.416	1.00	0.00	H
ATOM	4994	HA	TRP A 519	21.899	-12.787	-9.610	1.00	26.24	H
ATOM	4995	HB1	TRP A 519	20.278	-10.655	-9.242	1.00	26.24	H
ATOM	4996	HB2	TRP A 519	21.221	-10.165	-10.670	1.00	26.24	H
ATOM	4997	HD1	TRP A 519	18.565	-12.584	-9.497	1.00	26.24	H
ATOM	4998	HE3	TRP A 519	21.935	-11.224	-13.144	1.00	26.24	H
ATOM	4999	HZ2	TRP A 519	18.529	-14.764	-14.085	1.00	26.24	H
ATOM	5000	HZ3	TRP A 519	21.946	-12.421	-15.321	1.00	26.24	H
ATOM	5001	HH2	TRP A 519	20.265	-14.201	-15.802	1.00	26.24	H
ATOM	5002	N	VAL A 520	24.496	-12.241	-9.793	1.00	25.37	N
ATOM	5003	CA	VAL A 520	25.847	-12.242	-10.370	1.00	25.14	C
ATOM	5004	C	VAL A 520	26.014	-13.417	-11.335	1.00	25.13	C

ATOM	5005	O	VAL A 520	25.909	-14.580	-10.944	1.00	25.15	O
ATOM	5006	CB	VAL A 520	26.925	-12.256	-9.269	1.00	24.85	C
ATOM	5007	CG1	VAL A 520	28.345	-12.373	-9.836	1.00	24.63	C
ATOM	5008	CG2	VAL A 520	26.877	-10.958	-8.453	1.00	24.87	C
ATOM	5009	HN	VAL A 520	24.279	-12.953	-9.103	1.00	0.00	H
ATOM	5010	HA	VAL A 520	25.966	-11.322	-10.942	1.00	25.02	H
ATOM	5011	HB	VAL A 520	26.740	-13.099	-8.603	1.00	25.02	H
ATOM	5012	1HG1	VAL A 520	29.064	-12.378	-9.017	1.00	25.02	H
ATOM	5013	2HG1	VAL A 520	28.546	-11.525	-10.491	1.00	25.02	H
ATOM	5014	3HG1	VAL A 520	28.435	-13.299	-10.404	1.00	25.02	H
ATOM	5015	1HG2	VAL A 520	27.645	-10.985	-7.680	1.00	25.02	H
ATOM	5016	2HG2	VAL A 520	25.897	-10.857	-7.987	1.00	25.02	H
ATOM	5017	3HG2	VAL A 520	27.055	-10.108	-9.111	1.00	25.02	H
ATOM	5018	N	SER A 521	26.391	-13.112	-12.574	1.00	25.13	N
ATOM	5019	CA	SER A 521	26.748	-14.075	-13.622	1.00	25.14	C
ATOM	5020	C	SER A 521	28.250	-14.068	-13.936	1.00	24.91	C
ATOM	5021	O	SER A 521	28.964	-13.116	-13.618	1.00	24.76	O
ATOM	5022	CB	SER A 521	25.935	-13.795	-14.889	1.00	25.37	C
ATOM	5023	OG	SER A 521	24.554	-13.974	-14.634	1.00	25.58	O
ATOM	5024	HN	SER A 521	26.569	-12.133	-12.774	1.00	0.00	H
ATOM	5025	HG	SER A 521	24.279	-13.346	-13.956	1.00	0.00	H
ATOM	5026	HA	SER A 521	26.484	-15.071	-13.267	1.00	25.15	H
ATOM	5027	HB1	SER A 521	26.111	-12.768	-15.210	1.00	25.15	H
ATOM	5028	HB2	SER A 521	26.247	-14.481	-15.676	1.00	25.15	H
ATOM	5029	N	ALA A 522	28.724	-15.114	-14.614	1.00	24.89	N
ATOM	5030	CA	ALA A 522	30.107	-15.283	-15.054	1.00	24.73	C
ATOM	5031	C	ALA A 522	30.175	-15.861	-16.477	1.00	24.83	C

ATOM	5032	O	ALA A 522	29.405	-16.760	-16.813	1.00	25.01	O
ATOM	5033	CB	ALA A 522	30.824	-16.187	-14.049	1.00	24.46	C
ATOM	5034	HN	ALA A 522	28.091	-15.888	-14.793	1.00	0.00	H
ATOM	5035	HA	ALA A 522	30.593	-14.308	-15.052	1.00	24.78	H
ATOM	5036	HB1	ALA A 522	31.860	-16.326	-14.359	1.00	24.78	H
ATOM	5037	HB2	ALA A 522	30.324	-17.155	-14.009	1.00	24.78	H
ATOM	5038	HB3	ALA A 522	30.800	-15.725	-13.062	1.00	24.78	H
ATOM	5039	N	GLY A 523	31.096	-15.380	-17.312	1.00	24.74	N
ATOM	5040	CA	GLY A 523	31.263	-15.879	-18.680	1.00	24.82	C
ATOM	5041	C	GLY A 523	32.318	-15.132	-19.487	1.00	24.76	C
ATOM	5042	O	GLY A 523	32.798	-14.077	-19.073	1.00	24.65	O
ATOM	5043	HN	GLY A 523	31.707	-14.629	-17.000	1.00	0.00	H
ATOM	5044	HA1	GLY A 523	31.550	-16.929	-18.629	1.00	24.74	H
ATOM	5045	HA2	GLY A 523	30.308	-15.788	-19.197	1.00	24.74	H
ATOM	5046	N	VAL A 524	32.692	-15.693	-20.637	1.00	24.84	N
ATOM	5047	CA	VAL A 524	33.604	-15.043	-21.592	1.00	24.80	C
ATOM	5048	C	VAL A 524	32.809	-14.192	-22.578	1.00	24.97	C
ATOM	5049	O	VAL A 524	31.868	-14.695	-23.200	1.00	25.12	O
ATOM	5050	CB	VAL A 524	34.511	-16.048	-22.327	1.00	24.77	C
ATOM	5051	CG1	VAL A 524	35.590	-15.364	-23.183	1.00	24.84	C
ATOM	5052	CG2	VAL A 524	35.238	-16.966	-21.347	1.00	24.56	C
ATOM	5053	HN	VAL A 524	32.219	-16.537	-20.929	1.00	0.00	H
ATOM	5054	HA	VAL A 524	34.249	-14.372	-21.025	1.00	24.84	H
ATOM	5055	HB	VAL A 524	33.890	-16.662	-22.979	1.00	24.84	H
ATOM	5056	1HG1	VAL A 524	36.198	-16.122	-23.676	1.00	24.84	H
ATOM	5057	2HG1	VAL A 524	36.225	-14.749	-22.545	1.00	24.84	H
ATOM	5058	3HG1	VAL A 524	35.113	-14.735	-23.935	1.00	24.84	H

ATOM	5059	1HG2 VAL A 524	35.869	-17.662	-21.900	1.00	24.84	H
ATOM	5060	2HG2 VAL A 524	34.508	-17.525	-20.762	1.00	24.84	H
ATOM	5061	3HG2 VAL A 524	35.857	-16.367	-20.679	1.00	24.84	H
ATOM	5062	N TYR A 525	33.285	-12.973	-22.831	1.00	24.94	N
ATOM	5063	CA TYR A 525	32.801	-12.090	-23.891	1.00	25.10	C
ATOM	5064	C TYR A 525	33.961	-11.477	-24.683	1.00	25.08	C
ATOM	5065	O TYR A 525	35.053	-11.266	-24.155	1.00	24.95	O
ATOM	5066	CB TYR A 525	31.830	-11.023	-23.342	1.00	25.14	C
ATOM	5067	CG TYR A 525	32.426	-9.796	-22.653	1.00	25.07	C
ATOM	5068	CD1 TYR A 525	32.019	-8.500	-23.042	1.00	25.21	C
ATOM	5069	CD2 TYR A 525	33.328	-9.940	-21.579	1.00	24.90	C
ATOM	5070	CE1 TYR A 525	32.497	-7.366	-22.349	1.00	25.19	C
ATOM	5071	CE2 TYR A 525	33.848	-8.809	-20.923	1.00	24.87	C
ATOM	5072	CZ TYR A 525	33.426	-7.519	-21.299	1.00	25.02	C
ATOM	5073	OH TYR A 525	33.890	-6.429	-20.636	1.00	25.02	O
ATOM	5074	HN TYR A 525	34.122	-12.672	-22.337	1.00	0.00	H
ATOM	5075	HH TYR A 525	34.391	-6.685	-19.843	1.00	0.00	H
ATOM	5076	HA TYR A 525	32.233	-12.709	-24.586	1.00	25.04	H
ATOM	5077	HB1 TYR A 525	31.234	-10.665	-24.181	1.00	25.04	H
ATOM	5078	HB2 TYR A 525	31.181	-11.517	-22.619	1.00	25.04	H
ATOM	5079	HD1 TYR A 525	31.333	-8.375	-23.880	1.00	25.04	H
ATOM	5080	HD2 TYR A 525	33.625	-10.937	-21.254	1.00	25.04	H
ATOM	5081	HE1 TYR A 525	32.147	-6.371	-22.626	1.00	25.04	H
ATOM	5082	HE2 TYR A 525	34.578	-8.931	-20.123	1.00	25.04	H
ATOM	5083	N LEU A 526	33.725	-11.244	-25.972	1.00	25.23	N
ATOM	5084	CA LEU A 526	34.641	-10.527	-26.855	1.00	25.24	C
ATOM	5085	C LEU A 526	34.562	-9.017	-26.599	1.00	25.29	C

ATOM	5086	O	LEU A 526	33.475	-8.427	-26.583	1.00	25.42	O
ATOM	5087	CB	LEU A 526	34.310	-10.854	-28.317	1.00	25.38	C
ATOM	5088	CG	LEU A 526	34.385	-12.346	-28.675	1.00	25.42	C
ATOM	5089	CD1	LEU A 526	33.882	-12.540	-30.102	1.00	25.52	C
ATOM	5090	CD2	LEU A 526	35.795	-12.909	-28.552	1.00	25.28	C
ATOM	5091	HN	LEU A 526	32.838	-11.545	-26.358	1.00	0.00	H
ATOM	5092	HA	LEU A 526	35.657	-10.862	-26.646	1.00	25.35	H
ATOM	5093	HB1	LEU A 526	33.297	-10.507	-28.521	1.00	25.35	H
ATOM	5094	HB2	LEU A 526	35.014	-10.317	-28.953	1.00	25.35	H
ATOM	5095	HG	LEU A 526	33.731	-12.898	-27.999	1.00	25.35	H
ATOM	5096	1HD1	LEU A 526	33.932	-13.597	-30.365	1.00	25.35	H
ATOM	5097	2HD1	LEU A 526	34.504	-11.966	-30.788	1.00	25.35	H
ATOM	5098	3HD1	LEU A 526	32.850	-12.196	-30.174	1.00	25.35	H
ATOM	5099	1HD2	LEU A 526	35.789	-13.966	-28.817	1.00	25.35	H
ATOM	5100	2HD2	LEU A 526	36.145	-12.794	-27.526	1.00	25.35	H
ATOM	5101	3HD2	LEU A 526	36.462	-12.370	-29.225	1.00	25.35	H
ATOM	5102	N	ASN A 527	35.718	-8.384	-26.423	1.00	25.20	N
ATOM	5103	CA	ASN A 527	35.811	-6.960	-26.107	1.00	25.28	C
ATOM	5104	C	ASN A 527	35.888	-6.051	-27.351	1.00	25.40	C
ATOM	5105	O	ASN A 527	35.729	-4.837	-27.228	1.00	25.38	O
ATOM	5106	CB	ASN A 527	37.015	-6.773	-25.184	1.00	25.17	C
ATOM	5107	CG	ASN A 527	37.027	-5.506	-24.359	1.00	25.29	C
ATOM	5108	OD1	ASN A 527	36.033	-4.807	-24.178	1.00	25.45	O
ATOM	5109	ND2	ASN A 527	38.176	-5.208	-23.802	1.00	25.21	N
ATOM	5110	HN	ASN A 527	36.569	-8.943	-26.392	1.00	0.00	H
ATOM	5111	1HD2	ASN A 527	38.968	-5.823	-23.975	1.00	0.00	H
ATOM	5112	2HD2	ASN A 527	38.264	-4.352	-23.293	1.00	0.00	H

ATOM	5113	HA	ASN A 527	34.917	-6.684	-25.548	1.00	25.30	H
ATOM	5114	HB1	ASN A 527	37.043	-7.619	-24.497	1.00	25.30	H
ATOM	5115	HB2	ASN A 527	37.913	-6.777	-25.802	1.00	25.30	H
ATOM	5116	N	SER A 528	36.090	-6.606	-28.548	1.00	25.52	N
ATOM	5117	CA	SER A 528	36.056	-5.843	-29.803	1.00	25.64	C
ATOM	5118	C	SER A 528	34.652	-5.349	-30.168	1.00	25.78	C
ATOM	5119	O	SER A 528	33.654	-6.021	-29.921	1.00	25.78	O
ATOM	5120	CB	SER A 528	36.611	-6.699	-30.928	1.00	25.61	C
ATOM	5121	OG	SER A 528	36.540	-6.004	-32.156	1.00	25.74	O
ATOM	5122	HN	SER A 528	36.260	-7.605	-28.598	1.00	0.00	H
ATOM	5123	HG	SER A 528	37.181	-6.512	-32.724	1.00	0.00	H
ATOM	5124	HA	SER A 528	36.702	-4.973	-29.688	1.00	25.68	H
ATOM	5125	HB1	SER A 528	37.651	-6.944	-30.713	1.00	25.68	H
ATOM	5126	HB2	SER A 528	36.029	-7.618	-31.001	1.00	25.68	H
ATOM	5127	N	ASN A 529	34.546	-4.165	-30.783	1.00	25.91	N
ATOM	5128	CA	ASN A 529	33.255	-3.555	-31.131	1.00	26.06	C
ATOM	5129	C	ASN A 529	32.624	-4.069	-32.441	1.00	26.09	C
ATOM	5130	O	ASN A 529	31.402	-3.958	-32.584	1.00	26.15	O
ATOM	5131	CB	ASN A 529	33.392	-2.019	-31.126	1.00	26.20	C
ATOM	5132	CG	ASN A 529	33.468	-1.402	-29.734	1.00	26.29	C
ATOM	5133	OD1	ASN A 529	33.467	-2.061	-28.706	1.00	26.21	O
ATOM	5134	ND2	ASN A 529	33.310	-0.103	-29.648	1.00	26.46	N
ATOM	5135	HN	ASN A 529	35.405	-3.686	-31.008	1.00	0.00	H
ATOM	5136	1HD2	ASN A 529	33.211	0.461	-30.472	1.00	0.00	H
ATOM	5137	2HD2	ASN A 529	33.266	0.283	-28.721	1.00	0.00	H
ATOM	5138	HA	ASN A 529	32.562	-3.810	-30.329	1.00	26.17	H
ATOM	5139	HB1	ASN A 529	34.301	-1.755	-31.667	1.00	26.17	H

ATOM	5140	HB2 ASN A 529	32.528	-1.597	-31.640	1.00	26.17	H
ATOM	5141	N GLN A 530	33.425	-4.572	-33.390	1.00	26.08	N
ATOM	5142	CA GLN A 530	33.011	-4.841	-34.785	1.00	26.12	C
ATOM	5143	C GLN A 530	33.590	-6.134	-35.397	1.00	26.05	C
ATOM	5144	O GLN A 530	33.304	-6.448	-36.555	1.00	26.11	O
ATOM	5145	CB GLN A 530	33.422	-3.654	-35.676	1.00	26.24	C
ATOM	5146	CG GLN A 530	32.649	-2.357	-35.396	1.00	26.35	C
ATOM	5147	CD GLN A 530	32.961	-1.259	-36.412	1.00	26.46	C
ATOM	5148	OE1 GLN A 530	32.090	-0.560	-36.897	1.00	26.52	O
ATOM	5149	NE2 GLN A 530	34.198	-1.089	-36.828	1.00	26.49	N
ATOM	5150	HN GLN A 530	34.408	-4.677	-33.168	1.00	0.00	H
ATOM	5151	1HE2 GLN A 530	34.936	-1.695	-36.513	1.00	0.00	H
ATOM	5152	2HE2 GLN A 530	34.333	-0.395	-37.540	1.00	0.00	H
ATOM	5153	HA GLN A 530	31.924	-4.916	-34.805	1.00	26.27	H
ATOM	5154	HB1 GLN A 530	34.483	-3.460	-35.518	1.00	26.27	H
ATOM	5155	HB2 GLN A 530	33.254	-3.934	-36.716	1.00	26.27	H
ATOM	5156	HG1 GLN A 530	31.581	-2.572	-35.431	1.00	26.27	H
ATOM	5157	HG2 GLN A 530	32.916	-1.999	-34.402	1.00	26.27	H
ATOM	5158	N THR A 531	34.497	-6.803	-34.690	1.00	36.53	N
ATOM	5159	CA THR A 531	35.325	-7.900	-35.208	1.00	36.48	C
ATOM	5160	C THR A 531	35.672	-8.890	-34.083	1.00	36.37	C
ATOM	5161	O THR A 531	35.068	-8.845	-33.010	1.00	36.28	O
ATOM	5162	CB THR A 531	36.576	-7.358	-35.940	1.00	36.50	C
ATOM	5163	OG1 THR A 531	37.125	-6.235	-35.296	1.00	36.47	O
ATOM	5164	CG2 THR A 531	36.315	-6.944	-37.386	1.00	36.63	C
ATOM	5165	HN THR A 531	34.739	-6.488	-33.762	1.00	0.00	H
ATOM	5166	HG1 THR A 531	37.873	-6.609	-34.778	1.00	0.00	H



ATOM	5167	HA	THR A 531	34.727	-8.439	-35.943	1.00	36.47	H
ATOM	5168	HB	THR A 531	37.330	-8.145	-35.946	1.00	36.47	H
ATOM	5169	1HG2	THR A 531	37.239	-6.575	-37.831	1.00	36.47	H
ATOM	5170	2HG2	THR A 531	35.562	-6.156	-37.409	1.00	36.47	H
ATOM	5171	3HG2	THR A 531	35.958	-7.804	-37.952	1.00	36.47	H
ATOM	5172	N	ALA A 532	36.316	-9.995	-34.460	1.00	25.79	N
ATOM	5173	CA	ALA A 532	36.389	-11.229	-33.680	1.00	25.70	C
ATOM	5174	C	ALA A 532	37.644	-11.292	-32.784	1.00	25.59	C
ATOM	5175	O	ALA A 532	38.484	-12.167	-32.978	1.00	25.61	O
ATOM	5176	CB	ALA A 532	36.271	-12.399	-34.674	1.00	25.80	C
ATOM	5177	HN	ALA A 532	36.841	-9.969	-35.319	1.00	0.00	H
ATOM	5178	HA	ALA A 532	35.516	-11.260	-33.028	1.00	25.70	H
ATOM	5179	HB1	ALA A 532	36.321	-13.343	-34.132	1.00	25.70	H
ATOM	5180	HB2	ALA A 532	37.089	-12.350	-35.393	1.00	25.70	H
ATOM	5181	HB3	ALA A 532	35.320	-12.333	-35.202	1.00	25.70	H
ATOM	5182	N	GLU A 533	37.823	-10.332	-31.868	1.00	25.49	N
ATOM	5183	CA	GLU A 533	39.034	-10.212	-31.031	1.00	25.38	C
ATOM	5184	C	GLU A 533	38.749	-10.050	-29.522	1.00	25.24	C
ATOM	5185	O	GLU A 533	37.687	-9.559	-29.118	1.00	25.25	O
ATOM	5186	CB	GLU A 533	39.954	-9.064	-31.506	1.00	25.43	C
ATOM	5187	CG	GLU A 533	40.225	-8.983	-33.021	1.00	25.56	C
ATOM	5188	CD	GLU A 533	39.280	-8.040	-33.783	1.00	25.58	C
ATOM	5189	OE1	GLU A 533	39.478	-7.827	-34.996	1.00	25.70	O
ATOM	5190	OE2	GLU A 533	38.242	-7.589	-33.243	1.00	25.50	O
ATOM	5191	HN	GLU A 533	37.152	-9.578	-31.829	1.00	0.00	H
ATOM	5192	HA	GLU A 533	39.595	-11.139	-31.150	1.00	25.46	H
ATOM	5193	HB1	GLU A 533	39.495	-8.124	-31.201	1.00	25.46	H

ATOM	5194	HB2	GLU A 533	40.914	-9.180	-31.004	1.00	25.46	H
ATOM	5195	HG1	GLU A 533	41.247	-8.633	-33.167	1.00	25.46	H
ATOM	5196	HG2	GLU A 533	40.120	-9.984	-33.440	1.00	25.46	H
ATOM	5197	N	ASN A 534	39.808	-10.259	-28.724	1.00	25.12	N
ATOM	5198	CA	ASN A 534	39.939	-9.916	-27.298	1.00	24.99	C
ATOM	5199	C	ASN A 534	38.999	-10.724	-26.362	1.00	24.90	C
ATOM	5200	O	ASN A 534	37.965	-10.212	-25.916	1.00	24.87	O
ATOM	5201	CB	ASN A 534	39.848	-8.384	-27.157	1.00	25.07	C
ATOM	5202	CG	ASN A 534	40.426	-7.858	-25.851	1.00	24.96	C
ATOM	5203	OD1	ASN A 534	39.806	-7.889	-24.800	1.00	24.83	O
ATOM	5204	ND2	ASN A 534	41.492	-7.110	-25.944	1.00	25.03	N
ATOM	5205	HN	ASN A 534	40.632	-10.655	-29.167	1.00	0.00	H
ATOM	5206	1HD2	ASN A 534	42.014	-7.151	-26.814	1.00	0.00	H
ATOM	5207	2HD2	ASN A 534	42.019	-6.945	-25.079	1.00	0.00	H
ATOM	5208	HA	ASN A 534	40.956	-10.187	-27.013	1.00	24.97	H
ATOM	5209	HB1	ASN A 534	40.394	-7.929	-27.984	1.00	24.97	H
ATOM	5210	HB2	ASN A 534	38.798	-8.095	-27.211	1.00	24.97	H
ATOM	5211	N	PRO A 535	39.288	-12.022	-26.119	1.00	24.87	N
ATOM	5212	CA	PRO A 535	38.470	-12.911	-25.288	1.00	24.80	C
ATOM	5213	C	PRO A 535	38.708	-12.694	-23.780	1.00	24.63	C
ATOM	5214	O	PRO A 535	39.639	-13.249	-23.187	1.00	24.51	O
ATOM	5215	CB	PRO A 535	38.854	-14.324	-25.746	1.00	24.82	C
ATOM	5216	CG	PRO A 535	40.320	-14.183	-26.162	1.00	24.83	C
ATOM	5217	CD	PRO A 535	40.396	-12.762	-26.716	1.00	24.92	C
ATOM	5218	HA	PRO A 535	37.417	-12.738	-25.511	1.00	24.77	H
ATOM	5219	HB1	PRO A 535	38.748	-15.039	-24.930	1.00	24.77	H
ATOM	5220	HB2	PRO A 535	38.239	-14.640	-26.589	1.00	24.77	H

ATOM	5221	HG1 PRO A 535	40.982	-14.303	-25.304	1.00	24.77	H
ATOM	5222	HG2 PRO A 535	40.580	-14.914	-26.927	1.00	24.77	H
ATOM	5223	HD1 PRO A 535	41.346	-12.302	-26.443	1.00	24.77	H
ATOM	5224	HD2 PRO A 535	40.297	-12.776	-27.801	1.00	24.77	H
ATOM	5225	N VAL A 536	37.755	-12.043	-23.107	1.00	24.61	N
ATOM	5226	CA VAL A 536	37.817	-11.748	-21.663	1.00	24.46	C
ATOM	5227	C VAL A 536	36.796	-12.574	-20.883	1.00	24.45	C
ATOM	5228	O VAL A 536	35.596	-12.459	-21.121	1.00	24.60	O
ATOM	5229	CB VAL A 536	37.629	-10.237	-21.417	1.00	24.50	C
ATOM	5230	CG1 VAL A 536	37.601	-9.885	-19.925	1.00	24.36	C
ATOM	5231	CG2 VAL A 536	38.771	-9.436	-22.052	1.00	24.55	C
ATOM	5232	HN VAL A 536	36.988	-11.634	-23.636	1.00	0.00	H
ATOM	5233	HA VAL A 536	38.810	-12.023	-21.308	1.00	24.50	H
ATOM	5234	HB VAL A 536	36.688	-9.923	-21.869	1.00	24.50	H
ATOM	5235	1HG1 VAL A 536	37.467	-8.810	-19.807	1.00	24.50	H
ATOM	5236	2HG1 VAL A 536	38.541	-10.186	-19.462	1.00	24.50	H
ATOM	5237	3HG1 VAL A 536	36.775	-10.409	-19.443	1.00	24.50	H
ATOM	5238	1HG2 VAL A 536	38.617	-8.373	-21.866	1.00	24.50	H
ATOM	5239	2HG2 VAL A 536	38.789	-9.617	-23.127	1.00	24.50	H
ATOM	5240	3HG2 VAL A 536	39.720	-9.747	-21.616	1.00	24.50	H
ATOM	5241	N PHE A 537	37.233	-13.305	-19.852	1.00	24.29	N
ATOM	5242	CA PHE A 537	36.330	-13.835	-18.824	1.00	24.26	C
ATOM	5243	C PHE A 537	35.964	-12.719	-17.835	1.00	24.26	C
ATOM	5244	O PHE A 537	36.842	-12.129	-17.201	1.00	24.16	O
ATOM	5245	CB PHE A 537	36.958	-15.051	-18.122	1.00	24.07	C
ATOM	5246	CG PHE A 537	35.997	-15.842	-17.241	1.00	24.06	C
ATOM	5247	CD1 PHE A 537	35.513	-17.097	-17.663	1.00	24.21	C

ATOM	5248	CD2 PHE A 537	35.586	-15.337	-15.992	1.00	23.92	C
ATOM	5249	CE1 PHE A 537	34.633	-17.833	-16.848	1.00	24.24	C
ATOM	5250	CE2 PHE A 537	34.703	-16.071	-15.179	1.00	23.93	C
ATOM	5251	CZ PHE A 537	34.227	-17.322	-15.606	1.00	24.09	C
ATOM	5252	HN PHE A 537	38.221	-13.255	-19.621	1.00	0.00	H
ATOM	5253	HA PHE A 537	35.415	-14.164	-19.316	1.00	24.14	H
ATOM	5254	HB1 PHE A 537	37.347	-15.722	-18.888	1.00	24.14	H
ATOM	5255	HB2 PHE A 537	37.778	-14.697	-17.498	1.00	24.14	H
ATOM	5256	HD1 PHE A 537	35.823	-17.500	-18.627	1.00	24.14	H
ATOM	5257	HD2 PHE A 537	35.955	-14.369	-15.652	1.00	24.14	H
ATOM	5258	HE1 PHE A 537	34.266	-18.803	-17.183	1.00	24.14	H
ATOM	5259	HE2 PHE A 537	34.388	-15.668	-14.216	1.00	24.14	H
ATOM	5260	HZ PHE A 537	33.545	-17.893	-14.975	1.00	24.14	H
ATOM	5261	N ALA A 538	34.671	-12.507	-17.602	1.00	24.40	N
ATOM	5262	CA ALA A 538	34.141	-11.521	-16.666	1.00	24.47	C
ATOM	5263	C ALA A 538	33.212	-12.164	-15.628	1.00	24.47	C
ATOM	5264	O ALA A 538	32.470	-13.099	-15.933	1.00	24.57	O
ATOM	5265	CB ALA A 538	33.431	-10.421	-17.464	1.00	24.69	C
ATOM	5266	HN ALA A 538	33.994	-13.052	-18.129	1.00	0.00	H
ATOM	5267	HA ALA A 538	34.980	-11.069	-16.137	1.00	24.52	H
ATOM	5268	HB1 ALA A 538	33.029	-9.676	-16.778	1.00	24.52	H
ATOM	5269	HB2 ALA A 538	32.617	-10.859	-18.042	1.00	24.52	H
ATOM	5270	HB3 ALA A 538	34.142	-9.946	-18.140	1.00	24.52	H
ATOM	5271	N VAL A 539	33.139	-11.547	-14.447	1.00	24.36	N
ATOM	5272	CA VAL A 539	32.083	-11.777	-13.449	1.00	24.36	C
ATOM	5273	C VAL A 539	31.351	-10.462	-13.197	1.00	24.52	C
ATOM	5274	O VAL A 539	31.989	-9.424	-13.007	1.00	24.48	O

ATOM	5275	CB	VAL A 539	32.650	-12.377	-12.151	1.00	24.11	C
ATOM	5276	CG1	VAL A 539	31.546	-12.621	-11.119	1.00	24.11	C
ATOM	5277	CG2	VAL A 539	33.333	-13.723	-12.418	1.00	23.95	C
ATOM	5278	HN	VAL A 539	33.774	-10.772	-14.276	1.00	0.00	H
ATOM	5279	HA	VAL A 539	31.370	-12.487	-13.868	1.00	24.27	H
ATOM	5280	HB	VAL A 539	33.381	-11.686	-11.731	1.00	24.27	H
ATOM	5281	1HG1	VAL A 539	31.981	-13.045	-10.214	1.00	24.27	H
ATOM	5282	2HG1	VAL A 539	30.812	-13.315	-11.529	1.00	24.27	H
ATOM	5283	3HG1	VAL A 539	31.058	-11.677	-10.878	1.00	24.27	H
ATOM	5284	1HG2	VAL A 539	33.724	-14.124	-11.483	1.00	24.27	H
ATOM	5285	2HG2	VAL A 539	34.152	-13.582	-13.123	1.00	24.27	H
ATOM	5286	3HG2	VAL A 539	32.609	-14.422	-12.838	1.00	24.27	H
ATOM	5287	N	PHE A 540	30.023	-10.468	-13.299	1.00	24.72	N
ATOM	5288	CA	PHE A 540	29.228	-9.250	-13.457	1.00	24.94	C
ATOM	5289	C	PHE A 540	27.805	-9.372	-12.899	1.00	25.14	C
ATOM	5290	O	PHE A 540	27.212	-10.445	-12.858	1.00	25.11	O
ATOM	5291	CB	PHE A 540	29.207	-8.850	-14.944	1.00	25.07	C
ATOM	5292	CG	PHE A 540	28.480	-9.814	-15.865	1.00	25.16	C
ATOM	5293	CD1	PHE A 540	27.113	-9.623	-16.147	1.00	25.41	C
ATOM	5294	CD2	PHE A 540	29.167	-10.898	-16.447	1.00	25.03	C
ATOM	5295	CE1	PHE A 540	26.438	-10.507	-17.008	1.00	25.50	C
ATOM	5296	CE2	PHE A 540	28.491	-11.785	-17.303	1.00	25.14	C
ATOM	5297	CZ	PHE A 540	27.127	-11.588	-17.585	1.00	25.37	C
ATOM	5298	HN	PHE A 540	29.551	-11.355	-13.465	1.00	0.00	H
ATOM	5299	HA	PHE A 540	29.731	-8.454	-12.908	1.00	25.14	H
ATOM	5300	HB1	PHE A 540	28.722	-7.877	-15.024	1.00	25.14	H
ATOM	5301	HB2	PHE A 540	30.239	-8.771	-15.286	1.00	25.14	H

ATOM	5302	HD1 PHE A 540	26.577	-8.788	-15.697	1.00	25.14	H
ATOM	5303	HD2 PHE A 540	30.225	-11.049	-16.233	1.00	25.14	H
ATOM	5304	HE1 PHE A 540	25.381	-10.354	-17.228	1.00	25.14	H
ATOM	5305	HE2 PHE A 540	29.024	-12.625	-17.748	1.00	25.14	H
ATOM	5306	HZ PHE A 540	26.604	-12.274	-18.251	1.00	25.14	H
ATOM	5307	N LYS A 541	27.240	-8.220	-12.553	1.00	25.36	N
ATOM	5308	CA LYS A 541	25.839	-7.947	-12.214	1.00	25.60	C
ATOM	5309	C LYS A 541	25.263	-7.008	-13.290	1.00	25.85	C
ATOM	5310	O LYS A 541	26.030	-6.417	-14.050	1.00	25.83	O
ATOM	5311	CB LYS A 541	25.860	-7.346	-10.797	1.00	25.60	C
ATOM	5312	CG LYS A 541	24.499	-7.194	-10.108	1.00	25.88	C
ATOM	5313	CD LYS A 541	24.577	-6.475	-8.746	1.00	25.86	C
ATOM	5314	CE LYS A 541	25.443	-7.150	-7.667	1.00	25.60	C
ATOM	5315	NZ LYS A 541	26.884	-6.802	-7.778	1.00	25.30	N1+
ATOM	5316	HN LYS A 541	27.814	-7.392	-12.688	1.00	0.00	H
ATOM	5317	HZ1 LYS A 541	27.421	-7.108	-6.980	1.00	0.00	H
ATOM	5318	HZ2 LYS A 541	27.036	-5.788	-7.866	1.00	0.00	H
ATOM	5319	HZ3 LYS A 541	27.294	-7.172	-8.620	1.00	0.00	H
ATOM	5320	HA LYS A 541	25.277	-8.881	-12.206	1.00	25.65	H
ATOM	5321	HB1 LYS A 541	26.479	-7.989	-10.172	1.00	25.65	H
ATOM	5322	HB2 LYS A 541	26.313	-6.356	-10.862	1.00	25.65	H
ATOM	5323	HG1 LYS A 541	23.843	-6.622	-10.763	1.00	25.65	H
ATOM	5324	HG2 LYS A 541	24.079	-8.187	-9.950	1.00	25.65	H
ATOM	5325	HD1 LYS A 541	24.981	-5.478	-8.920	1.00	25.65	H
ATOM	5326	HD2 LYS A 541	23.563	-6.394	-8.355	1.00	25.65	H
ATOM	5327	HE1 LYS A 541	25.084	-6.836	-6.687	1.00	25.65	H
ATOM	5328	HE2 LYS A 541	25.338	-8.231	-7.763	1.00	25.65	H

ATOM	5329	N	ASP A 542	23.944	-6.818	-13.330	1.00	36.37	N
ATOM	5330	CA	ASP A 542	23.222	-6.048	-14.366	1.00	36.63	C
ATOM	5331	C	ASP A 542	23.896	-4.734	-14.809	1.00	36.65	C
ATOM	5332	O	ASP A 542	24.173	-4.557	-15.994	1.00	36.70	O
ATOM	5333	CB	ASP A 542	21.796	-5.737	-13.875	1.00	36.90	C
ATOM	5334	CG	ASP A 542	20.981	-6.974	-13.498	1.00	36.90	C
ATOM	5335	OD1	ASP A 542	21.248	-8.068	-14.038	1.00	36.81	O
ATOM	5336	OD2	ASP A 542	20.002	-6.837	-12.738	1.00	36.99	O
ATOM	5337	HN	ASP A 542	23.380	-7.414	-12.740	1.00	0.00	H
ATOM	5338	HA	ASP A 542	23.134	-6.685	-15.246	1.00	36.74	H
ATOM	5339	HB1	ASP A 542	21.869	-5.095	-12.997	1.00	36.74	H
ATOM	5340	HB2	ASP A 542	21.268	-5.209	-14.669	1.00	36.74	H
ATOM	5341	N	ASN A 543	24.298	-3.885	-13.860	1.00	26.35	N
ATOM	5342	CA	ASN A 543	24.885	-2.570	-14.147	1.00	26.44	C
ATOM	5343	C	ASN A 543	26.396	-2.501	-13.831	1.00	26.21	C
ATOM	5344	O	ASN A 543	26.945	-1.414	-13.664	1.00	26.30	O
ATOM	5345	CB	ASN A 543	24.076	-1.470	-13.425	1.00	26.73	C
ATOM	5346	CG	ASN A 543	22.606	-1.368	-13.813	1.00	27.00	C
ATOM	5347	OD1	ASN A 543	21.953	-2.294	-14.255	1.00	26.98	O
ATOM	5348	ND2	ASN A 543	21.981	-0.257	-13.505	1.00	27.26	N
ATOM	5349	HN	ASN A 543	24.028	-4.088	-12.912	1.00	0.00	H
ATOM	5350	1HD2	ASN A 543	22.481	0.518	-13.116	1.00	0.00	H
ATOM	5351	2HD2	ASN A 543	21.007	-0.232	-13.745	1.00	0.00	H
ATOM	5352	HA	ASN A 543	24.774	-2.397	-15.218	1.00	26.66	H
ATOM	5353	HB1	ASN A 543	24.127	-1.666	-12.354	1.00	26.66	H
ATOM	5354	HB2	ASN A 543	24.547	-0.511	-13.642	1.00	26.66	H
ATOM	5355	N	GLU A 544	27.044	-3.641	-13.567	1.00	25.94	N

ATOM	5356	CA	GLU A 544	28.320	-3.684	-12.845	1.00	25.71	C
ATOM	5357	C	GLU A 544	29.136	-4.944	-13.186	1.00	25.44	C
ATOM	5358	O	GLU A 544	28.926	-6.011	-12.610	1.00	25.36	O
ATOM	5359	CB	GLU A 544	28.009	-3.592	-11.337	1.00	25.69	C
ATOM	5360	CG	GLU A 544	29.250	-3.611	-10.429	1.00	25.43	C
ATOM	5361	CD	GLU A 544	28.901	-3.792	-8.942	1.00	25.50	C
ATOM	5362	OE1	GLU A 544	27.930	-4.535	-8.646	1.00	25.63	O
ATOM	5363	OE2	GLU A 544	29.795	-3.486	-8.126	1.00	25.44	O
ATOM	5364	HN	GLU A 544	26.555	-4.518	-13.728	1.00	0.00	H
ATOM	5365	HA	GLU A 544	28.905	-2.809	-13.129	1.00	25.57	H
ATOM	5366	HB1	GLU A 544	27.469	-2.662	-11.157	1.00	25.57	H
ATOM	5367	HB2	GLU A 544	27.377	-4.438	-11.067	1.00	25.57	H
ATOM	5368	HG1	GLU A 544	29.894	-4.434	-10.738	1.00	25.57	H
ATOM	5369	HG2	GLU A 544	29.783	-2.668	-10.549	1.00	25.57	H
ATOM	5370	N	ILE A 545	30.198	-4.801	-13.985	1.00	25.30	N
ATOM	5371	CA	ILE A 545	31.266	-5.814	-14.034	1.00	25.04	C
ATOM	5372	C	ILE A 545	32.076	-5.717	-12.738	1.00	24.84	C
ATOM	5373	O	ILE A 545	32.664	-4.669	-12.454	1.00	24.84	O
ATOM	5374	CB	ILE A 545	32.156	-5.677	-15.287	1.00	25.00	C
ATOM	5375	CG1	ILE A 545	31.302	-5.785	-16.568	1.00	25.14	C
ATOM	5376	CG2	ILE A 545	33.254	-6.755	-15.266	1.00	24.73	C
ATOM	5377	CD1	ILE A 545	32.078	-5.541	-17.866	1.00	25.16	C
ATOM	5378	HN	ILE A 545	30.361	-3.908	-14.423	1.00	0.00	H
ATOM	5379	HA	ILE A 545	30.795	-6.797	-14.063	1.00	25.01	H
ATOM	5380	HB	ILE A 545	32.632	-4.697	-15.269	1.00	25.01	H
ATOM	5381	1HG1	ILE A 545	30.874	-6.787	-16.609	1.00	25.01	H
ATOM	5382	2HG1	ILE A 545	30.500	-5.049	-16.506	1.00	25.01	H



ATOM	5383	1HG2	ILE	A 545	33.880	-6.654	-16.153	1.00	25.01	H
ATOM	5384	2HG2	ILE	A 545	32.794	-7.743	-15.257	1.00	25.01	H
ATOM	5385	3HG2	ILE	A 545	33.867	-6.632	-14.373	1.00	25.01	H
ATOM	5386	1HD1	ILE	A 545	31.403	-5.636	-18.717	1.00	25.01	H
ATOM	5387	2HD1	ILE	A 545	32.879	-6.275	-17.955	1.00	25.01	H
ATOM	5388	3HD1	ILE	A 545	32.505	-4.538	-17.852	1.00	25.01	H
ATOM	5389	N	LEU	A 546	32.133	-6.804	-11.970	1.00	24.68	N
ATOM	5390	CA	LEU	A 546	32.840	-6.872	-10.693	1.00	24.48	C
ATOM	5391	C	LEU	A 546	34.351	-7.012	-10.895	1.00	24.28	C
ATOM	5392	O	LEU	A 546	35.111	-6.214	-10.352	1.00	24.26	O
ATOM	5393	CB	LEU	A 546	32.286	-8.039	-9.850	1.00	24.36	C
ATOM	5394	CG	LEU	A 546	30.801	-7.923	-9.469	1.00	24.55	C
ATOM	5395	CD1	LEU	A 546	30.341	-9.201	-8.769	1.00	24.40	C
ATOM	5396	CD2	LEU	A 546	30.583	-6.765	-8.503	1.00	24.77	C
ATOM	5397	HN	LEU	A 546	31.714	-7.659	-12.319	1.00	0.00	H
ATOM	5398	HA	LEU	A 546	32.654	-5.944	-10.152	1.00	24.47	H
ATOM	5399	HB1	LEU	A 546	32.417	-8.959	-10.420	1.00	24.47	H
ATOM	5400	HB2	LEU	A 546	32.867	-8.096	-8.929	1.00	24.47	H
ATOM	5401	HG	LEU	A 546	30.205	-7.765	-10.368	1.00	24.47	H
ATOM	5402	1HD1	LEU	A 546	29.288	-9.111	-8.502	1.00	24.47	H
ATOM	5403	2HD1	LEU	A 546	30.932	-9.354	-7.866	1.00	24.47	H
ATOM	5404	3HD1	LEU	A 546	30.474	-10.051	-9.439	1.00	24.47	H
ATOM	5405	1HD2	LEU	A 546	29.526	-6.700	-8.246	1.00	24.47	H
ATOM	5406	2HD2	LEU	A 546	30.900	-5.834	-8.973	1.00	24.47	H
ATOM	5407	3HD2	LEU	A 546	31.167	-6.931	-7.598	1.00	24.47	H
ATOM	5408	N	TYR	A 547	34.778	-7.973	-11.715	1.00	24.15	N
ATOM	5409	CA	TYR	A 547	36.187	-8.288	-11.978	1.00	23.98	C

ATOM	5410	C	TYR A 547	36.325	-9.150	-13.250	1.00	24.01	C
ATOM	5411	O	TYR A 547	35.342	-9.718	-13.734	1.00	24.08	O
ATOM	5412	CB	TYR A 547	36.816	-8.955	-10.734	1.00	23.71	C
ATOM	5413	CG	TYR A 547	35.981	-10.021	-10.046	1.00	23.64	C
ATOM	5414	CD1	TYR A 547	36.069	-11.354	-10.476	1.00	23.49	C
ATOM	5415	CD2	TYR A 547	35.151	-9.691	-8.956	1.00	23.75	C
ATOM	5416	CE1	TYR A 547	35.326	-12.359	-9.829	1.00	23.44	C
ATOM	5417	CE2	TYR A 547	34.375	-10.683	-8.329	1.00	23.71	C
ATOM	5418	CZ	TYR A 547	34.464	-12.022	-8.763	1.00	23.55	C
ATOM	5419	OH	TYR A 547	33.758	-12.990	-8.126	1.00	23.53	O
ATOM	5420	HN	TYR A 547	34.087	-8.579	-12.143	1.00	0.00	H
ATOM	5421	HH	TYR A 547	33.155	-12.609	-7.463	1.00	0.00	H
ATOM	5422	HA	TYR A 547	36.711	-7.349	-12.153	1.00	23.75	H
ATOM	5423	HB1	TYR A 547	37.754	-9.417	-11.043	1.00	23.75	H
ATOM	5424	HB2	TYR A 547	37.020	-8.171	-10.005	1.00	23.75	H
ATOM	5425	HD1	TYR A 547	36.716	-11.612	-11.315	1.00	23.75	H
ATOM	5426	HD2	TYR A 547	35.110	-8.663	-8.597	1.00	23.75	H
ATOM	5427	HE1	TYR A 547	35.416	-13.397	-10.151	1.00	23.75	H
ATOM	5428	HE2	TYR A 547	33.707	-10.417	-7.510	1.00	23.75	H
ATOM	5429	N	GLN A 548	37.521	-9.172	-13.848	1.00	37.99	N
ATOM	5430	CA	GLN A 548	37.803	-9.771	-15.164	1.00	38.04	C
ATOM	5431	C	GLN A 548	39.182	-10.448	-15.201	1.00	37.85	C
ATOM	5432	O	GLN A 548	40.060	-10.084	-14.419	1.00	37.67	O
ATOM	5433	CB	GLN A 548	37.769	-8.695	-16.268	1.00	38.24	C
ATOM	5434	CG	GLN A 548	36.420	-7.986	-16.448	1.00	38.45	C
ATOM	5435	CD	GLN A 548	36.324	-7.177	-17.745	1.00	38.64	C
ATOM	5436	OE1	GLN A 548	35.285	-7.105	-18.378	1.00	38.81	O

ATOM	5437	NE2 GLN A 548	37.386	-6.568	-18.228	1.00	38.63	N
ATOM	5438	HN GLN A 548	38.307	-8.741	-13.381	1.00	0.00	H
ATOM	5439	1HE2 GLN A 548	38.290	-6.686	-17.807	1.00	0.00	H
ATOM	5440	2HE2 GLN A 548	37.279	-6.137	-19.132	1.00	0.00	H
ATOM	5441	HA GLN A 548	37.040	-10.519	-15.380	1.00	38.26	H
ATOM	5442	HB1 GLN A 548	38.517	-7.940	-16.026	1.00	38.26	H
ATOM	5443	HB2 GLN A 548	38.027	-9.173	-17.213	1.00	38.26	H
ATOM	5444	HG1 GLN A 548	35.632	-8.739	-16.452	1.00	38.26	H
ATOM	5445	HG2 GLN A 548	36.271	-7.309	-15.607	1.00	38.26	H
ATOM	5446	N VAL A 549	39.417	-11.281	-16.218	1.00	23.90	N
ATOM	5447	CA VAL A 549	40.751	-11.695	-16.682	1.00	23.78	C
ATOM	5448	C VAL A 549	40.706	-12.018	-18.191	1.00	23.92	C
ATOM	5449	O VAL A 549	39.733	-12.636	-18.636	1.00	24.02	O
ATOM	5450	CB VAL A 549	41.277	-12.878	-15.835	1.00	23.57	C
ATOM	5451	CG1 VAL A 549	40.557	-14.206	-16.109	1.00	23.62	C
ATOM	5452	CG2 VAL A 549	42.782	-13.096	-16.004	1.00	23.45	C
ATOM	5453	HN VAL A 549	38.631	-11.555	-16.804	1.00	0.00	H
ATOM	5454	HA VAL A 549	41.430	-10.854	-16.540	1.00	23.75	H
ATOM	5455	HB VAL A 549	41.103	-12.627	-14.789	1.00	23.75	H
ATOM	5456	1HG1 VAL A 549	40.981	-14.987	-15.478	1.00	23.75	H
ATOM	5457	2HG1 VAL A 549	40.682	-14.478	-17.157	1.00	23.75	H
ATOM	5458	3HG1 VAL A 549	39.495	-14.097	-15.887	1.00	23.75	H
ATOM	5459	1HG2 VAL A 549	43.099	-13.938	-15.388	1.00	23.75	H
ATOM	5460	2HG2 VAL A 549	43.317	-12.198	-15.694	1.00	23.75	H
ATOM	5461	3HG2 VAL A 549	43.004	-13.308	-17.050	1.00	23.75	H
ATOM	5462	N PRO A 550	41.671	-11.567	-19.015	1.00	47.09	N
ATOM	5463	CA PRO A 550	41.814	-12.059	-20.388	1.00	47.23	C

ATOM	5464	C	PRO A 550	42.198	-13.549	-20.396	1.00	47.14	C
ATOM	5465	O	PRO A 550	42.815	-14.042	-19.449	1.00	47.00	O
ATOM	5466	CB	PRO A 550	42.892	-11.179	-21.026	1.00	47.30	C
ATOM	5467	CG	PRO A 550	43.774	-10.790	-19.843	1.00	47.15	C
ATOM	5468	CD	PRO A 550	42.778	-10.674	-18.689	1.00	47.02	C
ATOM	5469	HA	PRO A 550	40.873	-11.924	-20.921	1.00	47.13	H
ATOM	5470	HB1	PRO A 550	43.461	-11.736	-21.770	1.00	47.13	H
ATOM	5471	HB2	PRO A 550	42.451	-10.297	-21.491	1.00	47.13	H
ATOM	5472	HG1	PRO A 550	44.519	-11.560	-19.641	1.00	47.13	H
ATOM	5473	HG2	PRO A 550	44.274	-9.839	-20.025	1.00	47.13	H
ATOM	5474	HD1	PRO A 550	43.247	-10.979	-17.753	1.00	47.13	H
ATOM	5475	HD2	PRO A 550	42.422	-9.648	-18.599	1.00	47.13	H
ATOM	5476	N	LEU A 551	41.780	-14.292	-21.424	1.00	45.69	N
ATOM	5477	CA	LEU A 551	42.152	-15.708	-21.600	1.00	45.66	C
ATOM	5478	C	LEU A 551	43.313	-15.930	-22.584	1.00	45.74	C
ATOM	5479	O	LEU A 551	43.915	-17.003	-22.566	1.00	45.70	O
ATOM	5480	CB	LEU A 551	40.908	-16.515	-21.998	1.00	45.79	C
ATOM	5481	CG	LEU A 551	39.814	-16.563	-20.916	1.00	45.70	C
ATOM	5482	CD1	LEU A 551	38.662	-17.422	-21.430	1.00	45.87	C
ATOM	5483	CD2	LEU A 551	40.292	-17.178	-19.594	1.00	45.57	C
ATOM	5484	HN	LEU A 551	41.217	-13.848	-22.145	1.00	0.00	H
ATOM	5485	HA	LEU A 551	42.478	-16.078	-20.628	1.00	45.72	H
ATOM	5486	HB1	LEU A 551	40.482	-16.066	-22.895	1.00	45.72	H
ATOM	5487	HB2	LEU A 551	41.219	-17.537	-22.215	1.00	45.72	H
ATOM	5488	HG	LEU A 551	39.451	-15.552	-20.730	1.00	45.72	H
ATOM	5489	1HD1	LEU A 551	37.877	-17.467	-20.675	1.00	45.72	H
ATOM	5490	2HD1	LEU A 551	39.024	-18.429	-21.638	1.00	45.72	H

ATOM	5491	3HD1	LEU A 551	38.262	-16.984	-22.344	1.00	45.72	H
ATOM	5492	1HD2	LEU A 551	39.472	-17.181	-18.876	1.00	45.72	H
ATOM	5493	2HD2	LEU A 551	41.119	-16.590	-19.197	1.00	45.72	H
ATOM	5494	3HD2	LEU A 551	40.625	-18.201	-19.768	1.00	45.72	H
ATOM	5495	N	ALA A 552	43.634	-14.908	-23.375	1.00	24.27	N
ATOM	5496	CA	ALA A 552	44.817	-14.755	-24.218	1.00	24.37	C
ATOM	5497	C	ALA A 552	44.986	-13.252	-24.541	1.00	24.41	C
ATOM	5498	O	ALA A 552	44.158	-12.438	-24.119	1.00	24.35	O
ATOM	5499	CB	ALA A 552	44.644	-15.607	-25.482	1.00	24.56	C
ATOM	5500	HN	ALA A 552	43.098	-14.058	-23.282	1.00	0.00	H
ATOM	5501	HA	ALA A 552	45.693	-15.103	-23.670	1.00	24.39	H
ATOM	5502	HB1	ALA A 552	45.523	-15.498	-26.117	1.00	24.39	H
ATOM	5503	HB2	ALA A 552	43.760	-15.275	-26.026	1.00	24.39	H
ATOM	5504	HB3	ALA A 552	44.526	-16.654	-25.202	1.00	24.39	H
ATOM	5505	N	GLU A 553	46.078	-12.879	-25.203	1.00	35.47	N
ATOM	5506	CA	GLU A 553	46.497	-11.494	-25.452	1.00	35.58	C
ATOM	5507	C	GLU A 553	45.467	-10.642	-26.232	1.00	35.70	C
ATOM	5508	O	GLU A 553	44.558	-11.151	-26.893	1.00	35.71	O
ATOM	5509	CB	GLU A 553	47.876	-11.500	-26.146	1.00	35.73	C
ATOM	5510	CG	GLU A 553	49.066	-11.778	-25.203	1.00	35.68	C
ATOM	5511	CD	GLU A 553	49.009	-13.103	-24.417	1.00	35.83	C
ATOM	5512	OE1	GLU A 553	48.527	-14.117	-24.974	1.00	35.88	O
ATOM	5513	OE2	GLU A 553	49.403	-13.083	-23.228	1.00	35.90	O
ATOM	5514	HN	GLU A 553	46.786	-13.593	-25.380	1.00	0.00	H
ATOM	5515	HA	GLU A 553	46.631	-11.021	-24.479	1.00	35.72	H
ATOM	5516	HB1	GLU A 553	47.866	-12.270	-26.917	1.00	35.72	H
ATOM	5517	HB2	GLU A 553	48.029	-10.525	-26.608	1.00	35.72	H

ATOM	5518	HG1	GLU	A 553	49.974	-11.786	-25.806	1.00	35.72	H
ATOM	5519	HG2	GLU	A 553	49.116	-10.963	-24.480	1.00	35.72	H
ATOM	5520	N	ASP	A 554	45.566	-9.315	-26.093	1.00	27.42	N
ATOM	5521	CA	ASP	A 554	44.496	-8.365	-26.440	1.00	27.55	C
ATOM	5522	C	ASP	A 554	44.093	-8.301	-27.930	1.00	27.68	C
ATOM	5523	O	ASP	A 554	42.989	-7.836	-28.225	1.00	27.74	O
ATOM	5524	CB	ASP	A 554	44.880	-6.958	-25.936	1.00	27.65	C
ATOM	5525	CG	ASP	A 554	44.638	-6.757	-24.434	1.00	27.56	C
ATOM	5526	OD1	ASP	A 554	43.468	-6.950	-24.023	1.00	27.40	O
ATOM	5527	OD2	ASP	A 554	45.489	-6.093	-23.804	1.00	27.67	O
ATOM	5528	HN	ASP	A 554	46.338	-8.953	-25.555	1.00	0.00	H
ATOM	5529	HA	ASP	A 554	43.609	-8.670	-25.884	1.00	27.58	H
ATOM	5530	HB1	ASP	A 554	45.939	-6.796	-26.139	1.00	27.58	H
ATOM	5531	HB2	ASP	A 554	44.288	-6.223	-26.482	1.00	27.58	H
ATOM	5532	N	ASP	A 555	44.924	-8.767	-28.865	1.00	27.90	N
ATOM	5533	CA	ASP	A 555	44.605	-8.863	-30.299	1.00	28.05	C
ATOM	5534	C	ASP	A 555	44.078	-10.250	-30.725	1.00	28.03	C
ATOM	5535	O	ASP	A 555	43.693	-10.434	-31.881	1.00	28.16	O
ATOM	5536	CB	ASP	A 555	45.842	-8.477	-31.135	1.00	28.16	C
ATOM	5537	CG	ASP	A 555	47.061	-9.401	-30.975	1.00	28.10	C
ATOM	5538	OD1	ASP	A 555	47.123	-10.148	-29.970	1.00	27.96	O
ATOM	5539	OD2	ASP	A 555	47.971	-9.284	-31.826	1.00	28.20	O
ATOM	5540	HN	ASP	A 555	45.802	-9.192	-28.581	1.00	0.00	H
ATOM	5541	HA	ASP	A 555	43.823	-8.134	-30.512	1.00	28.07	H
ATOM	5542	HB1	ASP	A 555	45.552	-8.482	-32.186	1.00	28.07	H
ATOM	5543	HB2	ASP	A 555	46.143	-7.470	-30.845	1.00	28.07	H
ATOM	5544	N	THR	A 556	44.065	-11.241	-29.827	1.00	25.17	N

ATOM	5545	CA	THR A 556	43.853	-12.647	-30.208	1.00	25.16	C
ATOM	5546	C	THR A 556	42.453	-12.929	-30.762	1.00	25.25	C
ATOM	5547	O	THR A 556	41.425	-12.483	-30.239	1.00	25.21	O
ATOM	5548	CB	THR A 556	44.199	-13.636	-29.086	1.00	24.98	C
ATOM	5549	OG1	THR A 556	43.480	-13.376	-27.903	1.00	24.90	O
ATOM	5550	CG2	THR A 556	45.696	-13.631	-28.785	1.00	24.89	C
ATOM	5551	HN	THR A 556	44.424	-11.039	-28.901	1.00	0.00	H
ATOM	5552	HG1	THR A 556	43.869	-12.569	-27.509	1.00	0.00	H
ATOM	5553	HA	THR A 556	44.550	-12.851	-31.021	1.00	25.08	H
ATOM	5554	HB	THR A 556	43.930	-14.636	-29.427	1.00	25.08	H
ATOM	5555	1HG2	THR A 556	45.909	-14.341	-27.986	1.00	25.08	H
ATOM	5556	2HG2	THR A 556	46.001	-12.632	-28.473	1.00	25.08	H
ATOM	5557	3HG2	THR A 556	46.248	-13.916	-29.681	1.00	25.08	H
ATOM	5558	N	ASN A 557	42.428	-13.715	-31.844	1.00	25.38	N
ATOM	5559	CA	ASN A 557	41.236	-14.024	-32.630	1.00	25.47	C
ATOM	5560	C	ASN A 557	40.294	-14.957	-31.851	1.00	25.41	C
ATOM	5561	O	ASN A 557	40.629	-16.120	-31.625	1.00	25.38	O
ATOM	5562	CB	ASN A 557	41.617	-14.676	-33.982	1.00	25.65	C
ATOM	5563	CG	ASN A 557	42.867	-14.140	-34.657	1.00	25.72	C
ATOM	5564	OD1	ASN A 557	42.810	-13.580	-35.745	1.00	25.68	O
ATOM	5565	ND2	ASN A 557	44.016	-14.604	-34.222	1.00	25.86	N
ATOM	5566	HN	ASN A 557	43.313	-14.023	-32.213	1.00	0.00	H
ATOM	5567	1HD2	ASN A 557	44.017	-15.343	-33.524	1.00	0.00	H
ATOM	5568	2HD2	ASN A 557	44.873	-14.262	-34.637	1.00	0.00	H
ATOM	5569	HA	ASN A 557	40.707	-13.093	-32.834	1.00	25.57	H
ATOM	5570	HB1	ASN A 557	41.765	-15.742	-33.807	1.00	25.57	H
ATOM	5571	HB2	ASN A 557	40.782	-14.532	-34.667	1.00	25.57	H

ATOM	5572	N	ALA A 558	39.043	-14.557	-31.629	1.00	25.42	N
ATOM	5573	CA	ALA A 558	38.017	-15.404	-31.025	1.00	25.40	C
ATOM	5574	C	ALA A 558	36.608	-15.069	-31.541	1.00	25.54	C
ATOM	5575	O	ALA A 558	36.220	-13.909	-31.642	1.00	25.61	O
ATOM	5576	CB	ALA A 558	38.141	-15.320	-29.498	1.00	25.23	C
ATOM	5577	HN	ALA A 558	38.783	-13.618	-31.919	1.00	0.00	H
ATOM	5578	HA	ALA A 558	38.233	-16.433	-31.313	1.00	25.44	H
ATOM	5579	HB1	ALA A 558	37.380	-15.949	-29.036	1.00	25.44	H
ATOM	5580	HB2	ALA A 558	38.002	-14.287	-29.178	1.00	25.44	H
ATOM	5581	HB3	ALA A 558	39.129	-15.664	-29.194	1.00	25.44	H
ATOM	5582	N	GLN A 559	35.828	-16.103	-31.873	1.00	25.58	N
ATOM	5583	CA	GLN A 559	34.526	-15.982	-32.543	1.00	25.73	C
ATOM	5584	C	GLN A 559	33.333	-16.170	-31.593	1.00	25.74	C
ATOM	5585	O	GLN A 559	32.337	-15.453	-31.701	1.00	25.69	O
ATOM	5586	CB	GLN A 559	34.480	-16.985	-33.714	1.00	25.89	C
ATOM	5587	CG	GLN A 559	33.157	-16.936	-34.499	1.00	26.05	C
ATOM	5588	CD	GLN A 559	33.195	-17.799	-35.759	1.00	26.20	C
ATOM	5589	OE1	GLN A 559	33.313	-17.314	-36.873	1.00	26.18	O
ATOM	5590	NE2	GLN A 559	33.064	-19.101	-35.648	1.00	26.37	N
ATOM	5591	HN	GLN A 559	36.214	-17.030	-31.724	1.00	0.00	H
ATOM	5592	1HE2	GLN A 559	33.000	-19.557	-34.731	1.00	0.00	H
ATOM	5593	2HE2	GLN A 559	33.138	-19.652	-36.479	1.00	0.00	H
ATOM	5594	HA	GLN A 559	34.461	-14.978	-32.963	1.00	25.94	H
ATOM	5595	HB1	GLN A 559	35.298	-16.757	-34.398	1.00	25.94	H
ATOM	5596	HB2	GLN A 559	34.609	-17.991	-33.314	1.00	25.94	H
ATOM	5597	HG1	GLN A 559	32.354	-17.293	-33.854	1.00	25.94	H
ATOM	5598	HG2	GLN A 559	32.960	-15.904	-34.788	1.00	25.94	H



ATOM	5599	N	LYS A 560	33.388	-17.173	-30.710	1.00	25.84	N
ATOM	5600	CA	LYS A 560	32.240	-17.681	-29.938	1.00	25.93	C
ATOM	5601	C	LYS A 560	32.682	-18.168	-28.564	1.00	25.81	C
ATOM	5602	O	LYS A 560	33.741	-18.776	-28.438	1.00	25.84	O
ATOM	5603	CB	LYS A 560	31.547	-18.790	-30.760	1.00	26.15	C
ATOM	5604	CG	LYS A 560	30.540	-19.664	-29.994	1.00	26.30	C
ATOM	5605	CD	LYS A 560	29.769	-20.596	-30.941	1.00	26.56	C
ATOM	5606	CE	LYS A 560	29.078	-21.752	-30.200	1.00	26.73	C
ATOM	5607	NZ	LYS A 560	28.161	-21.295	-29.125	1.00	26.76	N1+
ATOM	5608	HN	LYS A 560	34.251	-17.700	-30.663	1.00	0.00	H
ATOM	5609	HZ1	LYS A 560	27.730	-22.091	-28.676	1.00	0.00	H
ATOM	5610	HZ2	LYS A 560	28.666	-20.774	-28.414	1.00	0.00	H
ATOM	5611	HZ3	LYS A 560	27.435	-20.693	-29.488	1.00	0.00	H
ATOM	5612	HA	LYS A 560	31.532	-16.864	-29.800	1.00	26.21	H
ATOM	5613	HB1	LYS A 560	31.016	-18.313	-31.584	1.00	26.21	H
ATOM	5614	HB2	LYS A 560	32.322	-19.445	-31.158	1.00	26.21	H
ATOM	5615	HG1	LYS A 560	31.079	-20.268	-29.264	1.00	26.21	H
ATOM	5616	HG2	LYS A 560	29.830	-19.017	-29.478	1.00	26.21	H
ATOM	5617	HD1	LYS A 560	29.010	-20.013	-31.463	1.00	26.21	H
ATOM	5618	HD2	LYS A 560	30.468	-21.014	-31.665	1.00	26.21	H
ATOM	5619	HE1	LYS A 560	28.503	-22.331	-30.922	1.00	26.21	H
ATOM	5620	HE2	LYS A 560	29.845	-22.385	-29.754	1.00	26.21	H
ATOM	5621	N	THR A 561	31.786	-18.091	-27.583	1.00	25.67	N
ATOM	5622	CA	THR A 561	32.006	-18.621	-26.226	1.00	25.51	C
ATOM	5623	C	THR A 561	30.860	-19.538	-25.787	1.00	25.62	C
ATOM	5624	O	THR A 561	29.787	-19.525	-26.393	1.00	25.77	O
ATOM	5625	CB	THR A 561	32.270	-17.490	-25.211	1.00	25.34	C

ATOM	5626	OG1 THR A 561	31.074	-16.897	-24.764	1.00	25.43	O
ATOM	5627	CG2 THR A 561	33.141	-16.368	-25.789	1.00	25.28	C
ATOM	5628	HN THR A 561	30.932	-17.574	-27.755	1.00	0.00	H
ATOM	5629	HG1 THR A 561	31.319	-16.152	-24.181	1.00	0.00	H
ATOM	5630	HA THR A 561	32.907	-19.233	-26.264	1.00	25.52	H
ATOM	5631	HB THR A 561	32.785	-17.915	-24.350	1.00	25.52	H
ATOM	5632	1HG2 THR A 561	33.294	-15.599	-25.031	1.00	25.52	H
ATOM	5633	2HG2 THR A 561	32.643	-15.930	-26.654	1.00	25.52	H
ATOM	5634	3HG2 THR A 561	34.105	-16.776	-26.093	1.00	25.52	H
ATOM	5635	N ILE A 562	31.105	-20.429	-24.824	1.00	35.26	N
ATOM	5636	CA ILE A 562	30.079	-21.182	-24.076	1.00	35.34	C
ATOM	5637	C ILE A 562	30.595	-21.341	-22.644	1.00	35.14	C
ATOM	5638	O ILE A 562	31.689	-21.875	-22.481	1.00	34.97	O
ATOM	5639	CB ILE A 562	29.778	-22.581	-24.682	1.00	35.57	C
ATOM	5640	CG1 ILE A 562	29.423	-22.537	-26.186	1.00	35.76	C
ATOM	5641	CG2 ILE A 562	28.645	-23.257	-23.883	1.00	35.71	C
ATOM	5642	CD1 ILE A 562	29.248	-23.908	-26.846	1.00	36.03	C
ATOM	5643	HN ILE A 562	32.060	-20.505	-24.483	1.00	0.00	H
ATOM	5644	HA ILE A 562	29.158	-20.600	-24.057	1.00	35.47	H
ATOM	5645	HB ILE A 562	30.674	-23.192	-24.570	1.00	35.47	H
ATOM	5646	1HG1 ILE A 562	28.489	-21.986	-26.298	1.00	35.47	H
ATOM	5647	2HG1 ILE A 562	30.222	-22.010	-26.707	1.00	35.47	H
ATOM	5648	1HG2 ILE A 562	28.435	-24.238	-24.309	1.00	35.47	H
ATOM	5649	2HG2 ILE A 562	27.747	-22.640	-23.932	1.00	35.47	H
ATOM	5650	3HG2 ILE A 562	28.951	-23.371	-22.843	1.00	35.47	H
ATOM	5651	1HD1 ILE A 562	29.001	-23.776	-27.899	1.00	35.47	H
ATOM	5652	2HD1 ILE A 562	28.443	-24.451	-26.350	1.00	35.47	H

ATOM	5653	3HD1 ILE A 562	30.175	-24.475	-26.759	1.00	35.47	H
ATOM	5654	N THR A 563	29.848	-20.909	-21.625	1.00	25.46	N
ATOM	5655	CA THR A 563	30.239	-21.043	-20.209	1.00	25.29	C
ATOM	5656	C THR A 563	29.170	-21.768	-19.396	1.00	25.43	C
ATOM	5657	O THR A 563	28.071	-21.240	-19.220	1.00	25.61	O
ATOM	5658	CB THR A 563	30.554	-19.680	-19.570	1.00	25.10	C
ATOM	5659	OG1 THR A 563	31.510	-18.986	-20.351	1.00	24.97	O
ATOM	5660	CG2 THR A 563	31.101	-19.840	-18.148	1.00	24.92	C
ATOM	5661	HN THR A 563	28.953	-20.464	-21.827	1.00	0.00	H
ATOM	5662	HG1 THR A 563	31.009	-18.688	-21.123	1.00	0.00	H
ATOM	5663	HA THR A 563	31.148	-21.644	-20.172	1.00	25.25	H
ATOM	5664	HB THR A 563	29.638	-19.090	-19.530	1.00	25.25	H
ATOM	5665	1HG2 THR A 563	31.313	-18.857	-17.727	1.00	25.25	H
ATOM	5666	2HG2 THR A 563	32.018	-20.428	-18.175	1.00	25.25	H
ATOM	5667	3HG2 THR A 563	30.362	-20.348	-17.529	1.00	25.25	H
ATOM	5668	N ASP A 564	29.554	-22.875	-18.757	1.00	25.36	N
ATOM	5669	CA ASP A 564	28.732	-23.626	-17.797	1.00	25.49	C
ATOM	5670	C ASP A 564	29.445	-23.727	-16.432	1.00	25.26	C
ATOM	5671	O ASP A 564	30.665	-23.899	-16.383	1.00	25.16	O
ATOM	5672	CB ASP A 564	28.341	-25.012	-18.352	1.00	25.74	C
ATOM	5673	CG ASP A 564	27.499	-25.017	-19.644	1.00	25.95	C
ATOM	5674	OD1 ASP A 564	26.931	-23.966	-20.022	1.00	26.05	O
ATOM	5675	OD2 ASP A 564	27.259	-26.122	-20.172	1.00	26.04	O
ATOM	5676	HN ASP A 564	30.515	-23.185	-18.872	1.00	0.00	H
ATOM	5677	HA ASP A 564	27.811	-23.063	-17.644	1.00	25.63	H
ATOM	5678	HB1 ASP A 564	29.261	-25.561	-18.553	1.00	25.63	H
ATOM	5679	HB2 ASP A 564	27.770	-25.529	-17.581	1.00	25.63	H

ATOM	5680	N	CYS A 565	28.711	-23.600	-15.317	1.00	25.19	N
ATOM	5681	CA	CYS A 565	29.288	-23.544	-13.963	1.00	24.91	C
ATOM	5682	C	CYS A 565	28.628	-24.526	-12.979	1.00	24.97	C
ATOM	5683	O	CYS A 565	27.448	-24.856	-13.087	1.00	25.23	O
ATOM	5684	CB	CYS A 565	29.248	-22.110	-13.412	1.00	24.75	C
ATOM	5685	SG	CYS A 565	29.929	-20.789	-14.458	1.00	24.74	S
ATOM	5686	HN	CYS A 565	27.710	-23.484	-15.398	1.00	0.00	H
ATOM	5687	HA	CYS A 565	30.337	-23.828	-14.047	1.00	24.97	H
ATOM	5688	HB1	CYS A 565	28.204	-21.865	-13.215	1.00	24.97	H
ATOM	5689	HB2	CYS A 565	29.806	-22.105	-12.475	1.00	24.97	H
ATOM	5690	N	PHE A 566	29.408	-24.998	-12.005	1.00	24.71	N
ATOM	5691	CA	PHE A 566	29.070	-26.101	-11.101	1.00	24.74	C
ATOM	5692	C	PHE A 566	29.947	-26.077	-9.832	1.00	24.42	C
ATOM	5693	O	PHE A 566	30.757	-25.170	-9.634	1.00	24.18	O
ATOM	5694	CB	PHE A 566	29.207	-27.430	-11.875	1.00	24.88	C
ATOM	5695	CG	PHE A 566	30.536	-27.636	-12.581	1.00	24.74	C
ATOM	5696	CD1	PHE A 566	31.601	-28.282	-11.925	1.00	24.45	C
ATOM	5697	CD2	PHE A 566	30.700	-27.194	-13.909	1.00	24.89	C
ATOM	5698	CE1	PHE A 566	32.823	-28.480	-12.591	1.00	24.33	C
ATOM	5699	CE2	PHE A 566	31.923	-27.385	-14.572	1.00	24.78	C
ATOM	5700	CZ	PHE A 566	32.984	-28.030	-13.914	1.00	24.51	C
ATOM	5701	HN	PHE A 566	30.362	-24.648	-11.955	1.00	0.00	H
ATOM	5702	HA	PHE A 566	28.029	-25.988	-10.799	1.00	24.60	H
ATOM	5703	HB1	PHE A 566	29.072	-28.247	-11.167	1.00	24.60	H
ATOM	5704	HB2	PHE A 566	28.418	-27.465	-12.626	1.00	24.60	H
ATOM	5705	HD1	PHE A 566	31.478	-28.629	-10.899	1.00	24.60	H
ATOM	5706	HD2	PHE A 566	29.874	-26.702	-14.423	1.00	24.60	H

ATOM	5707	HE1 PHE A 566	33.646	-28.982	-12.082	1.00	24.60	H
ATOM	5708	HE2 PHE A 566	32.049	-27.033	-15.596	1.00	24.60	H
ATOM	5709	HZ PHE A 566	33.933	-28.182	-14.429	1.00	24.60	H
ATOM	5710	N LEU A 567	29.728	-27.028	-8.919	1.00	24.42	N
ATOM	5711	CA LEU A 567	30.560	-27.230	-7.728	1.00	24.10	C
ATOM	5712	C LEU A 567	31.562	-28.372	-7.941	1.00	24.02	C
ATOM	5713	O LEU A 567	31.174	-29.437	-8.414	1.00	24.26	O
ATOM	5714	CB LEU A 567	29.673	-27.522	-6.502	1.00	24.11	C
ATOM	5715	CG LEU A 567	28.669	-26.417	-6.127	1.00	23.97	C
ATOM	5716	CD1 LEU A 567	27.853	-26.858	-4.912	1.00	24.06	C
ATOM	5717	CD2 LEU A 567	29.362	-25.101	-5.780	1.00	23.59	C
ATOM	5718	HN LEU A 567	29.099	-27.778	-9.164	1.00	0.00	H
ATOM	5719	HA LEU A 567	31.118	-26.313	-7.538	1.00	24.07	H
ATOM	5720	HB1 LEU A 567	29.109	-28.432	-6.706	1.00	24.07	H
ATOM	5721	HB2 LEU A 567	30.328	-27.684	-5.646	1.00	24.07	H
ATOM	5722	HG LEU A 567	27.994	-26.252	-6.967	1.00	24.07	H
ATOM	5723	1HD1 LEU A 567	27.142	-26.075	-4.647	1.00	24.07	H
ATOM	5724	2HD1 LEU A 567	28.522	-27.040	-4.071	1.00	24.07	H
ATOM	5725	3HD1 LEU A 567	27.312	-27.774	-5.150	1.00	24.07	H
ATOM	5726	1HD2 LEU A 567	28.613	-24.352	-5.522	1.00	24.07	H
ATOM	5727	2HD2 LEU A 567	29.939	-24.756	-6.638	1.00	24.07	H
ATOM	5728	3HD2 LEU A 567	30.029	-25.254	-4.932	1.00	24.07	H
ATOM	5729	N LEU A 568	32.764	-28.232	-7.381	1.00	37.61	N
ATOM	5730	CA LEU A 568	33.765	-29.298	-7.254	1.00	37.49	C
ATOM	5731	C LEU A 568	34.573	-29.096	-5.958	1.00	37.18	C
ATOM	5732	O LEU A 568	34.895	-27.959	-5.620	1.00	36.95	O
ATOM	5733	CB LEU A 568	34.638	-29.307	-8.520	1.00	37.38	C

ATOM	5734	CG	LEU A 568	35.660	-30.462	-8.538	1.00	37.30	C
ATOM	5735	CD1	LEU A 568	35.408	-31.381	-9.734	1.00	37.65	C
ATOM	5736	CD2	LEU A 568	37.081	-29.901	-8.594	1.00	37.12	C
ATOM	5737	HN	LEU A 568	33.019	-27.317	-7.019	1.00	0.00	H
ATOM	5738	HA	LEU A 568	33.244	-30.253	-7.189	1.00	37.34	H
ATOM	5739	HB1	LEU A 568	33.988	-29.405	-9.390	1.00	37.34	H
ATOM	5740	HB2	LEU A 568	35.180	-28.363	-8.575	1.00	37.34	H
ATOM	5741	HG	LEU A 568	35.549	-31.042	-7.622	1.00	37.33	H
ATOM	5742	1HD1	LEU A 568	36.138	-32.190	-9.731	1.00	37.33	H
ATOM	5743	2HD1	LEU A 568	35.503	-30.810	-10.658	1.00	37.33	H
ATOM	5744	3HD1	LEU A 568	34.403	-31.798	-9.667	1.00	37.33	H
ATOM	5745	1HD2	LEU A 568	37.797	-30.723	-8.606	1.00	37.34	H
ATOM	5746	2HD2	LEU A 568	37.261	-29.277	-7.719	1.00	37.34	H
ATOM	5747	3HD2	LEU A 568	37.201	-29.302	-9.497	1.00	37.34	H
ATOM	5748	N	GLU A 569	34.601	-30.117	-5.091	1.00	54.42	N
ATOM	5749	CA	GLU A 569	34.884	-29.982	-3.643	1.00	54.12	C
ATOM	5750	C	GLU A 569	34.048	-28.886	-2.936	1.00	53.97	C
ATOM	5751	O	GLU A 569	34.477	-28.274	-1.959	1.00	53.64	O
ATOM	5752	CB	GLU A 569	36.395	-29.860	-3.355	1.00	53.83	C
ATOM	5753	CG	GLU A 569	37.145	-31.197	-3.465	1.00	53.98	C
ATOM	5754	CD	GLU A 569	38.189	-31.377	-2.348	1.00	53.70	C
ATOM	5755	OE1	GLU A 569	38.820	-30.375	-1.927	1.00	53.38	O
ATOM	5756	OE2	GLU A 569	38.680	-32.515	-2.173	1.00	53.81	O
ATOM	5757	HN	GLU A 569	34.370	-31.036	-5.440	1.00	0.00	H
ATOM	5758	HA	GLU A 569	34.574	-30.925	-3.193	1.00	53.87	H
ATOM	5759	HB1	GLU A 569	36.828	-29.161	-4.070	1.00	53.87	H
ATOM	5760	HB2	GLU A 569	36.524	-29.473	-2.344	1.00	53.87	H

ATOM	5761	HG1 GLU A 569	36.422	-32.010	-3.403	1.00	53.87	H
ATOM	5762	HG2 GLU A 569	37.653	-31.235	-4.429	1.00	53.87	H
ATOM	5763	N ASN A 570	32.802	-28.675	-3.380	1.00	45.28	N
ATOM	5764	CA ASN A 570	31.907	-27.593	-2.925	1.00	45.21	C
ATOM	5765	C ASN A 570	32.383	-26.165	-3.288	1.00	45.11	C
ATOM	5766	O ASN A 570	31.709	-25.190	-2.958	1.00	45.02	O
ATOM	5767	CB ASN A 570	31.563	-27.725	-1.424	1.00	44.92	C
ATOM	5768	CG ASN A 570	31.368	-29.150	-0.942	1.00	44.92	C
ATOM	5769	OD1 ASN A 570	30.305	-29.729	-1.059	1.00	45.19	O
ATOM	5770	ND2 ASN A 570	32.399	-29.763	-0.407	1.00	44.61	N
ATOM	5771	HN ASN A 570	32.498	-29.235	-4.161	1.00	0.00	H
ATOM	5772	1HD2 ASN A 570	33.303	-29.311	-0.454	1.00	0.00	H
ATOM	5773	2HD2 ASN A 570	32.270	-30.719	-0.134	1.00	0.00	H
ATOM	5774	HA ASN A 570	30.968	-27.739	-3.459	1.00	45.03	H
ATOM	5775	HB1 ASN A 570	32.375	-27.280	-0.849	1.00	45.03	H
ATOM	5776	HB2 ASN A 570	30.641	-27.174	-1.237	1.00	45.03	H
ATOM	5777	N VAL A 571	33.491	-26.020	-4.022	1.00	22.99	N
ATOM	5778	CA VAL A 571	33.969	-24.747	-4.578	1.00	22.91	C
ATOM	5779	C VAL A 571	33.324	-24.503	-5.943	1.00	23.18	C
ATOM	5780	O VAL A 571	33.290	-25.400	-6.783	1.00	23.36	O
ATOM	5781	CB VAL A 571	35.508	-24.732	-4.680	1.00	22.60	C
ATOM	5782	CG1 VAL A 571	36.033	-23.389	-5.208	1.00	22.53	C
ATOM	5783	CG2 VAL A 571	36.159	-24.977	-3.311	1.00	22.33	C
ATOM	5784	HN VAL A 571	33.989	-26.857	-4.310	1.00	0.00	H
ATOM	5785	HA VAL A 571	33.663	-23.944	-3.907	1.00	22.84	H
ATOM	5786	HB VAL A 571	35.821	-25.522	-5.362	1.00	22.84	H
ATOM	5787	1HG1 VAL A 571	37.121	-23.421	-5.265	1.00	22.84	H

ATOM	5788	2HG1 VAL A 571	35.728	-22.589	-4.534	1.00	22.84	H
ATOM	5789	3HG1 VAL A 571	35.623	-23.203	-6.201	1.00	22.84	H
ATOM	5790	1HG2 VAL A 571	37.244	-24.961	-3.416	1.00	22.84	H
ATOM	5791	2HG2 VAL A 571	35.846	-25.948	-2.928	1.00	22.84	H
ATOM	5792	3HG2 VAL A 571	35.850	-24.196	-2.616	1.00	22.84	H
ATOM	5793	N ILE A 572	32.876	-23.270	-6.200	1.00	36.75	N
ATOM	5794	CA ILE A 572	32.316	-22.881	-7.499	1.00	37.02	C
ATOM	5795	C ILE A 572	33.428	-22.871	-8.564	1.00	36.99	C
ATOM	5796	O ILE A 572	34.371	-22.074	-8.495	1.00	36.81	O
ATOM	5797	CB ILE A 572	31.559	-21.530	-7.438	1.00	37.10	C
ATOM	5798	CG1 ILE A 572	30.408	-21.464	-6.404	1.00	37.10	C
ATOM	5799	CG2 ILE A 572	30.949	-21.216	-8.819	1.00	37.41	C
ATOM	5800	CD1 ILE A 572	30.844	-21.176	-4.960	1.00	36.79	C
ATOM	5801	HN ILE A 572	32.924	-22.578	-5.473	1.00	0.00	H
ATOM	5802	HA ILE A 572	31.595	-23.647	-7.786	1.00	37.00	H
ATOM	5803	HB ILE A 572	32.278	-20.747	-7.197	1.00	37.00	H
ATOM	5804	1HG1 ILE A 572	29.722	-20.675	-6.713	1.00	37.00	H
ATOM	5805	2HG1 ILE A 572	29.889	-22.423	-6.415	1.00	37.00	H
ATOM	5806	1HG2 ILE A 572	30.417	-20.266	-8.774	1.00	37.00	H
ATOM	5807	2HG2 ILE A 572	30.254	-22.008	-9.098	1.00	37.00	H
ATOM	5808	3HG2 ILE A 572	31.744	-21.152	-9.562	1.00	37.00	H
ATOM	5809	1HD1 ILE A 572	29.967	-21.150	-4.313	1.00	37.00	H
ATOM	5810	2HD1 ILE A 572	31.354	-20.213	-4.919	1.00	37.00	H
ATOM	5811	3HD1 ILE A 572	31.521	-21.960	-4.621	1.00	37.00	H
ATOM	5812	N TRP A 573	33.221	-23.646	-9.624	1.00	23.66	N
ATOM	5813	CA TRP A 573	34.004	-23.652	-10.859	1.00	23.67	C
ATOM	5814	C TRP A 573	33.111	-23.305	-12.051	1.00	23.94	C



ATOM	5815	O	TRP A 573	31.931	-23.647	-12.076	1.00	24.17	O
ATOM	5816	CB	TRP A 573	34.646	-25.033	-11.057	1.00	23.66	C
ATOM	5817	CG	TRP A 573	35.935	-25.278	-10.333	1.00	23.37	C
ATOM	5818	CD1	TRP A 573	36.061	-25.804	-9.094	1.00	23.16	C
ATOM	5819	CD2	TRP A 573	37.299	-25.058	-10.811	1.00	23.23	C
ATOM	5820	NE1	TRP A 573	37.400	-25.981	-8.797	1.00	22.91	N
ATOM	5821	CE2	TRP A 573	38.209	-25.521	-9.814	1.00	22.95	C
ATOM	5822	CE3	TRP A 573	37.861	-24.560	-12.008	1.00	23.33	C
ATOM	5823	CZ2	TRP A 573	39.600	-25.486	-9.992	1.00	22.78	C
ATOM	5824	CZ3	TRP A 573	39.259	-24.502	-12.189	1.00	23.17	C
ATOM	5825	CH2	TRP A 573	40.127	-24.969	-11.188	1.00	22.90	C
ATOM	5826	HN	TRP A 573	32.381	-24.220	-9.628	1.00	0.00	H
ATOM	5827	HE1	TRP A 573	37.723	-26.535	-8.013	1.00	0.00	H
ATOM	5828	HA	TRP A 573	34.793	-22.904	-10.780	1.00	23.35	H
ATOM	5829	HB1	TRP A 573	33.930	-25.783	-10.722	1.00	23.35	H
ATOM	5830	HB2	TRP A 573	34.835	-25.161	-12.123	1.00	23.35	H
ATOM	5831	HD1	TRP A 573	35.233	-26.051	-8.430	1.00	23.35	H
ATOM	5832	HE3	TRP A 573	37.203	-24.215	-12.805	1.00	23.35	H
ATOM	5833	HZ2	TRP A 573	40.265	-25.856	-9.211	1.00	23.35	H
ATOM	5834	HZ3	TRP A 573	39.669	-24.092	-13.112	1.00	23.35	H
ATOM	5835	HH2	TRP A 573	41.206	-24.931	-11.338	1.00	23.35	H
ATOM	5836	N	CYS A 574	33.726	-22.774	-13.102	1.00	23.94	N
ATOM	5837	CA	CYS A 574	33.159	-22.695	-14.442	1.00	24.19	C
ATOM	5838	C	CYS A 574	34.091	-23.385	-15.442	1.00	24.21	C
ATOM	5839	O	CYS A 574	35.315	-23.285	-15.323	1.00	24.06	O
ATOM	5840	CB	CYS A 574	32.919	-21.229	-14.810	1.00	24.24	C
ATOM	5841	SG	CYS A 574	31.775	-20.338	-13.723	1.00	24.36	S

ATOM	5842	HN	CYS A 574	34.693	-22.492	-13.002	1.00	0.00	H
ATOM	5843	HA	CYS A 574	32.201	-23.215	-14.445	1.00	24.17	H
ATOM	5844	HB1	CYS A 574	33.879	-20.713	-14.784	1.00	24.17	H
ATOM	5845	HB2	CYS A 574	32.516	-21.197	-15.822	1.00	24.17	H
ATOM	5846	N	ILE A 575	33.514	-23.989	-16.478	1.00	24.44	N
ATOM	5847	CA	ILE A 575	34.205	-24.331	-17.721	1.00	24.55	C
ATOM	5848	C	ILE A 575	33.719	-23.359	-18.793	1.00	24.67	C
ATOM	5849	O	ILE A 575	32.521	-23.297	-19.075	1.00	24.76	O
ATOM	5850	CB	ILE A 575	33.947	-25.805	-18.112	1.00	24.79	C
ATOM	5851	CG1	ILE A 575	34.562	-26.794	-17.094	1.00	24.69	C
ATOM	5852	CG2	ILE A 575	34.447	-26.109	-19.538	1.00	25.03	C
ATOM	5853	CD1	ILE A 575	36.087	-26.936	-17.155	1.00	24.50	C
ATOM	5854	HN	ILE A 575	32.496	-23.990	-16.515	1.00	0.00	H
ATOM	5855	HA	ILE A 575	35.276	-24.188	-17.578	1.00	24.68	H
ATOM	5856	HB	ILE A 575	32.868	-25.960	-18.105	1.00	24.68	H
ATOM	5857	1HG1	ILE A 575	34.296	-26.455	-16.093	1.00	24.68	H
ATOM	5858	2HG1	ILE A 575	34.125	-27.776	-17.274	1.00	24.68	H
ATOM	5859	1HG2	ILE A 575	34.249	-27.154	-19.778	1.00	24.68	H
ATOM	5860	2HG2	ILE A 575	35.519	-25.920	-19.596	1.00	24.68	H
ATOM	5861	3HG2	ILE A 575	33.927	-25.468	-20.250	1.00	24.68	H
ATOM	5862	1HD1	ILE A 575	36.416	-27.652	-16.402	1.00	24.68	H
ATOM	5863	2HD1	ILE A 575	36.550	-25.968	-16.963	1.00	24.68	H
ATOM	5864	3HD1	ILE A 575	36.380	-27.289	-18.144	1.00	24.68	H
ATOM	5865	N	SER A 576	34.655	-22.674	-19.445	1.00	24.68	N
ATOM	5866	CA	SER A 576	34.400	-21.909	-20.662	1.00	24.85	C
ATOM	5867	C	SER A 576	35.076	-22.576	-21.855	1.00	25.00	C
ATOM	5868	O	SER A 576	36.304	-22.649	-21.925	1.00	24.96	O

ATOM	5869	CB	SER A 576	34.860	-20.458	-20.526	1.00	24.71	C
ATOM	5870	OG	SER A 576	34.121	-19.796	-19.517	1.00	24.50	O
ATOM	5871	HN	SER A 576	35.622	-22.790	-19.160	1.00	0.00	H
ATOM	5872	HG	SER A 576	33.221	-19.612	-19.845	1.00	0.00	H
ATOM	5873	HA	SER A 576	33.325	-21.907	-20.841	1.00	24.78	H
ATOM	5874	HB1	SER A 576	35.918	-20.440	-20.265	1.00	24.78	H
ATOM	5875	HB2	SER A 576	34.711	-19.944	-21.476	1.00	24.78	H
ATOM	5876	N	LEU A 577	34.289	-22.959	-22.857	1.00	25.18	N
ATOM	5877	CA	LEU A 577	34.793	-23.130	-24.215	1.00	25.31	C
ATOM	5878	C	LEU A 577	34.934	-21.749	-24.864	1.00	25.22	C
ATOM	5879	O	LEU A 577	33.976	-20.972	-24.865	1.00	25.02	O
ATOM	5880	CB	LEU A 577	33.834	-24.034	-25.012	1.00	25.60	C
ATOM	5881	CG	LEU A 577	34.391	-24.484	-26.375	1.00	25.77	C
ATOM	5882	CD1	LEU A 577	35.487	-25.538	-26.207	1.00	25.78	C
ATOM	5883	CD2	LEU A 577	33.282	-25.103	-27.221	1.00	26.05	C
ATOM	5884	HN	LEU A 577	33.295	-22.780	-22.749	1.00	0.00	H
ATOM	5885	HA	LEU A 577	35.774	-23.604	-24.172	1.00	25.49	H
ATOM	5886	HB1	LEU A 577	33.625	-24.923	-24.416	1.00	25.49	H
ATOM	5887	HB2	LEU A 577	32.908	-23.485	-25.184	1.00	25.49	H
ATOM	5888	HG	LEU A 577	34.801	-23.620	-26.898	1.00	25.49	H
ATOM	5889	1HD1	LEU A 577	35.860	-25.835	-27.187	1.00	25.49	H
ATOM	5890	2HD1	LEU A 577	35.078	-26.409	-25.695	1.00	25.49	H
ATOM	5891	3HD1	LEU A 577	36.305	-25.122	-25.619	1.00	25.49	H
ATOM	5892	1HD2	LEU A 577	33.690	-25.417	-28.182	1.00	25.49	H
ATOM	5893	2HD2	LEU A 577	32.495	-24.367	-27.384	1.00	25.49	H
ATOM	5894	3HD2	LEU A 577	32.869	-25.968	-26.702	1.00	25.49	H
ATOM	5895	N	VAL A 578	36.043	-21.521	-25.564	1.00	25.36	N

ATOM	5896	CA	VAL A 578	36.190	-20.403	-26.506	1.00	25.33	C
ATOM	5897	C	VAL A 578	36.578	-20.959	-27.872	1.00	25.51	C
ATOM	5898	O	VAL A 578	37.483	-21.783	-27.970	1.00	25.62	O
ATOM	5899	CB	VAL A 578	37.206	-19.351	-26.013	1.00	25.10	C
ATOM	5900	CG1	VAL A 578	37.117	-18.073	-26.856	1.00	25.13	C
ATOM	5901	CG2	VAL A 578	36.976	-18.946	-24.551	1.00	24.92	C
ATOM	5902	HN	VAL A 578	36.812	-22.183	-25.504	1.00	0.00	H
ATOM	5903	HA	VAL A 578	35.220	-19.915	-26.604	1.00	25.28	H
ATOM	5904	HB	VAL A 578	38.210	-19.763	-26.108	1.00	25.28	H
ATOM	5905	1HG1	VAL A 578	37.842	-17.345	-26.491	1.00	25.28	H
ATOM	5906	2HG1	VAL A 578	36.113	-17.655	-26.779	1.00	25.28	H
ATOM	5907	3HG1	VAL A 578	37.333	-18.309	-27.898	1.00	25.28	H
ATOM	5908	1HG2	VAL A 578	37.719	-18.204	-24.258	1.00	25.28	H
ATOM	5909	2HG2	VAL A 578	37.068	-19.824	-23.911	1.00	25.28	H
ATOM	5910	3HG2	VAL A 578	35.978	-18.522	-24.444	1.00	25.28	H
ATOM	5911	N	GLU A 579	35.851	-20.579	-28.918	1.00	25.56	N
ATOM	5912	CA	GLU A 579	36.264	-20.747	-30.312	1.00	25.69	C
ATOM	5913	C	GLU A 579	37.272	-19.642	-30.656	1.00	25.57	C
ATOM	5914	O	GLU A 579	36.887	-18.483	-30.800	1.00	25.53	O
ATOM	5915	CB	GLU A 579	35.017	-20.720	-31.210	1.00	25.90	C
ATOM	5916	CG	GLU A 579	35.308	-21.117	-32.666	1.00	26.11	C
ATOM	5917	CD	GLU A 579	34.017	-21.277	-33.487	1.00	26.31	C
ATOM	5918	OE1	GLU A 579	33.056	-20.506	-33.261	1.00	26.33	O
ATOM	5919	OE2	GLU A 579	33.985	-22.125	-34.408	1.00	26.46	O
ATOM	5920	HN	GLU A 579	35.124	-19.892	-28.746	1.00	0.00	H
ATOM	5921	HA	GLU A 579	36.753	-21.715	-30.419	1.00	25.94	H
ATOM	5922	HB1	GLU A 579	34.282	-21.414	-30.802	1.00	25.94	H

ATOM	5923	HB2 GLU A 579	34.607	-19.710	-31.202	1.00	25.94	H
ATOM	5924	HG1 GLU A 579	35.924	-20.344	-33.125	1.00	25.94	H
ATOM	5925	HG2 GLU A 579	35.848	-22.064	-32.672	1.00	25.94	H
ATOM	5926	N ILE A 580	38.559	-19.974	-30.550	1.00	25.51	N
ATOM	5927	CA ILE A 580	39.715	-19.063	-30.510	1.00	25.37	C
ATOM	5928	C ILE A 580	40.825	-19.616	-31.408	1.00	25.48	C
ATOM	5929	O ILE A 580	40.955	-20.835	-31.532	1.00	25.59	O
ATOM	5930	CB ILE A 580	40.192	-18.856	-29.043	1.00	25.15	C
ATOM	5931	CG1 ILE A 580	41.369	-17.861	-28.894	1.00	25.01	C
ATOM	5932	CG2 ILE A 580	40.575	-20.189	-28.380	1.00	25.13	C
ATOM	5933	CD1 ILE A 580	41.759	-17.543	-27.444	1.00	24.80	C
ATOM	5934	HN ILE A 580	38.792	-20.946	-30.416	1.00	0.00	H
ATOM	5935	HA ILE A 580	39.403	-18.097	-30.908	1.00	25.26	H
ATOM	5936	HB ILE A 580	39.350	-18.447	-28.484	1.00	25.26	H
ATOM	5937	1HG1 ILE A 580	42.239	-18.287	-29.394	1.00	25.26	H
ATOM	5938	2HG1 ILE A 580	41.089	-16.928	-29.383	1.00	25.26	H
ATOM	5939	1HG2 ILE A 580	40.903	-20.005	-27.357	1.00	25.26	H
ATOM	5940	2HG2 ILE A 580	41.384	-20.656	-28.942	1.00	25.26	H
ATOM	5941	3HG2 ILE A 580	39.710	-20.852	-28.370	1.00	25.26	H
ATOM	5942	1HD1 ILE A 580	42.591	-16.839	-27.437	1.00	25.26	H
ATOM	5943	2HD1 ILE A 580	42.057	-18.461	-26.938	1.00	25.26	H
ATOM	5944	3HD1 ILE A 580	40.907	-17.103	-26.926	1.00	25.26	H
ATOM	5945	N TYR A 581	41.666	-18.748	-31.962	1.00	25.49	N
ATOM	5946	CA TYR A 581	42.958	-19.143	-32.510	1.00	25.58	C
ATOM	5947	C TYR A 581	44.013	-18.052	-32.336	1.00	25.54	C
ATOM	5948	O TYR A 581	43.752	-16.851	-32.447	1.00	25.48	O
ATOM	5949	CB TYR A 581	42.828	-19.608	-33.962	1.00	25.82	C

ATOM	5950	CG	TYR A 581	42.440	-18.546	-34.973	1.00	25.94	C
ATOM	5951	CD1	TYR A 581	43.449	-17.841	-35.653	1.00	26.01	C
ATOM	5952	CD2	TYR A 581	41.085	-18.255	-35.222	1.00	25.99	C
ATOM	5953	CE1	TYR A 581	43.110	-16.807	-36.545	1.00	26.13	C
ATOM	5954	CE2	TYR A 581	40.739	-17.229	-36.126	1.00	26.10	C
ATOM	5955	CZ	TYR A 581	41.754	-16.488	-36.769	1.00	26.16	C
ATOM	5956	OH	TYR A 581	41.434	-15.394	-37.503	1.00	26.27	O
ATOM	5957	HN	TYR A 581	41.513	-17.751	-31.821	1.00	0.00	H
ATOM	5958	HH	TYR A 581	41.964	-14.639	-37.196	1.00	0.00	H
ATOM	5959	HA	TYR A 581	43.296	-20.003	-31.932	1.00	25.88	H
ATOM	5960	HB1	TYR A 581	43.790	-20.021	-34.266	1.00	25.88	H
ATOM	5961	HB2	TYR A 581	42.070	-20.390	-33.994	1.00	25.88	H
ATOM	5962	HD1	TYR A 581	44.496	-18.096	-35.489	1.00	25.88	H
ATOM	5963	HD2	TYR A 581	40.304	-18.822	-34.716	1.00	25.88	H
ATOM	5964	HE1	TYR A 581	43.894	-16.253	-37.062	1.00	25.88	H
ATOM	5965	HE2	TYR A 581	39.691	-17.009	-36.328	1.00	25.88	H
ATOM	5966	N	ASP A 582	45.228	-18.505	-32.080	1.00	27.79	N
ATOM	5967	CA	ASP A 582	46.408	-17.666	-31.940	1.00	27.78	C
ATOM	5968	C	ASP A 582	46.944	-17.392	-33.359	1.00	28.00	C
ATOM	5969	O	ASP A 582	46.770	-18.225	-34.254	1.00	28.14	O
ATOM	5970	CB	ASP A 582	47.445	-18.347	-31.016	1.00	27.66	C
ATOM	5971	CG	ASP A 582	46.905	-18.974	-29.705	1.00	27.49	C
ATOM	5972	OD1	ASP A 582	45.723	-18.749	-29.346	1.00	27.55	O
ATOM	5973	OD2	ASP A 582	47.460	-20.027	-29.312	1.00	27.31	O
ATOM	5974	HN	ASP A 582	45.379	-19.510	-32.128	1.00	0.00	H
ATOM	5975	HA	ASP A 582	46.110	-16.718	-31.491	1.00	27.72	H
ATOM	5976	HB1	ASP A 582	47.926	-19.141	-31.588	1.00	27.72	H

ATOM	5977	HB2	ASP	A 582	48.186	-17.596	-30.742	1.00	27.72	H
ATOM	5978	N	THR	A 583	47.504	-16.206	-33.626	1.00	25.85	N
ATOM	5979	CA	THR	A 583	47.854	-15.758	-34.995	1.00	26.06	C
ATOM	5980	C	THR	A 583	49.079	-16.505	-35.557	1.00	26.14	C
ATOM	5981	O	THR	A 583	50.195	-15.993	-35.595	1.00	26.04	O
ATOM	5982	CB	THR	A 583	47.993	-14.225	-35.054	1.00	26.10	C
ATOM	5983	OG1	THR	A 583	46.803	-13.651	-34.555	1.00	26.02	O
ATOM	5984	CG2	THR	A 583	48.146	-13.683	-36.477	1.00	26.32	C
ATOM	5985	HN	THR	A 583	47.551	-15.520	-32.887	1.00	0.00	H
ATOM	5986	HG1	THR	A 583	47.004	-12.751	-34.266	1.00	0.00	H
ATOM	5987	HA	THR	A 583	47.010	-16.019	-35.633	1.00	26.08	H
ATOM	5988	HB	THR	A 583	48.839	-13.907	-34.445	1.00	26.08	H
ATOM	5989	1HG2	THR	A 583	48.239	-12.597	-36.445	1.00	26.08	H
ATOM	5990	2HG2	THR	A 583	47.270	-13.955	-37.066	1.00	26.08	H
ATOM	5991	3HG2	THR	A 583	49.038	-14.110	-36.935	1.00	26.08	H
ATOM	5992	N	GLY	A 584	48.871	-17.784	-35.880	1.00	35.45	N
ATOM	5993	CA	GLY	A 584	49.892	-18.808	-36.121	1.00	35.55	C
ATOM	5994	C	GLY	A 584	49.375	-20.258	-36.022	1.00	35.59	C
ATOM	5995	O	GLY	A 584	50.027	-21.162	-36.540	1.00	35.78	O
ATOM	5996	HN	GLY	A 584	47.930	-18.116	-35.706	1.00	0.00	H
ATOM	5997	HA1	GLY	A 584	50.296	-18.658	-37.122	1.00	35.59	H
ATOM	5998	HA2	GLY	A 584	50.686	-18.678	-35.385	1.00	35.59	H
ATOM	5999	N	ASP	A 585	48.167	-20.490	-35.487	1.00	26.30	N
ATOM	6000	CA	ASP	A 585	47.480	-21.792	-35.520	1.00	26.32	C
ATOM	6001	C	ASP	A 585	47.143	-22.237	-36.962	1.00	26.58	C
ATOM	6002	O	ASP	A 585	46.094	-21.890	-37.506	1.00	26.67	O
ATOM	6003	CB	ASP	A 585	46.180	-21.726	-34.689	1.00	26.11	C

ATOM	6004	CG	ASP A 585	46.355	-21.843	-33.173	1.00	25.87	C
ATOM	6005	OD1	ASP A 585	47.051	-22.799	-32.763	1.00	25.85	O
ATOM	6006	OD2	ASP A 585	45.465	-21.325	-32.459	1.00	25.71	O
ATOM	6007	HN	ASP A 585	47.670	-19.725	-35.044	1.00	0.00	H
ATOM	6008	HA	ASP A 585	48.136	-22.539	-35.074	1.00	26.18	H
ATOM	6009	HB1	ASP A 585	45.697	-20.771	-34.898	1.00	26.18	H
ATOM	6010	HB2	ASP A 585	45.532	-22.540	-35.015	1.00	26.18	H
ATOM	6011	N	SER A 586	47.909	-23.191	-37.506	1.00	35.84	N
ATOM	6012	CA	SER A 586	47.547	-23.910	-38.747	1.00	36.14	C
ATOM	6013	C	SER A 586	46.276	-24.760	-38.596	1.00	36.23	C
ATOM	6014	O	SER A 586	45.555	-24.997	-39.567	1.00	36.41	O
ATOM	6015	CB	SER A 586	48.679	-24.854	-39.168	1.00	36.26	C
ATOM	6016	OG	SER A 586	49.908	-24.161	-39.273	1.00	36.32	O
ATOM	6017	HN	SER A 586	48.842	-23.308	-37.135	1.00	0.00	H
ATOM	6018	HG	SER A 586	50.606	-24.788	-39.475	1.00	0.00	H
ATOM	6019	HA	SER A 586	47.387	-23.180	-39.540	1.00	36.20	H
ATOM	6020	HB1	SER A 586	48.779	-25.644	-38.424	1.00	36.20	H
ATOM	6021	HB2	SER A 586	48.435	-25.294	-40.135	1.00	36.20	H
ATOM	6022	N	VAL A 587	46.025	-25.245	-37.374	1.00	42.69	N
ATOM	6023	CA	VAL A 587	44.874	-26.073	-36.992	1.00	42.75	C
ATOM	6024	C	VAL A 587	44.000	-25.266	-36.030	1.00	42.46	C
ATOM	6025	O	VAL A 587	44.064	-25.443	-34.816	1.00	42.23	O
ATOM	6026	CB	VAL A 587	45.325	-27.433	-36.411	1.00	42.92	C
ATOM	6027	CG1	VAL A 587	44.134	-28.338	-36.051	1.00	42.99	C
ATOM	6028	CG2	VAL A 587	46.196	-28.214	-37.405	1.00	43.25	C
ATOM	6029	HN	VAL A 587	46.630	-24.924	-36.632	1.00	0.00	H
ATOM	6030	HA	VAL A 587	44.290	-26.270	-37.891	1.00	42.76	H



ATOM	6031	HB	VAL A 587	45.907	-27.249	-35.508	1.00	42.76	H
ATOM	6032	1HG1	VAL A 587	44.503	-29.281	-35.647	1.00	42.76	H
ATOM	6033	2HG1	VAL A 587	43.542	-28.533	-36.945	1.00	42.76	H
ATOM	6034	3HG1	VAL A 587	43.513	-27.842	-35.305	1.00	42.76	H
ATOM	6035	1HG2	VAL A 587	46.493	-29.164	-36.960	1.00	42.76	H
ATOM	6036	2HG2	VAL A 587	47.086	-27.632	-37.645	1.00	42.76	H
ATOM	6037	3HG2	VAL A 587	45.629	-28.402	-38.317	1.00	42.76	H
ATOM	6038	N	ILE A 588	43.249	-24.310	-36.576	1.00	42.73	N
ATOM	6039	CA	ILE A 588	42.336	-23.437	-35.825	1.00	42.49	C
ATOM	6040	C	ILE A 588	41.344	-24.305	-35.043	1.00	42.51	C
ATOM	6041	O	ILE A 588	40.645	-25.134	-35.634	1.00	42.72	O
ATOM	6042	CB	ILE A 588	41.624	-22.470	-36.804	1.00	42.47	C
ATOM	6043	CG1	ILE A 588	42.651	-21.452	-37.352	1.00	42.41	C
ATOM	6044	CG2	ILE A 588	40.400	-21.784	-36.164	1.00	42.29	C
ATOM	6045	CD1	ILE A 588	42.103	-20.467	-38.392	1.00	42.43	C
ATOM	6046	HN	ILE A 588	43.241	-24.251	-37.588	1.00	0.00	H
ATOM	6047	HA	ILE A 588	42.919	-22.849	-35.116	1.00	42.51	H
ATOM	6048	HB	ILE A 588	41.266	-23.061	-37.647	1.00	42.51	H
ATOM	6049	1HG1	ILE A 588	43.035	-20.875	-36.511	1.00	42.51	H
ATOM	6050	2HG1	ILE A 588	43.466	-22.010	-37.813	1.00	42.51	H
ATOM	6051	1HG2	ILE A 588	39.936	-21.117	-36.890	1.00	42.51	H
ATOM	6052	2HG2	ILE A 588	40.719	-21.209	-35.295	1.00	42.51	H
ATOM	6053	3HG2	ILE A 588	39.679	-22.541	-35.854	1.00	42.51	H
ATOM	6054	1HD1	ILE A 588	42.900	-19.796	-38.713	1.00	42.51	H
ATOM	6055	2HD1	ILE A 588	41.294	-19.884	-37.951	1.00	42.51	H
ATOM	6056	3HD1	ILE A 588	41.725	-21.019	-39.252	1.00	42.51	H
ATOM	6057	N	ARG A 589	41.247	-24.131	-33.719	1.00	26.32	N

ATOM	6058	CA	ARG A 589	40.341	-24.943	-32.892	1.00	26.34	C
ATOM	6059	C	ARG A 589	39.897	-24.269	-31.590	1.00	26.07	C
ATOM	6060	O	ARG A 589	40.740	-23.708	-30.899	1.00	25.86	O
ATOM	6061	CB	ARG A 589	40.968	-26.324	-32.607	1.00	26.47	C
ATOM	6062	CG	ARG A 589	42.338	-26.281	-31.894	1.00	26.31	C
ATOM	6063	CD	ARG A 589	42.590	-27.542	-31.065	1.00	26.46	C
ATOM	6064	NE	ARG A 589	41.671	-27.601	-29.910	1.00	26.36	N
ATOM	6065	CZ	ARG A 589	41.283	-28.664	-29.238	1.00	26.51	C
ATOM	6066	NH1	ARG A 589	41.759	-29.853	-29.479	1.00	26.80	N
ATOM	6067	NH2	ARG A 589	40.387	-28.535	-28.307	1.00	26.40	N
ATOM	6068	HN	ARG A 589	41.839	-23.442	-33.269	1.00	0.00	H
ATOM	6069	HE	ARG A 589	41.225	-26.729	-29.639	1.00	0.00	H
ATOM	6070	1HH1	ARG A 589	42.465	-29.941	-30.188	1.00	0.00	H
ATOM	6071	2HH1	ARG A 589	41.449	-30.643	-28.950	1.00	0.00	H
ATOM	6072	1HH2	ARG A 589	40.008	-27.600	-28.161	1.00	0.00	H
ATOM	6073	2HH2	ARG A 589	40.035	-29.314	-27.790	1.00	0.00	H
ATOM	6074	HA	ARG A 589	39.442	-25.118	-33.483	1.00	26.35	H
ATOM	6075	HB1	ARG A 589	40.277	-26.887	-31.979	1.00	26.35	H
ATOM	6076	HB2	ARG A 589	41.097	-26.840	-33.558	1.00	26.35	H
ATOM	6077	HG1	ARG A 589	43.123	-26.190	-32.645	1.00	26.35	H
ATOM	6078	HG2	ARG A 589	42.364	-25.414	-31.234	1.00	26.35	H
ATOM	6079	HD1	ARG A 589	42.433	-28.420	-31.692	1.00	26.35	H
ATOM	6080	HD2	ARG A 589	43.618	-27.533	-30.704	1.00	26.35	H
ATOM	6081	N	PRO A 590	38.705	-24.627	-31.070	1.00	26.11	N
ATOM	6082	CA	PRO A 590	38.286	-24.243	-29.730	1.00	25.90	C
ATOM	6083	C	PRO A 590	39.253	-24.707	-28.634	1.00	25.71	C
ATOM	6084	O	PRO A 590	39.733	-25.847	-28.656	1.00	25.80	O

ATOM	6085	CB	PRO A 590	36.887	-24.833	-29.540	1.00	26.07	C
ATOM	6086	CG	PRO A 590	36.346	-24.948	-30.960	1.00	26.35	C
ATOM	6087	CD	PRO A 590	37.601	-25.271	-31.765	1.00	26.39	C
ATOM	6088	HA	PRO A 590	38.212	-23.156	-29.689	1.00	26.05	H
ATOM	6089	HB1	PRO A 590	36.940	-25.812	-29.064	1.00	26.05	H
ATOM	6090	HB2	PRO A 590	36.264	-24.170	-28.940	1.00	26.05	H
ATOM	6091	HG1	PRO A 590	35.611	-25.749	-31.038	1.00	26.05	H
ATOM	6092	HG2	PRO A 590	35.898	-24.010	-31.288	1.00	26.05	H
ATOM	6093	HD1	PRO A 590	37.757	-26.349	-31.805	1.00	26.05	H
ATOM	6094	HD2	PRO A 590	37.512	-24.878	-32.778	1.00	26.05	H
ATOM	6095	N	LYS A 591	39.444	-23.868	-27.615	1.00	25.46	N
ATOM	6096	CA	LYS A 591	40.323	-24.111	-26.461	1.00	25.26	C
ATOM	6097	C	LYS A 591	39.483	-24.012	-25.177	1.00	25.15	C
ATOM	6098	O	LYS A 591	38.646	-23.117	-25.046	1.00	25.18	O
ATOM	6099	CB	LYS A 591	41.543	-23.149	-26.503	1.00	25.06	C
ATOM	6100	CG	LYS A 591	42.323	-23.218	-27.840	1.00	25.19	C
ATOM	6101	CD	LYS A 591	43.554	-22.292	-27.974	1.00	25.02	C
ATOM	6102	CE	LYS A 591	43.984	-22.263	-29.456	1.00	25.17	C
ATOM	6103	NZ	LYS A 591	45.116	-21.350	-29.753	1.00	25.02	N1+
ATOM	6104	HN	LYS A 591	38.938	-22.985	-27.638	1.00	0.00	H
ATOM	6105	HZ1	LYS A 591	45.355	-21.372	-30.749	1.00	0.00	H
ATOM	6106	HZ2	LYS A 591	44.950	-20.363	-29.541	1.00	0.00	H
ATOM	6107	HZ3	LYS A 591	45.995	-21.528	-29.278	1.00	0.00	H
ATOM	6108	HA	LYS A 591	40.699	-25.131	-26.536	1.00	25.17	H
ATOM	6109	HB1	LYS A 591	41.186	-22.129	-26.362	1.00	25.17	H
ATOM	6110	HB2	LYS A 591	42.221	-23.413	-25.691	1.00	25.17	H
ATOM	6111	HG1	LYS A 591	42.666	-24.244	-27.969	1.00	25.17	H

ATOM	6112	HG2	LYS	A	591	41.629	-22.963	-28.641	1.00	25.17	H
ATOM	6113	HD1	LYS	A	591	43.294	-21.285	-27.647	1.00	25.17	H
ATOM	6114	HD2	LYS	A	591	44.370	-22.675	-27.362	1.00	25.17	H
ATOM	6115	HE1	LYS	A	591	44.277	-23.272	-29.745	1.00	25.17	H
ATOM	6116	HE2	LYS	A	591	43.128	-21.948	-30.052	1.00	25.17	H
ATOM	6117	N	LEU	A	592	39.510	-25.070	-24.363	1.00	25.04	N
ATOM	6118	CA	LEU	A	592	38.758	-25.163	-23.103	1.00	24.93	C
ATOM	6119	C	LEU	A	592	39.537	-24.504	-21.960	1.00	24.62	C
ATOM	6120	O	LEU	A	592	40.650	-24.934	-21.652	1.00	24.49	O
ATOM	6121	CB	LEU	A	592	38.483	-26.636	-22.747	1.00	25.04	C
ATOM	6122	CG	LEU	A	592	37.369	-27.324	-23.547	1.00	25.31	C
ATOM	6123	CD1	LEU	A	592	37.495	-28.842	-23.407	1.00	25.46	C
ATOM	6124	CD2	LEU	A	592	35.992	-26.919	-23.016	1.00	25.25	C
ATOM	6125	HN	LEU	A	592	40.160	-25.814	-24.582	1.00	0.00	H
ATOM	6126	HA	LEU	A	592	37.806	-24.647	-23.223	1.00	25.02	H
ATOM	6127	HB1	LEU	A	592	39.404	-27.196	-22.909	1.00	25.02	H
ATOM	6128	HB2	LEU	A	592	38.211	-26.679	-21.692	1.00	25.02	H
ATOM	6129	HG	LEU	A	592	37.450	-27.047	-24.598	1.00	25.02	H
ATOM	6130	1HD1	LEU	A	592	36.702	-29.327	-23.976	1.00	25.02	H
ATOM	6131	2HD1	LEU	A	592	37.408	-29.119	-22.356	1.00	25.02	H
ATOM	6132	3HD1	LEU	A	592	38.464	-29.163	-23.788	1.00	25.02	H
ATOM	6133	1HD2	LEU	A	592	35.217	-27.418	-23.597	1.00	25.02	H
ATOM	6134	2HD2	LEU	A	592	35.872	-25.839	-23.103	1.00	25.02	H
ATOM	6135	3HD2	LEU	A	592	35.905	-27.211	-21.969	1.00	25.02	H
ATOM	6136	N	PHE	A	593	38.858	-23.665	-21.182	1.00	24.52	N
ATOM	6137	CA	PHE	A	593	39.402	-23.004	-19.998	1.00	24.25	C
ATOM	6138	C	PHE	A	593	38.589	-23.365	-18.750	1.00	24.15	C

ATOM	6139	O	PHE A 593	37.381	-23.135	-18.698	1.00	24.24	O
ATOM	6140	CB	PHE A 593	39.443	-21.485	-20.222	1.00	24.18	C
ATOM	6141	CG	PHE A 593	40.314	-21.040	-21.385	1.00	24.24	C
ATOM	6142	CD1	PHE A 593	41.638	-20.616	-21.158	1.00	24.07	C
ATOM	6143	CD2	PHE A 593	39.789	-21.012	-22.692	1.00	24.47	C
ATOM	6144	CE1	PHE A 593	42.424	-20.152	-22.228	1.00	24.15	C
ATOM	6145	CE2	PHE A 593	40.578	-20.555	-23.762	1.00	24.53	C
ATOM	6146	CZ	PHE A 593	41.894	-20.119	-23.530	1.00	24.38	C
ATOM	6147	HN	PHE A 593	37.923	-23.388	-21.468	1.00	0.00	H
ATOM	6148	HA	PHE A 593	40.424	-23.354	-19.852	1.00	24.29	H
ATOM	6149	HB1	PHE A 593	38.426	-21.141	-20.409	1.00	24.29	H
ATOM	6150	HB2	PHE A 593	39.824	-21.018	-19.314	1.00	24.29	H
ATOM	6151	HD1	PHE A 593	42.054	-20.648	-20.151	1.00	24.29	H
ATOM	6152	HD2	PHE A 593	38.768	-21.346	-22.874	1.00	24.29	H
ATOM	6153	HE1	PHE A 593	43.446	-19.817	-22.048	1.00	24.29	H
ATOM	6154	HE2	PHE A 593	40.169	-20.539	-24.772	1.00	24.29	H
ATOM	6155	HZ	PHE A 593	42.503	-19.756	-24.358	1.00	24.29	H
ATOM	6156	N	ALA A 594	39.261	-23.851	-17.708	1.00	23.97	N
ATOM	6157	CA	ALA A 594	38.684	-24.025	-16.378	1.00	23.82	C
ATOM	6158	C	ALA A 594	38.946	-22.784	-15.510	1.00	23.65	C
ATOM	6159	O	ALA A 594	40.083	-22.312	-15.401	1.00	23.62	O
ATOM	6160	CB	ALA A 594	39.237	-25.317	-15.764	1.00	23.65	C
ATOM	6161	HN	ALA A 594	40.266	-23.955	-17.799	1.00	0.00	H
ATOM	6162	HA	ALA A 594	37.606	-24.138	-16.489	1.00	23.74	H
ATOM	6163	HB1	ALA A 594	38.813	-25.458	-14.770	1.00	23.74	H
ATOM	6164	HB2	ALA A 594	40.322	-25.249	-15.689	1.00	23.74	H
ATOM	6165	HB3	ALA A 594	38.969	-26.164	-16.396	1.00	23.74	H

ATOM	6166	N	VAL A 595	37.915	-22.295	-14.817	1.00	23.58	N
ATOM	6167	CA	VAL A 595	37.955	-21.059	-14.023	1.00	23.42	C
ATOM	6168	C	VAL A 595	37.324	-21.284	-12.649	1.00	23.31	C
ATOM	6169	O	VAL A 595	36.104	-21.292	-12.494	1.00	23.45	O
ATOM	6170	CB	VAL A 595	37.279	-19.888	-14.772	1.00	23.57	C
ATOM	6171	CG1	VAL A 595	37.432	-18.581	-13.980	1.00	23.50	C
ATOM	6172	CG2	VAL A 595	37.892	-19.675	-16.162	1.00	23.58	C
ATOM	6173	HN	VAL A 595	37.001	-22.710	-14.988	1.00	0.00	H
ATOM	6174	HA	VAL A 595	39.002	-20.796	-13.869	1.00	23.49	H
ATOM	6175	HB	VAL A 595	36.218	-20.109	-14.885	1.00	23.49	H
ATOM	6176	1HG1	VAL A 595	36.950	-17.768	-14.523	1.00	23.49	H
ATOM	6177	2HG1	VAL A 595	38.491	-18.355	-13.853	1.00	23.49	H
ATOM	6178	3HG1	VAL A 595	36.964	-18.692	-13.002	1.00	23.49	H
ATOM	6179	1HG2	VAL A 595	37.391	-18.844	-16.657	1.00	23.49	H
ATOM	6180	2HG2	VAL A 595	37.768	-20.580	-16.757	1.00	23.49	H
ATOM	6181	3HG2	VAL A 595	38.954	-19.450	-16.061	1.00	23.49	H
ATOM	6182	N	LYS A 596	38.160	-21.395	-11.612	1.00	23.05	N
ATOM	6183	CA	LYS A 596	37.708	-21.398	-10.214	1.00	22.94	C
ATOM	6184	C	LYS A 596	37.272	-19.984	-9.827	1.00	22.97	C
ATOM	6185	O	LYS A 596	38.136	-19.117	-9.663	1.00	22.96	O
ATOM	6186	CB	LYS A 596	38.837	-21.910	-9.306	1.00	22.65	C
ATOM	6187	CG	LYS A 596	38.355	-22.085	-7.853	1.00	22.52	C
ATOM	6188	CD	LYS A 596	39.454	-21.895	-6.795	1.00	22.26	C
ATOM	6189	CE	LYS A 596	40.247	-20.574	-6.872	1.00	22.06	C
ATOM	6190	NZ	LYS A 596	39.403	-19.388	-7.178	1.00	21.94	N1+
ATOM	6191	HN	LYS A 596	39.149	-21.439	-11.805	1.00	0.00	H
ATOM	6192	HZ1	LYS A 596	39.901	-18.520	-7.033	1.00	0.00	H

ATOM	6193	HZ2 LYS A 596	39.105	-19.392	-8.153	1.00	0.00	H
ATOM	6194	HZ3 LYS A 596	38.534	-19.393	-6.650	1.00	0.00	H
ATOM	6195	HA LYS A 596	36.852	-22.067	-10.123	1.00	22.59	H
ATOM	6196	HB1 LYS A 596	39.186	-22.872	-9.682	1.00	22.59	H
ATOM	6197	HB2 LYS A 596	39.658	-21.193	-9.323	1.00	22.59	H
ATOM	6198	HG1 LYS A 596	37.569	-21.354	-7.664	1.00	22.59	H
ATOM	6199	HG2 LYS A 596	37.949	-23.091	-7.747	1.00	22.59	H
ATOM	6200	HD1 LYS A 596	38.983	-21.944	-5.813	1.00	22.59	H
ATOM	6201	HD2 LYS A 596	40.163	-22.716	-6.900	1.00	22.59	H
ATOM	6202	HE1 LYS A 596	40.736	-20.410	-5.912	1.00	22.59	H
ATOM	6203	HE2 LYS A 596	41.001	-20.670	-7.653	1.00	22.59	H
ATOM	6204	N ILE A 597	36.023	-19.817	-9.404	1.00	27.88	N
ATOM	6205	CA ILE A 597	35.492	-18.542	-8.896	1.00	27.91	C
ATOM	6206	C ILE A 597	36.153	-18.149	-7.549	1.00	27.66	C
ATOM	6207	O ILE A 597	36.655	-19.019	-6.823	1.00	27.53	O
ATOM	6208	CB ILE A 597	33.949	-18.638	-8.842	1.00	28.14	C
ATOM	6209	CG1 ILE A 597	33.322	-18.816	-10.249	1.00	28.39	C
ATOM	6210	CG2 ILE A 597	33.250	-17.485	-8.104	1.00	28.13	C
ATOM	6211	CD1 ILE A 597	33.636	-17.720	-11.281	1.00	28.37	C
ATOM	6212	HN ILE A 597	35.406	-20.624	-9.400	1.00	0.00	H
ATOM	6213	HA ILE A 597	35.746	-17.770	-9.622	1.00	28.00	H
ATOM	6214	HB ILE A 597	33.717	-19.546	-8.285	1.00	28.00	H
ATOM	6215	1HG1 ILE A 597	33.678	-19.764	-10.653	1.00	28.00	H
ATOM	6216	2HG1 ILE A 597	32.240	-18.856	-10.127	1.00	28.00	H
ATOM	6217	1HG2 ILE A 597	32.172	-17.643	-8.121	1.00	28.00	H
ATOM	6218	2HG2 ILE A 597	33.486	-16.542	-8.597	1.00	28.00	H
ATOM	6219	3HG2 ILE A 597	33.596	-17.451	-7.071	1.00	28.00	H

ATOM	6220	1HD1 ILE A 597	33.142	-17.956	-12.224	1.00	28.00	H
ATOM	6221	2HD1 ILE A 597	34.713	-17.667	-11.439	1.00	28.00	H
ATOM	6222	3HD1 ILE A 597	33.275	-16.760	-10.913	1.00	28.00	H
ATOM	6223	N PRO A 598	36.334	-16.849	-7.234	1.00	22.73	N
ATOM	6224	CA PRO A 598	37.074	-16.429	-6.043	1.00	22.49	C
ATOM	6225	C PRO A 598	36.364	-16.782	-4.730	1.00	22.50	C
ATOM	6226	O PRO A 598	35.196	-16.439	-4.533	1.00	22.72	O
ATOM	6227	CB PRO A 598	37.262	-14.919	-6.169	1.00	22.53	C
ATOM	6228	CG PRO A 598	37.105	-14.661	-7.664	1.00	22.72	C
ATOM	6229	CD PRO A 598	36.056	-15.684	-8.064	1.00	22.86	C
ATOM	6230	HA PRO A 598	38.054	-16.907	-6.052	1.00	22.65	H
ATOM	6231	HB1 PRO A 598	36.502	-14.384	-5.600	1.00	22.65	H
ATOM	6232	HB2 PRO A 598	38.252	-14.620	-5.825	1.00	22.65	H
ATOM	6233	HG1 PRO A 598	36.758	-13.645	-7.854	1.00	22.65	H
ATOM	6234	HG2 PRO A 598	38.043	-14.830	-8.194	1.00	22.65	H
ATOM	6235	HD1 PRO A 598	35.054	-15.303	-7.867	1.00	22.65	H
ATOM	6236	HD2 PRO A 598	36.148	-15.935	-9.121	1.00	22.65	H
ATOM	6237	N ALA A 599	37.124	-17.283	-3.752	1.00	51.52	N
ATOM	6238	CA ALA A 599	36.645	-17.460	-2.380	1.00	51.48	C
ATOM	6239	C ALA A 599	36.486	-16.114	-1.646	1.00	51.51	C
ATOM	6240	O ALA A 599	35.415	-15.854	-1.093	1.00	51.74	O
ATOM	6241	CB ALA A 599	37.609	-18.396	-1.641	1.00	51.20	C
ATOM	6242	HN ALA A 599	38.092	-17.485	-3.943	1.00	0.00	H
ATOM	6243	HA ALA A 599	35.668	-17.942	-2.421	1.00	51.49	H
ATOM	6244	HB1 ALA A 599	37.265	-18.538	-0.617	1.00	51.49	H
ATOM	6245	HB2 ALA A 599	38.607	-17.957	-1.631	1.00	51.49	H
ATOM	6246	HB3 ALA A 599	37.642	-19.360	-2.149	1.00	51.49	H



ATOM	6247	N	GLN A 600	37.464	-15.219	-1.819	1.00	22.03	N
ATOM	6248	CA	GLN A 600	37.531	-13.847	-1.299	1.00	22.07	C
ATOM	6249	C	GLN A 600	37.956	-12.869	-2.408	1.00	22.26	C
ATOM	6250	O	GLN A 600	38.484	-13.291	-3.435	1.00	22.27	O
ATOM	6251	CB	GLN A 600	38.543	-13.777	-0.135	1.00	21.78	C
ATOM	6252	CG	GLN A 600	38.166	-14.568	1.130	1.00	21.59	C
ATOM	6253	CD	GLN A 600	37.017	-13.948	1.924	1.00	21.49	C
ATOM	6254	OE1	GLN A 600	36.178	-13.225	1.415	1.00	21.31	O
ATOM	6255	NE2	GLN A 600	36.925	-14.213	3.207	1.00	21.62	N
ATOM	6256	HN	GLN A 600	38.250	-15.493	-2.391	1.00	0.00	H
ATOM	6257	1HE2	GLN A 600	37.627	-14.756	3.675	1.00	0.00	H
ATOM	6258	2HE2	GLN A 600	36.191	-13.739	3.704	1.00	0.00	H
ATOM	6259	HA	GLN A 600	36.546	-13.559	-0.931	1.00	21.82	H
ATOM	6260	HB1	GLN A 600	39.496	-14.161	-0.498	1.00	21.82	H
ATOM	6261	HB2	GLN A 600	38.656	-12.730	0.147	1.00	21.82	H
ATOM	6262	HG1	GLN A 600	37.874	-15.575	0.832	1.00	21.82	H
ATOM	6263	HG2	GLN A 600	39.042	-14.620	1.777	1.00	21.82	H
ATOM	6264	N	CYS A 601	37.772	-11.566	-2.191	1.00	42.68	N
ATOM	6265	CA	CYS A 601	38.159	-10.496	-3.125	1.00	42.85	C
ATOM	6266	C	CYS A 601	39.631	-10.045	-2.981	1.00	42.70	C
ATOM	6267	O	CYS A 601	39.887	-8.853	-2.844	1.00	42.84	O
ATOM	6268	CB	CYS A 601	37.187	-9.321	-2.957	1.00	43.15	C
ATOM	6269	SG	CYS A 601	35.435	-9.738	-3.106	1.00	43.37	S
ATOM	6270	HN	CYS A 601	37.355	-11.281	-1.317	1.00	0.00	H
ATOM	6271	HA	CYS A 601	38.033	-10.883	-4.136	1.00	42.93	H
ATOM	6272	HB1	CYS A 601	37.347	-8.891	-1.968	1.00	42.93	H
ATOM	6273	HB2	CYS A 601	37.422	-8.578	-3.720	1.00	42.93	H

ATOM	6274	N	SER A 602	40.534	-11.001	-2.749	1.00	26.10	N
ATOM	6275	CA	SER A 602	41.901	-10.772	-2.258	1.00	25.93	C
ATOM	6276	C	SER A 602	42.910	-10.475	-3.391	1.00	25.95	C
ATOM	6277	O	SER A 602	42.968	-9.329	-3.838	1.00	26.14	O
ATOM	6278	CB	SER A 602	42.249	-11.915	-1.295	1.00	25.61	C
ATOM	6279	OG	SER A 602	43.589	-11.928	-0.882	1.00	25.48	O
ATOM	6280	HN	SER A 602	40.257	-11.957	-2.913	1.00	0.00	H
ATOM	6281	HG	SER A 602	44.011	-12.649	-1.406	1.00	0.00	H
ATOM	6282	HA	SER A 602	41.856	-9.869	-1.650	1.00	25.87	H
ATOM	6283	HB1	SER A 602	41.619	-11.821	-0.410	1.00	25.87	H
ATOM	6284	HB2	SER A 602	42.036	-12.860	-1.794	1.00	25.87	H
ATOM	6285	N	GLU A 603	43.591	-11.479	-3.961	1.00	29.34	N
ATOM	6286	CA	GLU A 603	44.657	-11.334	-4.988	1.00	29.44	C
ATOM	6287	C	GLU A 603	44.332	-11.947	-6.357	1.00	29.48	C
ATOM	6288	O	GLU A 603	44.816	-11.410	-7.383	1.00	29.30	O
ATOM	6289	CB	GLU A 603	46.038	-11.811	-4.466	1.00	29.25	C
ATOM	6290	CG	GLU A 603	46.126	-12.750	-3.244	1.00	29.06	C
ATOM	6291	CD	GLU A 603	45.186	-13.971	-3.281	1.00	28.76	C
ATOM	6292	OE1	GLU A 603	45.598	-15.037	-3.796	1.00	28.62	O
ATOM	6293	OE2	GLU A 603	44.157	-13.899	-2.558	1.00	28.68	O
ATOM	6294	OXT	GLU A 603	43.919	-13.121	-6.402	1.00	0.00	O
ATOM	6295	HN	GLU A 603	43.492	-12.407	-3.555	1.00	0.00	H
ATOM	6296	HA	GLU A 603	44.759	-10.262	-5.160	1.00	29.10	H
ATOM	6297	HB1	GLU A 603	46.524	-12.327	-5.294	1.00	29.10	H
ATOM	6298	HB2	GLU A 603	46.604	-10.914	-4.214	1.00	29.10	H
ATOM	6299	HG1	GLU A 603	47.150	-13.116	-3.174	1.00	29.10	H
ATOM	6300	HG2	GLU A 603	45.886	-12.168	-2.354	1.00	29.10	H

TER 6301 GLU A 603

ATOM	6302	N	ILE B 31	49.221	-5.258	-37.647	1.00	50.96	N1+
ATOM	6303	CA	ILE B 31	49.286	-3.776	-37.451	1.00	51.06	C
ATOM	6304	C	ILE B 31	47.926	-3.173	-37.787	1.00	51.06	C
ATOM	6305	O	ILE B 31	47.183	-3.729	-38.600	1.00	51.05	O
ATOM	6306	CB	ILE B 31	50.336	-3.112	-38.395	1.00	51.29	C
ATOM	6307	CG1	ILE B 31	51.758	-3.536	-38.028	1.00	51.33	C
ATOM	6308	CG2	ILE B 31	50.208	-1.546	-38.391	1.00	51.44	C
ATOM	6309	CD1	ILE B 31	52.608	-2.386	-37.518	1.00	51.46	C
ATOM	6310	HT1	ILE B 31	50.171	-5.691	-37.414	1.00	51.21	H
ATOM	6311	HT2	ILE B 31	48.972	-5.473	-38.665	1.00	51.21	H
ATOM	6312	HT3	ILE B 31	48.473	-5.671	-37.002	1.00	51.21	H
ATOM	6313	HA	ILE B 31	49.537	-3.556	-36.413	1.00	51.21	H
ATOM	6314	HB	ILE B 31	50.137	-3.459	-39.409	1.00	51.21	H
ATOM	6315	1HG1	ILE B 31	51.703	-4.298	-37.251	1.00	51.21	H
ATOM	6316	2HG1	ILE B 31	52.235	-3.954	-38.914	1.00	51.21	H
ATOM	6317	1HG2	ILE B 31	50.955	-1.118	-39.060	1.00	51.21	H
ATOM	6318	2HG2	ILE B 31	50.368	-1.170	-37.380	1.00	51.21	H
ATOM	6319	3HG2	ILE B 31	49.212	-1.261	-38.730	1.00	51.21	H
ATOM	6320	1HD1	ILE B 31	53.606	-2.751	-37.274	1.00	51.21	H
ATOM	6321	2HD1	ILE B 31	52.149	-1.962	-36.625	1.00	51.21	H
ATOM	6322	3HD1	ILE B 31	52.681	-1.618	-38.288	1.00	51.21	H
ATOM	6323	N	VAL B 32	47.623	-2.030	-37.167	1.00	33.20	N
ATOM	6324	CA	VAL B 32	46.446	-1.238	-37.480	1.00	33.25	C
ATOM	6325	C	VAL B 32	46.813	-0.295	-38.611	1.00	33.47	C
ATOM	6326	O	VAL B 32	47.472	0.727	-38.365	1.00	33.61	O
ATOM	6327	CB	VAL B 32	46.005	-0.420	-36.211	1.00	33.21	C

ATOM	6328	CG1 VAL B	32	44.722	0.371	-36.465	1.00	33.26	C
ATOM	6329	CG2 VAL B	32	45.851	-1.363	-35.004	1.00	32.99	C
ATOM	6330	HN VAL B	32	48.281	-1.679	-36.400	1.00	33.28	H
ATOM	6331	HA VAL B	32	45.634	-1.894	-37.796	1.00	33.28	H
ATOM	6332	HB VAL B	32	46.797	0.292	-35.980	1.00	33.28	H
ATOM	6333	1HG1 VAL B	32	44.450	0.923	-35.565	1.00	33.28	H
ATOM	6334	2HG1 VAL B	32	43.917	-0.316	-36.727	1.00	33.28	H
ATOM	6335	3HG1 VAL B	32	44.882	1.071	-37.285	1.00	33.28	H
ATOM	6336	1HG2 VAL B	32	45.545	-0.788	-34.130	1.00	33.28	H
ATOM	6337	2HG2 VAL B	32	46.803	-1.853	-34.801	1.00	33.28	H
ATOM	6338	3HG2 VAL B	32	45.095	-2.116	-35.225	1.00	33.28	H
ATOM	6339	N LEU B	33	46.383	-0.632	-39.831	1.00	26.95	N
ATOM	6340	CA LEU B	33	46.721	0.160	-41.038	1.00	27.15	C
ATOM	6341	C LEU B	33	45.926	1.448	-41.050	1.00	27.24	C
ATOM	6342	O LEU B	33	45.022	1.643	-40.202	1.00	27.15	O
ATOM	6343	CB LEU B	33	46.438	-0.587	-42.333	1.00	27.16	C
ATOM	6344	CG LEU B	33	46.835	-2.031	-42.184	1.00	27.05	C
ATOM	6345	CD1 LEU B	33	46.549	-2.702	-43.470	1.00	27.10	C
ATOM	6346	CD2 LEU B	33	48.295	-2.169	-41.717	1.00	27.11	C
ATOM	6347	HN LEU B	33	45.773	-1.504	-39.940	1.00	27.11	H
ATOM	6348	HA LEU B	33	47.782	0.407	-41.005	1.00	27.11	H
ATOM	6349	HB1 LEU B	33	45.374	-0.526	-42.561	1.00	27.11	H
ATOM	6350	HB2 LEU B	33	47.010	-0.136	-43.144	1.00	27.11	H
ATOM	6351	HG LEU B	33	46.196	-2.478	-41.423	1.00	27.11	H
ATOM	6352	1HD1 LEU B	33	46.825	-3.754	-43.401	1.00	27.11	H
ATOM	6353	2HD1 LEU B	33	47.126	-2.228	-44.264	1.00	27.11	H
ATOM	6354	3HD1 LEU B	33	45.486	-2.620	-43.695	1.00	27.11	H

ATOM	6355	1HD2 LEU B	33	48.548	-3.225	-41.620	1.00	27.11	H
ATOM	6356	2HD2 LEU B	33	48.416	-1.677	-40.752	1.00	27.11	H
ATOM	6357	3HD2 LEU B	33	48.956	-1.703	-42.448	1.00	27.11	H
ATOM	6358	N GLU B	34	46.260	2.312	-42.020	1.00	36.14	N
ATOM	6359	CA GLU B	34	45.668	3.660	-42.136	1.00	36.28	C
ATOM	6360	C GLU B	34	44.172	3.679	-42.510	1.00	36.20	C
ATOM	6361	O GLU B	34	43.845	3.369	-43.682	1.00	36.20	O
ATOM	6362	CB GLU B	34	46.409	4.502	-43.171	1.00	36.52	C
ATOM	6363	CG GLU B	34	45.752	5.863	-43.333	1.00	36.67	C
ATOM	6364	CD GLU B	34	46.491	6.793	-44.246	1.00	36.93	C
ATOM	6365	OE1 GLU B	34	45.966	7.901	-44.469	1.00	37.08	O
ATOM	6366	OE2 GLU B	34	47.576	6.437	-44.744	1.00	37.01	O
ATOM	6367	HN GLU B	34	46.989	2.011	-42.743	1.00	36.56	H
ATOM	6368	HA GLU B	34	45.774	4.153	-41.170	1.00	36.56	H
ATOM	6369	HB1 GLU B	34	47.440	4.640	-42.847	1.00	36.56	H
ATOM	6370	HB2 GLU B	34	46.395	3.983	-44.129	1.00	36.56	H
ATOM	6371	HG1 GLU B	34	44.750	5.714	-43.734	1.00	36.56	H
ATOM	6372	HG2 GLU B	34	45.685	6.330	-42.350	1.00	36.56	H
ATOM	6373	N PRO B	35	43.281	4.088	-41.532	1.00	27.44	N
ATOM	6374	CA PRO B	35	41.828	4.229	-41.798	1.00	27.39	C
ATOM	6375	C PRO B	35	41.502	4.773	-43.219	1.00	27.51	C
ATOM	6376	O PRO B	35	42.136	5.734	-43.692	1.00	27.70	O
ATOM	6377	CB PRO B	35	41.354	5.183	-40.679	1.00	27.45	C
ATOM	6378	CG PRO B	35	42.261	4.907	-39.560	1.00	27.40	C
ATOM	6379	CD PRO B	35	43.587	4.443	-40.123	1.00	27.43	C
ATOM	6380	HA PRO B	35	41.346	3.260	-41.668	1.00	27.47	H
ATOM	6381	HB1 PRO B	35	41.438	6.222	-40.997	1.00	27.47	H

ATOM	6382	HB2 PRO B	35	40.322	4.969	-40.401	1.00	27.47	H
ATOM	6383	HG1 PRO B	35	42.408	5.814	-38.973	1.00	27.47	H
ATOM	6384	HG2 PRO B	35	41.837	4.128	-38.926	1.00	27.47	H
ATOM	6385	HD1 PRO B	35	44.327	5.242	-40.078	1.00	27.47	H
ATOM	6386	HD2 PRO B	35	43.956	3.575	-39.577	1.00	27.47	H
ATOM	6387	N ILE B	36	40.555	4.137	-43.904	1.00	33.35	N
ATOM	6388	CA ILE B	36	40.287	4.524	-45.294	1.00	33.44	C
ATOM	6389	C ILE B	36	38.923	5.196	-45.428	1.00	33.45	C
ATOM	6390	O ILE B	36	37.874	4.578	-45.228	1.00	33.32	O
ATOM	6391	CB ILE B	36	40.453	3.380	-46.337	1.00	33.36	C
ATOM	6392	CG1 ILE B	36	41.890	2.840	-46.303	1.00	33.39	C
ATOM	6393	CG2 ILE B	36	40.124	3.930	-47.746	1.00	33.45	C
ATOM	6394	CD1 ILE B	36	42.121	1.644	-47.180	1.00	33.34	C
ATOM	6395	HN ILE B	36	39.994	3.350	-43.445	1.00	33.39	H
ATOM	6396	HA ILE B	36	41.028	5.281	-45.549	1.00	33.39	H
ATOM	6397	HB ILE B	36	39.761	2.573	-46.097	1.00	33.39	H
ATOM	6398	1HG1 ILE B	36	42.561	3.635	-46.627	1.00	33.39	H
ATOM	6399	2HG1 ILE B	36	42.125	2.561	-45.276	1.00	33.39	H
ATOM	6400	1HG2 ILE B	36	40.238	3.135	-48.483	1.00	33.39	H
ATOM	6401	2HG2 ILE B	36	40.805	4.747	-47.986	1.00	33.39	H
ATOM	6402	3HG2 ILE B	36	39.097	4.296	-47.763	1.00	33.39	H
ATOM	6403	1HD1 ILE B	36	43.161	1.327	-47.097	1.00	33.39	H
ATOM	6404	2HD1 ILE B	36	41.903	1.905	-48.216	1.00	33.39	H
ATOM	6405	3HD1 ILE B	36	41.467	0.830	-46.865	1.00	33.39	H
ATOM	6406	N TYR B	37	38.956	6.467	-45.789	1.00	32.53	N
ATOM	6407	CA TYR B	37	37.753	7.260	-45.795	1.00	32.58	C
ATOM	6408	C TYR B	37	37.085	7.074	-47.144	1.00	32.55	C

ATOM	6409	O	TYR B 37	37.670	7.404	-48.220	1.00	32.64	O
ATOM	6410	CB	TYR B 37	38.076	8.723	-45.537	1.00	32.82	C
ATOM	6411	CG	TYR B 37	38.590	8.984	-44.142	1.00	32.86	C
ATOM	6412	CD1	TYR B 37	37.821	9.718	-43.239	1.00	32.94	C
ATOM	6413	CD2	TYR B 37	39.841	8.494	-43.709	1.00	32.84	C
ATOM	6414	CE1	TYR B 37	38.268	9.983	-41.938	1.00	33.00	C
ATOM	6415	CE2	TYR B 37	40.302	8.738	-42.398	1.00	32.88	C
ATOM	6416	CZ	TYR B 37	39.504	9.499	-41.514	1.00	32.96	C
ATOM	6417	OH	TYR B 37	39.896	9.795	-40.210	1.00	33.01	O
ATOM	6418	HN	TYR B 37	39.885	6.911	-46.080	1.00	32.80	H
ATOM	6419	HA	TYR B 37	37.084	6.899	-45.013	1.00	32.80	H
ATOM	6420	HB1	TYR B 37	38.836	9.040	-46.251	1.00	32.80	H
ATOM	6421	HB2	TYR B 37	37.169	9.309	-45.687	1.00	32.80	H
ATOM	6422	HD1	TYR B 37	36.848	10.095	-43.553	1.00	32.80	H
ATOM	6423	HD2	TYR B 37	40.460	7.919	-44.398	1.00	32.80	H
ATOM	6424	HE1	TYR B 37	37.649	10.568	-41.257	1.00	32.80	H
ATOM	6425	HE2	TYR B 37	41.264	8.344	-42.070	1.00	32.80	H
ATOM	6426	HH	TYR B 37	39.949	10.837	-40.088	1.00	32.80	H
ATOM	6427	N	TRP B 38	35.878	6.510	-47.097	1.00	27.57	N
ATOM	6428	CA	TRP B 38	35.093	6.315	-48.302	1.00	27.53	C
ATOM	6429	C	TRP B 38	34.406	7.614	-48.565	1.00	27.67	C
ATOM	6430	O	TRP B 38	33.454	7.969	-47.871	1.00	27.68	O
ATOM	6431	CB	TRP B 38	34.084	5.211	-48.140	1.00	27.37	C
ATOM	6432	CG	TRP B 38	33.455	4.871	-49.413	1.00	27.33	C
ATOM	6433	CD1	TRP B 38	32.468	5.548	-50.005	1.00	27.37	C
ATOM	6434	CD2	TRP B 38	33.768	3.756	-50.276	1.00	27.25	C
ATOM	6435	NE1	TRP B 38	32.124	4.949	-51.190	1.00	27.31	N

ATOM	6436	CE2 TRP B	38	32.904	3.843	-51.385	1.00	27.24	C
ATOM	6437	CE3 TRP B	38	34.683	2.694	-50.209	1.00	27.20	C
ATOM	6438	CZ2 TRP B	38	32.914	2.918	-52.435	1.00	27.19	C
ATOM	6439	CZ3 TRP B	38	34.700	1.777	-51.239	1.00	27.16	C
ATOM	6440	CH2 TRP B	38	33.808	1.896	-52.349	1.00	27.16	C
ATOM	6441	HN TRP B	38	35.481	6.196	-46.154	1.00	27.36	H
ATOM	6442	HA TRP B	38	35.757	6.081	-49.134	1.00	27.36	H
ATOM	6443	HB1 TRP B	38	34.586	4.327	-47.746	1.00	27.36	H
ATOM	6444	HB2 TRP B	38	33.314	5.535	-47.440	1.00	27.36	H
ATOM	6445	HD1 TRP B	38	32.002	6.448	-49.604	1.00	27.36	H
ATOM	6446	HE1 TRP B	38	31.363	5.294	-51.858	1.00	27.36	H
ATOM	6447	HE3 TRP B	38	35.364	2.596	-49.363	1.00	27.36	H
ATOM	6448	HZ2 TRP B	38	32.236	3.012	-53.283	1.00	27.36	H
ATOM	6449	HZ3 TRP B	38	35.406	0.947	-51.206	1.00	27.36	H
ATOM	6450	HH2 TRP B	38	33.845	1.152	-53.144	1.00	27.36	H
ATOM	6451	N ASN B	39	34.935	8.324	-49.565	1.00	27.79	N
ATOM	6452	CA ASN B	39	34.608	9.731	-49.861	1.00	27.97	C
ATOM	6453	C ASN B	39	35.036	10.078	-51.309	1.00	28.03	C
ATOM	6454	O ASN B	39	35.979	9.479	-51.831	1.00	28.00	O
ATOM	6455	CB ASN B	39	35.345	10.612	-48.854	1.00	28.14	C
ATOM	6456	CG ASN B	39	34.580	11.799	-48.494	1.00	28.30	C
ATOM	6457	OD1 ASN B	39	33.433	11.930	-48.871	1.00	28.27	O
ATOM	6458	ND2 ASN B	39	35.197	12.688	-47.746	1.00	28.50	N
ATOM	6459	HN ASN B	39	35.648	7.837	-50.197	1.00	28.13	H
ATOM	6460	HA ASN B	39	33.534	9.882	-49.756	1.00	28.13	H
ATOM	6461	HB1 ASN B	39	35.534	10.030	-47.952	1.00	28.13	H
ATOM	6462	HB2 ASN B	39	36.293	10.925	-49.291	1.00	28.13	H



ATOM	6463	1HD2	ASN	B	39	36.207	12.518	-47.436	1.00	28.13	H
ATOM	6464	2HD2	ASN	B	39	34.689	13.581	-47.448	1.00	28.13	H
ATOM	6465	N	SER	B	40	34.374	11.024	-51.966	1.00	28.13	N
ATOM	6466	CA	SER	B	40	34.701	11.300	-53.377	1.00	28.17	C
ATOM	6467	C	SER	B	40	36.033	11.980	-53.531	1.00	28.37	C
ATOM	6468	O	SER	B	40	36.599	12.003	-54.621	1.00	28.41	O
ATOM	6469	CB	SER	B	40	33.688	12.245	-53.993	1.00	28.24	C
ATOM	6470	OG	SER	B	40	33.741	13.474	-53.299	1.00	28.46	O
ATOM	6471	HN	SER	B	40	33.607	11.583	-51.473	1.00	28.30	H
ATOM	6472	HA	SER	B	40	34.707	10.364	-53.936	1.00	28.30	H
ATOM	6473	HB1	SER	B	40	33.927	12.406	-55.044	1.00	28.30	H
ATOM	6474	HB2	SER	B	40	32.689	11.818	-53.909	1.00	28.30	H
ATOM	6475	HG	SER	B	40	33.513	13.315	-52.287	1.00	28.30	H
ATOM	6476	N	SER	B	41	36.480	12.578	-52.431	1.00	28.51	N
ATOM	6477	CA	SER	B	41	37.696	13.392	-52.364	1.00	28.75	C
ATOM	6478	C	SER	B	41	38.971	12.588	-52.276	1.00	28.72	C
ATOM	6479	O	SER	B	41	40.064	13.090	-52.603	1.00	28.91	O
ATOM	6480	CB	SER	B	41	37.637	14.268	-51.105	1.00	28.92	C
ATOM	6481	OG	SER	B	41	37.350	13.467	-49.970	1.00	28.75	O
ATOM	6482	HN	SER	B	41	35.912	12.456	-51.532	1.00	28.76	H
ATOM	6483	HA	SER	B	41	37.742	14.035	-53.243	1.00	28.76	H
ATOM	6484	HB1	SER	B	41	38.598	14.762	-50.964	1.00	28.76	H
ATOM	6485	HB2	SER	B	41	36.856	15.019	-51.224	1.00	28.76	H
ATOM	6486	HG	SER	B	41	36.424	12.990	-50.103	1.00	28.76	H
ATOM	6487	N	ASN	B	42	38.826	11.351	-51.808	1.00	69.62	N
ATOM	6488	CA	ASN	B	42	39.988	10.553	-51.394	1.00	69.59	C
ATOM	6489	C	ASN	B	42	40.954	10.192	-52.569	1.00	69.64	C

ATOM	6490	O	ASN B 42	40.805	9.167	-53.271	1.00	69.49	O
ATOM	6491	CB	ASN B 42	39.546	9.314	-50.548	1.00	69.35	C
ATOM	6492	CG	ASN B 42	40.695	8.728	-49.685	1.00	69.34	C
ATOM	6493	OD1	ASN B 42	41.878	9.081	-49.873	1.00	69.50	O
ATOM	6494	ND2	ASN B 42	40.342	7.821	-48.742	1.00	69.16	N
ATOM	6495	HN	ASN B 42	37.845	10.930	-51.732	1.00	69.46	H
ATOM	6496	HA	ASN B 42	40.562	11.188	-50.719	1.00	69.46	H
ATOM	6497	HB1	ASN B 42	38.735	9.617	-49.886	1.00	69.46	H
ATOM	6498	HB2	ASN B 42	39.192	8.539	-51.227	1.00	69.46	H
ATOM	6499	1HD2	ASN B 42	39.315	7.544	-48.624	1.00	69.46	H
ATOM	6500	2HD2	ASN B 42	41.090	7.382	-48.116	1.00	69.46	H
ATOM	6501	N	SER B 43	41.915	11.102	-52.757	1.00	37.97	N
ATOM	6502	CA	SER B 43	43.149	10.912	-53.539	1.00	38.10	C
ATOM	6503	C	SER B 43	43.836	9.539	-53.531	1.00	37.97	C
ATOM	6504	O	SER B 43	44.881	9.398	-54.157	1.00	38.09	O
ATOM	6505	CB	SER B 43	44.213	11.921	-53.050	1.00	38.38	C
ATOM	6506	OG	SER B 43	43.850	13.290	-53.303	1.00	38.58	O
ATOM	6507	HN	SER B 43	41.775	12.058	-52.297	1.00	38.18	H
ATOM	6508	HA	SER B 43	42.919	11.156	-54.576	1.00	38.18	H
ATOM	6509	HB1	SER B 43	44.347	11.790	-51.976	1.00	38.18	H
ATOM	6510	HB2	SER B 43	45.152	11.711	-53.562	1.00	38.18	H
ATOM	6511	HG	SER B 43	43.726	13.435	-54.336	1.00	38.18	H
ATOM	6512	N	LYS B 44	43.320	8.560	-52.782	1.00	28.53	N
ATOM	6513	CA	LYS B 44	43.884	7.192	-52.785	1.00	28.41	C
ATOM	6514	C	LYS B 44	43.153	6.300	-53.782	1.00	28.26	C
ATOM	6515	O	LYS B 44	43.718	5.332	-54.260	1.00	28.24	O
ATOM	6516	CB	LYS B 44	43.857	6.565	-51.384	1.00	28.28	C

ATOM	6517	CG	LYS	B	44	45.026	6.978	-50.481	1.00	28.42	C
ATOM	6518	CD	LYS	B	44	45.298	5.906	-49.388	1.00	28.25	C
ATOM	6519	CE	LYS	B	44	46.060	6.460	-48.187	1.00	28.35	C
ATOM	6520	NZ	LYS	B	44	45.178	7.321	-47.339	1.00	28.34	N1+
ATOM	6521	HN	LYS	B	44	42.474	8.772	-52.162	1.00	28.34	H
ATOM	6522	HA	LYS	B	44	44.925	7.261	-53.100	1.00	28.34	H
ATOM	6523	HB1	LYS	B	44	42.929	6.861	-50.896	1.00	28.34	H
ATOM	6524	HB2	LYS	B	44	43.879	5.481	-51.496	1.00	28.34	H
ATOM	6525	HG1	LYS	B	44	45.921	7.099	-51.091	1.00	28.34	H
ATOM	6526	HG2	LYS	B	44	44.785	7.925	-49.998	1.00	28.34	H
ATOM	6527	HD1	LYS	B	44	44.342	5.513	-49.042	1.00	28.34	H
ATOM	6528	HD2	LYS	B	44	45.884	5.100	-49.830	1.00	28.34	H
ATOM	6529	HE1	LYS	B	44	46.430	5.629	-47.586	1.00	28.34	H
ATOM	6530	HE2	LYS	B	44	46.901	7.054	-48.543	1.00	28.34	H
ATOM	6531	HZ1	LYS	B	44	45.737	7.695	-46.507	1.00	28.34	H
ATOM	6532	HZ2	LYS	B	44	44.351	6.743	-46.982	1.00	28.34	H
ATOM	6533	HZ3	LYS	B	44	44.814	8.142	-47.921	1.00	28.34	H
ATOM	6534	N	PHE	B	45	41.888	6.615	-54.063	1.00	30.56	N
ATOM	6535	CA	PHE	B	45	41.142	5.924	-55.118	1.00	30.45	C
ATOM	6536	C	PHE	B	45	41.637	6.438	-56.463	1.00	30.59	C
ATOM	6537	O	PHE	B	45	41.175	7.443	-57.019	1.00	30.66	O
ATOM	6538	CB	PHE	B	45	39.628	6.107	-54.969	1.00	30.31	C
ATOM	6539	CG	PHE	B	45	39.047	5.411	-53.759	1.00	30.16	C
ATOM	6540	CD1	PHE	B	45	38.600	4.094	-53.849	1.00	30.01	C
ATOM	6541	CD2	PHE	B	45	38.941	6.075	-52.536	1.00	30.19	C
ATOM	6542	CE1	PHE	B	45	38.069	3.455	-52.752	1.00	29.89	C
ATOM	6543	CE2	PHE	B	45	38.398	5.429	-51.417	1.00	30.05	C

ATOM	6544	CZ	PHE	B	45	37.971	4.128	-51.528	1.00	29.90	C
ATOM	6545	HN	PHE	B	45	41.406	7.391	-53.505	1.00	30.25	H
ATOM	6546	HA	PHE	B	45	41.366	4.859	-55.055	1.00	30.25	H
ATOM	6547	HB1	PHE	B	45	39.417	7.173	-54.887	1.00	30.25	H
ATOM	6548	HB2	PHE	B	45	39.144	5.708	-55.860	1.00	30.25	H
ATOM	6549	HD1	PHE	B	45	38.672	3.564	-54.799	1.00	30.25	H
ATOM	6550	HD2	PHE	B	45	39.284	7.106	-52.450	1.00	30.25	H
ATOM	6551	HE1	PHE	B	45	37.724	2.424	-52.836	1.00	30.25	H
ATOM	6552	HE2	PHE	B	45	38.315	5.955	-50.466	1.00	30.25	H
ATOM	6553	HZ	PHE	B	45	37.554	3.618	-50.660	1.00	30.25	H
ATOM	6554	N	LEU	B	46	42.612	5.731	-56.971	1.00	28.27	N
ATOM	6555	CA	LEU	B	46	43.269	6.144	-58.174	1.00	28.43	C
ATOM	6556	C	LEU	B	46	42.418	5.659	-59.331	1.00	28.32	C
ATOM	6557	O	LEU	B	46	41.747	4.638	-59.229	1.00	28.16	O
ATOM	6558	CB	LEU	B	46	44.688	5.592	-58.180	1.00	28.56	C
ATOM	6559	CG	LEU	B	46	45.358	5.882	-56.825	1.00	28.62	C
ATOM	6560	CD1	LEU	B	46	46.769	5.282	-56.665	1.00	28.74	C
ATOM	6561	CD2	LEU	B	46	45.334	7.382	-56.580	1.00	28.77	C
ATOM	6562	HN	LEU	B	46	42.923	4.832	-56.481	1.00	28.48	H
ATOM	6563	HA	LEU	B	46	43.312	7.233	-58.198	1.00	28.48	H
ATOM	6564	HB1	LEU	B	46	44.658	4.515	-58.347	1.00	28.48	H
ATOM	6565	HB2	LEU	B	46	45.259	6.068	-58.977	1.00	28.48	H
ATOM	6566	HG	LEU	B	46	44.732	5.426	-56.058	1.00	28.48	H
ATOM	6567	1HD1	LEU	B	46	47.163	5.536	-55.681	1.00	28.48	H
ATOM	6568	2HD1	LEU	B	46	47.426	5.687	-57.435	1.00	28.48	H
ATOM	6569	3HD1	LEU	B	46	46.717	4.198	-56.766	1.00	28.48	H
ATOM	6570	1HD2	LEU	B	46	45.806	7.602	-55.622	1.00	28.48	H

ATOM	6571	2HD2 LEU B 46	44.302	7.732	-56.564	1.00	28.48	H
ATOM	6572	3HD2 LEU B 46	45.877	7.890	-57.377	1.00	28.48	H
ATOM	6573	N PRO B 47	42.473	6.374	-60.455	1.00	50.87	N
ATOM	6574	CA PRO B 47	41.393	6.378	-61.454	1.00	50.76	C
ATOM	6575	C PRO B 47	41.316	5.105	-62.288	1.00	50.68	C
ATOM	6576	O PRO B 47	40.215	4.694	-62.685	1.00	50.53	O
ATOM	6577	CB PRO B 47	41.777	7.554	-62.367	1.00	50.93	C
ATOM	6578	CG PRO B 47	43.281	7.564	-62.319	1.00	51.14	C
ATOM	6579	CD PRO B 47	43.639	7.157	-60.904	1.00	51.11	C
ATOM	6580	HA PRO B 47	40.435	6.572	-60.972	1.00	50.86	H
ATOM	6581	HB1 PRO B 47	41.421	7.389	-63.384	1.00	50.86	H
ATOM	6582	HB2 PRO B 47	41.370	8.491	-61.987	1.00	50.86	H
ATOM	6583	HG1 PRO B 47	43.690	6.852	-63.036	1.00	50.86	H
ATOM	6584	HG2 PRO B 47	43.663	8.561	-62.537	1.00	50.86	H
ATOM	6585	HD1 PRO B 47	44.543	6.548	-60.893	1.00	50.86	H
ATOM	6586	HD2 PRO B 47	43.783	8.034	-60.273	1.00	50.86	H
ATOM	6587	N GLY B 48	42.477	4.509	-62.555	1.00	28.37	N
ATOM	6588	CA GLY B 48	42.559	3.243	-63.269	1.00	28.35	C
ATOM	6589	C GLY B 48	42.433	2.024	-62.358	1.00	28.24	C
ATOM	6590	O GLY B 48	41.724	1.067	-62.689	1.00	28.14	O
ATOM	6591	HN GLY B 48	43.383	4.978	-62.233	1.00	28.27	H
ATOM	6592	HA1 GLY B 48	41.756	3.209	-64.005	1.00	28.27	H
ATOM	6593	HA2 GLY B 48	43.521	3.195	-63.778	1.00	28.27	H
ATOM	6594	N GLN B 49	43.114	2.043	-61.214	1.00	28.27	N
ATOM	6595	CA GLN B 49	43.201	0.844	-60.369	1.00	28.19	C
ATOM	6596	C GLN B 49	42.697	1.049	-58.918	1.00	28.06	C
ATOM	6597	O GLN B 49	43.001	0.257	-58.005	1.00	28.01	O

ATOM	6598	CB	GLN B 49	44.639	0.307	-60.399	1.00	28.36	C
ATOM	6599	CG	GLN B 49	45.655	1.209	-59.673	1.00	28.48	C
ATOM	6600	CD	GLN B 49	46.786	1.714	-60.577	1.00	28.73	C
ATOM	6601	OE1	GLN B 49	47.735	0.974	-60.930	1.00	28.86	O
ATOM	6602	NE2	GLN B 49	46.692	2.996	-60.949	1.00	28.80	N
ATOM	6603	HN	GLN B 49	43.604	2.943	-60.906	1.00	28.42	H
ATOM	6604	HA	GLN B 49	42.566	0.084	-60.824	1.00	28.42	H
ATOM	6605	HB1	GLN B 49	44.649	-0.674	-59.924	1.00	28.42	H
ATOM	6606	HB2	GLN B 49	44.948	0.210	-61.440	1.00	28.42	H
ATOM	6607	HG1	GLN B 49	45.124	2.072	-59.272	1.00	28.42	H
ATOM	6608	HG2	GLN B 49	46.096	0.641	-58.854	1.00	28.42	H
ATOM	6609	1HE2	GLN B 49	45.868	3.591	-60.615	1.00	28.42	H
ATOM	6610	2HE2	GLN B 49	47.441	3.426	-61.580	1.00	28.42	H
ATOM	6611	N	GLY B 50	41.921	2.109	-58.714	1.00	28.01	N
ATOM	6612	CA	GLY B 50	41.274	2.334	-57.428	1.00	27.89	C
ATOM	6613	C	GLY B 50	42.292	2.429	-56.317	1.00	27.95	C
ATOM	6614	O	GLY B 50	43.433	2.763	-56.582	1.00	28.11	O
ATOM	6615	HN	GLY B 50	41.769	2.809	-59.508	1.00	27.99	H
ATOM	6616	HA1	GLY B 50	40.708	3.264	-57.472	1.00	27.99	H
ATOM	6617	HA2	GLY B 50	40.597	1.505	-57.220	1.00	27.99	H
ATOM	6618	N	LEU B 51	41.878	2.136	-55.083	1.00	27.82	N
ATOM	6619	CA	LEU B 51	42.781	2.102	-53.932	1.00	27.85	C
ATOM	6620	C	LEU B 51	43.190	0.660	-53.795	1.00	27.80	C
ATOM	6621	O	LEU B 51	42.336	-0.192	-53.500	1.00	27.65	O
ATOM	6622	CB	LEU B 51	42.072	2.579	-52.647	1.00	27.75	C
ATOM	6623	CG	LEU B 51	42.863	2.902	-51.368	1.00	27.79	C
ATOM	6624	CD1	LEU B 51	41.990	3.760	-50.479	1.00	27.75	C

ATOM	6625	CD2	LEU	B	51	43.330	1.685	-50.606	1.00	27.69	C
ATOM	6626	HN	LEU	B	51	40.842	1.917	-54.928	1.00	27.76	H
ATOM	6627	HA	LEU	B	51	43.657	2.721	-54.127	1.00	27.76	H
ATOM	6628	HB1	LEU	B	51	41.532	3.488	-52.913	1.00	27.76	H
ATOM	6629	HB2	LEU	B	51	41.360	1.798	-52.380	1.00	27.76	H
ATOM	6630	HG	LEU	B	51	43.740	3.485	-51.649	1.00	27.76	H
ATOM	6631	1HD1	LEU	B	51	42.530	4.003	-49.564	1.00	27.76	H
ATOM	6632	2HD1	LEU	B	51	41.079	3.216	-50.229	1.00	27.76	H
ATOM	6633	3HD1	LEU	B	51	41.731	4.680	-51.002	1.00	27.76	H
ATOM	6634	1HD2	LEU	B	51	43.879	2.000	-49.719	1.00	27.76	H
ATOM	6635	2HD2	LEU	B	51	43.981	1.085	-51.242	1.00	27.76	H
ATOM	6636	3HD2	LEU	B	51	42.467	1.090	-50.307	1.00	27.76	H
ATOM	6637	N	VAL	B	52	44.471	0.373	-54.053	1.00	37.58	N
ATOM	6638	CA	VAL	B	52	45.048	-0.957	-53.747	1.00	37.55	C
ATOM	6639	C	VAL	B	52	45.842	-0.904	-52.419	1.00	37.54	C
ATOM	6640	O	VAL	B	52	46.563	0.084	-52.140	1.00	37.65	O
ATOM	6641	CB	VAL	B	52	45.887	-1.505	-54.900	1.00	37.71	C
ATOM	6642	CG1	VAL	B	52	46.605	-2.775	-54.467	1.00	37.72	C
ATOM	6643	CG2	VAL	B	52	44.973	-1.766	-56.111	1.00	37.69	C
ATOM	6644	HN	VAL	B	52	45.095	1.123	-54.492	1.00	37.63	H
ATOM	6645	HA	VAL	B	52	44.215	-1.644	-53.598	1.00	37.63	H
ATOM	6646	HB	VAL	B	52	46.631	-0.759	-55.177	1.00	37.63	H
ATOM	6647	1HG1	VAL	B	52	47.200	-3.157	-55.296	1.00	37.63	H
ATOM	6648	2HG1	VAL	B	52	45.871	-3.525	-54.171	1.00	37.63	H
ATOM	6649	3HG1	VAL	B	52	47.259	-2.554	-53.623	1.00	37.63	H
ATOM	6650	1HG2	VAL	B	52	45.567	-2.157	-56.937	1.00	37.63	H
ATOM	6651	2HG2	VAL	B	52	44.498	-0.834	-56.416	1.00	37.63	H

ATOM	6652	3HG2 VAL B 52	44.207	-2.492	-55.839	1.00	37.63	H
ATOM	6653	N LEU B 53	45.684	-1.946	-51.599	1.00	27.76	N
ATOM	6654	CA LEU B 53	46.359	-2.010	-50.321	1.00	27.72	C
ATOM	6655	C LEU B 53	46.774	-3.471	-50.061	1.00	27.68	C
ATOM	6656	O LEU B 53	46.086	-4.409	-50.489	1.00	27.62	O
ATOM	6657	CB LEU B 53	45.438	-1.415	-49.242	1.00	27.58	C
ATOM	6658	CG LEU B 53	45.867	-1.413	-47.764	1.00	27.50	C
ATOM	6659	CD1 LEU B 53	47.116	-0.570	-47.566	1.00	27.65	C
ATOM	6660	CD2 LEU B 53	44.726	-0.864	-46.960	1.00	27.37	C
ATOM	6661	HN LEU B 53	45.044	-2.751	-51.894	1.00	27.61	H
ATOM	6662	HA LEU B 53	47.261	-1.401	-50.377	1.00	27.61	H
ATOM	6663	HB1 LEU B 53	45.265	-0.375	-49.518	1.00	27.61	H
ATOM	6664	HB2 LEU B 53	44.499	-1.967	-49.294	1.00	27.61	H
ATOM	6665	HG LEU B 53	46.070	-2.436	-47.447	1.00	27.61	H
ATOM	6666	1HD1 LEU B 53	47.401	-0.583	-46.514	1.00	27.61	H
ATOM	6667	2HD1 LEU B 53	46.915	0.456	-47.875	1.00	27.61	H
ATOM	6668	3HD1 LEU B 53	47.929	-0.977	-48.167	1.00	27.61	H
ATOM	6669	1HD2 LEU B 53	44.998	-0.849	-45.905	1.00	27.61	H
ATOM	6670	2HD2 LEU B 53	43.847	-1.493	-47.099	1.00	27.61	H
ATOM	6671	3HD2 LEU B 53	44.502	0.150	-47.291	1.00	27.61	H
ATOM	6672	N TYR B 54	47.907	-3.648	-49.376	1.00	29.37	N
ATOM	6673	CA TYR B 54	48.516	-4.965	-49.157	1.00	29.36	C
ATOM	6674	C TYR B 54	48.367	-5.461	-47.713	1.00	29.18	C
ATOM	6675	O TYR B 54	49.374	-5.643	-47.037	1.00	29.20	O
ATOM	6676	CB TYR B 54	50.041	-4.925	-49.482	1.00	29.57	C
ATOM	6677	CG TYR B 54	50.475	-4.506	-50.908	1.00	29.78	C
ATOM	6678	CD1 TYR B 54	49.552	-4.437	-51.969	1.00	29.79	C



ATOM	6679	CD2 TYR B	54	51.819	-4.197	-51.189	1.00	30.00	C
ATOM	6680	CE1 TYR B	54	49.935	-4.046	-53.233	1.00	29.98	C
ATOM	6681	CE2 TYR B	54	52.208	-3.808	-52.467	1.00	30.21	C
ATOM	6682	CZ TYR B	54	51.255	-3.743	-53.483	1.00	30.19	C
ATOM	6683	OH TYR B	54	51.592	-3.390	-54.776	1.00	30.38	O
ATOM	6684	HN TYR B	54	48.394	-2.788	-48.967	1.00	29.75	H
ATOM	6685	HA TYR B	54	48.038	-5.684	-49.822	1.00	29.75	H
ATOM	6686	HB1 TYR B	54	50.501	-4.224	-48.785	1.00	29.75	H
ATOM	6687	HB2 TYR B	54	50.435	-5.926	-49.305	1.00	29.75	H
ATOM	6688	HD1 TYR B	54	48.510	-4.699	-51.786	1.00	29.75	H
ATOM	6689	HD2 TYR B	54	52.564	-4.263	-50.396	1.00	29.75	H
ATOM	6690	HE1 TYR B	54	49.197	-3.977	-54.032	1.00	29.75	H
ATOM	6691	HE2 TYR B	54	53.248	-3.556	-52.672	1.00	29.75	H
ATOM	6692	HH TYR B	54	51.360	-4.180	-55.427	1.00	29.75	H
ATOM	6693	N PRO B	55	47.132	-5.692	-47.210	1.00	37.09	N
ATOM	6694	CA PRO B	55	47.173	-6.055	-45.778	1.00	36.93	C
ATOM	6695	C PRO B	55	47.896	-7.383	-45.593	1.00	36.94	C
ATOM	6696	O PRO B	55	48.082	-8.150	-46.567	1.00	37.06	O
ATOM	6697	CB PRO B	55	45.699	-6.151	-45.360	1.00	36.78	C
ATOM	6698	CG PRO B	55	44.907	-6.272	-46.628	1.00	36.84	C
ATOM	6699	CD PRO B	55	45.760	-5.692	-47.758	1.00	37.03	C
ATOM	6700	HA PRO B	55	47.674	-5.273	-45.207	1.00	36.95	H
ATOM	6701	HB1 PRO B	55	45.542	-7.028	-44.732	1.00	36.95	H
ATOM	6702	HB2 PRO B	55	45.403	-5.255	-44.815	1.00	36.95	H
ATOM	6703	HG1 PRO B	55	44.685	-7.320	-46.830	1.00	36.95	H
ATOM	6704	HG2 PRO B	55	43.976	-5.713	-46.540	1.00	36.95	H
ATOM	6705	HD1 PRO B	55	45.699	-6.317	-48.649	1.00	36.95	H

ATOM	6706	HD2 PRO B 55	45.441	-4.679	-48.002	1.00	36.95	H
ATOM	6707	N GLN B 56	48.352	-7.624	-44.372	1.00	27.12	N
ATOM	6708	CA GLN B 56	48.898	-8.924	-44.003	1.00	27.10	C
ATOM	6709	C GLN B 56	47.963	-9.541	-43.000	1.00	26.90	C
ATOM	6710	O GLN B 56	47.247	-8.804	-42.303	1.00	26.78	O
ATOM	6711	CB GLN B 56	50.299	-8.786	-43.405	1.00	27.14	C
ATOM	6712	CG GLN B 56	51.379	-8.392	-44.404	1.00	27.37	C
ATOM	6713	CD GLN B 56	51.463	-9.353	-45.558	1.00	27.52	C
ATOM	6714	OE1 GLN B 56	51.285	-8.967	-46.723	1.00	27.66	O
ATOM	6715	NE2 GLN B 56	51.774	-10.615	-45.249	1.00	27.52	N
ATOM	6716	HN GLN B 56	48.318	-6.845	-43.639	1.00	27.23	H
ATOM	6717	HA GLN B 56	48.946	-9.558	-44.888	1.00	27.23	H
ATOM	6718	HB1 GLN B 56	50.262	-8.024	-42.626	1.00	27.23	H
ATOM	6719	HB2 GLN B 56	50.576	-9.744	-42.965	1.00	27.23	H
ATOM	6720	HG1 GLN B 56	51.154	-7.398	-44.791	1.00	27.23	H
ATOM	6721	HG2 GLN B 56	52.341	-8.374	-43.892	1.00	27.23	H
ATOM	6722	1HE2 GLN B 56	51.946	-10.889	-44.229	1.00	27.23	H
ATOM	6723	2HE2 GLN B 56	51.851	-11.352	-46.021	1.00	27.23	H
ATOM	6724	N ILE B 57	47.947	-10.878	-42.927	1.00	26.90	N
ATOM	6725	CA ILE B 57	47.113	-11.560	-41.912	1.00	26.72	C
ATOM	6726	C ILE B 57	47.480	-11.069	-40.484	1.00	26.56	C
ATOM	6727	O ILE B 57	48.656	-11.017	-40.100	1.00	26.58	O
ATOM	6728	CB ILE B 57	47.176	-13.112	-41.961	1.00	26.77	C
ATOM	6729	CG1 ILE B 57	46.622	-13.660	-43.268	1.00	26.93	C
ATOM	6730	CG2 ILE B 57	46.361	-13.718	-40.797	1.00	26.59	C
ATOM	6731	CD1 ILE B 57	45.126	-13.717	-43.302	1.00	26.86	C
ATOM	6732	HN ILE B 57	48.540	-11.456	-43.605	1.00	26.74	H

ATOM	6733	HA	ILE B 57	46.078	-11.272	-42.097	1.00	26.74	H
ATOM	6734	HB	ILE B 57	48.216	-13.425	-41.862	1.00	26.74	H
ATOM	6735	1HG1	ILE B 57	46.962	-13.020	-44.082	1.00	26.74	H
ATOM	6736	2HG1	ILE B 57	47.009	-14.669	-43.412	1.00	26.74	H
ATOM	6737	1HG2	ILE B 57	46.414	-14.806	-40.843	1.00	26.74	H
ATOM	6738	2HG2	ILE B 57	45.321	-13.401	-40.877	1.00	26.74	H
ATOM	6739	3HG2	ILE B 57	46.772	-13.375	-39.848	1.00	26.74	H
ATOM	6740	1HD1	ILE B 57	44.799	-14.117	-44.262	1.00	26.74	H
ATOM	6741	2HD1	ILE B 57	44.721	-12.714	-43.170	1.00	26.74	H
ATOM	6742	3HD1	ILE B 57	44.768	-14.362	-42.499	1.00	26.74	H
ATOM	6743	N	GLY B 58	46.460	-10.688	-39.720	1.00	42.67	N
ATOM	6744	CA	GLY B 58	46.659	-10.070	-38.412	1.00	42.53	C
ATOM	6745	C	GLY B 58	46.482	-8.542	-38.365	1.00	42.55	C
ATOM	6746	O	GLY B 58	46.496	-7.915	-37.274	1.00	42.45	O
ATOM	6747	HN	GLY B 58	45.462	-10.839	-40.075	1.00	42.55	H
ATOM	6748	HA1	GLY B 58	45.942	-10.512	-37.720	1.00	42.55	H
ATOM	6749	HA2	GLY B 58	47.672	-10.300	-38.083	1.00	42.55	H
ATOM	6750	N	ASP B 59	46.328	-7.920	-39.532	1.00	51.40	N
ATOM	6751	CA	ASP B 59	46.115	-6.469	-39.567	1.00	51.44	C
ATOM	6752	C	ASP B 59	44.653	-6.144	-39.234	1.00	51.36	C
ATOM	6753	O	ASP B 59	43.812	-7.052	-39.115	1.00	51.28	O
ATOM	6754	CB	ASP B 59	46.486	-5.882	-40.937	1.00	51.63	C
ATOM	6755	CG	ASP B 59	47.870	-6.294	-41.395	1.00	51.75	C
ATOM	6756	OD1	ASP B 59	48.540	-7.040	-40.653	1.00	51.68	O
ATOM	6757	OD2	ASP B 59	48.282	-5.901	-42.511	1.00	51.92	O
ATOM	6758	HN	ASP B 59	46.360	-8.478	-40.444	1.00	51.56	H
ATOM	6759	HA	ASP B 59	46.751	-6.009	-38.811	1.00	51.56	H

ATOM	6760	HB1 ASP B 59	45.759	-6.226	-41.672	1.00	51.56	H
ATOM	6761	HB2 ASP B 59	46.450	-4.795	-40.871	1.00	51.56	H
ATOM	6762	N LYS B 60	44.362	-4.857	-39.059	1.00	26.43	N
ATOM	6763	CA LYS B 60	42.987	-4.387	-39.003	1.00	26.41	C
ATOM	6764	C LYS B 60	42.851	-3.002	-39.667	1.00	26.55	C
ATOM	6765	O LYS B 60	43.737	-2.141	-39.556	1.00	26.64	O
ATOM	6766	CB LYS B 60	42.464	-4.379	-37.561	1.00	26.27	C
ATOM	6767	CG LYS B 60	43.426	-3.754	-36.557	1.00	26.26	C
ATOM	6768	CD LYS B 60	42.775	-3.472	-35.243	1.00	26.15	C
ATOM	6769	CE LYS B 60	42.503	-4.747	-34.458	1.00	25.98	C
ATOM	6770	NZ LYS B 60	41.463	-4.561	-33.413	1.00	25.90	N1+
ATOM	6771	HN LYS B 60	45.159	-4.151	-38.957	1.00	26.29	H
ATOM	6772	HA LYS B 60	42.375	-5.087	-39.572	1.00	26.29	H
ATOM	6773	HB1 LYS B 60	41.531	-3.816	-37.538	1.00	26.29	H
ATOM	6774	HB2 LYS B 60	42.275	-5.409	-37.259	1.00	26.29	H
ATOM	6775	HG1 LYS B 60	44.257	-4.440	-36.395	1.00	26.29	H
ATOM	6776	HG2 LYS B 60	43.802	-2.818	-36.969	1.00	26.29	H
ATOM	6777	HD1 LYS B 60	43.431	-2.830	-34.655	1.00	26.29	H
ATOM	6778	HD2 LYS B 60	41.829	-2.960	-35.421	1.00	26.29	H
ATOM	6779	HE1 LYS B 60	42.168	-5.519	-35.151	1.00	26.29	H
ATOM	6780	HE2 LYS B 60	43.428	-5.066	-33.978	1.00	26.29	H
ATOM	6781	HZ1 LYS B 60	41.311	-5.483	-32.893	1.00	26.29	H
ATOM	6782	HZ2 LYS B 60	40.546	-4.255	-33.872	1.00	26.29	H
ATOM	6783	HZ3 LYS B 60	41.783	-3.810	-32.721	1.00	26.29	H
ATOM	6784	N LEU B 61	41.711	-2.812	-40.336	1.00	26.57	N
ATOM	6785	CA LEU B 61	41.493	-1.716	-41.269	1.00	26.71	C
ATOM	6786	C LEU B 61	40.137	-1.129	-41.043	1.00	26.70	C

ATOM	6787	O	LEU B 61	39.152	-1.865	-41.044	1.00	26.62	O
ATOM	6788	CB	LEU B 61	41.527	-2.225	-42.730	1.00	26.78	C
ATOM	6789	CG	LEU B 61	41.606	-1.143	-43.837	1.00	26.93	C
ATOM	6790	CD1	LEU B 61	43.054	-0.696	-43.896	1.00	27.05	C
ATOM	6791	CD2	LEU B 61	41.119	-1.565	-45.232	1.00	26.97	C
ATOM	6792	HN	LEU B 61	40.912	-3.505	-40.177	1.00	26.79	H
ATOM	6793	HA	LEU B 61	42.256	-0.951	-41.126	1.00	26.79	H
ATOM	6794	HB1	LEU B 61	42.399	-2.871	-42.835	1.00	26.79	H
ATOM	6795	HB2	LEU B 61	40.621	-2.806	-42.899	1.00	26.79	H
ATOM	6796	HG	LEU B 61	41.006	-0.292	-43.516	1.00	26.79	H
ATOM	6797	1HD1	LEU B 61	43.167	0.070	-44.663	1.00	26.79	H
ATOM	6798	2HD1	LEU B 61	43.688	-1.549	-44.138	1.00	26.79	H
ATOM	6799	3HD1	LEU B 61	43.348	-0.287	-42.929	1.00	26.79	H
ATOM	6800	1HD2	LEU B 61	41.222	-0.728	-45.922	1.00	26.79	H
ATOM	6801	2HD2	LEU B 61	40.072	-1.863	-45.177	1.00	26.79	H
ATOM	6802	3HD2	LEU B 61	41.717	-2.404	-45.588	1.00	26.79	H
ATOM	6803	N	ASP B 62	40.079	0.187	-40.881	1.00	26.81	N
ATOM	6804	CA	ASP B 62	38.803	0.887	-40.796	1.00	26.83	C
ATOM	6805	C	ASP B 62	38.449	1.432	-42.205	1.00	26.95	C
ATOM	6806	O	ASP B 62	39.273	2.054	-42.890	1.00	27.07	O
ATOM	6807	CB	ASP B 62	38.846	2.025	-39.745	1.00	26.91	C
ATOM	6808	CG	ASP B 62	38.912	1.518	-38.245	1.00	26.78	C
ATOM	6809	OD1	ASP B 62	39.049	0.306	-37.950	1.00	26.63	O
ATOM	6810	OD2	ASP B 62	38.821	2.372	-37.328	1.00	26.84	O
ATOM	6811	HN	ASP B 62	40.988	0.746	-40.811	1.00	26.85	H
ATOM	6812	HA	ASP B 62	38.036	0.172	-40.499	1.00	26.85	H
ATOM	6813	HB1	ASP B 62	39.727	2.637	-39.939	1.00	26.85	H

ATOM	6814	HB2 ASP B 62	37.949	2.633	-39.862	1.00	26.85	H
ATOM	6815	N ILE B 63	37.222	1.170	-42.650	1.00	37.00	N
ATOM	6816	CA ILE B 63	36.613	1.959	-43.755	1.00	37.11	C
ATOM	6817	C ILE B 63	35.496	2.855	-43.161	1.00	37.15	C
ATOM	6818	O ILE B 63	34.620	2.374	-42.405	1.00	37.07	O
ATOM	6819	CB ILE B 63	36.097	1.090	-44.922	1.00	37.06	C
ATOM	6820	CG1 ILE B 63	37.235	0.886	-45.947	1.00	37.11	C
ATOM	6821	CG2 ILE B 63	34.865	1.734	-45.559	1.00	37.11	C
ATOM	6822	CD1 ILE B 63	36.882	-0.008	-47.123	1.00	37.09	C
ATOM	6823	HN ILE B 63	36.662	0.375	-42.204	1.00	37.09	H
ATOM	6824	HA ILE B 63	37.385	2.617	-44.153	1.00	37.09	H
ATOM	6825	HB ILE B 63	35.811	0.116	-44.526	1.00	37.09	H
ATOM	6826	1HG1 ILE B 63	37.518	1.863	-46.338	1.00	37.09	H
ATOM	6827	2HG1 ILE B 63	38.084	0.442	-45.427	1.00	37.09	H
ATOM	6828	1HG2 ILE B 63	34.512	1.110	-46.380	1.00	37.09	H
ATOM	6829	2HG2 ILE B 63	35.126	2.721	-45.940	1.00	37.09	H
ATOM	6830	3HG2 ILE B 63	34.077	1.830	-44.812	1.00	37.09	H
ATOM	6831	1HD1 ILE B 63	37.742	-0.092	-47.787	1.00	37.09	H
ATOM	6832	2HD1 ILE B 63	36.043	0.423	-47.669	1.00	37.09	H
ATOM	6833	3HD1 ILE B 63	36.608	-0.998	-46.758	1.00	37.09	H
ATOM	6834	N ILE B 64	35.569	4.156	-43.466	1.00	27.21	N
ATOM	6835	CA ILE B 64	34.886	5.204	-42.706	1.00	27.31	C
ATOM	6836	C ILE B 64	34.228	6.182	-43.652	1.00	27.44	C
ATOM	6837	O ILE B 64	34.925	6.826	-44.415	1.00	27.55	O
ATOM	6838	CB ILE B 64	35.955	5.989	-41.845	1.00	27.42	C
ATOM	6839	CG1 ILE B 64	36.356	5.197	-40.598	1.00	27.29	C
ATOM	6840	CG2 ILE B 64	35.469	7.359	-41.411	1.00	27.61	C

ATOM	6841	CD1 ILE B 64	36.982	6.058	-39.519	1.00	27.40	C
ATOM	6842	HN ILE B 64	36.158	4.446	-44.311	1.00	27.40	H
ATOM	6843	HA ILE B 64	34.136	4.759	-42.051	1.00	27.40	H
ATOM	6844	HB ILE B 64	36.846	6.126	-42.458	1.00	27.40	H
ATOM	6845	1HG1 ILE B 64	35.465	4.722	-40.188	1.00	27.40	H
ATOM	6846	2HG1 ILE B 64	37.075	4.431	-40.890	1.00	27.40	H
ATOM	6847	1HG2 ILE B 64	36.244	7.851	-40.824	1.00	27.40	H
ATOM	6848	2HG2 ILE B 64	34.569	7.251	-40.806	1.00	27.40	H
ATOM	6849	3HG2 ILE B 64	35.244	7.961	-42.291	1.00	27.40	H
ATOM	6850	1HD1 ILE B 64	37.243	5.436	-38.663	1.00	27.40	H
ATOM	6851	2HD1 ILE B 64	36.272	6.824	-39.208	1.00	27.40	H
ATOM	6852	3HD1 ILE B 64	37.882	6.534	-39.910	1.00	27.40	H
ATOM	6853	N CYS B 65	32.906	6.307	-43.621	1.00	48.51	N
ATOM	6854	CA CYS B 65	32.260	7.447	-44.291	1.00	48.66	C
ATOM	6855	C CYS B 65	32.056	8.582	-43.296	1.00	48.83	C
ATOM	6856	O CYS B 65	31.347	8.416	-42.280	1.00	48.81	O
ATOM	6857	CB CYS B 65	30.922	7.108	-44.897	1.00	48.60	C
ATOM	6858	SG CYS B 65	30.887	5.504	-45.519	1.00	48.40	S
ATOM	6859	HN CYS B 65	32.311	5.579	-43.109	1.00	48.63	H
ATOM	6860	HA CYS B 65	32.919	7.799	-45.085	1.00	48.64	H
ATOM	6861	HB1 CYS B 65	30.153	7.205	-44.130	1.00	48.64	H
ATOM	6862	HB2 CYS B 65	30.716	7.805	-45.709	1.00	48.64	H
ATOM	6863	N PRO B 66	32.646	9.754	-43.594	1.00	45.59	N
ATOM	6864	CA PRO B 66	32.628	10.799	-42.605	1.00	45.79	C
ATOM	6865	C PRO B 66	31.234	11.383	-42.559	1.00	45.88	C
ATOM	6866	O PRO B 66	30.445	11.127	-43.468	1.00	45.81	O
ATOM	6867	CB PRO B 66	33.661	11.800	-43.136	1.00	45.98	C

ATOM	6868	CG	PRO B	66	33.612	11.661	-44.575	1.00	45.94	C
ATOM	6869	CD	PRO B	66	33.302	10.203	-44.838	1.00	45.67	C
ATOM	6870	HA	PRO B	66	32.923	10.416	-41.628	1.00	45.81	H
ATOM	6871	HB1	PRO B	66	33.397	12.815	-42.840	1.00	45.81	H
ATOM	6872	HB2	PRO B	66	34.656	11.559	-42.762	1.00	45.81	H
ATOM	6873	HG1	PRO B	66	32.830	12.296	-44.991	1.00	45.81	H
ATOM	6874	HG2	PRO B	66	34.572	11.930	-45.015	1.00	45.81	H
ATOM	6875	HD1	PRO B	66	32.632	10.096	-45.691	1.00	45.81	H
ATOM	6876	HD2	PRO B	66	34.216	9.638	-45.021	1.00	45.81	H
ATOM	6877	N	LYS B	67	30.933	12.097	-41.477	1.00	28.40	N
ATOM	6878	CA	LYS B	67	29.701	12.889	-41.363	1.00	28.56	C
ATOM	6879	C	LYS B	67	29.888	14.292	-41.942	1.00	28.83	C
ATOM	6880	O	LYS B	67	30.983	14.816	-41.905	1.00	28.95	O
ATOM	6881	CB	LYS B	67	29.230	12.969	-39.896	1.00	28.63	C
ATOM	6882	CG	LYS B	67	30.001	13.910	-39.000	1.00	28.85	C
ATOM	6883	CD	LYS B	67	29.736	13.590	-37.524	1.00	28.84	C
ATOM	6884	CE	LYS B	67	30.537	14.491	-36.601	1.00	29.06	C
ATOM	6885	NZ	LYS B	67	31.878	14.813	-37.179	1.00	29.10	N1+
ATOM	6886	HN	LYS B	67	31.618	12.094	-40.655	1.00	28.80	H
ATOM	6887	HA	LYS B	67	28.924	12.388	-41.939	1.00	28.80	H
ATOM	6888	HB1	LYS B	67	28.188	13.290	-39.898	1.00	28.80	H
ATOM	6889	HB2	LYS B	67	29.302	11.969	-39.468	1.00	28.80	H
ATOM	6890	HG1	LYS B	67	31.067	13.805	-39.203	1.00	28.80	H
ATOM	6891	HG2	LYS B	67	29.691	14.934	-39.205	1.00	28.80	H
ATOM	6892	HD1	LYS B	67	28.675	13.728	-37.318	1.00	28.80	H
ATOM	6893	HD2	LYS B	67	30.012	12.553	-37.332	1.00	28.80	H
ATOM	6894	HE1	LYS B	67	29.986	15.419	-36.446	1.00	28.80	H



ATOM	6895	HE2	LYS	B	67	30.675	13.986	-35.645	1.00	28.80	H
ATOM	6896	HZ1	LYS	B	67	32.414	15.448	-36.505	1.00	28.80	H
ATOM	6897	HZ2	LYS	B	67	31.752	15.314	-38.116	1.00	28.80	H
ATOM	6898	HZ3	LYS	B	67	32.428	13.908	-37.330	1.00	28.80	H
ATOM	6899	N	VAL	B	68	28.810	14.897	-42.444	1.00	40.30	N
ATOM	6900	CA	VAL	B	68	28.866	16.227	-43.111	1.00	40.57	C
ATOM	6901	C	VAL	B	68	29.258	17.386	-42.164	1.00	40.89	C
ATOM	6902	O	VAL	B	68	28.473	17.822	-41.314	1.00	41.04	O
ATOM	6903	CB	VAL	B	68	27.510	16.580	-43.820	1.00	40.61	C
ATOM	6904	CG1	VAL	B	68	26.430	17.043	-42.770	1.00	40.79	C
ATOM	6905	CG2	VAL	B	68	27.721	17.623	-44.953	1.00	40.78	C
ATOM	6906	HN	VAL	B	68	27.863	14.405	-42.364	1.00	40.71	H
ATOM	6907	HA	VAL	B	68	29.631	16.169	-43.885	1.00	40.71	H
ATOM	6908	HC	VAL	B	68	30.250	17.829	-42.248	1.00	40.71	H
ATOM	6909	HB	VAL	B	68	27.140	15.666	-44.285	1.00	40.71	H
ATOM	6910	1HG1	VAL	B	68	25.500	17.282	-43.286	1.00	40.71	H
ATOM	6911	2HG1	VAL	B	68	26.790	17.927	-42.243	1.00	40.71	H
ATOM	6912	3HG1	VAL	B	68	26.252	16.241	-42.054	1.00	40.71	H
ATOM	6913	1HG2	VAL	B	68	26.764	17.847	-45.424	1.00	40.71	H
ATOM	6914	2HG2	VAL	B	68	28.406	17.218	-45.697	1.00	40.71	H
ATOM	6915	3HG2	VAL	B	68	28.141	18.537	-44.533	1.00	40.71	H
ATOM	6916	N	TYR	B	76	26.885	15.715	-47.918	1.00	28.84	N
ATOM	6917	CA	TYR	B	76	26.954	14.289	-47.549	1.00	28.59	C
ATOM	6918	C	TYR	B	76	26.778	13.367	-48.753	1.00	28.36	C
ATOM	6919	O	TYR	B	76	25.781	13.423	-49.478	1.00	28.34	O
ATOM	6920	CB	TYR	B	76	25.891	13.927	-46.484	1.00	28.58	C
ATOM	6921	CG	TYR	B	76	26.111	12.589	-45.810	1.00	28.37	C

ATOM	6922	CD1 TYR B 76	27.098	12.448	-44.858	1.00	28.38	C
ATOM	6923	CD2 TYR B 76	25.339	11.466	-46.126	1.00	28.18	C
ATOM	6924	CE1 TYR B 76	27.332	11.206	-44.209	1.00	28.18	C
ATOM	6925	CE2 TYR B 76	25.562	10.209	-45.489	1.00	28.01	C
ATOM	6926	CZ TYR B 76	26.575	10.101	-44.518	1.00	28.01	C
ATOM	6927	OH TYR B 76	26.874	8.948	-43.825	1.00	27.85	O
ATOM	6928	HN1 TYR B 76	25.932	15.924	-48.358	1.00	28.31	H
ATOM	6929	HN2 TYR B 76	27.659	15.940	-48.622	1.00	28.31	H
ATOM	6930	HA TYR B 76	27.938	14.099	-47.121	1.00	28.31	H
ATOM	6931	HB1 TYR B 76	25.900	14.701	-45.716	1.00	28.31	H
ATOM	6932	HB2 TYR B 76	24.915	13.908	-46.969	1.00	28.31	H
ATOM	6933	HD1 TYR B 76	27.713	13.309	-44.597	1.00	28.31	H
ATOM	6934	HD2 TYR B 76	24.551	11.553	-46.874	1.00	28.31	H
ATOM	6935	HE1 TYR B 76	28.119	11.129	-43.459	1.00	28.31	H
ATOM	6936	HE2 TYR B 76	24.955	9.343	-45.751	1.00	28.31	H
ATOM	6937	HH TYR B 76	27.872	8.677	-44.009	1.00	28.31	H
ATOM	6938	N GLU B 77	27.747	12.488	-48.913	1.00	28.22	N
ATOM	6939	CA GLU B 77	27.691	11.490	-49.932	1.00	28.02	C
ATOM	6940	C GLU B 77	27.014	10.203	-49.386	1.00	27.85	C
ATOM	6941	O GLU B 77	27.346	9.738	-48.299	1.00	27.82	O
ATOM	6942	CB GLU B 77	29.122	11.235	-50.409	1.00	27.99	C
ATOM	6943	CG GLU B 77	29.884	12.493	-50.822	1.00	28.19	C
ATOM	6944	CD GLU B 77	31.183	12.183	-51.593	1.00	28.16	C
ATOM	6945	OE1 GLU B 77	31.202	11.212	-52.382	1.00	27.99	O
ATOM	6946	OE2 GLU B 77	32.201	12.907	-51.420	1.00	28.32	O
ATOM	6947	HN GLU B 77	28.596	12.523	-48.263	1.00	28.06	H
ATOM	6948	HA GLU B 77	27.103	11.871	-50.767	1.00	28.06	H

ATOM	6949	HB1	GLU	B	77	29.671	10.755	-49.599	1.00	28.06	H
ATOM	6950	HB2	GLU	B	77	29.081	10.565	-51.267	1.00	28.06	H
ATOM	6951	HG1	GLU	B	77	29.238	13.097	-51.459	1.00	28.06	H
ATOM	6952	HG2	GLU	B	77	30.139	13.055	-49.924	1.00	28.06	H
ATOM	6953	N	TYR	B	78	26.059	9.659	-50.146	1.00	27.75	N
ATOM	6954	CA	TYR	B	78	25.361	8.406	-49.807	1.00	27.61	C
ATOM	6955	C	TYR	B	78	25.804	7.144	-50.548	1.00	27.45	C
ATOM	6956	O	TYR	B	78	25.752	7.071	-51.794	1.00	27.41	O
ATOM	6957	CB	TYR	B	78	23.878	8.565	-50.068	1.00	27.64	C
ATOM	6958	CG	TYR	B	78	23.266	9.579	-49.177	1.00	27.81	C
ATOM	6959	CD1	TYR	B	78	22.974	9.268	-47.852	1.00	27.84	C
ATOM	6960	CD2	TYR	B	78	23.001	10.847	-49.634	1.00	27.96	C
ATOM	6961	CE1	TYR	B	78	22.411	10.198	-47.006	1.00	28.03	C
ATOM	6962	CE2	TYR	B	78	22.446	11.787	-48.800	1.00	28.15	C
ATOM	6963	CZ	TYR	B	78	22.141	11.460	-47.486	1.00	28.19	C
ATOM	6964	OH	TYR	B	78	21.586	12.414	-46.664	1.00	28.41	O
ATOM	6965	HN	TYR	B	78	25.786	10.161	-51.051	1.00	27.85	H
ATOM	6966	HA	TYR	B	78	25.494	8.229	-48.740	1.00	27.85	H
ATOM	6967	HB1	TYR	B	78	23.734	8.873	-51.104	1.00	27.85	H
ATOM	6968	HB2	TYR	B	78	23.386	7.607	-49.901	1.00	27.85	H
ATOM	6969	HD1	TYR	B	78	23.195	8.269	-47.476	1.00	27.85	H
ATOM	6970	HD2	TYR	B	78	23.233	11.109	-50.666	1.00	27.85	H
ATOM	6971	HE1	TYR	B	78	22.183	9.939	-45.972	1.00	27.85	H
ATOM	6972	HE2	TYR	B	78	22.245	12.792	-49.171	1.00	27.85	H
ATOM	6973	HH	TYR	B	78	20.656	12.076	-46.313	1.00	27.85	H
ATOM	6974	N	TYR	B	79	26.158	6.134	-49.747	1.00	27.37	N
ATOM	6975	CA	TYR	B	79	26.808	4.931	-50.229	1.00	27.25	C

ATOM	6976	C	TYR B 79	26.356	3.734	-49.485	1.00	27.17	C
ATOM	6977	O	TYR B 79	26.253	3.780	-48.266	1.00	27.19	O
ATOM	6978	CB	TYR B 79	28.324	4.989	-49.956	1.00	27.25	C
ATOM	6979	CG	TYR B 79	29.076	6.033	-50.732	1.00	27.35	C
ATOM	6980	CD1	TYR B 79	29.150	5.971	-52.134	1.00	27.32	C
ATOM	6981	CD2	TYR B 79	29.713	7.085	-50.075	1.00	27.47	C
ATOM	6982	CE1	TYR B 79	29.842	6.937	-52.861	1.00	27.42	C
ATOM	6983	CE2	TYR B 79	30.409	8.057	-50.793	1.00	27.58	C
ATOM	6984	CZ	TYR B 79	30.469	7.978	-52.184	1.00	27.56	C
ATOM	6985	OH	TYR B 79	31.157	8.938	-52.885	1.00	27.68	O
ATOM	6986	HN	TYR B 79	25.952	6.217	-48.700	1.00	27.38	H
ATOM	6987	HA	TYR B 79	26.622	4.804	-51.295	1.00	27.38	H
ATOM	6988	HB1	TYR B 79	28.468	5.190	-48.894	1.00	27.38	H
ATOM	6989	HB2	TYR B 79	28.748	4.016	-50.203	1.00	27.38	H
ATOM	6990	HD1	TYR B 79	28.658	5.154	-52.661	1.00	27.38	H
ATOM	6991	HD2	TYR B 79	29.666	7.148	-48.988	1.00	27.38	H
ATOM	6992	HE1	TYR B 79	29.892	6.878	-53.948	1.00	27.38	H
ATOM	6993	HE2	TYR B 79	30.904	8.875	-50.269	1.00	27.38	H
ATOM	6994	HH	TYR B 79	31.933	8.486	-53.429	1.00	27.38	H
ATOM	6995	N	LYS B 80	26.149	2.659	-50.231	1.00	27.09	N
ATOM	6996	CA	LYS B 80	26.174	1.319	-49.699	1.00	27.03	C
ATOM	6997	C	LYS B 80	27.419	0.655	-50.288	1.00	26.98	C
ATOM	6998	O	LYS B 80	27.601	0.670	-51.477	1.00	26.98	O
ATOM	6999	CB	LYS B 80	24.842	0.610	-50.026	1.00	27.03	C
ATOM	7000	CG	LYS B 80	23.669	1.005	-49.030	1.00	27.09	C
ATOM	7001	CD	LYS B 80	22.217	0.665	-49.500	1.00	27.13	C
ATOM	7002	CE	LYS B 80	21.189	0.605	-48.323	1.00	27.20	C

ATOM	7003	NZ	LYS	B	80	19.899	-0.102	-48.640	1.00	27.24	N1+
ATOM	7004	HN	LYS	B	80	25.955	2.791	-51.275	1.00	27.09	H
ATOM	7005	HA	LYS	B	80	26.285	1.374	-48.616	1.00	27.09	H
ATOM	7006	HB1	LYS	B	80	24.544	0.881	-51.039	1.00	27.09	H
ATOM	7007	HB2	LYS	B	80	24.999	-0.467	-49.969	1.00	27.09	H
ATOM	7008	HG1	LYS	B	80	23.844	0.484	-48.088	1.00	27.09	H
ATOM	7009	HG2	LYS	B	80	23.721	2.081	-48.866	1.00	27.09	H
ATOM	7010	HD1	LYS	B	80	21.893	1.430	-50.205	1.00	27.09	H
ATOM	7011	HD2	LYS	B	80	22.232	-0.305	-49.997	1.00	27.09	H
ATOM	7012	HE1	LYS	B	80	21.661	0.088	-47.488	1.00	27.09	H
ATOM	7013	HE2	LYS	B	80	20.951	1.627	-48.030	1.00	27.09	H
ATOM	7014	HZ1	LYS	B	80	19.265	-0.091	-47.778	1.00	27.09	H
ATOM	7015	HZ2	LYS	B	80	20.106	-1.115	-48.918	1.00	27.09	H
ATOM	7016	HZ3	LYS	B	80	19.408	0.396	-49.450	1.00	27.09	H
ATOM	7017	N	VAL	B	81	28.310	0.147	-49.452	1.00	26.95	N
ATOM	7018	CA	VAL	B	81	29.563	-0.478	-49.918	1.00	26.93	C
ATOM	7019	C	VAL	B	81	29.536	-1.982	-49.674	1.00	26.88	C
ATOM	7020	O	VAL	B	81	29.226	-2.426	-48.581	1.00	26.85	O
ATOM	7021	CB	VAL	B	81	30.832	0.075	-49.197	1.00	26.94	C
ATOM	7022	CG1	VAL	B	81	32.006	-0.859	-49.388	1.00	26.91	C
ATOM	7023	CG2	VAL	B	81	31.208	1.427	-49.707	1.00	27.02	C
ATOM	7024	HN	VAL	B	81	28.115	0.191	-48.401	1.00	26.93	H
ATOM	7025	HA	VAL	B	81	29.665	-0.300	-50.989	1.00	26.93	H
ATOM	7026	HB	VAL	B	81	30.620	0.153	-48.131	1.00	26.93	H
ATOM	7027	1HG1	VAL	B	81	32.880	-0.454	-48.877	1.00	26.93	H
ATOM	7028	2HG1	VAL	B	81	32.222	-0.959	-50.452	1.00	26.93	H
ATOM	7029	3HG1	VAL	B	81	31.764	-1.837	-48.973	1.00	26.93	H

ATOM	7030	1HG2 VAL B	81	32.096	1.780	-49.182	1.00	26.93	H
ATOM	7031	2HG2 VAL B	81	30.386	2.122	-49.537	1.00	26.93	H
ATOM	7032	3HG2 VAL B	81	31.418	1.368	-50.775	1.00	26.93	H
ATOM	7033	N TYR B	82	29.903	-2.765	-50.676	1.00	26.89	N
ATOM	7034	CA TYR B	82	29.839	-4.219	-50.579	1.00	26.89	C
ATOM	7035	C TYR B	82	31.189	-4.854	-50.884	1.00	26.90	C
ATOM	7036	O TYR B	82	31.872	-4.453	-51.833	1.00	26.94	O
ATOM	7037	CB TYR B	82	28.863	-4.811	-51.603	1.00	26.93	C
ATOM	7038	CG TYR B	82	27.402	-4.375	-51.572	1.00	26.93	C
ATOM	7039	CD1 TYR B	82	26.401	-5.303	-51.508	1.00	26.97	C
ATOM	7040	CD2 TYR B	82	27.035	-3.043	-51.676	1.00	26.93	C
ATOM	7041	CE1 TYR B	82	25.104	-4.927	-51.519	1.00	26.99	C
ATOM	7042	CE2 TYR B	82	25.733	-2.661	-51.677	1.00	26.95	C
ATOM	7043	CZ TYR B	82	24.778	-3.604	-51.598	1.00	26.98	C
ATOM	7044	OH TYR B	82	23.468	-3.225	-51.584	1.00	27.02	O
ATOM	7045	HN TYR B	82	30.256	-2.319	-51.582	1.00	26.94	H
ATOM	7046	HA TYR B	82	29.525	-4.501	-49.574	1.00	26.94	H
ATOM	7047	HB1 TYR B	82	29.249	-4.563	-52.592	1.00	26.94	H
ATOM	7048	HB2 TYR B	82	28.876	-5.893	-51.468	1.00	26.94	H
ATOM	7049	HD1 TYR B	82	26.653	-6.362	-51.447	1.00	26.94	H
ATOM	7050	HD2 TYR B	82	27.812	-2.283	-51.759	1.00	26.94	H
ATOM	7051	HE1 TYR B	82	24.318	-5.680	-51.465	1.00	26.94	H
ATOM	7052	HE2 TYR B	82	25.466	-1.606	-51.741	1.00	26.94	H
ATOM	7053	HH TYR B	82	22.969	-3.659	-52.399	1.00	26.94	H
ATOM	7054	N MET B	83	31.555	-5.868	-50.097	1.00	26.89	N
ATOM	7055	CA MET B	83	32.622	-6.796	-50.474	1.00	26.93	C
ATOM	7056	C MET B	83	32.072	-7.588	-51.634	1.00	27.01	C

ATOM	7057	O	MET B	83	31.008	-8.192	-51.490	1.00	27.02	O
ATOM	7058	CB	MET B	83	32.952	-7.781	-49.335	1.00	26.90	C
ATOM	7059	CG	MET B	83	33.591	-9.122	-49.819	1.00	26.98	C
ATOM	7060	SD	MET B	83	35.030	-9.728	-48.865	1.00	26.96	S
ATOM	7061	CE	MET B	83	35.924	-8.193	-48.537	1.00	26.89	C
ATOM	7062	HN	MET B	83	31.053	-6.007	-49.162	1.00	26.95	H
ATOM	7063	HA	MET B	83	33.515	-6.248	-50.775	1.00	26.95	H
ATOM	7064	HB1	MET B	83	33.650	-7.295	-48.654	1.00	26.95	H
ATOM	7065	HB2	MET B	83	32.028	-8.013	-48.805	1.00	26.95	H
ATOM	7066	HG1	MET B	83	32.819	-9.891	-49.779	1.00	26.95	H
ATOM	7067	HG2	MET B	83	33.912	-8.983	-50.851	1.00	26.95	H
ATOM	7068	HE1	MET B	83	36.824	-8.412	-47.962	1.00	26.95	H
ATOM	7069	HE2	MET B	83	35.287	-7.515	-47.969	1.00	26.95	H
ATOM	7070	HE3	MET B	83	36.201	-7.725	-49.481	1.00	26.95	H
ATOM	7071	N	VAL B	84	32.770	-7.594	-52.766	1.00	27.08	N
ATOM	7072	CA	VAL B	84	32.257	-8.270	-53.948	1.00	27.16	C
ATOM	7073	C	VAL B	84	33.186	-9.411	-54.253	1.00	27.27	C
ATOM	7074	O	VAL B	84	34.019	-9.779	-53.403	1.00	27.26	O
ATOM	7075	CB	VAL B	84	32.115	-7.330	-55.181	1.00	27.18	C
ATOM	7076	CG1	VAL B	84	31.337	-6.097	-54.810	1.00	27.09	C
ATOM	7077	CG2	VAL B	84	33.465	-6.958	-55.788	1.00	27.23	C
ATOM	7078	HN	VAL B	84	33.717	-7.097	-52.808	1.00	27.18	H
ATOM	7079	HA	VAL B	84	31.275	-8.679	-53.712	1.00	27.18	H
ATOM	7080	HB	VAL B	84	31.546	-7.865	-55.941	1.00	27.18	H
ATOM	7081	1HG1	VAL B	84	31.245	-5.449	-55.681	1.00	27.18	H
ATOM	7082	2HG1	VAL B	84	31.858	-5.564	-54.014	1.00	27.18	H
ATOM	7083	3HG1	VAL B	84	30.344	-6.384	-54.465	1.00	27.18	H

ATOM	7084	1HG2 VAL B	84	33.310	-6.302	-56.644	1.00	27.18	H
ATOM	7085	2HG2 VAL B	84	33.980	-7.862	-56.112	1.00	27.18	H
ATOM	7086	3HG2 VAL B	84	34.070	-6.444	-55.041	1.00	27.18	H
ATOM	7087	N ASP B	85	32.988	-10.008	-55.431	1.00	52.19	N
ATOM	7088	CA ASP B	85	34.028	-10.797	-56.071	1.00	52.32	C
ATOM	7089	C ASP B	85	34.680	-9.954	-57.168	1.00	52.35	C
ATOM	7090	O ASP B	85	34.316	-8.801	-57.353	1.00	52.27	O
ATOM	7091	CB ASP B	85	33.451	-12.098	-56.627	1.00	52.47	C
ATOM	7092	CG ASP B	85	32.658	-11.896	-57.915	1.00	52.51	C
ATOM	7093	OD1 ASP B	85	33.290	-11.658	-58.979	1.00	52.58	O
ATOM	7094	OD2 ASP B	85	31.406	-12.004	-57.860	1.00	52.49	O
ATOM	7095	HN ASP B	85	32.040	-9.903	-55.916	1.00	52.40	H
ATOM	7096	HA ASP B	85	34.785	-11.043	-55.326	1.00	52.40	H
ATOM	7097	HB1 ASP B	85	34.273	-12.784	-56.830	1.00	52.40	H
ATOM	7098	HB2 ASP B	85	32.790	-12.533	-55.877	1.00	52.40	H
ATOM	7099	N LYS B	86	35.640	-10.542	-57.882	1.00	27.68	N
ATOM	7100	CA LYS B	86	36.378	-9.834	-58.933	1.00	27.74	C
ATOM	7101	C LYS B	86	35.485	-9.360	-60.051	1.00	27.73	C
ATOM	7102	O LYS B	86	35.465	-8.165	-60.350	1.00	27.66	O
ATOM	7103	CB LYS B	86	37.456	-10.717	-59.588	1.00	27.93	C
ATOM	7104	CG LYS B	86	38.352	-9.929	-60.585	1.00	28.01	C
ATOM	7105	CD LYS B	86	39.155	-10.818	-61.525	1.00	28.23	C
ATOM	7106	CE LYS B	86	40.481	-10.173	-61.960	1.00	28.32	C
ATOM	7107	NZ LYS B	86	40.395	-8.913	-62.776	1.00	28.28	N1+
ATOM	7108	HN LYS B	86	35.880	-11.565	-57.681	1.00	27.95	H
ATOM	7109	HA LYS B	86	36.865	-8.966	-58.488	1.00	27.95	H
ATOM	7110	HB1 LYS B	86	38.089	-11.133	-58.804	1.00	27.95	H



ATOM	7111	HB2 LYS B	86	36.964	-11.527	-60.127	1.00	27.95	H
ATOM	7112	HG1 LYS B	86	37.712	-9.284	-61.186	1.00	27.95	H
ATOM	7113	HG2 LYS B	86	39.049	-9.318	-60.011	1.00	27.95	H
ATOM	7114	HD1 LYS B	86	39.374	-11.756	-61.016	1.00	27.95	H
ATOM	7115	HD2 LYS B	86	38.556	-11.017	-62.414	1.00	27.95	H
ATOM	7116	HE1 LYS B	86	41.045	-9.941	-61.057	1.00	27.95	H
ATOM	7117	HE2 LYS B	86	41.026	-10.910	-62.550	1.00	27.95	H
ATOM	7118	HZ1 LYS B	86	41.381	-8.571	-63.010	1.00	27.95	H
ATOM	7119	HZ2 LYS B	86	39.880	-8.160	-62.217	1.00	27.95	H
ATOM	7120	HZ3 LYS B	86	39.862	-9.110	-63.683	1.00	27.95	H
ATOM	7121	N ASP B	87	34.787	-10.307	-60.688	1.00	36.30	N
ATOM	7122	CA ASP B	87	33.968	-10.015	-61.865	1.00	36.31	C
ATOM	7123	C ASP B	87	33.058	-8.858	-61.565	1.00	36.13	C
ATOM	7124	O ASP B	87	32.911	-7.951	-62.389	1.00	36.09	O
ATOM	7125	CB ASP B	87	33.091	-11.186	-62.225	1.00	36.41	C
ATOM	7126	CG ASP B	87	33.876	-12.389	-62.560	1.00	36.61	C
ATOM	7127	OD1 ASP B	87	34.908	-12.258	-63.253	1.00	36.71	O
ATOM	7128	OD2 ASP B	87	33.465	-13.476	-62.110	1.00	36.70	O
ATOM	7129	HN ASP B	87	34.829	-11.312	-60.324	1.00	36.41	H
ATOM	7130	HA ASP B	87	34.612	-9.766	-62.708	1.00	36.41	H
ATOM	7131	HB1 ASP B	87	32.445	-11.414	-61.377	1.00	36.41	H
ATOM	7132	HB2 ASP B	87	32.480	-10.915	-63.086	1.00	36.41	H
ATOM	7133	N GLN B	88	32.449	-8.912	-60.376	1.00	44.70	N
ATOM	7134	CA GLN B	88	31.612	-7.824	-59.847	1.00	44.56	C
ATOM	7135	C GLN B	88	32.400	-6.546	-59.687	1.00	44.50	C
ATOM	7136	O GLN B	88	31.902	-5.474	-59.978	1.00	44.43	O
ATOM	7137	CB GLN B	88	30.946	-8.209	-58.513	1.00	44.50	C

ATOM	7138	CG	GLN B	88	29.632	-9.001	-58.695	1.00	44.55	C
ATOM	7139	CD	GLN B	88	29.005	-9.526	-57.402	1.00	44.52	C
ATOM	7140	OE1	GLN B	88	29.701	-9.920	-56.442	1.00	44.52	O
ATOM	7141	NE2	GLN B	88	27.673	-9.570	-57.389	1.00	44.52	N
ATOM	7142	HN	GLN B	88	32.577	-9.791	-59.779	1.00	44.53	H
ATOM	7143	HA	GLN B	88	30.819	-7.635	-60.570	1.00	44.53	H
ATOM	7144	HB1	GLN B	88	31.643	-8.822	-57.942	1.00	44.53	H
ATOM	7145	HB2	GLN B	88	30.726	-7.296	-57.959	1.00	44.53	H
ATOM	7146	HG1	GLN B	88	28.908	-8.346	-59.179	1.00	44.53	H
ATOM	7147	HG2	GLN B	88	29.839	-9.855	-59.340	1.00	44.53	H
ATOM	7148	1HE2	GLN B	88	27.119	-9.250	-58.247	1.00	44.53	H
ATOM	7149	2HE2	GLN B	88	27.158	-9.925	-56.521	1.00	44.53	H
ATOM	7150	N	ALA B	89	33.630	-6.649	-59.212	1.00	48.80	N
ATOM	7151	CA	ALA B	89	34.520	-5.487	-59.196	1.00	48.79	C
ATOM	7152	C	ALA B	89	34.700	-4.925	-60.611	1.00	48.85	C
ATOM	7153	O	ALA B	89	34.418	-3.747	-60.867	1.00	48.80	O
ATOM	7154	CB	ALA B	89	35.879	-5.857	-58.590	1.00	48.85	C
ATOM	7155	HN	ALA B	89	33.977	-7.589	-58.837	1.00	48.82	H
ATOM	7156	HA	ALA B	89	34.066	-4.715	-58.575	1.00	48.82	H
ATOM	7157	HB1	ALA B	89	36.527	-4.980	-58.587	1.00	48.82	H
ATOM	7158	HB2	ALA B	89	36.340	-6.646	-59.184	1.00	48.82	H
ATOM	7159	HB3	ALA B	89	35.738	-6.208	-57.568	1.00	48.82	H
ATOM	7160	N	ASP B	90	35.121	-5.807	-61.522	1.00	41.47	N
ATOM	7161	CA	ASP B	90	35.574	-5.442	-62.865	1.00	41.55	C
ATOM	7162	C	ASP B	90	34.439	-5.134	-63.805	1.00	41.49	C
ATOM	7163	O	ASP B	90	34.679	-4.632	-64.893	1.00	41.53	O
ATOM	7164	CB	ASP B	90	36.451	-6.561	-63.426	1.00	41.71	C

ATOM	7165	CG	ASP B	90	37.599	-6.952	-62.458	1.00	41.77	C
ATOM	7166	OD1	ASP B	90	37.807	-6.248	-61.446	1.00	41.68	O
ATOM	7167	OD2	ASP B	90	38.288	-7.968	-62.685	1.00	41.92	O
ATOM	7168	HN	ASP B	90	35.127	-6.843	-61.254	1.00	41.64	H
ATOM	7169	HA	ASP B	90	36.189	-4.546	-62.779	1.00	41.64	H
ATOM	7170	HB1	ASP B	90	35.829	-7.438	-63.604	1.00	41.64	H
ATOM	7171	HB2	ASP B	90	36.886	-6.226	-64.368	1.00	41.64	H
ATOM	7172	N	ARG B	91	33.212	-5.429	-63.372	1.00	48.08	N
ATOM	7173	CA	ARG B	91	31.973	-5.028	-64.068	1.00	48.01	C
ATOM	7174	C	ARG B	91	31.143	-3.907	-63.350	1.00	47.88	C
ATOM	7175	O	ARG B	91	30.234	-3.325	-63.962	1.00	47.82	O
ATOM	7176	CB	ARG B	91	31.126	-6.288	-64.322	1.00	48.06	C
ATOM	7177	CG	ARG B	91	31.786	-7.226	-65.344	1.00	48.21	C
ATOM	7178	CD	ARG B	91	31.404	-8.698	-65.210	1.00	48.33	C
ATOM	7179	NE	ARG B	91	32.220	-9.550	-66.097	1.00	48.51	N
ATOM	7180	CZ	ARG B	91	32.275	-10.890	-66.077	1.00	48.67	C
ATOM	7181	NH1	ARG B	91	31.566	-11.590	-65.205	1.00	48.68	N
ATOM	7182	NH2	ARG B	91	33.058	-11.546	-66.937	1.00	48.86	N
ATOM	7183	HN	ARG B	91	33.120	-5.990	-62.466	1.00	48.28	H
ATOM	7184	HA	ARG B	91	32.265	-4.636	-65.042	1.00	48.28	H
ATOM	7185	HB1	ARG B	91	31.001	-6.824	-63.381	1.00	48.28	H
ATOM	7186	HB2	ARG B	91	30.150	-5.986	-64.701	1.00	48.28	H
ATOM	7187	HG1	ARG B	91	31.501	-6.892	-66.342	1.00	48.28	H
ATOM	7188	HG2	ARG B	91	32.867	-7.145	-65.228	1.00	48.28	H
ATOM	7189	HD1	ARG B	91	31.558	-9.011	-64.177	1.00	48.28	H
ATOM	7190	HD2	ARG B	91	30.353	-8.817	-65.473	1.00	48.28	H
ATOM	7191	HE	ARG B	91	32.825	-9.051	-66.825	1.00	48.28	H

ATOM	7192	1HH1 ARG B 91	30.936	-11.087	-64.501	1.00	48.28	H
ATOM	7193	2HH1 ARG B 91	31.623	-12.658	-65.204	1.00	48.28	H
ATOM	7194	1HH2 ARG B 91	33.646	-11.003	-67.647	1.00	48.28	H
ATOM	7195	2HH2 ARG B 91	33.098	-12.615	-66.916	1.00	48.28	H
ATOM	7196	N CYS B 92	31.516	-3.589	-62.093	1.00	43.45	N
ATOM	7197	CA CYS B 92	30.774	-2.703	-61.136	1.00	43.36	C
ATOM	7198	C CYS B 92	29.274	-2.990	-60.964	1.00	43.31	C
ATOM	7199	O CYS B 92	28.410	-2.149	-61.224	1.00	43.26	O
ATOM	7200	CB CYS B 92	31.041	-1.233	-61.426	1.00	43.35	C
ATOM	7201	SG CYS B 92	32.793	-0.866	-61.202	1.00	43.44	S
ATOM	7202	HN CYS B 92	32.435	-4.012	-61.743	1.00	43.36	H
ATOM	7203	HA CYS B 92	31.220	-2.892	-60.160	1.00	43.36	H
ATOM	7204	HB1 CYS B 92	30.755	-1.011	-62.454	1.00	43.36	H
ATOM	7205	HB2 CYS B 92	30.454	-0.618	-60.744	1.00	43.36	H
ATOM	7206	N THR B 93	29.027	-4.205	-60.477	1.00	27.78	N
ATOM	7207	CA THR B 93	27.717	-4.822	-60.331	1.00	27.78	C
ATOM	7208	C THR B 93	27.638	-5.485	-58.930	1.00	27.78	C
ATOM	7209	O THR B 93	28.583	-6.129	-58.463	1.00	27.82	O
ATOM	7210	CB THR B 93	27.469	-5.842	-61.525	1.00	27.86	C
ATOM	7211	OG1 THR B 93	28.150	-7.096	-61.336	1.00	27.96	O
ATOM	7212	CG2 THR B 93	27.974	-5.244	-62.821	1.00	27.86	C
ATOM	7213	HN THR B 93	29.872	-4.782	-60.163	1.00	27.83	H
ATOM	7214	HA THR B 93	26.960	-4.039	-60.384	1.00	27.83	H
ATOM	7215	HB THR B 93	26.399	-6.030	-61.614	1.00	27.83	H
ATOM	7216	HG1 THR B 93	29.184	-6.927	-61.268	1.00	27.83	H
ATOM	7217	1HG2 THR B 93	27.802	-5.946	-63.637	1.00	27.83	H
ATOM	7218	2HG2 THR B 93	29.041	-5.040	-62.736	1.00	27.83	H

ATOM	7219	3HG2 THR B 93	27.442	-4.314	-63.024	1.00	27.83	H
ATOM	7220	N ILE B 94	26.518	-5.291	-58.249	1.00	27.11	N
ATOM	7221	CA ILE B 94	26.222	-5.975	-56.974	1.00	27.12	C
ATOM	7222	C ILE B 94	24.857	-6.686	-57.088	1.00	27.17	C
ATOM	7223	O ILE B 94	23.842	-6.075	-57.415	1.00	27.15	O
ATOM	7224	CB ILE B 94	26.177	-4.993	-55.799	1.00	27.05	C
ATOM	7225	CG1 ILE B 94	25.569	-3.656	-56.275	1.00	27.01	C
ATOM	7226	CG2 ILE B 94	27.559	-4.836	-55.219	1.00	27.02	C
ATOM	7227	CD1 ILE B 94	24.892	-2.838	-55.250	1.00	26.99	C
ATOM	7228	HN ILE B 94	25.795	-4.607	-58.641	1.00	27.08	H
ATOM	7229	HA ILE B 94	26.995	-6.720	-56.784	1.00	27.08	H
ATOM	7230	HB ILE B 94	25.528	-5.410	-55.029	1.00	27.08	H
ATOM	7231	1HG1 ILE B 94	26.376	-3.057	-56.697	1.00	27.08	H
ATOM	7232	2HG1 ILE B 94	24.840	-3.882	-57.053	1.00	27.08	H
ATOM	7233	1HG2 ILE B 94	27.526	-4.137	-54.383	1.00	27.08	H
ATOM	7234	2HG2 ILE B 94	28.234	-4.454	-55.985	1.00	27.08	H
ATOM	7235	3HG2 ILE B 94	27.919	-5.804	-54.869	1.00	27.08	H
ATOM	7236	1HD1 ILE B 94	24.508	-1.926	-55.707	1.00	27.08	H
ATOM	7237	2HD1 ILE B 94	25.602	-2.579	-54.464	1.00	27.08	H
ATOM	7238	3HD1 ILE B 94	24.066	-3.404	-54.820	1.00	27.08	H
ATOM	7239	N LYS B 95	24.809	-7.977	-56.814	1.00	27.26	N
ATOM	7240	CA LYS B 95	23.609	-8.713	-57.135	1.00	27.35	C
ATOM	7241	C LYS B 95	22.760	-8.879	-55.916	1.00	27.36	C
ATOM	7242	O LYS B 95	23.268	-8.822	-54.795	1.00	27.32	O
ATOM	7243	CB LYS B 95	23.968	-10.019	-57.773	1.00	27.48	C
ATOM	7244	CG LYS B 95	24.696	-9.785	-59.115	1.00	27.48	C
ATOM	7245	CD LYS B 95	23.754	-9.478	-60.311	1.00	27.49	C

ATOM	7246	CE	LYS	B	95	24.484	-8.685	-61.374	1.00	27.43	C
ATOM	7247	NZ	LYS	B	95	25.981	-8.812	-61.272	1.00	27.44	N1+
ATOM	7248	HN	LYS	B	95	25.645	-8.469	-56.362	1.00	27.40	H
ATOM	7249	HA	LYS	B	95	23.042	-8.130	-57.861	1.00	27.40	H
ATOM	7250	HB1	LYS	B	95	24.622	-10.577	-57.103	1.00	27.40	H
ATOM	7251	HB2	LYS	B	95	23.058	-10.591	-57.954	1.00	27.40	H
ATOM	7252	HG1	LYS	B	95	25.376	-8.942	-58.991	1.00	27.40	H
ATOM	7253	HG2	LYS	B	95	25.268	-10.682	-59.353	1.00	27.40	H
ATOM	7254	HD1	LYS	B	95	23.404	-10.416	-60.741	1.00	27.40	H
ATOM	7255	HD2	LYS	B	95	22.901	-8.900	-59.956	1.00	27.40	H
ATOM	7256	HE1	LYS	B	95	24.170	-9.045	-62.354	1.00	27.40	H
ATOM	7257	HE2	LYS	B	95	24.216	-7.634	-61.270	1.00	27.40	H
ATOM	7258	HZ1	LYS	B	95	26.442	-8.233	-62.045	1.00	27.40	H
ATOM	7259	HZ2	LYS	B	95	26.261	-9.839	-61.381	1.00	27.40	H
ATOM	7260	HZ3	LYS	B	95	26.306	-8.454	-60.317	1.00	27.40	H
ATOM	7261	N	LYS	B	96	21.457	-9.033	-56.139	1.00	27.43	N
ATOM	7262	CA	LYS	B	96	20.456	-8.973	-55.059	1.00	27.46	C
ATOM	7263	C	LYS	B	96	20.928	-9.637	-53.746	1.00	27.47	C
ATOM	7264	O	LYS	B	96	20.911	-8.992	-52.671	1.00	27.40	O
ATOM	7265	CB	LYS	B	96	19.104	-9.541	-55.524	1.00	27.59	C
ATOM	7266	CG	LYS	B	96	19.138	-10.998	-56.027	1.00	27.75	C
ATOM	7267	CD	LYS	B	96	18.604	-12.020	-54.992	1.00	27.88	C
ATOM	7268	CE	LYS	B	96	19.008	-13.448	-55.356	1.00	28.05	C
ATOM	7269	NZ	LYS	B	96	20.498	-13.642	-55.323	1.00	27.98	N1+
ATOM	7270	HN	LYS	B	96	21.123	-9.207	-57.141	1.00	27.67	H
ATOM	7271	HA	LYS	B	96	20.295	-7.918	-54.838	1.00	27.67	H
ATOM	7272	HB1	LYS	B	96	18.411	-9.491	-54.684	1.00	27.67	H

ATOM	7273	HB2 LYS B 96	18.737	-8.913	-56.336	1.00	27.67	H
ATOM	7274	HG1 LYS B 96	18.527	-11.067	-56.927	1.00	27.67	H
ATOM	7275	HG2 LYS B 96	20.169	-11.256	-56.267	1.00	27.67	H
ATOM	7276	HD1 LYS B 96	19.011	-11.776	-54.011	1.00	27.67	H
ATOM	7277	HD2 LYS B 96	17.516	-11.957	-54.961	1.00	27.67	H
ATOM	7278	HE1 LYS B 96	18.549	-14.135	-54.645	1.00	27.67	H
ATOM	7279	HE2 LYS B 96	18.647	-13.670	-56.360	1.00	27.67	H
ATOM	7280	HZ1 LYS B 96	20.732	-14.653	-55.584	1.00	27.67	H
ATOM	7281	HZ2 LYS B 96	20.864	-13.434	-54.339	1.00	27.67	H
ATOM	7282	HZ3 LYS B 96	20.960	-12.977	-56.023	1.00	27.67	H
ATOM	7283	N GLU B 97	21.397	-10.889	-53.848	1.00	44.12	N
ATOM	7284	CA GLU B 97	21.974	-11.627	-52.705	1.00	44.13	C
ATOM	7285	C GLU B 97	22.855	-10.710	-51.857	1.00	43.98	C
ATOM	7286	O GLU B 97	22.878	-10.808	-50.627	1.00	43.95	O
ATOM	7287	CB GLU B 97	22.837	-12.802	-53.214	1.00	44.23	C
ATOM	7288	CG GLU B 97	23.311	-13.798	-52.137	1.00	44.28	C
ATOM	7289	CD GLU B 97	24.674	-14.427	-52.459	1.00	44.30	C
ATOM	7290	OE1 GLU B 97	25.306	-14.970	-51.520	1.00	44.29	O
ATOM	7291	OE2 GLU B 97	25.120	-14.375	-53.631	1.00	44.34	O
ATOM	7292	HN GLU B 97	21.351	-11.376	-54.800	1.00	44.18	H
ATOM	7293	HA GLU B 97	21.166	-12.018	-52.087	1.00	44.18	H
ATOM	7294	HB1 GLU B 97	22.250	-13.356	-53.947	1.00	44.18	H
ATOM	7295	HB2 GLU B 97	23.721	-12.384	-53.696	1.00	44.18	H
ATOM	7296	HG1 GLU B 97	23.388	-13.271	-51.186	1.00	44.18	H
ATOM	7297	HG2 GLU B 97	22.572	-14.595	-52.052	1.00	44.18	H
ATOM	7298	N ASN B 98	23.570	-9.814	-52.530	1.00	27.33	N
ATOM	7299	CA ASN B 98	24.638	-9.116	-51.905	1.00	27.21	C

ATOM	7300	C	ASN B 98	24.078	-8.285	-50.772	1.00	27.15	C
ATOM	7301	O	ASN B 98	23.067	-7.588	-50.943	1.00	27.17	O
ATOM	7302	CB	ASN B 98	25.443	-8.322	-52.936	1.00	27.17	C
ATOM	7303	CG	ASN B 98	26.585	-9.150	-53.560	1.00	27.21	C
ATOM	7304	OD1	ASN B 98	27.100	-8.818	-54.623	1.00	27.22	O
ATOM	7305	ND2	ASN B 98	26.998	-10.212	-52.873	1.00	27.26	N
ATOM	7306	HN	ASN B 98	23.338	-9.616	-53.556	1.00	27.21	H
ATOM	7307	HA	ASN B 98	25.305	-9.859	-51.469	1.00	27.21	H
ATOM	7308	HB1	ASN B 98	24.771	-8.000	-53.731	1.00	27.22	H
ATOM	7309	HB2	ASN B 98	25.873	-7.448	-52.446	1.00	27.22	H
ATOM	7310	1HD2	ASN B 98	26.541	-10.454	-51.936	1.00	27.21	H
ATOM	7311	2HD2	ASN B 98	27.787	-10.824	-53.257	1.00	27.21	H
ATOM	7312	N	THR B 99	24.702	-8.468	-49.599	1.00	29.42	N
ATOM	7313	CA	THR B 99	24.393	-7.738	-48.378	1.00	29.37	C
ATOM	7314	C	THR B 99	25.587	-6.801	-48.164	1.00	29.27	C
ATOM	7315	O	THR B 99	26.727	-7.221	-48.386	1.00	29.25	O
ATOM	7316	CB	THR B 99	24.188	-8.698	-47.187	1.00	29.39	C
ATOM	7317	OG1	THR B 99	23.068	-9.558	-47.452	1.00	29.51	O
ATOM	7318	CG2	THR B 99	23.932	-7.927	-45.885	1.00	29.34	C
ATOM	7319	HN	THR B 99	25.480	-9.201	-49.558	1.00	29.36	H
ATOM	7320	HA	THR B 99	23.490	-7.147	-48.527	1.00	29.36	H
ATOM	7321	HB	THR B 99	25.083	-9.309	-47.067	1.00	29.36	H
ATOM	7322	HG1	THR B 99	22.204	-8.977	-47.585	1.00	29.36	H
ATOM	7323	1HG2	THR B 99	23.792	-8.632	-45.066	1.00	29.36	H
ATOM	7324	2HG2	THR B 99	23.036	-7.315	-45.994	1.00	29.36	H
ATOM	7325	3HG2	THR B 99	24.786	-7.285	-45.669	1.00	29.36	H
ATOM	7326	N	PRO B 100	25.327	-5.517	-47.800	1.00	44.48	N



ATOM	7327	CA	PRO B 100	26.378	-4.505	-47.635	1.00	44.42	C
ATOM	7328	C	PRO B 100	27.268	-4.634	-46.384	1.00	44.36	C
ATOM	7329	O	PRO B 100	26.889	-5.280	-45.379	1.00	44.35	O
ATOM	7330	CB	PRO B 100	25.585	-3.182	-47.546	1.00	44.45	C
ATOM	7331	CG	PRO B 100	24.201	-3.496	-47.904	1.00	44.51	C
ATOM	7332	CD	PRO B 100	24.000	-4.921	-47.565	1.00	44.53	C
ATOM	7333	HA	PRO B 100	27.007	-4.490	-48.525	1.00	44.44	H
ATOM	7334	HB1	PRO B 100	25.630	-2.785	-46.532	1.00	44.44	H
ATOM	7335	HB2	PRO B 100	25.996	-2.450	-48.242	1.00	44.44	H
ATOM	7336	HG1	PRO B 100	23.513	-2.872	-47.334	1.00	44.44	H
ATOM	7337	HG2	PRO B 100	24.041	-3.335	-48.970	1.00	44.44	H
ATOM	7338	HD1	PRO B 100	23.700	-5.036	-46.523	1.00	44.44	H
ATOM	7339	HD2	PRO B 100	23.249	-5.374	-48.212	1.00	44.44	H
ATOM	7340	N	LEU B 101	28.444	-4.015	-46.449	1.00	37.24	N
ATOM	7341	CA	LEU B 101	29.297	-3.911	-45.287	1.00	37.19	C
ATOM	7342	C	LEU B 101	29.244	-2.485	-44.733	1.00	37.21	C
ATOM	7343	O	LEU B 101	29.488	-2.277	-43.521	1.00	37.18	O
ATOM	7344	CB	LEU B 101	30.722	-4.352	-45.614	1.00	37.16	C
ATOM	7345	CG	LEU B 101	31.497	-3.565	-46.665	1.00	37.20	C
ATOM	7346	CD1	LEU B 101	32.085	-2.277	-46.100	1.00	37.22	C
ATOM	7347	CD2	LEU B 101	32.595	-4.453	-47.287	1.00	37.21	C
ATOM	7348	HN	LEU B 101	28.763	-3.587	-47.376	1.00	37.20	H
ATOM	7349	HA	LEU B 101	28.905	-4.582	-44.523	1.00	37.20	H
ATOM	7350	HB1	LEU B 101	31.295	-4.305	-44.688	1.00	37.20	H
ATOM	7351	HB2	LEU B 101	30.670	-5.385	-45.958	1.00	37.20	H
ATOM	7352	HG	LEU B 101	30.800	-3.293	-47.458	1.00	37.20	H
ATOM	7353	1HD1	LEU B 101	32.628	-1.750	-46.885	1.00	37.20	H

ATOM	7354	2HD1 LEU B 101	32.767	-2.516	-45.284	1.00	37.20	H
ATOM	7355	3HD1 LEU B 101	31.281	-1.643	-45.727	1.00	37.20	H
ATOM	7356	1HD2 LEU B 101	33.143	-3.882	-48.037	1.00	37.20	H
ATOM	7357	2HD2 LEU B 101	32.136	-5.323	-47.757	1.00	37.20	H
ATOM	7358	3HD2 LEU B 101	33.282	-4.782	-46.507	1.00	37.20	H
ATOM	7359	N LEU B 102	28.897	-1.510	-45.574	1.00	26.82	N
ATOM	7360	CA LEU B 102	28.701	-0.169	-45.065	1.00	26.88	C
ATOM	7361	C LEU B 102	27.486	0.515	-45.675	1.00	26.95	C
ATOM	7362	O LEU B 102	27.372	0.625	-46.879	1.00	26.97	O
ATOM	7363	CB LEU B 102	29.983	0.650	-45.203	1.00	26.91	C
ATOM	7364	CG LEU B 102	30.919	0.589	-43.973	1.00	26.87	C
ATOM	7365	CD1 LEU B 102	32.101	1.552	-44.059	1.00	26.94	C
ATOM	7366	CD2 LEU B 102	30.162	0.893	-42.694	1.00	26.88	C
ATOM	7367	HN LEU B 102	28.765	-1.717	-46.615	1.00	26.90	H
ATOM	7368	HA LEU B 102	28.504	-0.265	-43.997	1.00	26.90	H
ATOM	7369	HB1 LEU B 102	30.533	0.278	-46.068	1.00	26.90	H
ATOM	7370	HB2 LEU B 102	29.706	1.691	-45.368	1.00	26.90	H
ATOM	7371	HG LEU B 102	31.314	-0.424	-43.899	1.00	26.90	H
ATOM	7372	1HD1 LEU B 102	32.715	1.456	-43.163	1.00	26.90	H
ATOM	7373	2HD1 LEU B 102	31.732	2.575	-44.138	1.00	26.90	H
ATOM	7374	3HD1 LEU B 102	32.701	1.314	-44.937	1.00	26.90	H
ATOM	7375	1HD2 LEU B 102	30.845	0.843	-41.846	1.00	26.90	H
ATOM	7376	2HD2 LEU B 102	29.364	0.162	-42.561	1.00	26.90	H
ATOM	7377	3HD2 LEU B 102	29.732	1.893	-42.755	1.00	26.90	H
ATOM	7378	N ASN B 103	26.572	0.935	-44.802	1.00	31.56	N
ATOM	7379	CA ASN B 103	25.335	1.645	-45.172	1.00	31.65	C
ATOM	7380	C ASN B 103	25.491	3.107	-44.751	1.00	31.75	C

ATOM	7381	O	ASN B 103	25.092	3.485	-43.623	1.00	31.82	O
ATOM	7382	CB	ASN B 103	24.125	0.999	-44.446	1.00	31.67	C
ATOM	7383	CG	ASN B 103	22.739	1.443	-44.987	1.00	31.76	C
ATOM	7384	OD1	ASN B 103	22.698	2.326	-45.852	1.00	31.81	O
ATOM	7385	ND2	ASN B 103	21.630	0.865	-44.487	1.00	31.81	N
ATOM	7386	HN	ASN B 103	26.748	0.744	-43.764	1.00	31.73	H
ATOM	7387	HA	ASN B 103	25.188	1.588	-46.251	1.00	31.73	H
ATOM	7388	HB1	ASN B 103	24.202	-0.083	-44.553	1.00	31.73	H
ATOM	7389	HB2	ASN B 103	24.180	1.265	-43.390	1.00	31.73	H
ATOM	7390	1HD2	ASN B 103	21.713	0.113	-43.730	1.00	31.73	H
ATOM	7391	2HD2	ASN B 103	20.666	1.157	-44.847	1.00	31.73	H
ATOM	7392	N	CYS B 104	26.070	3.920	-45.645	1.00	27.24	N
ATOM	7393	CA	CYS B 104	26.423	5.287	-45.312	1.00	27.37	C
ATOM	7394	C	CYS B 104	25.285	6.213	-45.682	1.00	27.49	C
ATOM	7395	O	CYS B 104	25.183	6.712	-46.788	1.00	27.52	O
ATOM	7396	CB	CYS B 104	27.785	5.648	-45.898	1.00	27.37	C
ATOM	7397	SG	CYS B 104	29.073	4.868	-44.831	1.00	27.28	S
ATOM	7398	HN	CYS B 104	26.277	3.552	-46.628	1.00	27.38	H
ATOM	7399	HA	CYS B 104	26.525	5.331	-44.228	1.00	27.38	H
ATOM	7400	HB1	CYS B 104	27.865	5.267	-46.916	1.00	27.38	H
ATOM	7401	HB2	CYS B 104	27.912	6.731	-45.904	1.00	27.38	H
ATOM	7402	N	ALA B 105	24.413	6.383	-44.697	1.00	27.56	N
ATOM	7403	CA	ALA B 105	23.171	7.088	-44.833	1.00	27.69	C
ATOM	7404	C	ALA B 105	22.866	7.758	-43.513	1.00	27.84	C
ATOM	7405	O	ALA B 105	21.708	7.772	-43.085	1.00	27.92	O
ATOM	7406	CB	ALA B 105	22.076	6.114	-45.182	1.00	27.62	C
ATOM	7407	HN	ALA B 105	24.651	5.968	-43.740	1.00	27.73	H

ATOM	7408	HA	ALA B 105	23.258	7.841	-45.617	1.00	27.73	H
ATOM	7409	HB1	ALA B 105	21.132	6.649	-45.285	1.00	27.73	H
ATOM	7410	HB2	ALA B 105	21.986	5.369	-44.391	1.00	27.73	H
ATOM	7411	HB3	ALA B 105	22.317	5.618	-46.122	1.00	27.73	H
ATOM	7412	N	LYS B 106	23.896	8.309	-42.884	1.00	27.89	N
ATOM	7413	CA	LYS B 106	23.766	9.126	-41.675	1.00	28.06	C
ATOM	7414	C	LYS B 106	24.534	10.456	-41.733	1.00	28.23	C
ATOM	7415	O	LYS B 106	25.645	10.582	-41.307	1.00	28.22	O
ATOM	7416	CB	LYS B 106	24.095	8.321	-40.429	1.00	27.96	C
ATOM	7417	CG	LYS B 106	23.065	7.303	-40.146	1.00	27.89	C
ATOM	7418	CD	LYS B 106	23.111	6.860	-38.743	1.00	27.87	C
ATOM	7419	CE	LYS B 106	22.369	5.555	-38.534	1.00	27.76	C
ATOM	7420	NZ	LYS B 106	22.947	4.732	-37.446	1.00	27.64	N1+
ATOM	7421	HN	LYS B 106	24.876	8.148	-43.282	1.00	27.95	H
ATOM	7422	HA	LYS B 106	22.711	9.388	-41.597	1.00	27.95	H
ATOM	7423	HB1	LYS B 106	25.053	7.822	-40.574	1.00	27.95	H
ATOM	7424	HB2	LYS B 106	24.163	8.999	-39.579	1.00	27.95	H
ATOM	7425	HG1	LYS B 106	22.082	7.728	-40.350	1.00	27.95	H
ATOM	7426	HG2	LYS B 106	23.231	6.442	-40.794	1.00	27.95	H
ATOM	7427	HD1	LYS B 106	24.152	6.723	-38.452	1.00	27.95	H
ATOM	7428	HD2	LYS B 106	22.656	7.627	-38.117	1.00	27.95	H
ATOM	7429	HE1	LYS B 106	21.332	5.780	-38.286	1.00	27.95	H
ATOM	7430	HE2	LYS B 106	22.405	4.982	-39.460	1.00	27.95	H
ATOM	7431	HZ1	LYS B 106	22.385	3.827	-37.345	1.00	27.95	H
ATOM	7432	HZ2	LYS B 106	22.910	5.279	-36.527	1.00	27.95	H
ATOM	7433	HZ3	LYS B 106	23.964	4.495	-37.679	1.00	27.95	H
ATOM	7434	N	PRO B 107	23.912	11.458	-42.302	1.00	42.84	N

ATOM	7435	CA	PRO B 107	24.602	12.714	-42.499	1.00	43.03	C
ATOM	7436	C	PRO B 107	25.472	13.117	-41.326	1.00	43.14	C
ATOM	7437	O	PRO B 107	26.635	13.435	-41.539	1.00	43.16	O
ATOM	7438	CB	PRO B 107	23.450	13.707	-42.732	1.00	43.25	C
ATOM	7439	CG	PRO B 107	22.447	12.894	-43.479	1.00	43.09	C
ATOM	7440	CD	PRO B 107	22.539	11.509	-42.856	1.00	42.88	C
ATOM	7441	HA	PRO B 107	25.214	12.653	-43.399	1.00	43.06	H
ATOM	7442	HB1	PRO B 107	23.041	14.060	-41.785	1.00	43.06	H
ATOM	7443	HB2	PRO B 107	23.782	14.559	-43.325	1.00	43.06	H
ATOM	7444	HG1	PRO B 107	21.446	13.307	-43.354	1.00	43.06	H
ATOM	7445	HG2	PRO B 107	22.695	12.856	-44.540	1.00	43.06	H
ATOM	7446	HD1	PRO B 107	21.798	11.389	-42.066	1.00	43.06	H
ATOM	7447	HD2	PRO B 107	22.396	10.735	-43.610	1.00	43.06	H
ATOM	7448	N	ASP B 108	24.930	13.062	-40.110	1.00	56.47	N
ATOM	7449	CA	ASP B 108	25.598	13.682	-38.932	1.00	56.63	C
ATOM	7450	C	ASP B 108	26.256	12.670	-37.997	1.00	56.44	C
ATOM	7451	O	ASP B 108	26.455	12.945	-36.792	1.00	56.54	O
ATOM	7452	CB	ASP B 108	24.607	14.565	-38.145	1.00	56.90	C
ATOM	7453	CG	ASP B 108	23.379	13.805	-37.695	1.00	56.83	C
ATOM	7454	OD1	ASP B 108	23.545	12.621	-37.321	1.00	56.59	O
ATOM	7455	OD2	ASP B 108	22.263	14.388	-37.737	1.00	57.02	O
ATOM	7456	HN	ASP B 108	23.994	12.561	-39.977	1.00	56.68	H
ATOM	7457	HA	ASP B 108	26.385	14.334	-39.311	1.00	56.68	H
ATOM	7458	HB1	ASP B 108	25.115	14.960	-37.265	1.00	56.68	H
ATOM	7459	HB2	ASP B 108	24.292	15.390	-38.784	1.00	56.68	H
ATOM	7460	N	GLN B 109	26.587	11.510	-38.567	1.00	28.46	N
ATOM	7461	CA	GLN B 109	27.214	10.437	-37.820	1.00	28.26	C

ATOM	7462	C	GLN B 109	28.320	9.709	-38.630	1.00	28.07	C
ATOM	7463	O	GLN B 109	28.089	9.243	-39.753	1.00	27.97	O
ATOM	7464	CB	GLN B 109	26.129	9.478	-37.338	1.00	28.15	C
ATOM	7465	CG	GLN B 109	26.335	8.989	-35.918	1.00	28.09	C
ATOM	7466	CD	GLN B 109	25.492	7.768	-35.618	1.00	27.94	C
ATOM	7467	OE1	GLN B 109	26.009	6.645	-35.580	1.00	27.73	O
ATOM	7468	NE2	GLN B 109	24.181	7.972	-35.438	1.00	28.07	N
ATOM	7469	HN	GLN B 109	26.383	11.367	-39.608	1.00	28.08	H
ATOM	7470	HA	GLN B 109	27.683	10.876	-36.940	1.00	28.08	H
ATOM	7471	HB1	GLN B 109	25.169	9.991	-37.389	1.00	28.08	H
ATOM	7472	HB2	GLN B 109	26.115	8.613	-38.001	1.00	28.08	H
ATOM	7473	HG1	GLN B 109	27.386	8.735	-35.781	1.00	28.08	H
ATOM	7474	HG2	GLN B 109	26.061	9.786	-35.227	1.00	28.08	H
ATOM	7475	1HE2	GLN B 109	23.779	8.961	-35.509	1.00	28.08	H
ATOM	7476	2HE2	GLN B 109	23.536	7.146	-35.223	1.00	28.08	H
ATOM	7477	N	ASP B 110	29.524	9.659	-38.046	1.00	34.03	N
ATOM	7478	CA	ASP B 110	30.616	8.798	-38.521	1.00	33.85	C
ATOM	7479	C	ASP B 110	30.165	7.326	-38.601	1.00	33.61	C
ATOM	7480	O	ASP B 110	29.941	6.671	-37.566	1.00	33.52	O
ATOM	7481	CB	ASP B 110	31.813	8.855	-37.555	1.00	33.84	C
ATOM	7482	CG	ASP B 110	32.551	10.177	-37.581	1.00	34.08	C
ATOM	7483	OD1	ASP B 110	32.719	10.757	-38.668	1.00	34.18	O
ATOM	7484	OD2	ASP B 110	33.011	10.628	-36.517	1.00	34.18	O
ATOM	7485	HN	ASP B 110	29.700	10.277	-37.190	1.00	33.91	H
ATOM	7486	HA	ASP B 110	30.934	9.132	-39.509	1.00	33.91	H
ATOM	7487	HB1	ASP B 110	31.447	8.685	-36.543	1.00	33.91	H
ATOM	7488	HB2	ASP B 110	32.513	8.065	-37.827	1.00	33.91	H

ATOM	7489	N	ILE B 111	30.031	6.803	-39.819	1.00	27.53	N
ATOM	7490	CA	ILE B 111	29.692	5.394	-40.008	1.00	27.34	C
ATOM	7491	C	ILE B 111	30.946	4.673	-40.400	1.00	27.23	C
ATOM	7492	O	ILE B 111	31.517	4.953	-41.433	1.00	27.26	O
ATOM	7493	CB	ILE B 111	28.599	5.197	-41.064	1.00	27.34	C
ATOM	7494	CG1	ILE B 111	27.233	5.383	-40.394	1.00	27.42	C
ATOM	7495	CG2	ILE B 111	28.700	3.821	-41.704	1.00	27.18	C
ATOM	7496	CD1	ILE B 111	26.054	5.392	-41.348	1.00	27.46	C
ATOM	7497	HN	ILE B 111	30.174	7.427	-40.676	1.00	27.35	H
ATOM	7498	HA	ILE B 111	29.338	4.990	-39.060	1.00	27.35	H
ATOM	7499	HB	ILE B 111	28.717	5.955	-41.838	1.00	27.35	H
ATOM	7500	1HG1	ILE B 111	27.089	4.568	-39.685	1.00	27.35	H
ATOM	7501	2HG1	ILE B 111	27.244	6.333	-39.859	1.00	27.35	H
ATOM	7502	1HG2	ILE B 111	27.913	3.708	-42.449	1.00	27.35	H
ATOM	7503	2HG2	ILE B 111	28.587	3.054	-40.938	1.00	27.35	H
ATOM	7504	3HG2	ILE B 111	29.673	3.714	-42.184	1.00	27.35	H
ATOM	7505	1HD1	ILE B 111	25.131	5.529	-40.785	1.00	27.35	H
ATOM	7506	2HD1	ILE B 111	26.014	4.445	-41.886	1.00	27.35	H
ATOM	7507	3HD1	ILE B 111	26.169	6.209	-42.060	1.00	27.35	H
ATOM	7508	N	LYS B 112	31.350	3.739	-39.544	1.00	27.10	N
ATOM	7509	CA	LYS B 112	32.675	3.093	-39.596	1.00	27.00	C
ATOM	7510	C	LYS B 112	32.590	1.536	-39.515	1.00	26.83	C
ATOM	7511	O	LYS B 112	31.808	0.972	-38.714	1.00	26.77	O
ATOM	7512	CB	LYS B 112	33.566	3.648	-38.458	1.00	27.03	C
ATOM	7513	CG	LYS B 112	32.864	3.746	-37.080	1.00	27.03	C
ATOM	7514	CD	LYS B 112	33.839	4.056	-35.958	1.00	27.04	C
ATOM	7515	CE	LYS B 112	34.690	2.839	-35.564	1.00	26.85	C

ATOM	7516	NZ	LYS	B 112	33.987	1.903	-34.612	1.00	26.71	N1+
ATOM	7517	HN	LYS	B 112	30.674	3.438	-38.771	1.00	26.93	H
ATOM	7518	HA	LYS	B 112	33.140	3.356	-40.546	1.00	26.93	H
ATOM	7519	HB1	LYS	B 112	34.431	2.993	-38.353	1.00	26.93	H
ATOM	7520	HB2	LYS	B 112	33.898	4.647	-38.742	1.00	26.93	H
ATOM	7521	HG1	LYS	B 112	32.116	4.538	-37.123	1.00	26.93	H
ATOM	7522	HG2	LYS	B 112	32.375	2.795	-36.867	1.00	26.93	H
ATOM	7523	HD1	LYS	B 112	34.504	4.856	-36.284	1.00	26.93	H
ATOM	7524	HD2	LYS	B 112	33.274	4.385	-35.085	1.00	26.93	H
ATOM	7525	HE1	LYS	B 112	34.943	2.286	-36.469	1.00	26.93	H
ATOM	7526	HE2	LYS	B 112	35.603	3.195	-35.088	1.00	26.93	H
ATOM	7527	HZ1	LYS	B 112	34.631	1.081	-34.379	1.00	26.93	H
ATOM	7528	HZ2	LYS	B 112	33.091	1.536	-35.068	1.00	26.93	H
ATOM	7529	HZ3	LYS	B 112	33.739	2.428	-33.713	1.00	26.93	H
ATOM	7530	N	PHE	B 113	33.395	0.851	-40.334	1.00	26.78	N
ATOM	7531	CA	PHE	B 113	33.426	-0.613	-40.325	1.00	26.65	C
ATOM	7532	C	PHE	B 113	34.867	-1.117	-40.165	1.00	26.59	C
ATOM	7533	O	PHE	B 113	35.773	-0.642	-40.864	1.00	26.66	O
ATOM	7534	CB	PHE	B 113	32.774	-1.179	-41.592	1.00	26.66	C
ATOM	7535	CG	PHE	B 113	33.201	-2.580	-41.905	1.00	26.59	C
ATOM	7536	CD1	PHE	B 113	33.104	-3.580	-40.939	1.00	26.50	C
ATOM	7537	CD2	PHE	B 113	33.741	-2.899	-43.154	1.00	26.62	C
ATOM	7538	CE1	PHE	B 113	33.534	-4.886	-41.219	1.00	26.46	C
ATOM	7539	CE2	PHE	B 113	34.167	-4.205	-43.446	1.00	26.59	C
ATOM	7540	CZ	PHE	B 113	34.059	-5.198	-42.481	1.00	26.51	C
ATOM	7541	HN	PHE	B 113	34.030	1.384	-41.010	1.00	26.60	H
ATOM	7542	HA	PHE	B 113	32.850	-0.958	-39.466	1.00	26.60	H



ATOM	7543	HB1 PHE B 113	31.692	-1.169	-41.458	1.00	26.60	H
ATOM	7544	HB2 PHE B 113	33.042	-0.540	-42.433	1.00	26.60	H
ATOM	7545	HD1 PHE B 113	32.691	-3.346	-39.958	1.00	26.60	H
ATOM	7546	HD2 PHE B 113	33.833	-2.122	-43.913	1.00	26.60	H
ATOM	7547	HE1 PHE B 113	33.460	-5.659	-40.454	1.00	26.60	H
ATOM	7548	HE2 PHE B 113	34.581	-4.439	-44.427	1.00	26.60	H
ATOM	7549	HZ PHE B 113	34.381	-6.215	-42.704	1.00	26.60	H
ATOM	7550	N THR B 114	35.068	-2.068	-39.242	1.00	26.48	N
ATOM	7551	CA THR B 114	36.429	-2.605	-38.934	1.00	26.42	C
ATOM	7552	C THR B 114	36.640	-4.084	-39.388	1.00	26.36	C
ATOM	7553	O THR B 114	35.935	-5.030	-38.950	1.00	26.29	O
ATOM	7554	CB THR B 114	36.865	-2.446	-37.402	1.00	26.35	C
ATOM	7555	OG1 THR B 114	37.134	-1.071	-37.068	1.00	26.44	O
ATOM	7556	CG2 THR B 114	38.108	-3.273	-37.113	1.00	26.26	C
ATOM	7557	HN THR B 114	34.226	-2.456	-38.708	1.00	26.37	H
ATOM	7558	HA THR B 114	37.131	-2.006	-39.514	1.00	26.37	H
ATOM	7559	HB THR B 114	36.053	-2.805	-36.770	1.00	26.37	H
ATOM	7560	HG1 THR B 114	37.912	-0.709	-37.673	1.00	26.37	H
ATOM	7561	1HG2 THR B 114	38.390	-3.153	-36.067	1.00	26.37	H
ATOM	7562	2HG2 THR B 114	38.926	-2.936	-37.750	1.00	26.37	H
ATOM	7563	3HG2 THR B 114	37.901	-4.324	-37.314	1.00	26.37	H
ATOM	7564	N ILE B 115	37.631	-4.260	-40.256	1.00	26.40	N
ATOM	7565	CA ILE B 115	37.999	-5.562	-40.749	1.00	26.39	C
ATOM	7566	C ILE B 115	39.231	-5.917	-39.949	1.00	26.33	C
ATOM	7567	O ILE B 115	40.162	-5.130	-39.928	1.00	26.37	O
ATOM	7568	CB ILE B 115	38.393	-5.513	-42.292	1.00	26.50	C
ATOM	7569	CG1 ILE B 115	37.222	-5.169	-43.211	1.00	26.56	C

ATOM	7570	CG2 ILE B 115	38.925	-6.852	-42.801	1.00	26.52	C
ATOM	7571	CD1 ILE B 115	37.601	-5.221	-44.715	1.00	26.66	C
ATOM	7572	HN ILE B 115	38.174	-3.405	-40.600	1.00	26.47	H
ATOM	7573	HA ILE B 115	37.201	-6.284	-40.574	1.00	26.47	H
ATOM	7574	HB ILE B 115	39.169	-4.760	-42.426	1.00	26.47	H
ATOM	7575	1HG1 ILE B 115	36.417	-5.881	-43.030	1.00	26.47	H
ATOM	7576	2HG1 ILE B 115	36.877	-4.163	-42.974	1.00	26.47	H
ATOM	7577	1HG2 ILE B 115	39.179	-6.765	-43.857	1.00	26.47	H
ATOM	7578	2HG2 ILE B 115	38.161	-7.619	-42.674	1.00	26.47	H
ATOM	7579	3HG2 ILE B 115	39.815	-7.129	-42.236	1.00	26.47	H
ATOM	7580	1HD1 ILE B 115	36.730	-4.968	-45.319	1.00	26.47	H
ATOM	7581	2HD1 ILE B 115	37.940	-6.225	-44.970	1.00	26.47	H
ATOM	7582	3HD1 ILE B 115	38.400	-4.507	-44.914	1.00	26.47	H
ATOM	7583	N LYS B 116	39.244	-7.060	-39.266	1.00	26.24	N
ATOM	7584	CA LYS B 116	40.523	-7.720	-38.904	1.00	26.20	C
ATOM	7585	C LYS B 116	40.716	-8.935	-39.820	1.00	26.27	C
ATOM	7586	O LYS B 116	39.816	-9.766	-39.977	1.00	26.27	O
ATOM	7587	CB LYS B 116	40.610	-8.158	-37.420	1.00	26.06	C
ATOM	7588	CG LYS B 116	41.878	-8.991	-37.130	1.00	26.02	C
ATOM	7589	CD LYS B 116	42.168	-9.222	-35.686	1.00	25.87	C
ATOM	7590	CE LYS B 116	43.599	-9.712	-35.468	1.00	25.85	C
ATOM	7591	NZ LYS B 116	44.582	-8.597	-35.384	1.00	25.89	N1+
ATOM	7592	HN LYS B 116	38.318	-7.510	-38.974	1.00	26.07	H
ATOM	7593	HA LYS B 116	41.333	-7.017	-39.098	1.00	26.07	H
ATOM	7594	HB1 LYS B 116	40.624	-7.267	-36.792	1.00	26.07	H
ATOM	7595	HB2 LYS B 116	39.733	-8.759	-37.180	1.00	26.07	H
ATOM	7596	HG1 LYS B 116	41.760	-9.963	-37.610	1.00	26.07	H

ATOM	7597	HG2 LYS B 116	42.731	-8.470	-37.566	1.00	26.07	H
ATOM	7598	HD1 LYS B 116	42.029	-8.287	-35.144	1.00	26.07	H
ATOM	7599	HD2 LYS B 116	41.476	-9.972	-35.302	1.00	26.07	H
ATOM	7600	HE1 LYS B 116	43.635	-10.279	-34.538	1.00	26.07	H
ATOM	7601	HE2 LYS B 116	43.876	-10.359	-36.300	1.00	26.07	H
ATOM	7602	HZ1 LYS B 116	45.563	-8.996	-35.232	1.00	26.07	H
ATOM	7603	HZ2 LYS B 116	44.327	-7.957	-34.565	1.00	26.07	H
ATOM	7604	HZ3 LYS B 116	44.564	-8.035	-36.295	1.00	26.07	H
ATOM	7605	N PHE B 117	41.900	-9.050	-40.399	1.00	26.54	N
ATOM	7606	CA PHE B 117	42.149	-10.081	-41.376	1.00	26.64	C
ATOM	7607	C PHE B 117	42.527	-11.402	-40.693	1.00	26.59	C
ATOM	7608	O PHE B 117	43.677	-11.625	-40.272	1.00	26.58	O
ATOM	7609	CB PHE B 117	43.189	-9.573	-42.341	1.00	26.77	C
ATOM	7610	CG PHE B 117	42.828	-8.243	-42.910	1.00	26.82	C
ATOM	7611	CD1 PHE B 117	41.996	-8.157	-44.017	1.00	26.89	C
ATOM	7612	CD2 PHE B 117	43.266	-7.075	-42.311	1.00	26.80	C
ATOM	7613	CE1 PHE B 117	41.652	-6.925	-44.537	1.00	26.94	C
ATOM	7614	CE2 PHE B 117	42.918	-5.841	-42.816	1.00	26.86	C
ATOM	7615	CZ PHE B 117	42.110	-5.761	-43.926	1.00	26.93	C
ATOM	7616	HN PHE B 117	42.683	-8.369	-40.139	1.00	26.76	H
ATOM	7617	HA PHE B 117	41.226	-10.244	-41.933	1.00	26.76	H
ATOM	7618	HB1 PHE B 117	44.140	-9.484	-41.817	1.00	26.76	H
ATOM	7619	HB2 PHE B 117	43.289	-10.288	-43.157	1.00	26.76	H
ATOM	7620	HD1 PHE B 117	41.612	-9.067	-44.479	1.00	26.76	H
ATOM	7621	HD2 PHE B 117	43.897	-7.132	-41.424	1.00	26.76	H
ATOM	7622	HE1 PHE B 117	41.023	-6.864	-45.425	1.00	26.76	H
ATOM	7623	HE2 PHE B 117	43.282	-4.932	-42.337	1.00	26.76	H

ATOM	7624	HZ	PHE B 117	41.829	-4.787	-44.327	1.00	26.76	H
ATOM	7625	N	GLN B 118	41.511	-12.257	-40.559	1.00	26.38	N
ATOM	7626	CA	GLN B 118	41.626	-13.565	-39.921	1.00	26.35	C
ATOM	7627	C	GLN B 118	40.372	-14.370	-40.232	1.00	26.41	C
ATOM	7628	O	GLN B 118	39.479	-13.918	-40.911	1.00	26.46	O
ATOM	7629	CB	GLN B 118	41.751	-13.403	-38.418	1.00	26.17	C
ATOM	7630	CG	GLN B 118	40.596	-12.607	-37.819	1.00	26.08	C
ATOM	7631	CD	GLN B 118	39.977	-13.246	-36.604	1.00	25.97	C
ATOM	7632	OE1	GLN B 118	40.210	-14.422	-36.286	1.00	25.96	O
ATOM	7633	NE2	GLN B 118	39.146	-12.476	-35.926	1.00	25.89	N
ATOM	7634	HN	GLN B 118	40.555	-11.966	-40.942	1.00	26.19	H
ATOM	7635	HA	GLN B 118	42.502	-14.086	-40.308	1.00	26.19	H
ATOM	7636	HB1	GLN B 118	41.769	-14.392	-37.960	1.00	26.19	H
ATOM	7637	HB2	GLN B 118	42.684	-12.884	-38.199	1.00	26.19	H
ATOM	7638	HG1	GLN B 118	40.969	-11.623	-37.536	1.00	26.19	H
ATOM	7639	HG2	GLN B 118	39.823	-12.499	-38.580	1.00	26.19	H
ATOM	7640	1HE2	GLN B 118	38.956	-11.475	-36.254	1.00	26.19	H
ATOM	7641	2HE2	GLN B 118	38.663	-12.853	-35.049	1.00	26.19	H
ATOM	7642	N	GLU B 119	40.276	-15.551	-39.670	1.00	26.41	N
ATOM	7643	CA	GLU B 119	39.191	-16.455	-40.000	1.00	26.51	C
ATOM	7644	C	GLU B 119	37.916	-16.123	-39.222	1.00	26.41	C
ATOM	7645	O	GLU B 119	36.843	-16.419	-39.693	1.00	26.51	O
ATOM	7646	CB	GLU B 119	39.621	-17.918	-39.757	1.00	26.58	C
ATOM	7647	CG	GLU B 119	41.125	-18.219	-40.079	1.00	26.64	C
ATOM	7648	CD	GLU B 119	41.341	-19.399	-41.021	1.00	26.88	C
ATOM	7649	OE1	GLU B 119	42.318	-20.170	-40.817	1.00	26.93	O
ATOM	7650	OE2	GLU B 119	40.542	-19.544	-41.982	1.00	27.02	O

ATOM	7651	HN	GLU B 119	41.012	-15.853	-38.955	1.00	26.65	H
ATOM	7652	HA	GLU B 119	38.973	-16.342	-41.062	1.00	26.65	H
ATOM	7653	HB1	GLU B 119	39.444	-18.154	-38.708	1.00	26.65	H
ATOM	7654	HB2	GLU B 119	39.004	-18.562	-40.384	1.00	26.65	H
ATOM	7655	HG1	GLU B 119	41.560	-17.331	-40.539	1.00	26.65	H
ATOM	7656	HG2	GLU B 119	41.639	-18.432	-39.142	1.00	26.65	H
ATOM	7657	N	PHE B 120	38.045	-15.512	-38.037	1.00	26.24	N
ATOM	7658	CA	PHE B 120	36.899	-15.215	-37.124	1.00	26.16	C
ATOM	7659	C	PHE B 120	36.279	-13.792	-37.251	1.00	26.13	C
ATOM	7660	O	PHE B 120	36.930	-12.774	-36.949	1.00	26.05	O
ATOM	7661	CB	PHE B 120	37.278	-15.435	-35.636	1.00	26.00	C
ATOM	7662	CG	PHE B 120	37.710	-16.829	-35.294	1.00	26.02	C
ATOM	7663	CD1	PHE B 120	37.182	-17.942	-35.928	1.00	26.18	C
ATOM	7664	CD2	PHE B 120	38.630	-17.041	-34.307	1.00	25.88	C
ATOM	7665	CE1	PHE B 120	37.597	-19.260	-35.586	1.00	26.23	C
ATOM	7666	CE2	PHE B 120	39.044	-18.359	-33.968	1.00	25.91	C
ATOM	7667	CZ	PHE B 120	38.524	-19.453	-34.615	1.00	26.09	C
ATOM	7668	HN	PHE B 120	39.026	-15.219	-37.726	1.00	26.08	H
ATOM	7669	HA	PHE B 120	36.110	-15.929	-37.361	1.00	26.08	H
ATOM	7670	HB1	PHE B 120	38.096	-14.758	-35.391	1.00	26.08	H
ATOM	7671	HB2	PHE B 120	36.409	-15.191	-35.026	1.00	26.08	H
ATOM	7672	HD1	PHE B 120	36.432	-17.805	-36.707	1.00	26.08	H
ATOM	7673	HD2	PHE B 120	39.052	-16.190	-33.773	1.00	26.08	H
ATOM	7674	HE1	PHE B 120	37.168	-20.117	-36.106	1.00	26.08	H
ATOM	7675	HE2	PHE B 120	39.786	-18.503	-33.182	1.00	26.08	H
ATOM	7676	HZ	PHE B 120	38.851	-20.459	-34.353	1.00	26.08	H
ATOM	7677	N	SER B 121	34.992	-13.748	-37.616	1.00	27.80	N

ATOM	7678	CA	SER B 121	34.241	-12.497	-37.777	1.00	27.80	C
ATOM	7679	C	SER B 121	32.791	-12.586	-37.218	1.00	27.82	C
ATOM	7680	O	SER B 121	32.152	-13.635	-37.288	1.00	27.90	O
ATOM	7681	CB	SER B 121	34.224	-12.130	-39.262	1.00	27.91	C
ATOM	7682	OG	SER B 121	34.083	-13.283	-40.092	1.00	28.03	O
ATOM	7683	HN	SER B 121	34.485	-14.672	-37.800	1.00	27.88	H
ATOM	7684	HA	SER B 121	34.768	-11.710	-37.237	1.00	27.88	H
ATOM	7685	HB1	SER B 121	33.388	-11.456	-39.449	1.00	27.88	H
ATOM	7686	HB2	SER B 121	35.159	-11.628	-39.512	1.00	27.88	H
ATOM	7687	HG	SER B 121	34.887	-13.937	-39.924	1.00	27.88	H
ATOM	7688	N	PRO B 122	32.266	-11.488	-36.645	1.00	27.67	N
ATOM	7689	CA	PRO B 122	30.842	-11.492	-36.329	1.00	27.73	C
ATOM	7690	C	PRO B 122	29.970	-11.715	-37.567	1.00	27.88	C
ATOM	7691	O	PRO B 122	28.779	-12.029	-37.411	1.00	27.96	O
ATOM	7692	CB	PRO B 122	30.577	-10.079	-35.802	1.00	27.70	C
ATOM	7693	CG	PRO B 122	31.859	-9.361	-35.788	1.00	27.62	C
ATOM	7694	CD	PRO B 122	32.941	-10.231	-36.279	1.00	27.60	C
ATOM	7695	HA	PRO B 122	30.620	-12.236	-35.564	1.00	27.74	H
ATOM	7696	HB1	PRO B 122	29.871	-9.566	-36.455	1.00	27.74	H
ATOM	7697	HB2	PRO B 122	30.169	-10.130	-34.793	1.00	27.74	H
ATOM	7698	HG1	PRO B 122	31.786	-8.483	-36.430	1.00	27.74	H
ATOM	7699	HG2	PRO B 122	32.084	-9.049	-34.768	1.00	27.74	H
ATOM	7700	HD1	PRO B 122	33.427	-9.788	-37.148	1.00	27.74	H
ATOM	7701	HD2	PRO B 122	33.681	-10.404	-35.497	1.00	27.74	H
ATOM	7702	N	ASN B 123	30.548	-11.534	-38.769	1.00	33.40	N
ATOM	7703	CA	ASN B 123	29.855	-11.735	-40.044	1.00	33.53	C
ATOM	7704	C	ASN B 123	29.315	-13.139	-40.125	1.00	33.63	C

ATOM	7705	O	ASN B 123	30.080	-14.071	-40.022	1.00	33.63	O
ATOM	7706	CB	ASN B 123	30.847	-11.501	-41.193	1.00	33.54	C
ATOM	7707	CG	ASN B 123	30.520	-12.314	-42.454	1.00	33.68	C
ATOM	7708	OD1	ASN B 123	31.215	-13.297	-42.756	1.00	33.73	O
ATOM	7709	ND2	ASN B 123	29.473	-11.908	-43.192	1.00	33.75	N
ATOM	7710	HN	ASN B 123	31.572	-11.226	-38.795	1.00	33.61	H
ATOM	7711	HA	ASN B 123	29.032	-11.025	-40.125	1.00	33.61	H
ATOM	7712	HB1	ASN B 123	30.833	-10.442	-41.451	1.00	33.61	H
ATOM	7713	HB2	ASN B 123	31.844	-11.779	-40.851	1.00	33.61	H
ATOM	7714	1HD2	ASN B 123	28.907	-11.051	-42.892	1.00	33.61	H
ATOM	7715	2HD2	ASN B 123	29.205	-12.442	-44.080	1.00	33.61	H
ATOM	7716	N	LEU B 124	28.016	-13.300	-40.341	1.00	26.77	N
ATOM	7717	CA	LEU B 124	27.388	-14.618	-40.249	1.00	26.90	C
ATOM	7718	C	LEU B 124	27.165	-15.281	-41.608	1.00	27.05	C
ATOM	7719	O	LEU B 124	26.306	-16.167	-41.766	1.00	27.21	O
ATOM	7720	CB	LEU B 124	26.064	-14.498	-39.490	1.00	26.95	C
ATOM	7721	CG	LEU B 124	26.129	-15.147	-38.126	1.00	26.90	C
ATOM	7722	CD1	LEU B 124	26.270	-16.663	-38.308	1.00	27.02	C
ATOM	7723	CD2	LEU B 124	27.294	-14.537	-37.307	1.00	26.70	C
ATOM	7724	HN	LEU B 124	27.416	-12.449	-40.587	1.00	26.94	H
ATOM	7725	HA	LEU B 124	28.048	-15.262	-39.668	1.00	26.94	H
ATOM	7726	HB1	LEU B 124	25.825	-13.442	-39.365	1.00	26.94	H
ATOM	7727	HB2	LEU B 124	25.280	-14.982	-40.072	1.00	26.94	H
ATOM	7728	HG	LEU B 124	25.195	-14.946	-37.602	1.00	26.94	H
ATOM	7729	1HD1	LEU B 124	26.318	-17.144	-37.331	1.00	26.94	H
ATOM	7730	2HD1	LEU B 124	27.182	-16.879	-38.864	1.00	26.94	H
ATOM	7731	3HD1	LEU B 124	25.410	-17.045	-38.858	1.00	26.94	H

ATOM	7732	1HD2 LEU B 124	27.335	-15.009	-36.325	1.00	26.94	H
ATOM	7733	2HD2 LEU B 124	27.133	-13.466	-37.188	1.00	26.94	H
ATOM	7734	3HD2 LEU B 124	28.235	-14.707	-37.831	1.00	26.94	H
ATOM	7735	N TRP B 125	27.964	-14.864	-42.584	1.00	39.25	N
ATOM	7736	CA TRP B 125	27.805	-15.317	-43.944	1.00	39.40	C
ATOM	7737	C TRP B 125	29.042	-16.034	-44.441	1.00	39.43	C
ATOM	7738	O TRP B 125	29.168	-16.273	-45.642	1.00	39.54	O
ATOM	7739	CB TRP B 125	27.429	-14.137	-44.836	1.00	39.37	C
ATOM	7740	CG TRP B 125	25.961	-14.078	-45.031	1.00	39.47	C
ATOM	7741	CD1 TRP B 125	25.029	-13.554	-44.166	1.00	39.44	C
ATOM	7742	CD2 TRP B 125	25.227	-14.604	-46.147	1.00	39.63	C
ATOM	7743	NE1 TRP B 125	23.763	-13.705	-44.688	1.00	39.57	N
ATOM	7744	CE2 TRP B 125	23.854	-14.343	-45.905	1.00	39.69	C
ATOM	7745	CE3 TRP B 125	25.598	-15.241	-47.351	1.00	39.74	C
ATOM	7746	CZ2 TRP B 125	22.840	-14.712	-46.832	1.00	39.85	C
ATOM	7747	CZ3 TRP B 125	24.590	-15.599	-48.274	1.00	39.90	C
ATOM	7748	CH2 TRP B 125	23.233	-15.334	-48.003	1.00	39.94	C
ATOM	7749	HN TRP B 125	28.748	-14.173	-42.355	1.00	39.59	H
ATOM	7750	HA TRP B 125	26.978	-16.027	-43.964	1.00	39.59	H
ATOM	7751	HB1 TRP B 125	27.766	-13.212	-44.367	1.00	39.59	H
ATOM	7752	HB2 TRP B 125	27.915	-14.251	-45.805	1.00	39.59	H
ATOM	7753	HD1 TRP B 125	25.258	-13.088	-43.208	1.00	39.59	H
ATOM	7754	HE1 TRP B 125	22.856	-13.379	-44.223	1.00	39.59	H
ATOM	7755	HE3 TRP B 125	26.645	-15.453	-47.565	1.00	39.59	H
ATOM	7756	HZ2 TRP B 125	21.789	-14.511	-46.626	1.00	39.59	H
ATOM	7757	HZ3 TRP B 125	24.866	-16.087	-49.209	1.00	39.59	H
ATOM	7758	HH2 TRP B 125	22.477	-15.625	-48.732	1.00	39.59	H



ATOM	7759	N	GLY B 126	29.926	-16.419	-43.518	1.00	36.07	N
ATOM	7760	CA	GLY B 126	31.108	-17.203	-43.857	1.00	36.13	C
ATOM	7761	C	GLY B 126	32.140	-16.496	-44.731	1.00	36.09	C
ATOM	7762	O	GLY B 126	32.898	-17.146	-45.483	1.00	36.20	O
ATOM	7763	HN	GLY B 126	29.762	-16.144	-42.497	1.00	36.12	H
ATOM	7764	HA1	GLY B 126	31.597	-17.491	-42.927	1.00	36.12	H
ATOM	7765	HA2	GLY B 126	30.777	-18.097	-44.386	1.00	36.12	H
ATOM	7766	N	LEU B 127	32.169	-15.164	-44.618	1.00	27.66	N
ATOM	7767	CA	LEU B 127	33.179	-14.326	-45.293	1.00	27.62	C
ATOM	7768	C	LEU B 127	34.330	-14.056	-44.281	1.00	27.49	C
ATOM	7769	O	LEU B 127	34.119	-13.461	-43.177	1.00	27.36	O
ATOM	7770	CB	LEU B 127	32.586	-12.994	-45.842	1.00	27.58	C
ATOM	7771	CG	LEU B 127	31.526	-13.005	-46.970	1.00	27.69	C
ATOM	7772	CD1	LEU B 127	30.531	-11.856	-46.867	1.00	27.62	C
ATOM	7773	CD2	LEU B 127	32.167	-13.006	-48.350	1.00	27.78	C
ATOM	7774	HN	LEU B 127	31.428	-14.685	-44.012	1.00	27.60	H
ATOM	7775	HA	LEU B 127	33.586	-14.890	-46.132	1.00	27.60	H
ATOM	7776	HB1	LEU B 127	32.132	-12.483	-44.993	1.00	27.60	H
ATOM	7777	HB2	LEU B 127	33.427	-12.408	-46.212	1.00	27.60	H
ATOM	7778	HG	LEU B 127	30.961	-13.932	-46.875	1.00	27.60	H
ATOM	7779	1HD1	LEU B 127	29.815	-11.920	-47.686	1.00	27.60	H
ATOM	7780	2HD1	LEU B 127	31.064	-10.907	-46.925	1.00	27.60	H
ATOM	7781	3HD1	LEU B 127	30.001	-11.918	-45.916	1.00	27.60	H
ATOM	7782	1HD2	LEU B 127	31.388	-13.014	-49.113	1.00	27.60	H
ATOM	7783	2HD2	LEU B 127	32.792	-13.892	-48.460	1.00	27.60	H
ATOM	7784	3HD2	LEU B 127	32.780	-12.113	-48.467	1.00	27.60	H
ATOM	7785	N	GLU B 128	35.520	-14.560	-44.649	1.00	54.37	N

ATOM	7786	CA	GLU B 128	36.760	-14.384	-43.869	1.00	54.27	C
ATOM	7787	C	GLU B 128	37.913	-13.956	-44.795	1.00	54.34	C
ATOM	7788	O	GLU B 128	37.694	-13.680	-45.983	1.00	54.44	O
ATOM	7789	CB	GLU B 128	37.119	-15.670	-43.123	1.00	54.29	C
ATOM	7790	CG	GLU B 128	38.119	-16.558	-43.830	1.00	54.44	C
ATOM	7791	CD	GLU B 128	37.544	-17.913	-44.120	1.00	54.60	C
ATOM	7792	OE1	GLU B 128	37.619	-18.802	-43.227	1.00	54.59	O
ATOM	7793	OE2	GLU B 128	37.015	-18.076	-45.256	1.00	54.75	O
ATOM	7794	HN	GLU B 128	35.571	-15.121	-45.559	1.00	54.45	H
ATOM	7795	HA	GLU B 128	36.596	-13.595	-43.135	1.00	54.45	H
ATOM	7796	HB1	GLU B 128	37.536	-15.394	-42.155	1.00	54.45	H
ATOM	7797	HB2	GLU B 128	36.203	-16.242	-42.975	1.00	54.45	H
ATOM	7798	HG1	GLU B 128	38.408	-16.088	-44.770	1.00	54.45	H
ATOM	7799	HG2	GLU B 128	38.998	-16.675	-43.197	1.00	54.45	H
ATOM	7800	N	PHE B 129	39.135	-13.924	-44.264	1.00	36.94	N
ATOM	7801	CA	PHE B 129	40.296	-13.520	-45.049	1.00	37.02	C
ATOM	7802	C	PHE B 129	41.467	-14.454	-44.866	1.00	37.08	C
ATOM	7803	O	PHE B 129	41.718	-14.995	-43.758	1.00	37.00	O
ATOM	7804	CB	PHE B 129	40.699	-12.074	-44.750	1.00	36.93	C
ATOM	7805	CG	PHE B 129	39.632	-11.088	-45.095	1.00	36.90	C
ATOM	7806	CD1	PHE B 129	39.198	-10.957	-46.422	1.00	37.01	C
ATOM	7807	CD2	PHE B 129	39.029	-10.314	-44.108	1.00	36.77	C
ATOM	7808	CE1	PHE B 129	38.171	-10.049	-46.774	1.00	36.98	C
ATOM	7809	CE2	PHE B 129	37.997	-9.390	-44.439	1.00	36.76	C
ATOM	7810	CZ	PHE B 129	37.563	-9.262	-45.772	1.00	36.86	C
ATOM	7811	HN	PHE B 129	39.267	-14.201	-43.239	1.00	36.93	H
ATOM	7812	HA	PHE B 129	40.008	-13.565	-46.099	1.00	36.93	H

ATOM	7813	HB1 PHE B 129	40.920	-11.988	-43.686	1.00	36.93	H
ATOM	7814	HB2 PHE B 129	41.592	-11.836	-45.328	1.00	36.93	H
ATOM	7815	HD1 PHE B 129	39.661	-11.567	-47.198	1.00	36.93	H
ATOM	7816	HD2 PHE B 129	39.350	-10.416	-43.071	1.00	36.93	H
ATOM	7817	HE1 PHE B 129	37.852	-9.958	-47.812	1.00	36.93	H
ATOM	7818	HE2 PHE B 129	37.542	-8.780	-43.658	1.00	36.93	H
ATOM	7819	HZ PHE B 129	36.767	-8.563	-46.028	1.00	36.93	H
ATOM	7820	N GLN B 130	42.171	-14.626	-45.989	1.00	40.19	N
ATOM	7821	CA GLN B 130	43.243	-15.613	-46.124	1.00	40.32	C
ATOM	7822	C GLN B 130	44.402	-15.100	-46.997	1.00	40.44	C
ATOM	7823	O GLN B 130	44.158	-14.381	-47.951	1.00	40.50	O
ATOM	7824	CB GLN B 130	42.661	-16.938	-46.670	1.00	40.48	C
ATOM	7825	CG GLN B 130	41.570	-17.562	-45.726	1.00	40.38	C
ATOM	7826	CD GLN B 130	41.649	-19.087	-45.579	1.00	40.53	C
ATOM	7827	OE1 GLN B 130	41.439	-19.835	-46.550	1.00	40.74	O
ATOM	7828	NE2 GLN B 130	41.931	-19.551	-44.362	1.00	40.42	N
ATOM	7829	HN GLN B 130	41.939	-14.010	-46.833	1.00	40.44	H
ATOM	7830	HA GLN B 130	43.640	-15.810	-45.128	1.00	40.44	H
ATOM	7831	HB1 GLN B 130	42.209	-16.745	-47.643	1.00	40.44	H
ATOM	7832	HB2 GLN B 130	43.474	-17.655	-46.783	1.00	40.44	H
ATOM	7833	HG1 GLN B 130	41.683	-17.119	-44.737	1.00	40.44	H
ATOM	7834	HG2 GLN B 130	40.589	-17.310	-46.128	1.00	40.44	H
ATOM	7835	1HE2 GLN B 130	42.088	-18.869	-43.553	1.00	40.44	H
ATOM	7836	2HE2 GLN B 130	42.000	-20.606	-44.194	1.00	40.44	H
ATOM	7837	N LYS B 131	45.643	-15.479	-46.636	1.00	43.97	N
ATOM	7838	CA LYS B 131	46.859	-15.086	-47.366	1.00	44.11	C
ATOM	7839	C LYS B 131	46.671	-15.344	-48.853	1.00	44.32	C

ATOM	7840	O	LYS B 131	45.876	-16.217	-49.250	1.00	44.40	O
ATOM	7841	CB	LYS B 131	48.131	-15.897	-47.005	1.00	44.21	C
ATOM	7842	CG	LYS B 131	48.373	-16.374	-45.579	1.00	44.05	C
ATOM	7843	CD	LYS B 131	49.830	-16.918	-45.408	1.00	44.17	C
ATOM	7844	CE	LYS B 131	49.955	-18.454	-45.588	1.00	44.34	C
ATOM	7845	NZ	LYS B 131	51.334	-18.905	-46.116	1.00	44.58	N1+
ATOM	7846	HN	LYS B 131	45.751	-16.100	-45.771	1.00	44.24	H
ATOM	7847	HA	LYS B 131	47.050	-14.025	-47.205	1.00	44.24	H
ATOM	7848	HB1	LYS B 131	48.120	-16.788	-47.633	1.00	44.24	H
ATOM	7849	HB2	LYS B 131	48.984	-15.273	-47.273	1.00	44.24	H
ATOM	7850	HG1	LYS B 131	48.222	-15.540	-44.894	1.00	44.24	H
ATOM	7851	HG2	LYS B 131	47.666	-17.170	-45.345	1.00	44.24	H
ATOM	7852	HD1	LYS B 131	50.466	-16.433	-46.149	1.00	44.24	H
ATOM	7853	HD2	LYS B 131	50.176	-16.661	-44.407	1.00	44.24	H
ATOM	7854	HE1	LYS B 131	49.784	-18.929	-44.622	1.00	44.24	H
ATOM	7855	HE2	LYS B 131	49.192	-18.781	-46.294	1.00	44.24	H
ATOM	7856	HZ1	LYS B 131	51.348	-19.970	-46.215	1.00	44.24	H
ATOM	7857	HZ2	LYS B 131	52.096	-18.601	-45.429	1.00	44.24	H
ATOM	7858	HZ3	LYS B 131	51.515	-18.456	-47.070	1.00	44.24	H
ATOM	7859	N	ASN B 132	47.437	-14.605	-49.663	1.00	34.69	N
ATOM	7860	CA	ASN B 132	47.532	-14.862	-51.079	1.00	34.91	C
ATOM	7861	C	ASN B 132	46.152	-15.054	-51.662	1.00	34.89	C
ATOM	7862	O	ASN B 132	45.887	-16.008	-52.380	1.00	35.06	O
ATOM	7863	CB	ASN B 132	48.365	-16.119	-51.300	1.00	35.12	C
ATOM	7864	CG	ASN B 132	49.651	-16.110	-50.505	1.00	35.12	C
ATOM	7865	OD1	ASN B 132	50.419	-15.146	-50.550	1.00	35.13	O
ATOM	7866	ND2	ASN B 132	49.902	-17.194	-49.783	1.00	35.14	N

ATOM	7867	HN	ASN B 132	47.999	-13.795	-49.246	1.00	35.01	H
ATOM	7868	HA	ASN B 132	48.016	-14.017	-51.568	1.00	35.01	H
ATOM	7869	HB1	ASN B 132	47.776	-16.986	-51.001	1.00	35.01	H
ATOM	7870	HB2	ASN B 132	48.610	-16.194	-52.359	1.00	35.01	H
ATOM	7871	1HD2	ASN B 132	49.211	-18.011	-49.786	1.00	35.01	H
ATOM	7872	2HD2	ASN B 132	50.796	-17.252	-49.197	1.00	35.01	H
ATOM	7873	N	LYS B 133	45.254	-14.169	-51.276	1.00	27.91	N
ATOM	7874	CA	LYS B 133	43.963	-14.088	-51.893	1.00	27.89	C
ATOM	7875	C	LYS B 133	43.626	-12.607	-52.058	1.00	27.77	C
ATOM	7876	O	LYS B 133	44.160	-11.743	-51.347	1.00	27.67	O
ATOM	7877	CB	LYS B 133	42.918	-14.849	-51.076	1.00	27.79	C
ATOM	7878	CG	LYS B 133	42.978	-16.348	-51.312	1.00	27.96	C
ATOM	7879	CD	LYS B 133	41.932	-17.136	-50.511	1.00	27.89	C
ATOM	7880	CE	LYS B 133	42.321	-18.678	-50.331	1.00	28.07	C
ATOM	7881	NZ	LYS B 133	43.123	-19.106	-49.083	1.00	27.99	N1+
ATOM	7882	HN	LYS B 133	45.495	-13.494	-50.482	1.00	27.88	H
ATOM	7883	HA	LYS B 133	44.024	-14.541	-52.883	1.00	27.88	H
ATOM	7884	HB1	LYS B 133	43.091	-14.654	-50.018	1.00	27.88	H
ATOM	7885	HB2	LYS B 133	41.927	-14.490	-51.354	1.00	27.88	H
ATOM	7886	HG1	LYS B 133	42.814	-16.537	-52.373	1.00	27.88	H
ATOM	7887	HG2	LYS B 133	43.969	-16.703	-51.028	1.00	27.88	H
ATOM	7888	HD1	LYS B 133	41.836	-16.684	-49.524	1.00	27.88	H
ATOM	7889	HD2	LYS B 133	40.977	-17.077	-51.033	1.00	27.88	H
ATOM	7890	HE1	LYS B 133	41.389	-19.244	-50.321	1.00	27.88	H
ATOM	7891	HE2	LYS B 133	42.910	-18.963	-51.203	1.00	27.88	H
ATOM	7892	HZ1	LYS B 133	43.299	-20.161	-49.116	1.00	27.88	H
ATOM	7893	HZ2	LYS B 133	42.567	-18.865	-48.201	1.00	27.88	H

ATOM	7894	HZ3 LYS B 133	44.060	-18.589	-49.066	1.00	27.88	H
ATOM	7895	N ASP B 134	42.782	-12.329	-53.050	1.00	35.95	N
ATOM	7896	CA ASP B 134	42.359	-10.973	-53.370	1.00	35.87	C
ATOM	7897	C ASP B 134	40.869	-10.832	-53.059	1.00	35.73	C
ATOM	7898	O ASP B 134	40.073	-11.752	-53.290	1.00	35.77	O
ATOM	7899	CB ASP B 134	42.648	-10.652	-54.834	1.00	36.02	C
ATOM	7900	CG ASP B 134	44.089	-10.942	-55.213	1.00	36.20	C
ATOM	7901	OD1 ASP B 134	45.023	-10.550	-54.441	1.00	36.17	O
ATOM	7902	OD2 ASP B 134	44.271	-11.569	-56.287	1.00	36.37	O
ATOM	7903	HN ASP B 134	42.398	-13.137	-53.637	1.00	36.01	H
ATOM	7904	HA ASP B 134	42.915	-10.276	-52.743	1.00	36.01	H
ATOM	7905	HB1 ASP B 134	41.992	-11.256	-55.461	1.00	36.01	H
ATOM	7906	HB2 ASP B 134	42.446	-9.595	-55.008	1.00	36.01	H
ATOM	7907	N TYR B 135	40.520	-9.684	-52.487	1.00	28.04	N
ATOM	7908	CA TYR B 135	39.160	-9.382	-52.059	1.00	27.91	C
ATOM	7909	C TYR B 135	38.836	-7.921	-52.478	1.00	27.87	C
ATOM	7910	O TYR B 135	39.652	-7.008	-52.291	1.00	27.88	O
ATOM	7911	CB TYR B 135	39.017	-9.623	-50.536	1.00	27.79	C
ATOM	7912	CG TYR B 135	39.574	-10.981	-49.994	1.00	27.83	C
ATOM	7913	CD1 TYR B 135	38.712	-12.071	-49.659	1.00	27.83	C
ATOM	7914	CD2 TYR B 135	40.948	-11.166	-49.796	1.00	27.88	C
ATOM	7915	CE1 TYR B 135	39.223	-13.309	-49.162	1.00	27.88	C
ATOM	7916	CE2 TYR B 135	41.459	-12.391	-49.304	1.00	27.92	C
ATOM	7917	CZ TYR B 135	40.605	-13.452	-48.993	1.00	27.92	C
ATOM	7918	OH TYR B 135	41.187	-14.619	-48.518	1.00	27.98	O
ATOM	7919	HN TYR B 135	41.277	-8.943	-52.333	1.00	27.89	H
ATOM	7920	HA TYR B 135	38.476	-10.051	-52.581	1.00	27.89	H

ATOM	7921	HB1 TYR B 135	39.544	-8.819	-50.022	1.00	27.89	H
ATOM	7922	HB2 TYR B 135	37.956	-9.578	-50.291	1.00	27.89	H
ATOM	7923	HD1 TYR B 135	37.636	-11.954	-49.786	1.00	27.89	H
ATOM	7924	HD2 TYR B 135	41.636	-10.352	-50.025	1.00	27.89	H
ATOM	7925	HE1 TYR B 135	38.548	-14.129	-48.918	1.00	27.89	H
ATOM	7926	HE2 TYR B 135	42.534	-12.508	-49.166	1.00	27.89	H
ATOM	7927	HH TYR B 135	40.819	-14.829	-47.557	1.00	27.89	H
ATOM	7928	N TYR B 136	37.653	-7.727	-53.068	1.00	30.21	N
ATOM	7929	CA TYR B 136	37.272	-6.485	-53.806	1.00	30.20	C
ATOM	7930	C TYR B 136	36.092	-5.808	-53.114	1.00	30.09	C
ATOM	7931	O TYR B 136	35.016	-6.399	-52.974	1.00	30.05	O
ATOM	7932	CB TYR B 136	36.873	-6.764	-55.272	1.00	30.28	C
ATOM	7933	CG TYR B 136	37.802	-7.689	-56.000	1.00	30.42	C
ATOM	7934	CD1 TYR B 136	38.678	-7.210	-56.964	1.00	30.53	C
ATOM	7935	CD2 TYR B 136	37.802	-9.053	-55.713	1.00	30.47	C
ATOM	7936	CE1 TYR B 136	39.533	-8.077	-57.627	1.00	30.68	C
ATOM	7937	CE2 TYR B 136	38.646	-9.914	-56.329	1.00	30.63	C
ATOM	7938	CZ TYR B 136	39.517	-9.441	-57.292	1.00	30.73	C
ATOM	7939	OH TYR B 136	40.357	-10.356	-57.922	1.00	30.91	O
ATOM	7940	HN TYR B 136	36.930	-8.514	-53.008	1.00	30.43	H
ATOM	7941	HA TYR B 136	38.120	-5.801	-53.799	1.00	30.43	H
ATOM	7942	HB1 TYR B 136	35.877	-7.208	-55.276	1.00	30.43	H
ATOM	7943	HB2 TYR B 136	36.850	-5.814	-55.806	1.00	30.43	H
ATOM	7944	HD1 TYR B 136	38.694	-6.146	-57.201	1.00	30.43	H
ATOM	7945	HD2 TYR B 136	37.102	-9.438	-54.971	1.00	30.43	H
ATOM	7946	HE1 TYR B 136	40.208	-7.705	-58.398	1.00	30.43	H
ATOM	7947	HE2 TYR B 136	38.639	-10.972	-56.067	1.00	30.43	H

ATOM	7948	HH	TYR B 136	40.159	-10.361	-58.953	1.00	30.43	H
ATOM	7949	N	ILE B 137	36.293	-4.569	-52.690	1.00	27.11	N
ATOM	7950	CA	ILE B 137	35.267	-3.834	-51.986	1.00	27.03	C
ATOM	7951	C	ILE B 137	34.905	-2.676	-52.885	1.00	27.07	C
ATOM	7952	O	ILE B 137	35.811	-1.960	-53.295	1.00	27.13	O
ATOM	7953	CB	ILE B 137	35.792	-3.332	-50.589	1.00	26.98	C
ATOM	7954	CG1	ILE B 137	36.388	-4.499	-49.777	1.00	26.95	C
ATOM	7955	CG2	ILE B 137	34.694	-2.602	-49.809	1.00	26.93	C
ATOM	7956	CD1	ILE B 137	35.833	-4.670	-48.355	1.00	26.85	C
ATOM	7957	HN	ILE B 137	37.238	-4.101	-52.873	1.00	27.01	H
ATOM	7958	HA	ILE B 137	34.395	-4.471	-51.841	1.00	27.01	H
ATOM	7959	HB	ILE B 137	36.594	-2.618	-50.776	1.00	27.01	H
ATOM	7960	1HG1	ILE B 137	36.196	-5.421	-50.325	1.00	27.01	H
ATOM	7961	2HG1	ILE B 137	37.463	-4.339	-49.700	1.00	27.01	H
ATOM	7962	1HG2	ILE B 137	35.090	-2.269	-48.850	1.00	27.01	H
ATOM	7963	2HG2	ILE B 137	33.856	-3.279	-49.641	1.00	27.01	H
ATOM	7964	3HG2	ILE B 137	34.354	-1.739	-50.381	1.00	27.01	H
ATOM	7965	1HD1	ILE B 137	36.320	-5.518	-47.874	1.00	27.01	H
ATOM	7966	2HD1	ILE B 137	34.759	-4.848	-48.403	1.00	27.01	H
ATOM	7967	3HD1	ILE B 137	36.026	-3.766	-47.778	1.00	27.01	H
ATOM	7968	N	ILE B 138	33.618	-2.501	-53.216	1.00	30.53	N
ATOM	7969	CA	ILE B 138	33.160	-1.381	-54.080	1.00	30.56	C
ATOM	7970	C	ILE B 138	31.811	-0.801	-53.602	1.00	30.52	C
ATOM	7971	O	ILE B 138	31.228	-1.275	-52.629	1.00	30.47	O
ATOM	7972	CB	ILE B 138	32.992	-1.780	-55.647	1.00	30.60	C
ATOM	7973	CG1	ILE B 138	31.637	-2.461	-55.889	1.00	30.56	C
ATOM	7974	CG2	ILE B 138	34.189	-2.617	-56.218	1.00	30.67	C



ATOM	7975	CD1 ILE B 138	31.677	-3.503	-56.923	1.00	30.60	C
ATOM	7976	HN ILE B 138	32.892	-3.194	-52.844	1.00	30.56	H
ATOM	7977	HA ILE B 138	33.904	-0.587	-54.017	1.00	30.56	H
ATOM	7978	HB ILE B 138	32.973	-0.844	-56.205	1.00	30.56	H
ATOM	7979	1HG1 ILE B 138	31.309	-2.916	-54.954	1.00	30.56	H
ATOM	7980	2HG1 ILE B 138	30.919	-1.700	-56.195	1.00	30.56	H
ATOM	7981	1HG2 ILE B 138	34.005	-2.845	-57.268	1.00	30.56	H
ATOM	7982	2HG2 ILE B 138	34.284	-3.546	-55.656	1.00	30.56	H
ATOM	7983	3HG2 ILE B 138	35.111	-2.042	-56.128	1.00	30.56	H
ATOM	7984	1HD1 ILE B 138	30.685	-3.939	-57.039	1.00	30.56	H
ATOM	7985	2HD1 ILE B 138	32.383	-4.280	-56.629	1.00	30.56	H
ATOM	7986	3HD1 ILE B 138	31.993	-3.064	-57.869	1.00	30.56	H
ATOM	7987	N SER B 139	31.322	0.222	-54.305	1.00	27.04	N
ATOM	7988	CA SER B 139	29.872	0.396	-54.429	1.00	27.02	C
ATOM	7989	C SER B 139	29.495	0.838	-55.832	1.00	27.03	C
ATOM	7990	O SER B 139	30.279	1.450	-56.534	1.00	27.08	O
ATOM	7991	CB SER B 139	29.258	1.326	-53.401	1.00	27.03	C
ATOM	7992	OG SER B 139	27.841	1.156	-53.449	1.00	27.01	O
ATOM	7993	HN SER B 139	31.987	0.914	-54.777	1.00	27.04	H
ATOM	7994	HA SER B 139	29.422	-0.585	-54.276	1.00	27.04	H
ATOM	7995	HB1 SER B 139	29.628	1.075	-52.407	1.00	27.04	H
ATOM	7996	HB2 SER B 139	29.515	2.359	-53.635	1.00	27.04	H
ATOM	7997	HG SER B 139	27.492	1.395	-54.410	1.00	27.03	H
ATOM	7998	N THR B 140	28.274	0.504	-56.213	1.00	27.00	N
ATOM	7999	CA THR B 140	27.692	0.961	-57.453	1.00	27.00	C
ATOM	8000	C THR B 140	26.838	2.187	-57.194	1.00	27.01	C
ATOM	8001	O THR B 140	26.196	2.703	-58.109	1.00	27.01	O

ATOM	8002	CB	THR B 140	26.857	-0.156	-58.098	1.00	26.98	C
ATOM	8003	OG1	THR B 140	25.845	-0.622	-57.196	1.00	26.97	O
ATOM	8004	CG2	THR B 140	27.747	-1.327	-58.423	1.00	27.00	C
ATOM	8005	HN	THR B 140	27.693	-0.131	-55.577	1.00	27.00	H
ATOM	8006	HA	THR B 140	28.496	1.234	-58.136	1.00	27.00	H
ATOM	8007	HB	THR B 140	26.391	0.215	-59.011	1.00	27.00	H
ATOM	8008	HG1	THR B 140	26.297	-0.998	-56.326	1.00	27.00	H
ATOM	8009	1HG2	THR B 140	27.154	-2.119	-58.880	1.00	27.00	H
ATOM	8010	2HG2	THR B 140	28.206	-1.700	-57.507	1.00	27.00	H
ATOM	8011	3HG2	THR B 140	28.526	-1.010	-59.117	1.00	27.00	H
ATOM	8012	N	SER B 141	26.827	2.645	-55.943	1.00	27.04	N
ATOM	8013	CA	SER B 141	26.100	3.850	-55.564	1.00	27.09	C
ATOM	8014	C	SER B 141	26.525	5.016	-56.458	1.00	27.14	C
ATOM	8015	O	SER B 141	27.704	5.086	-56.826	1.00	27.16	O
ATOM	8016	CB	SER B 141	26.386	4.209	-54.100	1.00	27.14	C
ATOM	8017	OG	SER B 141	26.502	3.041	-53.343	1.00	27.08	O
ATOM	8018	HN	SER B 141	27.370	2.111	-55.192	1.00	27.11	H
ATOM	8019	HA	SER B 141	25.031	3.676	-55.687	1.00	27.11	H
ATOM	8020	HB1	SER B 141	27.317	4.773	-54.041	1.00	27.11	H
ATOM	8021	HB2	SER B 141	25.568	4.814	-53.709	1.00	27.11	H
ATOM	8022	HG	SER B 141	25.606	2.497	-53.399	1.00	27.11	H
ATOM	8023	N	ASN B 142	25.580	5.916	-56.795	1.00	27.18	N
ATOM	8024	CA	ASN B 142	25.900	7.187	-57.475	1.00	27.25	C
ATOM	8025	C	ASN B 142	26.158	8.307	-56.498	1.00	27.38	C
ATOM	8026	O	ASN B 142	26.479	9.419	-56.929	1.00	27.48	O
ATOM	8027	CB	ASN B 142	24.787	7.672	-58.393	1.00	27.23	C
ATOM	8028	CG	ASN B 142	23.984	8.801	-57.772	1.00	27.34	C

ATOM	8029	OD1 ASN B 142	23.394	8.649	-56.700	1.00	27.37	O
ATOM	8030	ND2 ASN B 142	23.989	9.949	-58.428	1.00	27.41	N
ATOM	8031	HN ASN B 142	24.558	5.701	-56.561	1.00	27.33	H
ATOM	8032	HA ASN B 142	26.799	7.039	-58.073	1.00	27.33	H
ATOM	8033	HB1 ASN B 142	25.229	8.027	-59.324	1.00	27.33	H
ATOM	8034	HB2 ASN B 142	24.117	6.838	-58.603	1.00	27.33	H
ATOM	8035	1HD2 ASN B 142	24.539	10.041	-59.341	1.00	27.33	H
ATOM	8036	2HD2 ASN B 142	23.443	10.786	-58.045	1.00	27.33	H
ATOM	8037	N GLY B 143	25.948	8.040	-55.206	1.00	27.39	N
ATOM	8038	CA GLY B 143	26.363	8.954	-54.151	1.00	27.53	C
ATOM	8039	C GLY B 143	25.207	9.746	-53.615	1.00	27.62	C
ATOM	8040	O GLY B 143	25.195	10.089	-52.450	1.00	27.71	O
ATOM	8041	HN GLY B 143	25.460	7.126	-54.938	1.00	27.56	H
ATOM	8042	HA1 GLY B 143	26.803	8.377	-53.337	1.00	27.56	H
ATOM	8043	HA2 GLY B 143	27.106	9.642	-54.553	1.00	27.56	H
ATOM	8044	N SER B 144	24.244	10.067	-54.472	1.00	27.62	N
ATOM	8045	CA SER B 144	23.079	10.792	-54.024	1.00	27.72	C
ATOM	8046	C SER B 144	22.290	9.852	-53.125	1.00	27.67	C
ATOM	8047	O SER B 144	22.567	8.652	-53.072	1.00	27.54	O
ATOM	8048	CB SER B 144	22.230	11.306	-55.215	1.00	27.72	C
ATOM	8049	OG SER B 144	21.660	10.271	-56.028	1.00	27.56	O
ATOM	8050	HN SER B 144	24.333	9.786	-55.501	1.00	27.64	H
ATOM	8051	HA SER B 144	23.406	11.648	-53.433	1.00	27.64	H
ATOM	8052	HB1 SER B 144	21.417	11.913	-54.817	1.00	27.64	H
ATOM	8053	HB2 SER B 144	22.869	11.923	-55.847	1.00	27.64	H
ATOM	8054	HG SER B 144	22.428	9.680	-56.433	1.00	27.64	H
ATOM	8055	N LEU B 145	21.327	10.412	-52.406	1.00	27.79	N

ATOM	8056	CA	LEU B 145	20.351	9.618	-51.679	1.00	27.76	C
ATOM	8057	C	LEU B 145	19.359	8.964	-52.653	1.00	27.67	C
ATOM	8058	O	LEU B 145	18.666	8.022	-52.271	1.00	27.63	O
ATOM	8059	CB	LEU B 145	19.599	10.511	-50.709	1.00	27.95	C
ATOM	8060	CG	LEU B 145	18.879	9.902	-49.525	1.00	27.99	C
ATOM	8061	CD1	LEU B 145	19.854	9.275	-48.581	1.00	27.92	C
ATOM	8062	CD2	LEU B 145	18.113	11.023	-48.849	1.00	28.21	C
ATOM	8063	HN	LEU B 145	21.267	11.479	-52.360	1.00	27.87	H
ATOM	8064	HA	LEU B 145	20.869	8.839	-51.120	1.00	27.87	H
ATOM	8065	HB1	LEU B 145	20.323	11.219	-50.307	1.00	27.87	H
ATOM	8066	HB2	LEU B 145	18.850	11.048	-51.291	1.00	27.87	H
ATOM	8067	HG	LEU B 145	18.178	9.145	-49.877	1.00	27.86	H
ATOM	8068	1HD1	LEU B 145	19.317	8.843	-47.737	1.00	27.86	H
ATOM	8069	2HD1	LEU B 145	20.549	10.033	-48.219	1.00	27.86	H
ATOM	8070	3HD1	LEU B 145	20.408	8.491	-49.098	1.00	27.86	H
ATOM	8071	1HD2	LEU B 145	17.576	10.628	-47.986	1.00	27.86	H
ATOM	8072	2HD2	LEU B 145	17.401	11.453	-49.553	1.00	27.86	H
ATOM	8073	3HD2	LEU B 145	18.810	11.794	-48.521	1.00	27.86	H
ATOM	8074	N	GLU B 146	19.299	9.482	-53.895	1.00	33.93	N
ATOM	8075	CA	GLU B 146	18.397	9.007	-54.971	1.00	33.84	C
ATOM	8076	C	GLU B 146	18.884	7.747	-55.666	1.00	33.68	C
ATOM	8077	O	GLU B 146	18.079	6.904	-56.054	1.00	33.63	O
ATOM	8078	CB	GLU B 146	18.207	10.095	-56.052	1.00	33.88	C
ATOM	8079	CG	GLU B 146	17.211	11.220	-55.662	1.00	34.05	C
ATOM	8080	CD	GLU B 146	17.748	12.134	-54.549	1.00	34.22	C
ATOM	8081	OE1	GLU B 146	18.975	12.069	-54.292	1.00	34.20	O
ATOM	8082	OE2	GLU B 146	16.964	12.922	-53.949	1.00	34.40	O

ATOM	8083	HN	GLU B 146	19.952	10.298	-54.122	1.00	33.98	H
ATOM	8084	HA	GLU B 146	17.424	8.795	-54.528	1.00	33.98	H
ATOM	8085	HB1	GLU B 146	19.177	10.552	-56.250	1.00	33.98	H
ATOM	8086	HB2	GLU B 146	17.840	9.614	-56.959	1.00	33.98	H
ATOM	8087	HG1	GLU B 146	17.010	11.828	-56.544	1.00	33.98	H
ATOM	8088	HG2	GLU B 146	16.285	10.760	-55.318	1.00	33.98	H
ATOM	8089	N	GLY B 147	20.200	7.644	-55.827	1.00	27.35	N
ATOM	8090	CA	GLY B 147	20.835	6.508	-56.515	1.00	27.23	C
ATOM	8091	C	GLY B 147	21.542	5.507	-55.601	1.00	27.20	C
ATOM	8092	O	GLY B 147	22.267	4.619	-56.070	1.00	27.12	O
ATOM	8093	HN	GLY B 147	20.825	8.421	-55.439	1.00	27.23	H
ATOM	8094	HA1	GLY B 147	20.062	5.973	-57.067	1.00	27.23	H
ATOM	8095	HA2	GLY B 147	21.571	6.906	-57.213	1.00	27.23	H
ATOM	8096	N	LEU B 148	21.295	5.641	-54.295	1.00	27.26	N
ATOM	8097	CA	LEU B 148	21.950	4.845	-53.269	1.00	27.24	C
ATOM	8098	C	LEU B 148	21.999	3.372	-53.668	1.00	27.15	C
ATOM	8099	O	LEU B 148	23.069	2.745	-53.674	1.00	27.10	O
ATOM	8100	CB	LEU B 148	21.213	5.047	-51.924	1.00	27.32	C
ATOM	8101	CG	LEU B 148	21.600	4.258	-50.658	1.00	27.30	C
ATOM	8102	CD1	LEU B 148	23.054	3.788	-50.661	1.00	27.22	C
ATOM	8103	CD2	LEU B 148	21.336	5.125	-49.445	1.00	27.41	C
ATOM	8104	HN	LEU B 148	20.577	6.373	-53.987	1.00	27.25	H
ATOM	8105	HA	LEU B 148	22.973	5.204	-53.157	1.00	27.25	H
ATOM	8106	HB1	LEU B 148	21.321	6.102	-51.672	1.00	27.25	H
ATOM	8107	HB2	LEU B 148	20.163	4.824	-52.114	1.00	27.25	H
ATOM	8108	HG	LEU B 148	20.958	3.379	-50.595	1.00	27.25	H
ATOM	8109	1HD1	LEU B 148	23.261	3.239	-49.742	1.00	27.25	H

ATOM	8110	2HD1	LEU B 148	23.716	4.652	-50.724	1.00	27.25	H
ATOM	8111	3HD1	LEU B 148	23.224	3.137	-51.518	1.00	27.25	H
ATOM	8112	1HD2	LEU B 148	21.606	4.578	-48.541	1.00	27.25	H
ATOM	8113	2HD2	LEU B 148	20.279	5.387	-49.408	1.00	27.25	H
ATOM	8114	3HD2	LEU B 148	21.933	6.034	-49.511	1.00	27.25	H
ATOM	8115	N	ASP B 149	20.842	2.840	-54.045	1.00	27.15	N
ATOM	8116	CA	ASP B 149	20.692	1.409	-54.264	1.00	27.10	C
ATOM	8117	C	ASP B 149	20.833	1.042	-55.754	1.00	27.06	C
ATOM	8118	O	ASP B 149	20.360	-0.037	-56.149	1.00	27.06	O
ATOM	8119	CB	ASP B 149	19.332	0.950	-53.684	1.00	27.17	C
ATOM	8120	CG	ASP B 149	19.469	-0.042	-52.508	1.00	27.18	C
ATOM	8121	OD1	ASP B 149	20.458	-0.796	-52.453	1.00	27.13	O
ATOM	8122	OD2	ASP B 149	18.564	-0.093	-51.655	1.00	27.25	O
ATOM	8123	HN	ASP B 149	19.998	3.481	-54.192	1.00	27.14	H
ATOM	8124	HA	ASP B 149	21.483	0.899	-53.714	1.00	27.14	H
ATOM	8125	HB1	ASP B 149	18.792	1.829	-53.333	1.00	27.14	H
ATOM	8126	HB2	ASP B 149	18.763	0.467	-54.479	1.00	27.14	H
ATOM	8127	N	ASN B 150	21.457	1.933	-56.569	1.00	27.03	N
ATOM	8128	CA	ASN B 150	21.755	1.649	-58.005	1.00	26.99	C
ATOM	8129	C	ASN B 150	22.678	0.450	-58.008	1.00	26.97	C
ATOM	8130	O	ASN B 150	23.762	0.528	-57.460	1.00	26.97	O
ATOM	8131	CB	ASN B 150	22.489	2.800	-58.721	1.00	26.98	C
ATOM	8132	CG	ASN B 150	21.562	3.911	-59.245	1.00	26.99	C
ATOM	8133	OD1	ASN B 150	20.646	4.338	-58.560	1.00	27.04	O
ATOM	8134	ND2	ASN B 150	21.850	4.413	-60.458	1.00	26.96	N
ATOM	8135	HN	ASN B 150	21.748	2.880	-56.164	1.00	26.99	H
ATOM	8136	HA	ASN B 150	20.833	1.409	-58.535	1.00	26.99	H

ATOM	8137	HB1 ASN B 150	23.193	3.246	-58.018	1.00	26.99	H
ATOM	8138	HB2 ASN B 150	23.035	2.383	-59.567	1.00	26.99	H
ATOM	8139	1HD2 ASN B 150	22.688	4.038	-61.007	1.00	26.99	H
ATOM	8140	2HD2 ASN B 150	21.241	5.188	-60.875	1.00	26.99	H
ATOM	8141	N GLN B 151	22.260	-0.671	-58.587	1.00	26.97	N
ATOM	8142	CA GLN B 151	23.041	-1.933	-58.453	1.00	26.99	C
ATOM	8143	C GLN B 151	24.070	-2.085	-59.593	1.00	26.98	C
ATOM	8144	O GLN B 151	24.684	-3.137	-59.774	1.00	27.02	O
ATOM	8145	CB GLN B 151	22.116	-3.176	-58.397	1.00	27.04	C
ATOM	8146	CG GLN B 151	21.007	-3.187	-57.287	1.00	27.08	C
ATOM	8147	CD GLN B 151	21.472	-3.554	-55.839	1.00	27.09	C
ATOM	8148	OE1 GLN B 151	20.873	-3.090	-54.864	1.00	27.10	O
ATOM	8149	NE2 GLN B 151	22.494	-4.407	-55.713	1.00	27.09	N
ATOM	8150	HN GLN B 151	21.353	-0.667	-59.155	1.00	27.04	H
ATOM	8151	HA GLN B 151	23.591	-1.885	-57.513	1.00	27.04	H
ATOM	8152	HB1 GLN B 151	21.616	-3.258	-59.362	1.00	27.04	H
ATOM	8153	HB2 GLN B 151	22.748	-4.050	-58.239	1.00	27.04	H
ATOM	8154	HG1 GLN B 151	20.565	-2.191	-57.250	1.00	27.04	H
ATOM	8155	HG2 GLN B 151	20.248	-3.911	-57.584	1.00	27.04	H
ATOM	8156	1HE2 GLN B 151	22.963	-4.813	-56.585	1.00	27.04	H
ATOM	8157	2HE2 GLN B 151	22.843	-4.684	-54.740	1.00	27.04	H
ATOM	8158	N GLU B 152	24.246	-1.028	-60.370	1.00	41.10	N
ATOM	8159	CA GLU B 152	24.967	-1.133	-61.601	1.00	41.10	C
ATOM	8160	C GLU B 152	25.490	0.265	-61.922	1.00	41.08	C
ATOM	8161	O GLU B 152	24.767	1.262	-61.750	1.00	41.06	O
ATOM	8162	CB GLU B 152	24.005	-1.651	-62.665	1.00	41.10	C
ATOM	8163	CG GLU B 152	24.545	-2.807	-63.455	1.00	41.15	C

ATOM	8164	CD	GLU B 152	25.659	-2.372	-64.396	1.00	41.16	C
ATOM	8165	OE1	GLU B 152	25.354	-1.699	-65.430	1.00	41.12	O
ATOM	8166	OE2	GLU B 152	26.836	-2.700	-64.099	1.00	41.21	O
ATOM	8167	HN	GLU B 152	23.843	-0.082	-60.073	1.00	41.12	H
ATOM	8168	HA	GLU B 152	25.801	-1.825	-61.485	1.00	41.12	H
ATOM	8169	HB1	GLU B 152	23.087	-1.970	-62.172	1.00	41.12	H
ATOM	8170	HB2	GLU B 152	23.784	-0.836	-63.355	1.00	41.12	H
ATOM	8171	HG1	GLU B 152	24.937	-3.554	-62.765	1.00	41.12	H
ATOM	8172	HG2	GLU B 152	23.736	-3.242	-64.042	1.00	41.12	H
ATOM	8173	N	GLY B 153	26.756	0.337	-62.342	1.00	26.97	N
ATOM	8174	CA	GLY B 153	27.411	1.604	-62.652	1.00	26.98	C
ATOM	8175	C	GLY B 153	28.032	2.228	-61.419	1.00	27.02	C
ATOM	8176	O	GLY B 153	28.946	1.642	-60.795	1.00	27.05	O
ATOM	8177	HN	GLY B 153	27.312	-0.570	-62.456	1.00	27.01	H
ATOM	8178	HA1	GLY B 153	28.193	1.426	-63.390	1.00	27.01	H
ATOM	8179	HA2	GLY B 153	26.673	2.292	-63.063	1.00	27.01	H
ATOM	8180	N	GLY B 154	27.543	3.430	-61.102	1.00	51.59	N
ATOM	8181	CA	GLY B 154	27.942	4.166	-59.902	1.00	51.64	C
ATOM	8182	C	GLY B 154	29.330	4.795	-59.904	1.00	51.73	C
ATOM	8183	O	GLY B 154	29.902	5.073	-60.974	1.00	51.76	O
ATOM	8184	HN	GLY B 154	26.825	3.876	-61.757	1.00	51.68	H
ATOM	8185	HA1	GLY B 154	27.218	4.967	-59.753	1.00	51.68	H
ATOM	8186	HA2	GLY B 154	27.897	3.473	-59.062	1.00	51.68	H
ATOM	8187	N	VAL B 155	29.867	5.006	-58.700	1.00	27.21	N
ATOM	8188	CA	VAL B 155	31.159	5.652	-58.520	1.00	27.31	C
ATOM	8189	C	VAL B 155	32.311	4.656	-58.524	1.00	27.32	C
ATOM	8190	O	VAL B 155	33.446	5.055	-58.365	1.00	27.41	O



ATOM	8191	CB	VAL B 155	31.177	6.430	-57.202	1.00	27.38	C
ATOM	8192	CG1	VAL B 155	29.933	7.321	-57.071	1.00	27.40	C
ATOM	8193	CG2	VAL B 155	31.258	5.471	-56.018	1.00	27.32	C
ATOM	8194	HN	VAL B 155	29.326	4.688	-57.833	1.00	27.34	H
ATOM	8195	HA	VAL B 155	31.309	6.356	-59.338	1.00	27.34	H
ATOM	8196	HB	VAL B 155	32.061	7.068	-57.190	1.00	27.34	H
ATOM	8197	1HG1	VAL B 155	29.971	7.862	-56.126	1.00	27.34	H
ATOM	8198	2HG1	VAL B 155	29.037	6.701	-57.098	1.00	27.34	H
ATOM	8199	3HG1	VAL B 155	29.907	8.033	-57.896	1.00	27.34	H
ATOM	8200	1HG2	VAL B 155	31.270	6.040	-55.089	1.00	27.34	H
ATOM	8201	2HG2	VAL B 155	32.170	4.878	-56.092	1.00	27.34	H
ATOM	8202	3HG2	VAL B 155	30.392	4.809	-56.027	1.00	27.34	H
ATOM	8203	N	CYS B 156	31.998	3.371	-58.660	1.00	36.62	N
ATOM	8204	CA	CYS B 156	32.976	2.309	-58.919	1.00	36.63	C
ATOM	8205	C	CYS B 156	33.490	2.416	-60.375	1.00	36.69	C
ATOM	8206	O	CYS B 156	34.682	2.236	-60.670	1.00	36.78	O
ATOM	8207	CB	CYS B 156	32.265	0.955	-58.665	1.00	36.55	C
ATOM	8208	SG	CYS B 156	33.012	-0.698	-59.139	1.00	36.58	S
ATOM	8209	HN	CYS B 156	30.968	3.094	-58.575	1.00	36.64	H
ATOM	8210	HA	CYS B 156	33.814	2.413	-58.230	1.00	36.64	H
ATOM	8211	HB1	CYS B 156	32.087	0.907	-57.591	1.00	36.64	H
ATOM	8212	HB2	CYS B 156	31.311	1.014	-59.189	1.00	36.64	H
ATOM	8213	N	GLN B 157	32.568	2.750	-61.274	1.00	50.23	N
ATOM	8214	CA	GLN B 157	32.764	2.660	-62.710	1.00	50.26	C
ATOM	8215	C	GLN B 157	32.935	4.025	-63.367	1.00	50.31	C
ATOM	8216	O	GLN B 157	32.888	4.135	-64.581	1.00	50.32	O
ATOM	8217	CB	GLN B 157	31.516	2.003	-63.307	1.00	50.16	C

ATOM	8218	CG	GLN B 157	31.690	1.443	-64.713	1.00	50.18	C
ATOM	8219	CD	GLN B 157	30.377	1.300	-65.511	1.00	50.10	C
ATOM	8220	OE1	GLN B 157	29.399	0.719	-65.030	1.00	50.04	O
ATOM	8221	NE2	GLN B 157	30.382	1.792	-66.756	1.00	50.10	N
ATOM	8222	HN	GLN B 157	31.624	3.107	-60.917	1.00	50.19	H
ATOM	8223	HA	GLN B 157	33.637	2.042	-62.921	1.00	50.19	H
ATOM	8224	HB1	GLN B 157	31.220	1.184	-62.652	1.00	50.19	H
ATOM	8225	HB2	GLN B 157	30.723	2.750	-63.337	1.00	50.19	H
ATOM	8226	HG1	GLN B 157	32.353	2.109	-65.265	1.00	50.19	H
ATOM	8227	HG2	GLN B 157	32.149	0.457	-64.633	1.00	50.19	H
ATOM	8228	1HE2	GLN B 157	31.266	2.253	-67.146	1.00	50.19	H
ATOM	8229	2HE2	GLN B 157	29.502	1.724	-67.362	1.00	50.19	H
ATOM	8230	N	THR B 158	33.119	5.085	-62.594	1.00	27.41	N
ATOM	8231	CA	THR B 158	33.163	6.423	-63.206	1.00	27.48	C
ATOM	8232	C	THR B 158	34.036	7.332	-62.348	1.00	27.62	C
ATOM	8233	O	THR B 158	34.845	8.103	-62.892	1.00	27.75	O
ATOM	8234	CB	THR B 158	31.766	6.944	-63.470	1.00	27.40	C
ATOM	8235	OG1	THR B 158	31.063	6.995	-62.229	1.00	27.36	O
ATOM	8236	CG2	THR B 158	31.021	6.010	-64.452	1.00	27.28	C
ATOM	8237	HN	THR B 158	33.234	4.970	-61.536	1.00	27.47	H
ATOM	8238	HA	THR B 158	33.657	6.320	-64.172	1.00	27.47	H
ATOM	8239	HB	THR B 158	31.826	7.946	-63.895	1.00	27.47	H
ATOM	8240	HG1	THR B 158	31.015	6.032	-61.814	1.00	27.47	H
ATOM	8241	1HG2	THR B 158	30.018	6.397	-64.632	1.00	27.47	H
ATOM	8242	2HG2	THR B 158	30.952	5.011	-64.022	1.00	27.47	H
ATOM	8243	3HG2	THR B 158	31.567	5.963	-65.394	1.00	27.47	H
ATOM	8244	N	ARG B 159	33.911	7.213	-61.020	1.00	27.60	N

ATOM	8245	CA	ARG B 159	35.115	7.324	-60.186	1.00	27.71	C
ATOM	8246	C	ARG B 159	35.516	5.858	-59.979	1.00	27.63	C
ATOM	8247	O	ARG B 159	34.706	4.951	-60.235	1.00	27.51	O
ATOM	8248	CB	ARG B 159	34.893	8.071	-58.866	1.00	27.76	C
ATOM	8249	CG	ARG B 159	35.938	9.168	-58.618	1.00	27.96	C
ATOM	8250	CD	ARG B 159	35.629	9.970	-57.351	1.00	28.03	C
ATOM	8251	NE	ARG B 159	34.849	11.193	-57.589	1.00	28.12	N
ATOM	8252	CZ	ARG B 159	35.365	12.396	-57.849	1.00	28.32	C
ATOM	8253	NH1	ARG B 159	36.672	12.581	-57.928	1.00	28.47	N
ATOM	8254	NH2	ARG B 159	34.569	13.431	-58.042	1.00	28.40	N
ATOM	8255	HN	ARG B 159	32.953	7.041	-60.575	1.00	27.96	H
ATOM	8256	HA	ARG B 159	35.896	7.830	-60.754	1.00	27.96	H
ATOM	8257	HB1	ARG B 159	33.905	8.531	-58.888	1.00	27.96	H
ATOM	8258	HB2	ARG B 159	34.942	7.353	-58.048	1.00	27.96	H
ATOM	8259	HG1	ARG B 159	36.918	8.704	-58.512	1.00	27.96	H
ATOM	8260	HG2	ARG B 159	35.947	9.846	-59.471	1.00	27.96	H
ATOM	8261	HD1	ARG B 159	35.065	9.331	-56.671	1.00	27.96	H
ATOM	8262	HD2	ARG B 159	36.574	10.252	-56.886	1.00	27.96	H
ATOM	8263	HE	ARG B 159	33.783	11.112	-57.551	1.00	27.96	H
ATOM	8264	1HH1	ARG B 159	37.339	11.757	-57.782	1.00	27.96	H
ATOM	8265	2HH1	ARG B 159	37.063	13.555	-58.138	1.00	27.96	H
ATOM	8266	1HH2	ARG B 159	33.508	13.307	-57.990	1.00	27.96	H
ATOM	8267	2HH2	ARG B 159	34.985	14.394	-58.250	1.00	27.96	H
ATOM	8268	N	ALA B 160	36.763	5.627	-59.574	1.00	27.72	N
ATOM	8269	CA	ALA B 160	37.261	4.286	-59.269	1.00	27.67	C
ATOM	8270	C	ALA B 160	37.138	4.006	-57.764	1.00	27.61	C
ATOM	8271	O	ALA B 160	38.081	3.553	-57.122	1.00	27.64	O

ATOM	8272	CB	ALA B 160	38.703	4.149	-59.745	1.00	27.81	C
ATOM	8273	HN	ALA B 160	37.429	6.458	-59.467	1.00	27.69	H
ATOM	8274	HA	ALA B 160	36.650	3.561	-59.806	1.00	27.69	H
ATOM	8275	HB1	ALA B 160	39.069	3.148	-59.515	1.00	27.69	H
ATOM	8276	HB2	ALA B 160	39.325	4.887	-59.239	1.00	27.69	H
ATOM	8277	HB3	ALA B 160	38.748	4.313	-60.822	1.00	27.69	H
ATOM	8278	N	MET B 161	35.964	4.310	-57.214	1.00	27.53	N
ATOM	8279	CA	MET B 161	35.635	3.992	-55.835	1.00	27.46	C
ATOM	8280	C	MET B 161	35.528	2.478	-55.669	1.00	27.35	C
ATOM	8281	O	MET B 161	34.439	1.897	-55.848	1.00	27.27	O
ATOM	8282	CB	MET B 161	34.298	4.617	-55.437	1.00	27.41	C
ATOM	8283	CG	MET B 161	34.371	6.054	-54.992	1.00	27.53	C
ATOM	8284	SD	MET B 161	33.560	6.095	-53.391	1.00	27.48	S
ATOM	8285	CE	MET B 161	34.649	7.195	-52.527	1.00	27.64	C
ATOM	8286	HN	MET B 161	35.232	4.810	-57.813	1.00	27.46	H
ATOM	8287	HA	MET B 161	36.419	4.372	-55.180	1.00	27.46	H
ATOM	8288	HB1	MET B 161	33.631	4.564	-56.298	1.00	27.46	H
ATOM	8289	HB2	MET B 161	33.882	4.031	-54.618	1.00	27.46	H
ATOM	8290	HG1	MET B 161	35.409	6.374	-54.902	1.00	27.46	H
ATOM	8291	HG2	MET B 161	33.851	6.700	-55.700	1.00	27.46	H
ATOM	8292	HE1	MET B 161	34.292	7.334	-51.507	1.00	27.46	H
ATOM	8293	HE2	MET B 161	34.673	8.158	-53.037	1.00	27.46	H
ATOM	8294	HE3	MET B 161	35.653	6.771	-52.505	1.00	27.46	H
ATOM	8295	N	LYS B 162	36.674	1.868	-55.338	1.00	37.41	N
ATOM	8296	CA	LYS B 162	36.831	0.405	-55.218	1.00	37.35	C
ATOM	8297	C	LYS B 162	38.155	0.083	-54.510	1.00	37.40	C
ATOM	8298	O	LYS B 162	39.235	0.446	-54.995	1.00	37.52	O

ATOM	8299	CB	LYS B 162	36.778	-0.287	-56.613	1.00	37.38	C
ATOM	8300	CG	LYS B 162	37.892	0.135	-57.571	1.00	37.51	C
ATOM	8301	CD	LYS B 162	37.432	0.220	-58.993	1.00	37.53	C
ATOM	8302	CE	LYS B 162	37.721	-1.055	-59.763	1.00	37.57	C
ATOM	8303	NZ	LYS B 162	37.441	-0.872	-61.218	1.00	37.61	N1+
ATOM	8304	HN	LYS B 162	37.531	2.481	-55.148	1.00	37.48	H
ATOM	8305	HA	LYS B 162	36.012	0.019	-54.610	1.00	37.48	H
ATOM	8306	HB1	LYS B 162	36.849	-1.364	-56.462	1.00	37.48	H
ATOM	8307	HB2	LYS B 162	35.821	-0.047	-57.076	1.00	37.48	H
ATOM	8308	HG1	LYS B 162	38.262	1.114	-57.266	1.00	37.48	H
ATOM	8309	HG2	LYS B 162	38.699	-0.595	-57.509	1.00	37.48	H
ATOM	8310	HD1	LYS B 162	36.357	0.402	-59.004	1.00	37.48	H
ATOM	8311	HD2	LYS B 162	37.946	1.049	-59.480	1.00	37.48	H
ATOM	8312	HE1	LYS B 162	38.770	-1.321	-59.632	1.00	37.48	H
ATOM	8313	HE2	LYS B 162	37.091	-1.856	-59.376	1.00	37.48	H
ATOM	8314	HZ1	LYS B 162	37.652	-1.782	-61.739	1.00	37.48	H
ATOM	8315	HZ2	LYS B 162	38.059	-0.089	-61.605	1.00	37.48	H
ATOM	8316	HZ3	LYS B 162	36.412	-0.614	-61.354	1.00	37.48	H
ATOM	8317	N	ILE B 163	38.094	-0.592	-53.371	1.00	27.30	N
ATOM	8318	CA	ILE B 163	39.331	-0.981	-52.711	1.00	27.34	C
ATOM	8319	C	ILE B 163	39.722	-2.349	-53.247	1.00	27.35	C
ATOM	8320	O	ILE B 163	38.879	-3.240	-53.323	1.00	27.29	O
ATOM	8321	CB	ILE B 163	39.200	-0.965	-51.157	1.00	27.25	C
ATOM	8322	CG1	ILE B 163	38.616	0.354	-50.694	1.00	27.25	C
ATOM	8323	CG2	ILE B 163	40.540	-1.141	-50.480	1.00	27.29	C
ATOM	8324	CD1	ILE B 163	38.809	0.589	-49.249	1.00	27.21	C
ATOM	8325	HN	ILE B 163	37.147	-0.848	-52.942	1.00	27.28	H

ATOM	8326	HA	ILE B 163	40.107	-0.270	-52.995	1.00	27.28	H
ATOM	8327	HB	ILE B 163	38.538	-1.774	-50.849	1.00	27.28	H
ATOM	8328	1HG1	ILE B 163	39.098	1.161	-51.246	1.00	27.29	H
ATOM	8329	2HG1	ILE B 163	37.547	0.356	-50.907	1.00	27.29	H
ATOM	8330	1HG2	ILE B 163	40.406	-1.124	-49.398	1.00	27.29	H
ATOM	8331	2HG2	ILE B 163	41.206	-0.331	-50.776	1.00	27.29	H
ATOM	8332	3HG2	ILE B 163	40.975	-2.095	-50.777	1.00	27.29	H
ATOM	8333	1HD1	ILE B 163	38.371	1.548	-48.975	1.00	27.29	H
ATOM	8334	2HD1	ILE B 163	39.875	0.599	-49.021	1.00	27.29	H
ATOM	8335	3HD1	ILE B 163	38.324	-0.207	-48.683	1.00	27.29	H
ATOM	8336	N	LEU B 164	40.976	-2.493	-53.673	1.00	30.73	N
ATOM	8337	CA	LEU B 164	41.593	-3.829	-53.848	1.00	30.77	C
ATOM	8338	C	LEU B 164	42.534	-4.156	-52.643	1.00	30.76	C
ATOM	8339	O	LEU B 164	43.562	-3.485	-52.405	1.00	30.84	O
ATOM	8340	CB	LEU B 164	42.344	-3.979	-55.185	1.00	30.93	C
ATOM	8341	CG	LEU B 164	43.205	-5.256	-55.369	1.00	31.03	C
ATOM	8342	CD1	LEU B 164	42.532	-6.568	-54.955	1.00	30.96	C
ATOM	8343	CD2	LEU B 164	43.648	-5.355	-56.807	1.00	31.20	C
ATOM	8344	HN	LEU B 164	41.554	-1.620	-53.895	1.00	30.90	H
ATOM	8345	HA	LEU B 164	40.788	-4.564	-53.842	1.00	30.90	H
ATOM	8346	HB1	LEU B 164	41.601	-3.965	-55.983	1.00	30.90	H
ATOM	8347	HB2	LEU B 164	43.005	-3.119	-55.289	1.00	30.90	H
ATOM	8348	HG	LEU B 164	44.100	-5.139	-54.758	1.00	30.90	H
ATOM	8349	1HD1	LEU B 164	43.218	-7.398	-55.124	1.00	30.90	H
ATOM	8350	2HD1	LEU B 164	41.630	-6.717	-55.548	1.00	30.90	H
ATOM	8351	3HD1	LEU B 164	42.268	-6.524	-53.898	1.00	30.90	H
ATOM	8352	1HD2	LEU B 164	44.254	-6.251	-56.940	1.00	30.90	H

ATOM	8353	2HD2 LEU B 164	44.238	-4.476	-57.067	1.00	30.90	H
ATOM	8354	3HD2 LEU B 164	42.773	-5.409	-57.454	1.00	30.90	H
ATOM	8355	N MET B 165	42.168	-5.196	-51.894	1.00	27.40	N
ATOM	8356	CA MET B 165	42.939	-5.617	-50.750	1.00	27.36	C
ATOM	8357	C MET B 165	43.815	-6.776	-51.176	1.00	27.47	C
ATOM	8358	O MET B 165	43.306	-7.884	-51.313	1.00	27.46	O
ATOM	8359	CB MET B 165	41.993	-6.085	-49.643	1.00	27.20	C
ATOM	8360	CG MET B 165	41.354	-4.981	-48.797	1.00	27.11	C
ATOM	8361	SD MET B 165	40.278	-5.619	-47.476	1.00	26.94	S
ATOM	8362	CE MET B 165	38.761	-5.882	-48.377	1.00	26.94	C
ATOM	8363	HN MET B 165	41.278	-5.733	-52.148	1.00	27.24	H
ATOM	8364	HA MET B 165	43.556	-4.793	-50.391	1.00	27.24	H
ATOM	8365	HB1 MET B 165	41.190	-6.655	-50.110	1.00	27.24	H
ATOM	8366	HB2 MET B 165	42.558	-6.734	-48.973	1.00	27.24	H
ATOM	8367	HG1 MET B 165	42.149	-4.391	-48.341	1.00	27.24	H
ATOM	8368	HG2 MET B 165	40.758	-4.345	-49.451	1.00	27.24	H
ATOM	8369	HE1 MET B 165	38.000	-6.274	-47.702	1.00	27.23	H
ATOM	8370	HE2 MET B 165	38.935	-6.597	-49.181	1.00	27.23	H
ATOM	8371	HE3 MET B 165	38.420	-4.937	-48.799	1.00	27.23	H
ATOM	8372	N LYS B 166	45.113	-6.536	-51.390	1.00	27.60	N
ATOM	8373	CA LYS B 166	46.080	-7.617	-51.729	1.00	27.73	C
ATOM	8374	C LYS B 166	46.539	-8.292	-50.445	1.00	27.64	C
ATOM	8375	O LYS B 166	47.482	-7.838	-49.797	1.00	27.65	O
ATOM	8376	CB LYS B 166	47.325	-7.078	-52.446	1.00	27.92	C
ATOM	8377	CG LYS B 166	47.082	-6.255	-53.729	1.00	28.02	C
ATOM	8378	CD LYS B 166	47.596	-6.959	-55.006	1.00	28.22	C
ATOM	8379	CE LYS B 166	46.466	-7.593	-55.766	1.00	28.19	C

ATOM	8380	NZ	LYS	B	166	45.799	-6.560	-56.596	1.00	28.17	N1+
ATOM	8381	HN	LYS	B	166	45.470	-5.530	-51.315	1.00	27.90	H
ATOM	8382	HA	LYS	B	166	45.588	-8.352	-52.366	1.00	27.90	H
ATOM	8383	HB1	LYS	B	166	47.862	-6.442	-51.742	1.00	27.90	H
ATOM	8384	HB2	LYS	B	166	47.948	-7.932	-52.714	1.00	27.90	H
ATOM	8385	HG1	LYS	B	166	46.011	-6.084	-53.834	1.00	27.90	H
ATOM	8386	HG2	LYS	B	166	47.595	-5.298	-53.630	1.00	27.90	H
ATOM	8387	HD1	LYS	B	166	48.086	-6.224	-55.645	1.00	27.90	H
ATOM	8388	HD2	LYS	B	166	48.312	-7.731	-54.723	1.00	27.90	H
ATOM	8389	HE1	LYS	B	166	46.856	-8.382	-56.409	1.00	27.90	H
ATOM	8390	HE2	LYS	B	166	45.748	-8.017	-55.065	1.00	27.90	H
ATOM	8391	HZ1	LYS	B	166	44.993	-7.005	-57.140	1.00	27.90	H
ATOM	8392	HZ2	LYS	B	166	46.505	-6.143	-57.283	1.00	27.90	H
ATOM	8393	HZ3	LYS	B	166	45.417	-5.786	-55.964	1.00	27.90	H
ATOM	8394	N	VAL	B	167	45.856	-9.360	-50.048	1.00	65.77	N
ATOM	8395	CA	VAL	B	167	46.125	-9.959	-48.729	1.00	65.66	C
ATOM	8396	C	VAL	B	167	47.397	-10.805	-48.794	1.00	65.79	C
ATOM	8397	O	VAL	B	167	47.704	-11.416	-49.852	1.00	65.97	O
ATOM	8398	CB	VAL	B	167	44.918	-10.768	-48.161	1.00	65.53	C
ATOM	8399	CG1	VAL	B	167	45.386	-11.958	-47.272	1.00	65.50	C
ATOM	8400	CG2	VAL	B	167	44.015	-9.822	-47.379	1.00	65.36	C
ATOM	8401	HN	VAL	B	167	45.110	-9.785	-50.686	1.00	65.65	H
ATOM	8402	HA	VAL	B	167	46.318	-9.140	-48.036	1.00	65.65	H
ATOM	8403	HB	VAL	B	167	44.349	-11.170	-49.000	1.00	65.65	H
ATOM	8404	1HG1	VAL	B	167	44.516	-12.496	-46.896	1.00	65.65	H
ATOM	8405	2HG1	VAL	B	167	45.968	-11.578	-46.432	1.00	65.65	H
ATOM	8406	3HG1	VAL	B	167	46.002	-12.634	-47.864	1.00	65.65	H



ATOM	8407	1HG2 VAL B 167	43.167	-10.377	-46.977	1.00	65.65	H
ATOM	8408	2HG2 VAL B 167	43.653	-9.035	-48.041	1.00	65.65	H
ATOM	8409	3HG2 VAL B 167	44.578	-9.376	-46.559	1.00	65.65	H
ATOM	8410	N GLY B 168	48.129	-10.808	-47.672	1.00	27.51	N
ATOM	8411	CA GLY B 168	49.370	-11.557	-47.556	1.00	27.62	C
ATOM	8412	C GLY B 168	50.449	-10.957	-48.447	1.00	27.83	C
ATOM	8413	O GLY B 168	50.332	-10.914	-49.686	1.00	27.98	O
ATOM	8414	HN GLY B 168	47.789	-10.239	-46.832	1.00	27.74	H
ATOM	8415	HA1 GLY B 168	49.707	-11.531	-46.520	1.00	27.74	H
ATOM	8416	HA2 GLY B 168	49.193	-12.590	-47.855	1.00	27.74	H
ATOM	8417	HC GLY B 168	51.351	-10.553	-47.987	1.00	27.74	H
TER	8418	GLY B 168						
HETATM	1	C1 LIG d 0	28.952	-17.994	-35.602	0.00	0.00	C
HETATM	2	C2 LIG d 0	29.030	-18.924	-36.788	0.00	0.00	C
HETATM	3	N4 LIG d 0	29.730	-18.444	-37.918	0.00	0.00	N
HETATM	4	C11 LIG d 0	29.479	-16.759	-35.727	0.00	0.00	C
HETATM	5	C14 LIG d 0	30.236	-17.153	-37.969	0.00	0.00	C
HETATM	6	O15 LIG d 0	28.529	-20.047	-36.721	0.00	0.00	O
HETATM	7	C16 LIG d 0	30.112	-16.316	-36.939	0.00	0.00	C
HETATM	8	C8 LIG d 0	29.949	-19.301	-39.114	0.00	0.00	C
HETATM	9	C5 LIG d 0	30.537	-20.692	-38.763	0.00	0.00	C
HETATM	10	N3 LIG d 0	29.899	-21.875	-39.196	0.00	0.00	N
HETATM	11	C6 LIG d 0	28.589	-21.959	-39.896	0.00	0.00	C
HETATM	12	C9 LIG d 0	30.342	-23.090	-38.496	0.00	0.00	C
HETATM	13	C13 LIG d 0	28.176	-23.414	-40.346	0.00	0.00	C
HETATM	14	N10 LIG d 0	28.501	-24.510	-39.406	0.00	0.00	N
HETATM	15	C20 LIG d 0	29.950	-24.426	-39.142	0.00	0.00	C

HETATM	16	C23	LIG	d	0	28.146	-25.813	-39.976	0.00	0.00	C
HETATM	17	O17	LIG	d	0	31.583	-20.749	-38.103	0.00	0.00	O
HETATM	18	C18	LIG	d	0	28.493	-21.103	-41.156	0.00	0.00	C
HETATM	19	C24	LIG	d	0	29.398	-21.318	-42.210	0.00	0.00	C
HETATM	20	C28	LIG	d	0	29.358	-20.523	-43.356	0.00	0.00	C
HETATM	21	C33	LIG	d	0	28.413	-19.506	-43.464	0.00	0.00	C
HETATM	22	C29	LIG	d	0	27.521	-19.268	-42.420	0.00	0.00	C
HETATM	23	C25	LIG	d	0	27.569	-20.051	-41.266	0.00	0.00	C
HETATM	24	C7	LIG	d	0	28.424	-18.327	-34.232	0.00	0.00	C
HETATM	25	N12	LIG	d	0	27.348	-19.173	-34.116	0.00	0.00	N
HETATM	26	H7	LIG	d	0	26.937	-19.540	-34.971	0.00	0.00	H
HETATM	27	O19	LIG	d	0	28.961	-17.857	-33.225	0.00	0.00	O
HETATM	28	C21	LIG	d	0	26.870	-19.666	-32.832	0.00	0.00	C
HETATM	29	C22	LIG	d	0	25.909	-20.825	-32.931	0.00	0.00	C
HETATM	30	C26	LIG	d	0	25.298	-21.141	-34.155	0.00	0.00	C
HETATM	31	C30	LIG	d	0	24.336	-22.151	-34.232	0.00	0.00	C
HETATM	32	C32	LIG	d	0	23.985	-22.866	-33.089	0.00	0.00	C
HETATM	33	C31	LIG	d	0	24.582	-22.567	-31.865	0.00	0.00	C
HETATM	34	C27	LIG	d	0	25.546	-21.557	-31.788	0.00	0.00	C
END											

**Top2-combine-coordinates**

ATOM	1	N	ILE	A	188	32.653	-16.268	-1.319	1.00	51.04	N1+
ATOM	2	CA	ILE	A	188	32.633	-15.941	-2.763	1.00	51.24	C
ATOM	3	C	ILE	A	188	32.837	-14.441	-2.909	1.00	51.38	C
ATOM	4	O	ILE	A	188	32.290	-13.705	-2.093	1.00	51.55	O
ATOM	5	CB	ILE	A	188	31.347	-16.438	-3.468	1.00	51.49	C
ATOM	6	CG1	ILE	A	188	31.341	-16.009	-4.953	1.00	51.69	C

ATOM	7	CG2 ILE A 188	30.059	-15.978	-2.757	1.00	51.70	C
ATOM	8	CD1 ILE A 188	30.325	-16.768	-5.817	1.00	51.91	C
ATOM	9	1HD1 ILE A 188	30.420	-16.435	-6.849	1.00	0.00	H
ATOM	10	2HD1 ILE A 188	30.514	-17.841	-5.770	1.00	0.00	H
ATOM	11	H1 ILE A 188	32.449	-17.244	-1.163	1.00	0.00	H
ATOM	12	H2 ILE A 188	31.970	-15.687	-0.848	1.00	0.00	H
ATOM	13	H3 ILE A 188	33.568	-16.041	-0.940	1.00	0.00	H
ATOM	14	N CYS A 189	33.675	-13.977	-3.840	1.00	23.07	N
ATOM	15	CA CYS A 189	33.809	-12.535	-4.055	1.00	23.21	C
ATOM	16	C CYS A 189	32.574	-11.948	-4.761	1.00	23.54	C
ATOM	17	O CYS A 189	32.343	-12.226	-5.937	1.00	23.69	O
ATOM	18	CB CYS A 189	35.092	-12.191	-4.815	1.00	23.15	C
ATOM	19	SG CYS A 189	35.277	-10.404	-5.017	1.00	23.21	S
ATOM	20	H CYS A 189	34.138	-14.619	-4.473	1.00	0.00	H
ATOM	21	N LEU A 190	31.841	-11.084	-4.056	1.00	50.65	N
ATOM	22	CA LEU A 190	30.699	-10.317	-4.576	1.00	50.98	C
ATOM	23	C LEU A 190	31.032	-8.834	-4.838	1.00	51.13	C
ATOM	24	O LEU A 190	30.234	-8.131	-5.451	1.00	51.41	O
ATOM	25	CB LEU A 190	29.536	-10.434	-3.572	1.00	51.07	C
ATOM	26	CG LEU A 190	29.029	-11.868	-3.324	1.00	51.02	C
ATOM	27	CD1 LEU A 190	28.068	-11.866	-2.138	1.00	51.16	C
ATOM	28	CD2 LEU A 190	28.323	-12.447	-4.551	1.00	51.19	C
ATOM	29	H LEU A 190	32.062	-10.971	-3.078	1.00	0.00	H
ATOM	30	N GLN A 191	32.174	-8.356	-4.332	1.00	23.97	N
ATOM	31	CA GLN A 191	32.625	-6.966	-4.438	1.00	24.11	C
ATOM	32	C GLN A 191	33.318	-6.704	-5.783	1.00	24.14	C
ATOM	33	O GLN A 191	34.098	-7.532	-6.258	1.00	23.95	O

ATOM	34	CB	GLN A 191	33.568	-6.659	-3.256	1.00	23.92	C
ATOM	35	CG	GLN A 191	33.907	-5.174	-3.041	1.00	24.14	C
ATOM	36	CD	GLN A 191	32.715	-4.319	-2.625	1.00	24.38	C
ATOM	37	OE1	GLN A 191	31.658	-4.797	-2.257	1.00	24.39	O
ATOM	38	NE2	GLN A 191	32.833	-3.013	-2.682	1.00	24.59	N
ATOM	39	H	GLN A 191	32.809	-9.008	-3.905	1.00	0.00	H
ATOM	40	1HE2	GLN A 191	33.685	-2.587	-2.999	1.00	0.00	H
ATOM	41	2HE2	GLN A 191	32.019	-2.489	-2.414	1.00	0.00	H
ATOM	42	N	LYS A 192	33.179	-5.485	-6.311	1.00	24.41	N
ATOM	43	CA	LYS A 192	33.993	-4.990	-7.427	1.00	24.45	C
ATOM	44	C	LYS A 192	35.463	-4.805	-7.021	1.00	24.22	C
ATOM	45	O	LYS A 192	35.744	-4.157	-6.016	1.00	24.15	O
ATOM	46	CB	LYS A 192	33.343	-3.703	-7.956	1.00	24.77	C
ATOM	47	CG	LYS A 192	34.110	-3.120	-9.144	1.00	24.86	C
ATOM	48	CD	LYS A 192	33.252	-2.138	-9.952	1.00	25.21	C
ATOM	49	CE	LYS A 192	34.025	-1.589	-11.158	1.00	25.32	C
ATOM	50	NZ	LYS A 192	34.494	-2.678	-12.052	1.00	25.19	N1+
ATOM	51	H	LYS A 192	32.506	-4.854	-5.897	1.00	0.00	H
ATOM	52	HZ1	LYS A 192	34.932	-2.323	-12.889	1.00	0.00	H
ATOM	53	HZ2	LYS A 192	35.137	-3.292	-11.566	1.00	0.00	H
ATOM	54	HZ3	LYS A 192	33.708	-3.272	-12.317	1.00	0.00	H
ATOM	55	N	THR A 193	36.402	-5.279	-7.844	1.00	27.90	N
ATOM	56	CA	THR A 193	37.856	-5.126	-7.630	1.00	27.72	C
ATOM	57	C	THR A 193	38.646	-5.237	-8.944	1.00	27.67	C
ATOM	58	O	THR A 193	38.110	-5.652	-9.971	1.00	27.64	O
ATOM	59	CB	THR A 193	38.375	-6.122	-6.569	1.00	27.43	C
ATOM	60	OG1	THR A 193	39.738	-5.865	-6.316	1.00	27.25	O

ATOM	61	CG2 THR A 193	38.269	-7.592	-6.974	1.00	27.28	C
ATOM	62	H THR A 193	36.107	-5.742	-8.700	1.00	0.00	H
ATOM	63	HG1 THR A 193	40.069	-6.475	-5.641	1.00	0.00	H
ATOM	64	N THR A 194	39.918	-4.835	-8.924	1.00	23.90	N
ATOM	65	CA THR A 194	40.904	-5.065	-9.996	1.00	23.87	C
ATOM	66	C THR A 194	41.966	-6.108	-9.622	1.00	23.58	C
ATOM	67	O THR A 194	42.909	-6.306	-10.383	1.00	23.54	O
ATOM	68	CB THR A 194	41.565	-3.750	-10.439	1.00	24.10	C
ATOM	69	OG1 THR A 194	42.236	-3.148	-9.357	1.00	24.17	O
ATOM	70	CG2 THR A 194	40.543	-2.746	-10.975	1.00	24.37	C
ATOM	71	H THR A 194	40.283	-4.513	-8.035	1.00	0.00	H
ATOM	72	HG1 THR A 194	43.081	-3.597	-9.254	1.00	0.00	H
ATOM	73	N SER A 195	41.831	-6.792	-8.479	1.00	23.39	N
ATOM	74	CA SER A 195	42.647	-7.967	-8.139	1.00	23.10	C
ATOM	75	C SER A 195	42.491	-9.069	-9.196	1.00	23.09	C
ATOM	76	O SER A 195	41.382	-9.338	-9.659	1.00	23.24	O
ATOM	77	CB SER A 195	42.241	-8.541	-6.780	1.00	22.92	C
ATOM	78	OG SER A 195	42.255	-7.570	-5.754	1.00	22.92	O
ATOM	79	H SER A 195	41.086	-6.545	-7.842	1.00	0.00	H
ATOM	80	HG SER A 195	42.543	-8.039	-4.942	1.00	0.00	H
ATOM	81	N THR A 196	43.545	-9.851	-9.436	1.00	41.71	N
ATOM	82	CA THR A 196	43.582	-10.945	-10.433	1.00	41.69	C
ATOM	83	C THR A 196	42.945	-12.254	-9.931	1.00	41.49	C
ATOM	84	O THR A 196	43.398	-13.354	-10.246	1.00	41.34	O
ATOM	85	CB THR A 196	45.010	-11.166	-10.966	1.00	41.65	C
ATOM	86	OG1 THR A 196	45.888	-11.607	-9.943	1.00	41.41	O
ATOM	87	CG2 THR A 196	45.594	-9.902	-11.599	1.00	41.87	C

ATOM	88	H	THR A 196	44.358	-9.740	-8.843	1.00	0.00	H
ATOM	89	HG1	THR A 196	45.580	-11.264	-9.081	1.00	0.00	H
ATOM	90	N	ILE A 197	41.897	-12.159	-9.110	1.00	23.24	N
ATOM	91	CA	ILE A 197	41.276	-13.273	-8.367	1.00	23.08	C
ATOM	92	C	ILE A 197	40.673	-14.378	-9.256	1.00	23.12	C
ATOM	93	O	ILE A 197	40.500	-15.519	-8.812	1.00	22.96	O
ATOM	94	CB	ILE A 197	40.227	-12.716	-7.379	1.00	23.15	C
ATOM	95	CG1	ILE A 197	39.159	-11.831	-8.065	1.00	23.43	C
ATOM	96	CG2	ILE A 197	40.916	-12.004	-6.207	1.00	23.15	C
ATOM	97	CD1	ILE A 197	38.103	-11.279	-7.101	1.00	23.57	C
ATOM	98	H	ILE A 197	41.583	-11.220	-8.901	1.00	0.00	H
ATOM	99	2HG2	ILE A 197	41.559	-12.711	-5.682	1.00	0.00	H
ATOM	100	3HG2	ILE A 197	40.194	-11.632	-5.487	1.00	0.00	H
ATOM	101	N	LEU A 198	40.408	-14.076	-10.529	1.00	22.85	N
ATOM	102	CA	LEU A 198	40.169	-15.065	-11.579	1.00	22.95	C
ATOM	103	C	LEU A 198	41.512	-15.603	-12.095	1.00	22.89	C
ATOM	104	O	LEU A 198	42.148	-14.989	-12.945	1.00	22.95	O
ATOM	105	CB	LEU A 198	39.368	-14.411	-12.718	1.00	23.21	C
ATOM	106	CG	LEU A 198	37.928	-14.021	-12.357	1.00	23.35	C
ATOM	107	CD1	LEU A 198	37.405	-13.062	-13.424	1.00	23.59	C
ATOM	108	CD2	LEU A 198	37.012	-15.243	-12.273	1.00	23.40	C
ATOM	109	H	LEU A 198	40.670	-13.148	-10.830	1.00	0.00	H
ATOM	110	N	LYS A 199	41.921	-16.783	-11.613	1.00	22.81	N
ATOM	111	CA	LYS A 199	43.184	-17.445	-11.998	1.00	22.73	C
ATOM	112	C	LYS A 199	42.898	-18.715	-12.827	1.00	22.86	C
ATOM	113	O	LYS A 199	42.656	-19.768	-12.220	1.00	22.78	O
ATOM	114	CB	LYS A 199	44.060	-17.686	-10.749	1.00	22.47	C

ATOM	115	CG	LYS A 199	44.320	-16.380	-9.971	1.00	22.32	C
ATOM	116	CD	LYS A 199	45.403	-16.508	-8.886	1.00	22.05	C
ATOM	117	CE	LYS A 199	45.335	-15.373	-7.849	1.00	21.96	C
ATOM	118	NZ	LYS A 199	45.433	-14.022	-8.445	1.00	22.09	N1+
ATOM	119	H	LYS A 199	41.367	-17.191	-10.876	1.00	0.00	H
ATOM	120	HZ1	LYS A 199	45.122	-13.338	-7.743	1.00	0.00	H
ATOM	121	HZ2	LYS A 199	46.353	-13.750	-8.749	1.00	0.00	H
ATOM	122	HZ3	LYS A 199	44.777	-13.890	-9.207	1.00	0.00	H
ATOM	123	N	PRO A 200	42.721	-18.603	-14.161	1.00	46.45	N
ATOM	124	CA	PRO A 200	42.211	-19.673	-15.031	1.00	46.62	C
ATOM	125	C	PRO A 200	43.206	-20.839	-15.209	1.00	46.57	C
ATOM	126	O	PRO A 200	44.264	-20.883	-14.575	1.00	46.50	O
ATOM	127	CB	PRO A 200	41.911	-18.964	-16.367	1.00	46.83	C
ATOM	128	CG	PRO A 200	42.965	-17.865	-16.425	1.00	46.78	C
ATOM	129	CD	PRO A 200	43.019	-17.421	-14.967	1.00	46.57	C
ATOM	130	N	ARG A 201	42.864	-21.803	-16.072	1.00	32.66	N
ATOM	131	CA	ARG A 201	43.782	-22.766	-16.709	1.00	32.66	C
ATOM	132	C	ARG A 201	43.226	-23.218	-18.056	1.00	32.93	C
ATOM	133	O	ARG A 201	42.065	-23.608	-18.128	1.00	33.05	O
ATOM	134	CB	ARG A 201	44.004	-23.992	-15.797	1.00	32.48	C
ATOM	135	CG	ARG A 201	45.385	-23.988	-15.114	1.00	32.20	C
ATOM	136	CD	ARG A 201	45.286	-24.303	-13.619	1.00	32.00	C
ATOM	137	NE	ARG A 201	44.661	-23.182	-12.895	1.00	31.86	N
ATOM	138	CZ	ARG A 201	44.368	-23.138	-11.612	1.00	31.60	C
ATOM	139	NH1	ARG A 201	44.608	-24.144	-10.816	1.00	31.41	N
ATOM	140	NH2	ARG A 201	43.820	-22.076	-11.098	1.00	31.54	N
ATOM	141	H	ARG A 201	41.900	-21.808	-16.395	1.00	0.00	H

ATOM	142	HE	ARG A 201	44.493	-22.336	-13.437	1.00	0.00	H
ATOM	143	1HH1	ARG A 201	45.012	-24.978	-11.206	1.00	0.00	H
ATOM	144	2HH1	ARG A 201	44.381	-24.111	-9.841	1.00	0.00	H
ATOM	145	1HH2	ARG A 201	43.557	-21.300	-11.706	1.00	0.00	H
ATOM	146	2HH2	ARG A 201	43.639	-22.022	-10.120	1.00	0.00	H
ATOM	147	N	LEU A 202	44.095	-23.335	-19.059	1.00	23.67	N
ATOM	148	CA	LEU A 202	43.834	-24.121	-20.266	1.00	23.95	C
ATOM	149	C	LEU A 202	43.808	-25.615	-19.898	1.00	24.04	C
ATOM	150	O	LEU A 202	44.800	-26.138	-19.397	1.00	23.97	O
ATOM	151	CB	LEU A 202	44.930	-23.783	-21.300	1.00	24.03	C
ATOM	152	CG	LEU A 202	44.926	-24.630	-22.587	1.00	24.32	C
ATOM	153	CD1	LEU A 202	43.662	-24.422	-23.420	1.00	24.44	C
ATOM	154	CD2	LEU A 202	46.127	-24.262	-23.455	1.00	24.39	C
ATOM	155	H	LEU A 202	45.047	-23.052	-18.898	1.00	0.00	H
ATOM	156	N	ILE A 203	42.720	-26.314	-20.227	1.00	41.12	N
ATOM	157	CA	ILE A 203	42.558	-27.771	-20.036	1.00	41.21	C
ATOM	158	C	ILE A 203	42.485	-28.521	-21.382	1.00	41.54	C
ATOM	159	O	ILE A 203	41.862	-29.575	-21.499	1.00	41.69	O
ATOM	160	CB	ILE A 203	41.384	-28.092	-19.078	1.00	41.12	C
ATOM	161	CG1	ILE A 203	40.023	-27.655	-19.658	1.00	41.28	C
ATOM	162	CG2	ILE A 203	41.614	-27.485	-17.683	1.00	40.79	C
ATOM	163	CD1	ILE A 203	38.851	-28.479	-19.122	1.00	41.28	C
ATOM	164	H	ILE A 203	41.935	-25.803	-20.624	1.00	0.00	H
ATOM	165	N	SER A 204	43.075	-27.945	-22.436	1.00	45.79	N
ATOM	166	CA	SER A 204	42.951	-28.358	-23.845	1.00	46.10	C
ATOM	167	C	SER A 204	41.503	-28.349	-24.342	1.00	46.35	C
ATOM	168	O	SER A 204	41.101	-27.443	-25.079	1.00	46.59	O



ATOM	169	CB	SER A 204	43.609	-29.722	-24.096	1.00	46.13	C
ATOM	170	OG	SER A 204	42.722	-30.771	-23.762	1.00	46.07	O
ATOM	171	H	SER A 204	43.557	-27.078	-22.251	1.00	0.00	H
ATOM	172	HG	SER A 204	42.459	-30.658	-22.829	1.00	0.00	H
ATOM	173	N	GLU A 213	47.851	-30.099	-40.412	1.00	28.22	N
ATOM	174	CA	GLU A 213	47.876	-29.395	-41.698	1.00	28.20	C
ATOM	175	C	GLU A 213	46.934	-28.166	-41.645	1.00	28.01	C
ATOM	176	O	GLU A 213	46.824	-27.560	-40.580	1.00	27.70	O
ATOM	177	CB	GLU A 213	47.623	-30.413	-42.828	1.00	28.58	C
ATOM	178	CG	GLU A 213	48.077	-29.927	-44.223	1.00	28.63	C
ATOM	179	CD	GLU A 213	46.945	-29.883	-45.261	1.00	28.79	C
ATOM	180	OE1	GLU A 213	45.826	-29.477	-44.874	1.00	29.02	O
ATOM	181	OE2	GLU A 213	47.247	-30.082	-46.457	1.00	28.69	O
ATOM	182	H	GLU A 213	47.470	-29.570	-39.634	1.00	0.00	H
ATOM	183	N	GLY A 214	46.355	-27.704	-42.759	1.00	28.20	N
ATOM	184	CA	GLY A 214	45.509	-26.507	-42.815	1.00	28.08	C
ATOM	185	C	GLY A 214	44.053	-26.823	-42.474	1.00	28.09	C
ATOM	186	O	GLY A 214	43.267	-27.200	-43.347	1.00	28.25	O
ATOM	187	H	GLY A 214	46.346	-28.301	-43.586	1.00	0.00	H
ATOM	188	N	VAL A 215	43.654	-26.625	-41.217	1.00	27.92	N
ATOM	189	CA	VAL A 215	42.374	-27.122	-40.678	1.00	27.94	C
ATOM	190	C	VAL A 215	41.659	-26.060	-39.842	1.00	27.61	C
ATOM	191	O	VAL A 215	42.298	-25.317	-39.104	1.00	27.38	O
ATOM	192	CB	VAL A 215	42.613	-28.437	-39.896	1.00	28.10	C
ATOM	193	CG1	VAL A 215	41.448	-28.895	-39.004	1.00	27.94	C
ATOM	194	CG2	VAL A 215	42.909	-29.592	-40.866	1.00	28.50	C
ATOM	195	H	VAL A 215	44.332	-26.237	-40.561	1.00	0.00	H

ATOM	196	N	CYS A 216	40.323	-26.107	-39.822	1.00	35.13	N
ATOM	197	CA	CYS A 216	39.522	-25.474	-38.774	1.00	34.87	C
ATOM	198	C	CYS A 216	38.521	-26.450	-38.133	1.00	34.94	C
ATOM	199	O	CYS A 216	37.795	-27.162	-38.825	1.00	35.18	O
ATOM	200	CB	CYS A 216	38.843	-24.203	-39.295	1.00	34.80	C
ATOM	201	SG	CYS A 216	37.835	-23.395	-38.019	1.00	34.59	S
ATOM	202	H	CYS A 216	39.865	-26.774	-40.433	1.00	0.00	H
ATOM	203	N	ILE A 217	38.426	-26.415	-36.805	1.00	27.23	N
ATOM	204	CA	ILE A 217	37.384	-27.046	-35.988	1.00	27.24	C
ATOM	205	C	ILE A 217	36.337	-25.982	-35.618	1.00	27.06	C
ATOM	206	O	ILE A 217	36.694	-24.978	-35.010	1.00	26.81	O
ATOM	207	CB	ILE A 217	38.037	-27.659	-34.726	1.00	27.10	C
ATOM	208	CG1	ILE A 217	39.206	-28.632	-35.011	1.00	27.29	C
ATOM	209	CG2	ILE A 217	36.981	-28.338	-33.851	1.00	27.10	C
ATOM	210	CD1	ILE A 217	38.840	-29.866	-35.842	1.00	27.63	C
ATOM	211	H	ILE A 217	39.069	-25.793	-36.320	1.00	0.00	H
ATOM	212	N	THR A 218	35.061	-26.173	-35.972	1.00	27.21	N
ATOM	213	CA	THR A 218	34.011	-25.139	-35.809	1.00	27.08	C
ATOM	214	C	THR A 218	32.593	-25.736	-35.676	1.00	27.25	C
ATOM	215	O	THR A 218	32.461	-26.906	-35.325	1.00	27.47	O
ATOM	216	CB	THR A 218	34.154	-24.107	-36.946	1.00	27.09	C
ATOM	217	OG1	THR A 218	33.341	-22.973	-36.757	1.00	26.93	O
ATOM	218	CG2	THR A 218	33.810	-24.689	-38.316	1.00	27.38	C
ATOM	219	H	THR A 218	34.825	-26.999	-36.511	1.00	0.00	H
ATOM	220	HG1	THR A 218	33.615	-22.575	-35.888	1.00	0.00	H
ATOM	221	N	ASP A 219	31.544	-24.905	-35.744	1.00	39.43	N
ATOM	222	CA	ASP A 219	30.172	-25.150	-35.240	1.00	39.58	C

ATOM	223	C	ASP A 219	30.130	-25.782	-33.822	1.00	39.54	C
ATOM	224	O	ASP A 219	29.601	-26.890	-33.654	1.00	39.76	O
ATOM	225	CB	ASP A 219	29.320	-25.911	-36.276	1.00	39.91	C
ATOM	226	CG	ASP A 219	27.824	-25.942	-35.911	1.00	40.10	C
ATOM	227	OD1	ASP A 219	27.267	-24.883	-35.554	1.00	40.00	O
ATOM	228	OD2	ASP A 219	27.179	-26.974	-36.223	1.00	40.36	O
ATOM	229	H	ASP A 219	31.771	-23.951	-36.008	1.00	0.00	H
ATOM	230	N	PRO A 220	30.851	-25.203	-32.834	1.00	27.00	N
ATOM	231	CA	PRO A 220	31.111	-25.870	-31.567	1.00	26.94	C
ATOM	232	C	PRO A 220	29.889	-25.889	-30.639	1.00	26.98	C
ATOM	233	O	PRO A 220	29.296	-24.848	-30.334	1.00	26.93	O
ATOM	234	CB	PRO A 220	32.292	-25.131	-30.941	1.00	26.63	C
ATOM	235	CG	PRO A 220	32.151	-23.713	-31.482	1.00	26.51	C
ATOM	236	CD	PRO A 220	31.562	-23.927	-32.873	1.00	26.74	C
ATOM	237	N	LEU A 221	29.713	-27.034	-29.980	1.00	27.07	N
ATOM	238	CA	LEU A 221	28.813	-27.256	-28.848	1.00	27.10	C
ATOM	239	C	LEU A 221	29.625	-27.688	-27.623	1.00	26.91	C
ATOM	240	O	LEU A 221	30.477	-28.568	-27.730	1.00	26.93	O
ATOM	241	CB	LEU A 221	27.745	-28.286	-29.271	1.00	27.48	C
ATOM	242	CG	LEU A 221	26.740	-28.757	-28.192	1.00	27.62	C
ATOM	243	CD1	LEU A 221	25.454	-29.220	-28.875	1.00	28.03	C
ATOM	244	CD2	LEU A 221	27.221	-29.953	-27.367	1.00	27.55	C
ATOM	245	H	LEU A 221	30.322	-27.806	-30.238	1.00	0.00	H
ATOM	246	N	LEU A 222	29.206	-27.209	-26.453	1.00	26.73	N
ATOM	247	CA	LEU A 222	29.513	-27.755	-25.132	1.00	26.61	C
ATOM	248	C	LEU A 222	28.234	-27.672	-24.287	1.00	26.66	C
ATOM	249	O	LEU A 222	27.495	-26.694	-24.405	1.00	26.58	O

ATOM	250	CB	LEU	A 222	30.689	-26.983	-24.495	1.00	26.27	C
ATOM	251	CG	LEU	A 222	31.011	-27.381	-23.037	1.00	26.07	C
ATOM	252	CD1	LEU	A 222	31.580	-28.798	-22.937	1.00	26.22	C
ATOM	253	CD2	LEU	A 222	32.040	-26.429	-22.434	1.00	25.72	C
ATOM	254	H	LEU	A 222	28.448	-26.543	-26.460	1.00	0.00	H
ATOM	255	N	ALA	A 223	28.009	-28.657	-23.426	1.00	26.80	N
ATOM	256	CA	ALA	A 223	26.996	-28.628	-22.378	1.00	26.85	C
ATOM	257	C	ALA	A 223	27.507	-29.389	-21.151	1.00	26.69	C
ATOM	258	O	ALA	A 223	28.128	-30.440	-21.321	1.00	26.66	O
ATOM	259	CB	ALA	A 223	25.713	-29.267	-22.918	1.00	27.24	C
ATOM	260	H	ALA	A 223	28.619	-29.466	-23.443	1.00	0.00	H
ATOM	261	N	VAL	A 224	27.206	-28.915	-19.942	1.00	26.59	N
ATOM	262	CA	VAL	A 224	27.513	-29.596	-18.675	1.00	26.40	C
ATOM	263	C	VAL	A 224	26.244	-29.750	-17.836	1.00	26.52	C
ATOM	264	O	VAL	A 224	25.599	-28.771	-17.465	1.00	26.41	O
ATOM	265	CB	VAL	A 224	28.634	-28.874	-17.896	1.00	26.00	C
ATOM	266	CG1	VAL	A 224	28.977	-29.597	-16.585	1.00	25.79	C
ATOM	267	CG2	VAL	A 224	29.927	-28.768	-18.719	1.00	25.90	C
ATOM	268	H	VAL	A 224	26.836	-27.965	-19.892	1.00	0.00	H
ATOM	269	N	ASP	A 225	25.979	-30.975	-17.386	1.00	26.75	N
ATOM	270	CA	ASP	A 225	24.855	-31.337	-16.523	1.00	26.90	C
ATOM	271	C	ASP	A 225	25.327	-32.278	-15.413	1.00	26.77	C
ATOM	272	O	ASP	A 225	25.739	-33.407	-15.671	1.00	26.89	O
ATOM	273	CB	ASP	A 225	23.759	-32.039	-17.332	1.00	27.35	C
ATOM	274	CG	ASP	A 225	22.716	-31.106	-17.950	1.00	27.50	C
ATOM	275	OD1	ASP	A 225	21.921	-30.638	-17.098	1.00	27.50	O
ATOM	276	OD2	ASP	A 225	22.293	-31.477	-19.071	1.00	27.63	O

ATOM	277	H	ASP A 225	26.607	-31.722	-17.667	1.00	0.00	H
ATOM	278	N	ASN A 226	25.123	-31.875	-14.157	1.00	28.10	N
ATOM	279	CA	ASN A 226	25.235	-32.733	-12.966	1.00	28.01	C
ATOM	280	C	ASN A 226	26.608	-33.416	-12.719	1.00	27.81	C
ATOM	281	O	ASN A 226	26.746	-34.096	-11.708	1.00	27.68	O
ATOM	282	CB	ASN A 226	24.060	-33.741	-12.963	1.00	28.41	C
ATOM	283	CG	ASN A 226	22.694	-33.090	-13.103	1.00	28.65	C
ATOM	284	OD1	ASN A 226	22.000	-33.202	-14.105	1.00	29.05	O
ATOM	285	ND2	ASN A 226	22.285	-32.320	-12.120	1.00	28.43	N
ATOM	286	H	ASN A 226	24.757	-30.943	-14.033	1.00	0.00	H
ATOM	287	1HD2	ASN A 226	22.831	-32.247	-11.281	1.00	0.00	H
ATOM	288	2HD2	ASN A 226	21.389	-31.884	-12.224	1.00	0.00	H
ATOM	289	N	GLY A 227	27.624	-33.165	-13.555	1.00	34.27	N
ATOM	290	CA	GLY A 227	28.937	-33.834	-13.541	1.00	34.17	C
ATOM	291	C	GLY A 227	29.290	-34.541	-14.861	1.00	34.37	C
ATOM	292	O	GLY A 227	30.462	-34.809	-15.122	1.00	34.28	O
ATOM	293	H	GLY A 227	27.401	-32.629	-14.381	1.00	0.00	H
ATOM	294	N	PHE A 228	28.309	-34.709	-15.750	1.00	26.62	N
ATOM	295	CA	PHE A 228	28.478	-35.165	-17.130	1.00	26.86	C
ATOM	296	C	PHE A 228	28.590	-33.987	-18.105	1.00	26.81	C
ATOM	297	O	PHE A 228	28.134	-32.881	-17.805	1.00	26.69	O
ATOM	298	CB	PHE A 228	27.300	-36.078	-17.500	1.00	27.32	C
ATOM	299	CG	PHE A 228	27.084	-37.198	-16.501	1.00	27.40	C
ATOM	300	CD1	PHE A 228	28.071	-38.187	-16.349	1.00	27.62	C
ATOM	301	CD2	PHE A 228	25.950	-37.210	-15.669	1.00	27.27	C
ATOM	302	CE1	PHE A 228	27.928	-39.189	-15.375	1.00	27.72	C
ATOM	303	CE2	PHE A 228	25.804	-38.215	-14.695	1.00	27.36	C

ATOM	304	CZ	PHE A 228	26.791	-39.207	-14.550	1.00	27.58	C
ATOM	305	H	PHE A 228	27.377	-34.401	-15.500	1.00	0.00	H
ATOM	306	N	PHE A 229	29.056	-34.250	-19.327	1.00	26.92	N
ATOM	307	CA	PHE A 229	29.075	-33.267	-20.414	1.00	26.87	C
ATOM	308	C	PHE A 229	28.679	-33.860	-21.772	1.00	27.24	C
ATOM	309	O	PHE A 229	28.847	-35.059	-22.012	1.00	27.48	O
ATOM	310	CB	PHE A 229	30.447	-32.569	-20.477	1.00	26.52	C
ATOM	311	CG	PHE A 229	31.565	-33.382	-21.106	1.00	26.56	C
ATOM	312	CD1	PHE A 229	31.845	-33.249	-22.480	1.00	26.79	C
ATOM	313	CD2	PHE A 229	32.323	-34.274	-20.326	1.00	26.39	C
ATOM	314	CE1	PHE A 229	32.858	-34.021	-23.074	1.00	26.87	C
ATOM	315	CE2	PHE A 229	33.350	-35.030	-20.916	1.00	26.46	C
ATOM	316	CZ	PHE A 229	33.609	-34.914	-22.291	1.00	26.71	C
ATOM	317	H	PHE A 229	29.396	-35.186	-19.525	1.00	0.00	H
ATOM	318	N	ALA A 230	28.321	-32.971	-22.701	1.00	27.28	N
ATOM	319	CA	ALA A 230	28.228	-33.226	-24.136	1.00	27.59	C
ATOM	320	C	ALA A 230	29.031	-32.200	-24.946	1.00	27.40	C
ATOM	321	O	ALA A 230	29.260	-31.073	-24.510	1.00	27.06	O
ATOM	322	CB	ALA A 230	26.762	-33.244	-24.573	1.00	27.81	C
ATOM	323	H	ALA A 230	28.244	-32.003	-22.401	1.00	0.00	H
ATOM	324	N	TYR A 231	29.423	-32.589	-26.157	1.00	27.63	N
ATOM	325	CA	TYR A 231	30.275	-31.818	-27.056	1.00	27.48	C
ATOM	326	C	TYR A 231	29.952	-32.123	-28.528	1.00	27.78	C
ATOM	327	O	TYR A 231	29.590	-33.249	-28.874	1.00	28.10	O
ATOM	328	CB	TYR A 231	31.739	-32.123	-26.711	1.00	27.22	C
ATOM	329	CG	TYR A 231	32.755	-31.481	-27.634	1.00	27.17	C
ATOM	330	CD1	TYR A 231	33.206	-30.171	-27.383	1.00	26.87	C

ATOM	331	CD2 TYR A 231	33.223	-32.183	-28.762	1.00	27.44	C
ATOM	332	CE1 TYR A 231	34.138	-29.566	-28.249	1.00	26.83	C
ATOM	333	CE2 TYR A 231	34.147	-31.578	-29.632	1.00	27.40	C
ATOM	334	CZ TYR A 231	34.613	-30.270	-29.375	1.00	27.10	C
ATOM	335	OH TYR A 231	35.520	-29.692	-30.205	1.00	27.08	O
ATOM	336	H TYR A 231	29.238	-33.553	-26.419	1.00	0.00	H
ATOM	337	HH TYR A 231	35.609	-30.200	-31.028	1.00	0.00	H
ATOM	338	N SER A 232	30.176	-31.160	-29.423	1.00	27.69	N
ATOM	339	CA SER A 232	30.195	-31.384	-30.878	1.00	27.91	C
ATOM	340	C SER A 232	31.152	-30.420	-31.570	1.00	27.68	C
ATOM	341	O SER A 232	31.192	-29.246	-31.205	1.00	27.38	O
ATOM	342	CB SER A 232	28.771	-31.323	-31.478	1.00	28.17	C
ATOM	343	OG SER A 232	28.649	-30.496	-32.635	1.00	28.36	O
ATOM	344	H SER A 232	30.533	-30.272	-29.079	1.00	0.00	H
ATOM	345	HG SER A 232	28.840	-29.585	-32.366	1.00	0.00	H
ATOM	346	N HIS A 233	31.698	-30.844	-32.713	1.00	27.87	N
ATOM	347	CA HIS A 233	32.311	-29.949	-33.700	1.00	27.74	C
ATOM	348	C HIS A 233	32.132	-30.462	-35.129	1.00	28.06	C
ATOM	349	O HIS A 233	31.985	-31.663	-35.358	1.00	28.37	O
ATOM	350	CB HIS A 233	33.795	-29.706	-33.367	1.00	27.50	C
ATOM	351	CG HIS A 233	34.754	-30.874	-33.522	1.00	27.68	C
ATOM	352	ND1 HIS A 233	35.715	-31.238	-32.573	1.00	27.55	N
ATOM	353	CD2 HIS A 233	35.013	-31.575	-34.669	1.00	27.99	C
ATOM	354	CE1 HIS A 233	36.486	-32.172	-33.149	1.00	27.78	C
ATOM	355	NE2 HIS A 233	36.082	-32.401	-34.407	1.00	28.06	N
ATOM	356	H HIS A 233	31.507	-31.798	-33.003	1.00	0.00	H
ATOM	357	HE2 HIS A 233	36.518	-33.043	-35.056	1.00	0.00	H

ATOM	358	N	LEU A 234	32.341	-29.570	-36.092	1.00	27.98	N
ATOM	359	CA	LEU A 234	32.568	-29.847	-37.505	1.00	28.25	C
ATOM	360	C	LEU A 234	34.018	-29.492	-37.875	1.00	28.15	C
ATOM	361	O	LEU A 234	34.403	-28.324	-37.859	1.00	27.88	O
ATOM	362	CB	LEU A 234	31.531	-29.038	-38.306	1.00	28.33	C
ATOM	363	CG	LEU A 234	31.610	-29.229	-39.829	1.00	28.61	C
ATOM	364	CD1	LEU A 234	31.315	-30.675	-40.227	1.00	28.96	C
ATOM	365	CD2	LEU A 234	30.582	-28.326	-40.512	1.00	28.65	C
ATOM	366	H	LEU A 234	32.463	-28.604	-35.801	1.00	0.00	H
ATOM	367	N	GLU A 235	34.829	-30.497	-38.200	1.00	28.42	N
ATOM	368	CA	GLU A 235	36.171	-30.314	-38.760	1.00	28.40	C
ATOM	369	C	GLU A 235	36.102	-29.971	-40.253	1.00	28.55	C
ATOM	370	O	GLU A 235	35.412	-30.653	-41.018	1.00	28.84	O
ATOM	371	CB	GLU A 235	37.008	-31.586	-38.536	1.00	28.63	C
ATOM	372	CG	GLU A 235	38.425	-31.464	-39.122	1.00	28.53	C
ATOM	373	CD	GLU A 235	39.310	-32.675	-38.823	1.00	28.76	C
ATOM	374	OE1	GLU A 235	38.842	-33.781	-39.174	1.00	28.81	O
ATOM	375	OE2	GLU A 235	40.538	-32.459	-38.883	1.00	28.89	O
ATOM	376	H	GLU A 235	34.438	-31.433	-38.230	1.00	0.00	H
ATOM	377	N	LYS A 236	36.969	-29.057	-40.696	1.00	28.34	N
ATOM	378	CA	LYS A 236	37.114	-28.605	-42.083	1.00	28.45	C
ATOM	379	C	LYS A 236	38.570	-28.599	-42.540	1.00	28.50	C
ATOM	380	O	LYS A 236	39.458	-28.232	-41.778	1.00	28.31	O
ATOM	381	CB	LYS A 236	36.531	-27.192	-42.214	1.00	28.19	C
ATOM	382	CG	LYS A 236	35.000	-27.188	-42.131	1.00	28.17	C
ATOM	383	CD	LYS A 236	34.505	-25.755	-41.941	1.00	27.94	C
ATOM	384	CE	LYS A 236	32.984	-25.682	-42.086	1.00	28.02	C



ATOM	385	NZ	LYS	A 236	32.604	-25.277	-43.459	1.00	28.25	N1+
ATOM	386	H	LYS	A 236	37.493	-28.535	-39.996	1.00	0.00	H
ATOM	387	HZ1	LYS	A 236	31.619	-25.409	-43.623	1.00	0.00	H
ATOM	388	HZ2	LYS	A 236	32.785	-24.283	-43.583	1.00	0.00	H
ATOM	389	HZ3	LYS	A 236	33.148	-25.784	-44.156	1.00	0.00	H
ATOM	390	N	ILE	A 237	38.781	-28.846	-43.831	1.00	35.45	N
ATOM	391	CA	ILE	A 237	39.982	-28.435	-44.571	1.00	35.50	C
ATOM	392	C	ILE	A 237	39.874	-26.930	-44.848	1.00	35.28	C
ATOM	393	O	ILE	A 237	38.910	-26.489	-45.482	1.00	35.36	O
ATOM	394	CB	ILE	A 237	40.128	-29.225	-45.895	1.00	35.90	C
ATOM	395	CG1	ILE	A 237	40.050	-30.751	-45.663	1.00	36.20	C
ATOM	396	CG2	ILE	A 237	41.446	-28.838	-46.593	1.00	35.95	C
ATOM	397	CD1	ILE	A 237	40.091	-31.598	-46.941	1.00	36.62	C
ATOM	398	H	ILE	A 237	37.971	-29.107	-44.380	1.00	0.00	H
ATOM	399	1HD1	ILE	A 237	39.877	-32.638	-46.690	1.00	0.00	H
ATOM	400	2HD1	ILE	A 237	39.339	-31.244	-47.648	1.00	0.00	H
ATOM	401	N	GLY	A 238	40.853	-26.149	-44.399	1.00	28.33	N
ATOM	402	CA	GLY	A 238	40.871	-24.693	-44.529	1.00	28.13	C
ATOM	403	C	GLY	A 238	39.777	-23.973	-43.725	1.00	27.87	C
ATOM	404	O	GLY	A 238	39.363	-24.418	-42.657	1.00	27.74	O
ATOM	405	H	GLY	A 238	41.642	-26.589	-43.931	1.00	0.00	H
ATOM	406	N	SER	A 239	39.376	-22.792	-44.213	1.00	28.81	N
ATOM	407	CA	SER	A 239	38.617	-21.785	-43.447	1.00	28.58	C
ATOM	408	C	SER	A 239	37.361	-22.322	-42.739	1.00	28.53	C
ATOM	409	O	SER	A 239	36.545	-23.020	-43.337	1.00	28.72	O
ATOM	410	CB	SER	A 239	38.240	-20.607	-44.360	1.00	28.62	C
ATOM	411	OG	SER	A 239	37.289	-20.990	-45.341	1.00	28.85	O

ATOM	412	H	SER A 239	39.825	-22.488	-45.061	1.00	0.00	H
ATOM	413	HG	SER A 239	37.612	-21.795	-45.762	1.00	0.00	H
ATOM	414	N	CYS A 240	37.074	-21.793	-41.548	1.00	27.28	N
ATOM	415	CA	CYS A 240	35.934	-22.219	-40.728	1.00	27.23	C
ATOM	416	C	CYS A 240	34.570	-22.018	-41.414	1.00	27.33	C
ATOM	417	O	CYS A 240	33.711	-22.895	-41.368	1.00	27.37	O
ATOM	418	CB	CYS A 240	35.988	-21.445	-39.407	1.00	26.95	C
ATOM	419	SG	CYS A 240	37.607	-21.463	-38.601	1.00	26.84	S
ATOM	420	H	CYS A 240	37.786	-21.248	-41.081	1.00	0.00	H
ATOM	421	N	THR A 241	34.412	-20.958	-42.211	1.00	27.37	N
ATOM	422	CA	THR A 241	33.191	-20.738	-43.000	1.00	27.45	C
ATOM	423	C	THR A 241	33.122	-21.675	-44.213	1.00	27.73	C
ATOM	424	O	THR A 241	32.301	-22.593	-44.244	1.00	27.88	O
ATOM	425	CB	THR A 241	33.042	-19.262	-43.406	1.00	27.30	C
ATOM	426	OG1	THR A 241	34.166	-18.816	-44.132	1.00	27.40	O
ATOM	427	CG2	THR A 241	32.906	-18.338	-42.198	1.00	27.06	C
ATOM	428	H	THR A 241	35.167	-20.294	-42.290	1.00	0.00	H
ATOM	429	HG1	THR A 241	34.385	-17.941	-43.791	1.00	0.00	H
ATOM	430	N	ARG A 242	34.016	-21.517	-45.197	1.00	27.82	N
ATOM	431	CA	ARG A 242	33.886	-22.128	-46.539	1.00	28.08	C
ATOM	432	C	ARG A 242	34.731	-23.388	-46.767	1.00	28.31	C
ATOM	433	O	ARG A 242	34.648	-23.979	-47.836	1.00	28.57	O
ATOM	434	CB	ARG A 242	34.132	-21.052	-47.613	1.00	28.06	C
ATOM	435	CG	ARG A 242	33.023	-19.987	-47.590	1.00	28.01	C
ATOM	436	CD	ARG A 242	33.265	-18.883	-48.624	1.00	27.82	C
ATOM	437	NE	ARG A 242	32.190	-17.870	-48.564	1.00	27.72	N
ATOM	438	CZ	ARG A 242	32.310	-16.559	-48.696	1.00	27.59	C

ATOM	439	NH1 ARG A 242	33.448	-15.983	-48.964	1.00	27.55	N
ATOM	440	NH2 ARG A 242	31.267	-15.790	-48.556	1.00	27.52	N
ATOM	441	H ARG A 242	34.702	-20.778	-45.070	1.00	0.00	H
ATOM	442	HE ARG A 242	31.265	-18.219	-48.376	1.00	0.00	H
ATOM	443	1HH1 ARG A 242	34.266	-16.554	-49.080	1.00	0.00	H
ATOM	444	2HH1 ARG A 242	33.516	-14.985	-49.045	1.00	0.00	H
ATOM	445	1HH2 ARG A 242	30.372	-16.184	-48.326	1.00	0.00	H
ATOM	446	2HH2 ARG A 242	31.361	-14.793	-48.632	1.00	0.00	H
ATOM	447	N GLY A 243	35.482	-23.836	-45.764	1.00	28.24	N
ATOM	448	CA GLY A 243	36.289	-25.056	-45.808	1.00	28.47	C
ATOM	449	C GLY A 243	35.466	-26.342	-45.929	1.00	28.74	C
ATOM	450	O GLY A 243	34.333	-26.424	-45.435	1.00	28.70	O
ATOM	451	H GLY A 243	35.528	-23.289	-44.911	1.00	0.00	H
ATOM	452	N ILE A 244	36.051	-27.347	-46.587	1.00	29.04	N
ATOM	453	CA ILE A 244	35.428	-28.644	-46.885	1.00	29.36	C
ATOM	454	C ILE A 244	35.351	-29.481	-45.607	1.00	29.31	C
ATOM	455	O ILE A 244	36.378	-29.747	-44.991	1.00	29.18	O
ATOM	456	CB ILE A 244	36.208	-29.404	-47.989	1.00	29.73	C
ATOM	457	CG1 ILE A 244	36.279	-28.617	-49.320	1.00	29.85	C
ATOM	458	CG2 ILE A 244	35.559	-30.776	-48.262	1.00	30.08	C
ATOM	459	CD1 ILE A 244	37.524	-27.728	-49.446	1.00	29.71	C
ATOM	460	H ILE A 244	37.018	-27.217	-46.856	1.00	0.00	H
ATOM	461	N ALA A 245	34.159	-29.948	-45.236	1.00	29.42	N
ATOM	462	CA ALA A 245	33.963	-30.790	-44.056	1.00	29.35	C
ATOM	463	C ALA A 245	34.711	-32.135	-44.170	1.00	29.63	C
ATOM	464	O ALA A 245	34.429	-32.908	-45.084	1.00	30.00	O
ATOM	465	CB ALA A 245	32.458	-31.010	-43.870	1.00	29.41	C

ATOM	466	H	ALA A 245	33.364	-29.765	-45.824	1.00	0.00	H
ATOM	467	N	LYS A 246	35.543	-32.472	-43.174	1.00	29.46	N
ATOM	468	CA	LYS A 246	36.100	-33.827	-42.992	1.00	29.72	C
ATOM	469	C	LYS A 246	35.198	-34.707	-42.126	1.00	29.91	C
ATOM	470	O	LYS A 246	34.843	-35.805	-42.534	1.00	30.30	O
ATOM	471	CB	LYS A 246	37.522	-33.785	-42.403	1.00	29.50	C
ATOM	472	CG	LYS A 246	38.550	-33.093	-43.319	1.00	29.57	C
ATOM	473	CD	LYS A 246	39.937	-33.764	-43.287	1.00	29.86	C
ATOM	474	CE	LYS A 246	40.583	-33.826	-41.896	1.00	29.66	C
ATOM	475	NZ	LYS A 246	41.146	-32.527	-41.461	1.00	29.22	N1+
ATOM	476	H	LYS A 246	35.676	-31.791	-42.432	1.00	0.00	H
ATOM	477	HA	LYS A 246	36.151	-34.326	-43.962	1.00	0.00	H
ATOM	478	HZ1	LYS A 246	42.027	-32.307	-41.900	1.00	0.00	H
ATOM	479	HZ2	LYS A 246	40.487	-31.776	-41.592	1.00	0.00	H
ATOM	480	HZ3	LYS A 246	41.280	-32.562	-40.442	1.00	0.00	H
ATOM	481	N	GLN A 247	34.765	-34.201	-40.969	1.00	29.65	N
ATOM	482	CA	GLN A 247	33.913	-34.935	-40.025	1.00	29.82	C
ATOM	483	C	GLN A 247	33.124	-33.981	-39.117	1.00	29.51	C
ATOM	484	O	GLN A 247	33.687	-33.059	-38.531	1.00	29.17	O
ATOM	485	CB	GLN A 247	34.737	-35.945	-39.200	1.00	29.98	C
ATOM	486	CG	GLN A 247	35.890	-35.326	-38.395	1.00	29.64	C
ATOM	487	CD	GLN A 247	36.834	-36.375	-37.824	1.00	29.83	C
ATOM	488	OE1	GLN A 247	36.427	-37.392	-37.286	1.00	29.67	O
ATOM	489	NE2	GLN A 247	38.125	-36.137	-37.864	1.00	30.19	N
ATOM	490	H	GLN A 247	35.093	-33.285	-40.697	1.00	0.00	H
ATOM	491	1HE2	GLN A 247	38.475	-35.300	-38.342	1.00	0.00	H
ATOM	492	2HE2	GLN A 247	38.735	-36.844	-37.503	1.00	0.00	H

ATOM	493	N	ARG A 248	31.837	-34.276	-38.907	1.00	32.41	N
ATOM	494	CA	ARG A 248	31.103	-33.890	-37.695	1.00	32.19	C
ATOM	495	C	ARG A 248	31.421	-34.949	-36.644	1.00	32.21	C
ATOM	496	O	ARG A 248	31.179	-36.117	-36.925	1.00	32.54	O
ATOM	497	CB	ARG A 248	29.593	-33.830	-38.011	1.00	32.42	C
ATOM	498	CG	ARG A 248	28.643	-33.750	-36.793	1.00	32.30	C
ATOM	499	CD	ARG A 248	28.634	-32.399	-36.070	1.00	31.87	C
ATOM	500	NE	ARG A 248	28.074	-31.348	-36.936	1.00	31.85	N
ATOM	501	CZ	ARG A 248	27.935	-30.070	-36.650	1.00	31.55	C
ATOM	502	NH1	ARG A 248	27.457	-29.278	-37.554	1.00	31.55	N
ATOM	503	NH2	ARG A 248	28.225	-29.537	-35.499	1.00	31.24	N
ATOM	504	H	ARG A 248	31.490	-35.099	-39.379	1.00	0.00	H
ATOM	505	HE	ARG A 248	27.794	-31.610	-37.867	1.00	0.00	H
ATOM	506	1HH1	ARG A 248	27.018	-29.651	-38.388	1.00	0.00	H
ATOM	507	2HH1	ARG A 248	27.295	-28.313	-37.258	1.00	0.00	H
ATOM	508	1HH2	ARG A 248	28.509	-30.101	-34.711	1.00	0.00	H
ATOM	509	2HH2	ARG A 248	28.038	-28.542	-35.383	1.00	0.00	H
ATOM	510	N	ILE A 249	31.771	-34.553	-35.425	1.00	29.12	N
ATOM	511	CA	ILE A 249	31.750	-35.455	-34.263	1.00	29.14	C
ATOM	512	C	ILE A 249	30.752	-34.939	-33.231	1.00	29.00	C
ATOM	513	O	ILE A 249	30.565	-33.728	-33.089	1.00	28.78	O
ATOM	514	CB	ILE A 249	33.154	-35.736	-33.670	1.00	28.90	C
ATOM	515	CG1	ILE A 249	33.655	-34.642	-32.698	1.00	28.47	C
ATOM	516	CG2	ILE A 249	34.173	-36.033	-34.787	1.00	28.89	C
ATOM	517	CD1	ILE A 249	34.960	-35.011	-31.981	1.00	28.27	C
ATOM	518	H	ILE A 249	31.884	-33.559	-35.252	1.00	0.00	H
ATOM	519	N	ILE A 250	30.161	-35.863	-32.480	1.00	34.08	N

ATOM	520	CA	ILE A 250	29.270	-35.601	-31.348	1.00	33.97	C
ATOM	521	C	ILE A 250	29.651	-36.582	-30.236	1.00	33.98	C
ATOM	522	O	ILE A 250	29.774	-37.774	-30.502	1.00	34.32	O
ATOM	523	CB	ILE A 250	27.786	-35.752	-31.761	1.00	34.29	C
ATOM	524	CG1	ILE A 250	27.451	-35.004	-33.077	1.00	34.21	C
ATOM	525	CG2	ILE A 250	26.899	-35.273	-30.599	1.00	34.23	C
ATOM	526	CD1	ILE A 250	25.974	-35.031	-33.481	1.00	34.57	C
ATOM	527	H	ILE A 250	30.328	-36.842	-32.707	1.00	0.00	H
ATOM	528	N	GLY A 251	29.941	-36.107	-29.028	1.00	28.69	N
ATOM	529	CA	GLY A 251	30.489	-36.946	-27.958	1.00	28.65	C
ATOM	530	C	GLY A 251	30.115	-36.480	-26.557	1.00	28.38	C
ATOM	531	O	GLY A 251	29.592	-35.380	-26.385	1.00	28.18	O
ATOM	532	H	GLY A 251	29.799	-35.119	-28.835	1.00	0.00	H
ATOM	533	N	VAL A 252	30.293	-37.366	-25.580	1.00	28.40	N
ATOM	534	CA	VAL A 252	29.871	-37.189	-24.182	1.00	28.19	C
ATOM	535	C	VAL A 252	30.884	-37.810	-23.218	1.00	28.01	C
ATOM	536	O	VAL A 252	31.718	-38.635	-23.610	1.00	28.16	O
ATOM	537	CB	VAL A 252	28.455	-37.761	-23.924	1.00	28.54	C
ATOM	538	CG1	VAL A 252	27.394	-37.154	-24.846	1.00	28.82	C
ATOM	539	CG2	VAL A 252	28.369	-39.279	-24.088	1.00	28.88	C
ATOM	540	H	VAL A 252	30.743	-38.248	-25.812	1.00	0.00	H
ATOM	541	N	GLY A 253	30.778	-37.454	-21.939	1.00	27.71	N
ATOM	542	CA	GLY A 253	31.604	-38.038	-20.888	1.00	27.52	C
ATOM	543	C	GLY A 253	31.428	-37.386	-19.521	1.00	27.15	C
ATOM	544	O	GLY A 253	30.374	-36.827	-19.219	1.00	27.12	O
ATOM	545	H	GLY A 253	30.100	-36.745	-21.678	1.00	0.00	H
ATOM	546	N	GLU A 254	32.484	-37.430	-18.709	1.00	34.09	N

ATOM	547	CA	GLU A 254	32.478	-37.058	-17.286	1.00	33.75	C
ATOM	548	C	GLU A 254	33.516	-35.946	-16.996	1.00	33.31	C
ATOM	549	O	GLU A 254	34.571	-35.894	-17.633	1.00	33.21	O
ATOM	550	CB	GLU A 254	32.691	-38.323	-16.420	1.00	33.76	C
ATOM	551	CG	GLU A 254	31.831	-39.526	-16.879	1.00	34.15	C
ATOM	552	CD	GLU A 254	31.691	-40.657	-15.847	1.00	34.03	C
ATOM	553	OE1	GLU A 254	32.668	-40.912	-15.109	1.00	33.63	O
ATOM	554	OE2	GLU A 254	30.652	-41.362	-15.901	1.00	34.34	O
ATOM	555	H	GLU A 254	33.330	-37.865	-19.064	1.00	0.00	H
ATOM	556	N	VAL A 255	33.189	-34.980	-16.124	1.00	25.87	N
ATOM	557	CA	VAL A 255	33.978	-33.741	-15.898	1.00	25.47	C
ATOM	558	C	VAL A 255	34.874	-33.844	-14.647	1.00	25.20	C
ATOM	559	O	VAL A 255	34.716	-33.103	-13.677	1.00	25.14	O
ATOM	560	CB	VAL A 255	33.088	-32.473	-15.905	1.00	25.38	C
ATOM	561	CG1	VAL A 255	33.923	-31.183	-15.995	1.00	24.99	C
ATOM	562	CG2	VAL A 255	32.144	-32.431	-17.114	1.00	25.63	C
ATOM	563	H	VAL A 255	32.287	-35.043	-15.658	1.00	0.00	H
ATOM	564	N	LEU A 256	35.668	-34.914	-14.577	1.00	25.04	N
ATOM	565	CA	LEU A 256	36.375	-35.344	-13.362	1.00	24.83	C
ATOM	566	C	LEU A 256	37.560	-34.429	-12.982	1.00	24.43	C
ATOM	567	O	LEU A 256	38.222	-33.832	-13.839	1.00	24.39	O
ATOM	568	CB	LEU A 256	36.827	-36.814	-13.502	1.00	25.04	C
ATOM	569	CG	LEU A 256	35.766	-37.805	-14.024	1.00	25.50	C
ATOM	570	CD1	LEU A 256	36.387	-39.191	-14.190	1.00	25.67	C
ATOM	571	CD2	LEU A 256	34.568	-37.914	-13.081	1.00	25.62	C
ATOM	572	H	LEU A 256	35.735	-35.486	-15.405	1.00	0.00	H
ATOM	573	N	ASP A 257	37.946	-34.451	-11.706	1.00	24.14	N

ATOM	574	CA	ASP A 257	39.196	-33.878	-11.194	1.00	23.75	C
ATOM	575	C	ASP A 257	40.246	-34.976	-10.893	1.00	23.70	C
ATOM	576	O	ASP A 257	40.280	-36.018	-11.554	1.00	23.88	O
ATOM	577	CB	ASP A 257	38.898	-32.979	-9.981	1.00	23.51	C
ATOM	578	CG	ASP A 257	38.367	-33.704	-8.737	1.00	23.67	C
ATOM	579	OD1	ASP A 257	38.344	-33.037	-7.682	1.00	23.58	O
ATOM	580	OD2	ASP A 257	38.141	-34.932	-8.817	1.00	23.93	O
ATOM	581	H	ASP A 257	37.426	-35.012	-11.041	1.00	0.00	H
ATOM	582	N	ARG A 258	41.282	-34.591	-10.139	1.00	31.69	N
ATOM	583	CA	ARG A 258	42.198	-35.448	-9.365	1.00	31.57	C
ATOM	584	C	ARG A 258	42.535	-34.675	-8.076	1.00	31.15	C
ATOM	585	O	ARG A 258	42.035	-33.573	-7.877	1.00	31.05	O
ATOM	586	CB	ARG A 258	43.478	-35.822	-10.155	1.00	31.63	C
ATOM	587	CG	ARG A 258	43.325	-36.719	-11.398	1.00	32.06	C
ATOM	588	CD	ARG A 258	43.109	-36.073	-12.781	1.00	32.29	C
ATOM	589	NE	ARG A 258	43.115	-34.595	-12.795	1.00	32.04	N
ATOM	590	CZ	ARG A 258	42.185	-33.803	-13.287	1.00	32.01	C
ATOM	591	NH1	ARG A 258	41.069	-34.259	-13.779	1.00	32.22	N
ATOM	592	NH2	ARG A 258	42.341	-32.522	-13.233	1.00	31.79	N
ATOM	593	H	ARG A 258	41.182	-33.660	-9.752	1.00	0.00	H
ATOM	594	HE	ARG A 258	43.899	-34.109	-12.353	1.00	0.00	H
ATOM	595	1HH1	ARG A 258	40.810	-35.185	-13.468	1.00	0.00	H
ATOM	596	2HH1	ARG A 258	40.301	-33.622	-13.952	1.00	0.00	H
ATOM	597	1HH2	ARG A 258	43.031	-32.183	-12.557	1.00	0.00	H
ATOM	598	2HH2	ARG A 258	41.523	-31.931	-13.333	1.00	0.00	H
ATOM	599	N	GLY A 259	43.596	-35.062	-7.362	1.00	41.93	N
ATOM	600	CA	GLY A 259	44.176	-34.263	-6.269	1.00	41.54	C



ATOM	601	C	GLY A 259	44.690	-32.857	-6.646	1.00	41.30	C
ATOM	602	O	GLY A 259	44.931	-32.060	-5.744	1.00	41.02	O
ATOM	603	H	GLY A 259	44.026	-35.941	-7.599	1.00	0.00	H
ATOM	604	N	ASP A 260	44.791	-32.516	-7.939	1.00	50.86	N
ATOM	605	CA	ASP A 260	45.023	-31.142	-8.429	1.00	50.70	C
ATOM	606	C	ASP A 260	43.776	-30.226	-8.348	1.00	50.79	C
ATOM	607	O	ASP A 260	43.902	-28.999	-8.368	1.00	50.71	O
ATOM	608	CB	ASP A 260	45.555	-31.212	-9.873	1.00	50.84	C
ATOM	609	CG	ASP A 260	44.575	-31.843	-10.870	1.00	50.90	C
ATOM	610	OD1	ASP A 260	44.907	-32.873	-11.493	1.00	50.67	O
ATOM	611	OD2	ASP A 260	43.434	-31.354	-11.002	1.00	51.19	O
ATOM	612	H	ASP A 260	44.544	-33.209	-8.628	1.00	0.00	H
ATOM	613	N	LYS A 261	42.591	-30.830	-8.185	1.00	22.34	N
ATOM	614	CA	LYS A 261	41.266	-30.221	-7.978	1.00	22.44	C
ATOM	615	C	LYS A 261	40.802	-29.293	-9.107	1.00	22.62	C
ATOM	616	O	LYS A 261	40.002	-28.384	-8.881	1.00	22.63	O
ATOM	617	CB	LYS A 261	41.139	-29.638	-6.559	1.00	22.15	C
ATOM	618	CG	LYS A 261	41.757	-30.591	-5.520	1.00	21.90	C
ATOM	619	CD	LYS A 261	41.205	-30.392	-4.115	1.00	21.66	C
ATOM	620	CE	LYS A 261	41.977	-31.307	-3.158	1.00	21.44	C
ATOM	621	NZ	LYS A 261	41.169	-31.616	-1.960	1.00	21.17	N1+
ATOM	622	H	LYS A 261	42.608	-31.843	-8.160	1.00	0.00	H
ATOM	623	HZ1	LYS A 261	41.681	-31.991	-1.183	1.00	0.00	H
ATOM	624	HZ2	LYS A 261	40.403	-32.259	-2.193	1.00	0.00	H
ATOM	625	HZ3	LYS A 261	40.583	-30.822	-1.686	1.00	0.00	H
ATOM	626	N	VAL A 262	41.310	-29.508	-10.324	1.00	46.68	N
ATOM	627	CA	VAL A 262	40.851	-28.860	-11.563	1.00	46.91	C

ATOM	628	C	VAL A 262	39.850	-29.779	-12.285	1.00	47.22	C
ATOM	629	O	VAL A 262	40.228	-30.897	-12.642	1.00	47.27	O
ATOM	630	CB	VAL A 262	42.044	-28.531	-12.488	1.00	46.93	C
ATOM	631	CG1	VAL A 262	41.592	-27.774	-13.744	1.00	47.26	C
ATOM	632	CG2	VAL A 262	43.100	-27.665	-11.783	1.00	46.71	C
ATOM	633	H	VAL A 262	42.001	-30.251	-10.416	1.00	0.00	H
ATOM	634	N	PRO A 263	38.633	-29.325	-12.636	1.00	23.53	N
ATOM	635	CA	PRO A 263	37.737	-30.097	-13.493	1.00	23.88	C
ATOM	636	C	PRO A 263	38.317	-30.226	-14.910	1.00	24.06	C
ATOM	637	O	PRO A 263	38.679	-29.220	-15.524	1.00	23.93	O
ATOM	638	CB	PRO A 263	36.395	-29.355	-13.495	1.00	24.04	C
ATOM	639	CG	PRO A 263	36.512	-28.293	-12.401	1.00	23.78	C
ATOM	640	CD	PRO A 263	38.012	-28.077	-12.239	1.00	23.49	C
ATOM	641	N	SER A 264	38.291	-31.436	-15.468	1.00	24.37	N
ATOM	642	CA	SER A 264	38.810	-31.763	-16.805	1.00	24.59	C
ATOM	643	C	SER A 264	37.825	-32.657	-17.558	1.00	24.99	C
ATOM	644	O	SER A 264	37.125	-33.456	-16.944	1.00	25.12	O
ATOM	645	CB	SER A 264	40.164	-32.477	-16.705	1.00	24.49	C
ATOM	646	OG	SER A 264	41.124	-31.675	-16.042	1.00	24.25	O
ATOM	647	H	SER A 264	37.953	-32.215	-14.909	1.00	0.00	H
ATOM	648	HG	SER A 264	41.895	-32.214	-15.835	1.00	0.00	H
ATOM	649	N	MET A 265	37.794	-32.583	-18.893	1.00	25.19	N
ATOM	650	CA	MET A 265	36.953	-33.487	-19.689	1.00	25.58	C
ATOM	651	C	MET A 265	37.548	-34.907	-19.730	1.00	25.81	C
ATOM	652	O	MET A 265	38.710	-35.079	-20.101	1.00	25.75	O
ATOM	653	CB	MET A 265	36.683	-32.908	-21.096	1.00	25.71	C
ATOM	654	CG	MET A 265	37.801	-33.132	-22.126	1.00	26.00	C

ATOM	655	SD	MET A 265	37.475	-32.467	-23.779	1.00	26.23	S
ATOM	656	CE	MET A 265	38.726	-33.401	-24.702	1.00	26.60	C
ATOM	657	H	MET A 265	38.430	-31.965	-19.370	1.00	0.00	H
ATOM	658	N	PHE A 266	36.693	-35.919	-19.593	1.00	34.60	N
ATOM	659	CA	PHE A 266	36.995	-37.317	-19.899	1.00	34.90	C
ATOM	660	C	PHE A 266	35.923	-37.859	-20.844	1.00	35.34	C
ATOM	661	O	PHE A 266	34.844	-38.255	-20.409	1.00	35.52	O
ATOM	662	CB	PHE A 266	37.115	-38.134	-18.601	1.00	34.77	C
ATOM	663	CG	PHE A 266	38.318	-37.750	-17.761	1.00	34.36	C
ATOM	664	CD1	PHE A 266	39.526	-38.464	-17.878	1.00	34.35	C
ATOM	665	CD2	PHE A 266	38.245	-36.648	-16.892	1.00	33.99	C
ATOM	666	CE1	PHE A 266	40.654	-38.076	-17.131	1.00	33.96	C
ATOM	667	CE2	PHE A 266	39.373	-36.255	-16.155	1.00	33.61	C
ATOM	668	CZ	PHE A 266	40.578	-36.967	-16.270	1.00	33.59	C
ATOM	669	H	PHE A 266	35.799	-35.736	-19.143	1.00	0.00	H
ATOM	670	N	MET A 267	36.181	-37.771	-22.155	1.00	32.46	N
ATOM	671	CA	MET A 267	35.320	-38.365	-23.188	1.00	32.90	C
ATOM	672	C	MET A 267	35.211	-39.876	-22.971	1.00	33.24	C
ATOM	673	O	MET A 267	36.225	-40.571	-22.988	1.00	33.24	O
ATOM	674	CB	MET A 267	35.903	-38.117	-24.590	1.00	33.04	C
ATOM	675	CG	MET A 267	35.610	-36.726	-25.154	1.00	32.94	C
ATOM	676	SD	MET A 267	33.900	-36.525	-25.725	1.00	33.35	S
ATOM	677	CE	MET A 267	34.105	-35.118	-26.844	1.00	33.21	C
ATOM	678	H	MET A 267	37.089	-37.440	-22.431	1.00	0.00	H
ATOM	679	N	THR A 268	33.985	-40.387	-22.891	1.00	28.08	N
ATOM	680	CA	THR A 268	33.703	-41.827	-22.769	1.00	28.46	C
ATOM	681	C	THR A 268	33.118	-42.422	-24.052	1.00	28.95	C

ATOM	682	O	THR A 268	33.195	-43.633	-24.258	1.00	29.26	O
ATOM	683	CB	THR A 268	32.724	-42.088	-21.619	1.00	28.53	C
ATOM	684	OG1	THR A 268	31.494	-41.477	-21.922	1.00	28.68	O
ATOM	685	CG2	THR A 268	33.207	-41.548	-20.274	1.00	28.08	C
ATOM	686	H	THR A 268	33.187	-39.755	-22.898	1.00	0.00	H
ATOM	687	HG1	THR A 268	30.965	-41.423	-21.100	1.00	0.00	H
ATOM	688	N	ASN A 269	32.483	-41.596	-24.892	1.00	29.03	N
ATOM	689	CA	ASN A 269	31.578	-42.047	-25.944	1.00	29.52	C
ATOM	690	C	ASN A 269	31.463	-40.992	-27.059	1.00	29.43	C
ATOM	691	O	ASN A 269	31.212	-39.821	-26.777	1.00	29.07	O
ATOM	692	CB	ASN A 269	30.227	-42.297	-25.259	1.00	29.73	C
ATOM	693	CG	ASN A 269	29.172	-42.950	-26.119	1.00	30.31	C
ATOM	694	OD1	ASN A 269	29.389	-43.365	-27.246	1.00	30.61	O
ATOM	695	ND2	ASN A 269	28.011	-43.149	-25.555	1.00	30.49	N
ATOM	696	H	ASN A 269	32.390	-40.630	-24.597	1.00	0.00	H
ATOM	697	1HD2	ASN A 269	27.888	-42.862	-24.587	1.00	0.00	H
ATOM	698	2HD2	ASN A 269	27.297	-43.654	-26.061	1.00	0.00	H
ATOM	699	N	VAL A 270	31.651	-41.389	-28.324	1.00	29.75	N
ATOM	700	CA	VAL A 270	31.692	-40.483	-29.488	1.00	29.65	C
ATOM	701	C	VAL A 270	31.021	-41.129	-30.704	1.00	30.11	C
ATOM	702	O	VAL A 270	31.187	-42.323	-30.953	1.00	30.49	O
ATOM	703	CB	VAL A 270	33.138	-40.040	-29.823	1.00	29.46	C
ATOM	704	CG1	VAL A 270	33.187	-39.019	-30.971	1.00	29.48	C
ATOM	705	CG2	VAL A 270	33.861	-39.398	-28.627	1.00	28.96	C
ATOM	706	H	VAL A 270	31.775	-42.375	-28.506	1.00	0.00	H
ATOM	707	N	TRP A 271	30.305	-40.328	-31.492	1.00	30.07	N
ATOM	708	CA	TRP A 271	29.620	-40.709	-32.726	1.00	30.51	C

ATOM	709	C	TRP A 271	29.911	-39.712	-33.859	1.00	30.47	C
ATOM	710	O	TRP A 271	30.058	-38.509	-33.628	1.00	30.13	O
ATOM	711	CB	TRP A 271	28.120	-40.844	-32.439	1.00	30.64	C
ATOM	712	CG	TRP A 271	27.261	-41.177	-33.621	1.00	31.10	C
ATOM	713	CD1	TRP A 271	27.079	-42.416	-34.125	1.00	31.61	C
ATOM	714	CD2	TRP A 271	26.498	-40.279	-34.487	1.00	31.10	C
ATOM	715	NE1	TRP A 271	26.255	-42.354	-35.231	1.00	31.93	N
ATOM	716	CE2	TRP A 271	25.853	-41.062	-35.491	1.00	31.62	C
ATOM	717	CE3	TRP A 271	26.269	-38.887	-34.514	1.00	30.73	C
ATOM	718	CZ2	TRP A 271	25.015	-40.498	-36.465	1.00	31.75	C
ATOM	719	CZ3	TRP A 271	25.418	-38.311	-35.477	1.00	30.87	C
ATOM	720	CH2	TRP A 271	24.795	-39.111	-36.453	1.00	31.36	C
ATOM	721	H	TRP A 271	30.218	-39.355	-31.218	1.00	0.00	H
ATOM	722	HE1	TRP A 271	26.002	-43.166	-35.774	1.00	0.00	H
ATOM	723	N	THR A 272	29.888	-40.214	-35.095	1.00	30.85	N
ATOM	724	CA	THR A 272	30.163	-39.468	-36.332	1.00	30.86	C
ATOM	725	C	THR A 272	29.091	-39.822	-37.372	1.00	31.24	C
ATOM	726	O	THR A 272	28.882	-41.012	-37.619	1.00	31.69	O
ATOM	727	CB	THR A 272	31.572	-39.808	-36.852	1.00	31.00	C
ATOM	728	OG1	THR A 272	32.533	-39.287	-35.963	1.00	30.68	O
ATOM	729	CG2	THR A 272	31.900	-39.245	-38.235	1.00	30.94	C
ATOM	730	H	THR A 272	29.656	-41.190	-35.201	1.00	0.00	H
ATOM	731	HG1	THR A 272	33.399	-39.393	-36.365	1.00	0.00	H
ATOM	732	N	PRO A 273	28.410	-38.849	-38.012	1.00	31.08	N
ATOM	733	CA	PRO A 273	27.413	-39.142	-39.040	1.00	31.46	C
ATOM	734	C	PRO A 273	28.034	-39.779	-40.297	1.00	31.70	C
ATOM	735	O	PRO A 273	29.108	-39.344	-40.714	1.00	31.47	O

ATOM	736	CB	PRO A 273	26.752	-37.806	-39.394	1.00	31.19	C
ATOM	737	CG	PRO A 273	27.151	-36.850	-38.276	1.00	30.68	C
ATOM	738	CD	PRO A 273	28.472	-37.419	-37.768	1.00	30.60	C
ATOM	739	N	PRO A 274	27.249	-40.544	-41.084	1.00	32.17	N
ATOM	740	CA	PRO A 274	27.665	-41.048	-42.400	1.00	32.50	C
ATOM	741	C	PRO A 274	27.792	-39.963	-43.490	1.00	32.32	C
ATOM	742	O	PRO A 274	28.243	-40.257	-44.594	1.00	32.50	O
ATOM	743	CB	PRO A 274	26.621	-42.109	-42.767	1.00	33.03	C
ATOM	744	CG	PRO A 274	25.361	-41.620	-42.056	1.00	32.87	C
ATOM	745	CD	PRO A 274	25.912	-41.024	-40.762	1.00	32.44	C
ATOM	746	N	ASN A 275	27.436	-38.706	-43.198	1.00	32.01	N
ATOM	747	CA	ASN A 275	27.847	-37.545	-43.986	1.00	31.73	C
ATOM	748	C	ASN A 275	28.017	-36.307	-43.074	1.00	31.21	C
ATOM	749	O	ASN A 275	27.078	-35.951	-42.359	1.00	31.14	O
ATOM	750	CB	ASN A 275	26.834	-37.294	-45.114	1.00	31.96	C
ATOM	751	CG	ASN A 275	27.359	-36.265	-46.096	1.00	31.71	C
ATOM	752	OD1	ASN A 275	27.651	-35.133	-45.749	1.00	31.31	O
ATOM	753	ND2	ASN A 275	27.756	-36.688	-47.272	1.00	31.95	N
ATOM	754	H	ASN A 275	27.096	-38.522	-42.268	1.00	0.00	H
ATOM	755	1HD2	ASN A 275	27.652	-37.654	-47.523	1.00	0.00	H
ATOM	756	2HD2	ASN A 275	28.212	-36.014	-47.860	1.00	0.00	H
ATOM	757	N	PRO A 276	29.185	-35.635	-43.072	1.00	30.86	N
ATOM	758	CA	PRO A 276	29.442	-34.504	-42.181	1.00	30.41	C
ATOM	759	C	PRO A 276	28.842	-33.176	-42.668	1.00	30.19	C
ATOM	760	O	PRO A 276	28.701	-32.247	-41.877	1.00	29.83	O
ATOM	761	CB	PRO A 276	30.966	-34.435	-42.124	1.00	30.19	C
ATOM	762	CG	PRO A 276	31.396	-34.856	-43.527	1.00	30.41	C

ATOM	763	CD	PRO A 276	30.382	-35.954	-43.845	1.00	30.88	C
ATOM	764	N	SER A 277	28.540	-33.051	-43.964	1.00	30.43	N
ATOM	765	CA	SER A 277	28.065	-31.815	-44.598	1.00	30.27	C
ATOM	766	C	SER A 277	26.572	-31.546	-44.394	1.00	30.24	C
ATOM	767	O	SER A 277	26.124	-30.444	-44.695	1.00	29.99	O
ATOM	768	CB	SER A 277	28.344	-31.868	-46.105	1.00	30.54	C
ATOM	769	OG	SER A 277	29.722	-32.085	-46.352	1.00	30.71	O
ATOM	770	H	SER A 277	28.644	-33.861	-44.568	1.00	0.00	H
ATOM	771	HG	SER A 277	30.202	-31.284	-46.138	1.00	0.00	H
ATOM	772	N	THR A 278	25.807	-32.544	-43.939	1.00	30.51	N
ATOM	773	CA	THR A 278	24.331	-32.536	-43.903	1.00	30.62	C
ATOM	774	C	THR A 278	23.748	-32.494	-42.482	1.00	30.50	C
ATOM	775	O	THR A 278	22.591	-32.870	-42.298	1.00	30.61	O
ATOM	776	CB	THR A 278	23.777	-33.748	-44.678	1.00	31.11	C
ATOM	777	OG1	THR A 278	24.192	-34.949	-44.066	1.00	31.31	O
ATOM	778	CG2	THR A 278	24.235	-33.792	-46.136	1.00	31.28	C
ATOM	779	H	THR A 278	26.250	-33.442	-43.800	1.00	0.00	H
ATOM	780	HG1	THR A 278	23.721	-35.016	-43.230	1.00	0.00	H
ATOM	781	N	ILE A 279	24.568	-32.199	-41.463	1.00	30.29	N
ATOM	782	CA	ILE A 279	24.195	-32.189	-40.035	1.00	30.12	C
ATOM	783	C	ILE A 279	24.608	-30.855	-39.400	1.00	29.68	C
ATOM	784	O	ILE A 279	25.792	-30.502	-39.419	1.00	29.47	O
ATOM	785	CB	ILE A 279	24.820	-33.400	-39.298	1.00	30.15	C
ATOM	786	CG1	ILE A 279	24.274	-34.758	-39.802	1.00	30.62	C
ATOM	787	CG2	ILE A 279	24.653	-33.302	-37.769	1.00	29.89	C
ATOM	788	CD1	ILE A 279	22.788	-35.028	-39.525	1.00	30.76	C
ATOM	789	H	ILE A 279	25.499	-31.886	-41.699	1.00	0.00	H

ATOM	790	N	HIS A 280	23.664	-30.163	-38.754	1.00	29.56	N
ATOM	791	CA	HIS A 280	23.795	-28.751	-38.365	1.00	29.19	C
ATOM	792	C	HIS A 280	23.184	-28.450	-36.985	1.00	29.06	C
ATOM	793	O	HIS A 280	22.183	-29.059	-36.603	1.00	29.28	O
ATOM	794	CB	HIS A 280	23.124	-27.860	-39.431	1.00	29.17	C
ATOM	795	CG	HIS A 280	23.448	-28.223	-40.857	1.00	29.42	C
ATOM	796	ND1	HIS A 280	24.583	-27.875	-41.550	1.00	29.30	N
ATOM	797	CD2	HIS A 280	22.744	-29.094	-41.644	1.00	29.80	C
ATOM	798	CE1	HIS A 280	24.558	-28.511	-42.732	1.00	29.59	C
ATOM	799	NE2	HIS A 280	23.461	-29.275	-42.829	1.00	29.90	N
ATOM	800	H	HIS A 280	22.721	-30.544	-38.757	1.00	0.00	H
ATOM	801	HD1	HIS A 280	25.298	-27.238	-41.234	1.00	0.00	H
ATOM	802	N	HIS A 281	23.709	-27.410	-36.323	1.00	28.71	N
ATOM	803	CA	HIS A 281	23.065	-26.677	-35.218	1.00	28.56	C
ATOM	804	C	HIS A 281	22.537	-27.561	-34.071	1.00	28.69	C
ATOM	805	O	HIS A 281	21.420	-27.382	-33.587	1.00	28.78	O
ATOM	806	CB	HIS A 281	22.010	-25.694	-35.755	1.00	28.58	C
ATOM	807	CG	HIS A 281	22.453	-24.893	-36.955	1.00	28.41	C
ATOM	808	ND1	HIS A 281	23.614	-24.157	-37.089	1.00	28.11	N
ATOM	809	CD2	HIS A 281	21.812	-24.856	-38.163	1.00	28.50	C
ATOM	810	CE1	HIS A 281	23.649	-23.667	-38.342	1.00	28.04	C
ATOM	811	NE2	HIS A 281	22.577	-24.080	-39.035	1.00	28.27	N
ATOM	812	H	HIS A 281	24.543	-26.980	-36.703	1.00	0.00	H
ATOM	813	HD1	HIS A 281	24.350	-24.049	-36.402	1.00	0.00	H
ATOM	814	N	CYS A 282	23.316	-28.577	-33.691	1.00	28.70	N
ATOM	815	CA	CYS A 282	22.938	-29.526	-32.648	1.00	28.83	C
ATOM	816	C	CYS A 282	22.659	-28.844	-31.294	1.00	28.57	C



ATOM	817	O	CYS A 282	23.218	-27.791	-30.988	1.00	28.26	O
ATOM	818	CB	CYS A 282	24.023	-30.599	-32.525	1.00	28.90	C
ATOM	819	SG	CYS A 282	24.293	-31.607	-34.011	1.00	29.22	S
ATOM	820	H	CYS A 282	24.207	-28.690	-34.145	1.00	0.00	H
ATOM	821	N	SER A 283	21.868	-29.506	-30.448	1.00	28.73	N
ATOM	822	CA	SER A 283	21.390	-28.989	-29.163	1.00	28.52	C
ATOM	823	C	SER A 283	21.182	-30.115	-28.154	1.00	28.71	C
ATOM	824	O	SER A 283	20.615	-31.136	-28.525	1.00	29.07	O
ATOM	825	CB	SER A 283	20.058	-28.282	-29.402	1.00	28.54	C
ATOM	826	OG	SER A 283	19.662	-27.658	-28.204	1.00	28.27	O
ATOM	827	H	SER A 283	21.394	-30.333	-30.802	1.00	0.00	H
ATOM	828	HG	SER A 283	20.285	-26.913	-28.102	1.00	0.00	H
ATOM	829	N	SER A 284	21.634	-29.978	-26.903	1.00	28.47	N
ATOM	830	CA	SER A 284	21.833	-31.135	-26.009	1.00	28.60	C
ATOM	831	C	SER A 284	21.270	-30.981	-24.588	1.00	28.50	C
ATOM	832	O	SER A 284	20.991	-29.874	-24.130	1.00	28.17	O
ATOM	833	CB	SER A 284	23.321	-31.492	-25.992	1.00	28.41	C
ATOM	834	OG	SER A 284	24.068	-30.502	-25.322	1.00	28.02	O
ATOM	835	H	SER A 284	22.062	-29.099	-26.635	1.00	0.00	H
ATOM	836	HG	SER A 284	23.939	-29.631	-25.742	1.00	0.00	H
ATOM	837	N	THR A 285	20.986	-32.107	-23.921	1.00	28.82	N
ATOM	838	CA	THR A 285	20.414	-32.199	-22.558	1.00	28.79	C
ATOM	839	C	THR A 285	20.697	-33.579	-21.938	1.00	28.95	C
ATOM	840	O	THR A 285	20.427	-34.594	-22.582	1.00	29.31	O
ATOM	841	CB	THR A 285	18.891	-31.979	-22.629	1.00	29.06	C
ATOM	842	OG1	THR A 285	18.615	-30.635	-22.942	1.00	28.88	O
ATOM	843	CG2	THR A 285	18.153	-32.260	-21.324	1.00	29.12	C

ATOM	844	H	THR A 285	21.140	-32.988	-24.405	1.00	0.00	H
ATOM	845	HG1	THR A 285	19.369	-30.296	-23.451	1.00	0.00	H
ATOM	846	N	TYR A 286	21.145	-33.649	-20.677	1.00	28.68	N
ATOM	847	CA	TYR A 286	21.287	-34.919	-19.943	1.00	28.79	C
ATOM	848	C	TYR A 286	19.981	-35.369	-19.274	1.00	29.13	C
ATOM	849	O	TYR A 286	19.447	-34.636	-18.437	1.00	29.15	O
ATOM	850	CB	TYR A 286	22.385	-34.801	-18.881	1.00	28.37	C
ATOM	851	CG	TYR A 286	22.529	-36.010	-17.974	1.00	28.43	C
ATOM	852	CD1	TYR A 286	23.097	-37.194	-18.477	1.00	28.48	C
ATOM	853	CD2	TYR A 286	22.058	-35.969	-16.646	1.00	28.45	C
ATOM	854	CE1	TYR A 286	23.179	-38.336	-17.660	1.00	28.55	C
ATOM	855	CE2	TYR A 286	22.133	-37.109	-15.827	1.00	28.52	C
ATOM	856	CZ	TYR A 286	22.692	-38.298	-16.337	1.00	28.56	C
ATOM	857	OH	TYR A 286	22.755	-39.404	-15.553	1.00	28.63	O
ATOM	858	H	TYR A 286	21.417	-32.791	-20.195	1.00	0.00	H
ATOM	859	HH	TYR A 286	22.729	-39.201	-14.618	1.00	0.00	H
ATOM	860	N	HIS A 287	19.656	-36.656	-19.397	1.00	29.43	N
ATOM	861	CA	HIS A 287	18.632	-37.364	-18.623	1.00	29.74	C
ATOM	862	C	HIS A 287	19.028	-38.844	-18.440	1.00	29.98	C
ATOM	863	O	HIS A 287	19.458	-39.489	-19.389	1.00	30.22	O
ATOM	864	CB	HIS A 287	17.262	-37.162	-19.303	1.00	30.15	C
ATOM	865	CG	HIS A 287	16.217	-38.179	-18.927	1.00	30.49	C
ATOM	866	ND1	HIS A 287	16.001	-39.400	-19.576	1.00	31.01	N
ATOM	867	CD2	HIS A 287	15.449	-38.126	-17.804	1.00	30.40	C
ATOM	868	CE1	HIS A 287	15.092	-40.045	-18.822	1.00	31.24	C
ATOM	869	NE2	HIS A 287	14.749	-39.307	-17.754	1.00	30.87	N
ATOM	870	H	HIS A 287	20.220	-37.235	-20.017	1.00	0.00	H

ATOM	871	HE2 HIS A 287	14.274	-39.679	-16.923	1.00	0.00	H
ATOM	872	N GLU A 288	19.054	-39.299	-17.181	1.00	49.70	N
ATOM	873	CA GLU A 288	19.219	-40.702	-16.737	1.00	49.93	C
ATOM	874	C GLU A 288	20.207	-41.560	-17.562	1.00	49.97	C
ATOM	875	O GLU A 288	19.822	-42.364	-18.404	1.00	50.41	O
ATOM	876	CB GLU A 288	17.835	-41.355	-16.555	1.00	50.49	C
ATOM	877	CG GLU A 288	17.053	-40.650	-15.429	1.00	50.53	C
ATOM	878	CD GLU A 288	15.624	-41.182	-15.266	1.00	51.14	C
ATOM	879	OE1 GLU A 288	15.458	-42.419	-15.209	1.00	51.54	O
ATOM	880	OE2 GLU A 288	14.707	-40.331	-15.183	1.00	51.23	O
ATOM	881	H GLU A 288	18.656	-38.686	-16.491	1.00	0.00	H
ATOM	882	N ASP A 289	21.507	-41.382	-17.299	1.00	33.41	N
ATOM	883	CA ASP A 289	22.657	-41.975	-18.005	1.00	33.44	C
ATOM	884	C ASP A 289	22.823	-41.630	-19.495	1.00	33.66	C
ATOM	885	O ASP A 289	23.880	-41.935	-20.052	1.00	33.88	O
ATOM	886	CB ASP A 289	22.789	-43.491	-17.757	1.00	33.75	C
ATOM	887	CG ASP A 289	23.340	-43.883	-16.386	1.00	33.52	C
ATOM	888	OD1 ASP A 289	24.017	-43.045	-15.742	1.00	33.39	O
ATOM	889	OD2 ASP A 289	23.561	-45.103	-16.227	1.00	33.49	O
ATOM	890	H ASP A 289	21.744	-40.703	-16.588	1.00	0.00	H
ATOM	891	N PHE A 290	21.958	-40.812	-20.097	1.00	29.92	N
ATOM	892	CA PHE A 290	22.097	-40.378	-21.490	1.00	29.96	C
ATOM	893	C PHE A 290	22.221	-38.859	-21.614	1.00	29.56	C
ATOM	894	O PHE A 290	21.340	-38.112	-21.194	1.00	29.39	O
ATOM	895	CB PHE A 290	20.932	-40.909	-22.335	1.00	30.46	C
ATOM	896	CG PHE A 290	20.602	-42.373	-22.111	1.00	30.94	C
ATOM	897	CD1 PHE A 290	21.484	-43.378	-22.546	1.00	31.25	C

ATOM	898	CD2 PHE A 290	19.443	-42.724	-21.395	1.00	31.12	C
ATOM	899	CE1 PHE A 290	21.209	-44.727	-22.267	1.00	31.74	C
ATOM	900	CE2 PHE A 290	19.175	-44.072	-21.102	1.00	31.60	C
ATOM	901	CZ PHE A 290	20.058	-45.075	-21.537	1.00	31.92	C
ATOM	902	H PHE A 290	21.096	-40.572	-19.612	1.00	0.00	H
ATOM	903	HZ PHE A 290	19.870	-46.103	-21.268	1.00	0.00	H
ATOM	904	N TYR A 291	23.187	-38.398	-22.408	1.00	29.46	N
ATOM	905	CA TYR A 291	23.070	-37.092	-23.052	1.00	29.29	C
ATOM	906	C TYR A 291	22.317	-37.260	-24.377	1.00	29.70	C
ATOM	907	O TYR A 291	22.768	-37.947	-25.300	1.00	29.98	O
ATOM	908	CB TYR A 291	24.439	-36.414	-23.192	1.00	28.88	C
ATOM	909	CG TYR A 291	24.534	-35.090	-22.456	1.00	28.44	C
ATOM	910	CD1 TYR A 291	25.375	-34.949	-21.332	1.00	28.12	C
ATOM	911	CD2 TYR A 291	23.805	-33.983	-22.932	1.00	28.34	C
ATOM	912	CE1 TYR A 291	25.460	-33.708	-20.668	1.00	27.73	C
ATOM	913	CE2 TYR A 291	23.900	-32.741	-22.275	1.00	27.97	C
ATOM	914	CZ TYR A 291	24.709	-32.609	-21.131	1.00	27.66	C
ATOM	915	OH TYR A 291	24.703	-31.442	-20.443	1.00	27.31	O
ATOM	916	H TYR A 291	23.824	-39.069	-22.825	1.00	0.00	H
ATOM	917	HH TYR A 291	23.810	-31.266	-20.096	1.00	0.00	H
ATOM	918	N TYR A 292	21.108	-36.708	-24.427	1.00	37.87	N
ATOM	919	CA TYR A 292	20.309	-36.565	-25.639	1.00	38.21	C
ATOM	920	C TYR A 292	20.795	-35.329	-26.406	1.00	37.92	C
ATOM	921	O TYR A 292	21.166	-34.321	-25.799	1.00	37.57	O
ATOM	922	CB TYR A 292	18.822	-36.436	-25.274	1.00	38.48	C
ATOM	923	CG TYR A 292	18.215	-37.617	-24.528	1.00	38.79	C
ATOM	924	CD1 TYR A 292	17.333	-38.504	-25.181	1.00	39.29	C

ATOM	925	CD2 TYR A 292	18.480	-37.795	-23.155	1.00	38.61	C
ATOM	926	CE1 TYR A 292	16.731	-39.565	-24.472	1.00	39.62	C
ATOM	927	CE2 TYR A 292	17.884	-38.856	-22.451	1.00	38.91	C
ATOM	928	CZ TYR A 292	17.000	-39.735	-23.098	1.00	39.42	C
ATOM	929	OH TYR A 292	16.403	-40.727	-22.390	1.00	39.75	O
ATOM	930	H TYR A 292	20.815	-36.154	-23.628	1.00	0.00	H
ATOM	931	HH TYR A 292	16.318	-40.465	-21.458	1.00	0.00	H
ATOM	932	N THR A 293	20.795	-35.383	-27.738	1.00	29.96	N
ATOM	933	CA THR A 293	21.269	-34.285	-28.587	1.00	29.69	C
ATOM	934	C THR A 293	20.570	-34.263	-29.950	1.00	29.95	C
ATOM	935	O THR A 293	20.570	-35.239	-30.697	1.00	30.26	O
ATOM	936	CB THR A 293	22.803	-34.280	-28.675	1.00	29.41	C
ATOM	937	OG1 THR A 293	23.254	-33.191	-29.445	1.00	29.45	O
ATOM	938	CG2 THR A 293	23.419	-35.541	-29.274	1.00	29.54	C
ATOM	939	H THR A 293	20.556	-36.258	-28.195	1.00	0.00	H
ATOM	940	HG1 THR A 293	24.213	-33.217	-29.434	1.00	0.00	H
ATOM	941	N LEU A 294	19.791	-33.206	-30.166	1.00	29.82	N
ATOM	942	CA LEU A 294	18.923	-32.956	-31.311	1.00	30.04	C
ATOM	943	C LEU A 294	19.660	-32.108	-32.360	1.00	29.83	C
ATOM	944	O LEU A 294	20.055	-30.983	-32.064	1.00	29.50	O
ATOM	945	CB LEU A 294	17.666	-32.257	-30.754	1.00	30.03	C
ATOM	946	CG LEU A 294	16.650	-31.785	-31.804	1.00	30.29	C
ATOM	947	CD1 LEU A 294	16.073	-32.945	-32.607	1.00	30.80	C
ATOM	948	CD2 LEU A 294	15.499	-31.050	-31.119	1.00	30.22	C
ATOM	949	H LEU A 294	19.866	-32.450	-29.493	1.00	0.00	H
ATOM	950	N CYS A 295	19.743	-32.583	-33.602	1.00	30.05	N
ATOM	951	CA CYS A 295	20.414	-31.915	-34.723	1.00	29.93	C

ATOM	952	C	CYS A 295	19.472	-31.741	-35.926	1.00	30.19	C
ATOM	953	O	CYS A 295	18.683	-32.635	-36.254	1.00	30.50	O
ATOM	954	CB	CYS A 295	21.642	-32.731	-35.146	1.00	30.05	C
ATOM	955	SG	CYS A 295	22.896	-33.093	-33.883	1.00	29.80	S
ATOM	956	H	CYS A 295	19.356	-33.503	-33.784	1.00	0.00	H
ATOM	957	N	ALA A 296	19.672	-30.664	-36.686	1.00	30.06	N
ATOM	958	CA	ALA A 296	19.045	-30.474	-37.992	1.00	30.32	C
ATOM	959	C	ALA A 296	19.756	-31.302	-39.076	1.00	30.46	C
ATOM	960	O	ALA A 296	20.987	-31.283	-39.164	1.00	30.28	O
ATOM	961	CB	ALA A 296	19.064	-28.979	-38.317	1.00	30.10	C
ATOM	962	H	ALA A 296	20.419	-30.021	-36.438	1.00	0.00	H
ATOM	963	N	VAL A 297	18.984	-31.950	-39.951	1.00	30.78	N
ATOM	964	CA	VAL A 297	19.468	-32.678	-41.134	1.00	30.98	C
ATOM	965	C	VAL A 297	19.127	-31.875	-42.389	1.00	30.87	C
ATOM	966	O	VAL A 297	18.004	-31.389	-42.514	1.00	30.84	O
ATOM	967	CB	VAL A 297	18.851	-34.089	-41.227	1.00	31.52	C
ATOM	968	CG1	VAL A 297	19.548	-34.931	-42.304	1.00	31.76	C
ATOM	969	CG2	VAL A 297	18.906	-34.861	-39.903	1.00	31.70	C
ATOM	970	H	VAL A 297	17.974	-31.892	-39.848	1.00	0.00	H
ATOM	971	N	SER A 298	20.038	-31.756	-43.360	1.00	30.82	N
ATOM	972	CA	SER A 298	19.801	-30.929	-44.555	1.00	30.79	C
ATOM	973	C	SER A 298	20.377	-31.516	-45.841	1.00	30.94	C
ATOM	974	O	SER A 298	21.553	-31.866	-45.908	1.00	30.88	O
ATOM	975	CB	SER A 298	20.364	-29.529	-44.336	1.00	30.35	C
ATOM	976	OG	SER A 298	20.047	-28.697	-45.428	1.00	30.29	O
ATOM	977	H	SER A 298	20.962	-32.151	-43.211	1.00	0.00	H
ATOM	978	HG	SER A 298	20.532	-27.860	-45.252	1.00	0.00	H

ATOM	979	N	HIS A 299	19.592	-31.447	-46.922	1.00	31.13	N
ATOM	980	CA	HIS A 299	20.047	-31.680	-48.302	1.00	31.31	C
ATOM	981	C	HIS A 299	20.580	-30.411	-48.994	1.00	30.95	C
ATOM	982	O	HIS A 299	21.123	-30.503	-50.090	1.00	30.98	O
ATOM	983	CB	HIS A 299	18.896	-32.314	-49.115	1.00	31.69	C
ATOM	984	CG	HIS A 299	19.210	-33.639	-49.768	1.00	32.16	C
ATOM	985	ND1	HIS A 299	18.514	-34.157	-50.860	1.00	32.47	N
ATOM	986	CD2	HIS A 299	20.090	-34.588	-49.327	1.00	32.40	C
ATOM	987	CE1	HIS A 299	19.014	-35.379	-51.081	1.00	32.89	C
ATOM	988	NE2	HIS A 299	19.964	-35.666	-50.176	1.00	32.86	N
ATOM	989	H	HIS A 299	18.648	-31.115	-46.793	1.00	0.00	H
ATOM	990	HE2	HIS A 299	20.477	-36.534	-50.123	1.00	0.00	H
ATOM	991	N	VAL A 300	20.430	-29.234	-48.373	1.00	37.47	N
ATOM	992	CA	VAL A 300	20.701	-27.912	-48.982	1.00	37.19	C
ATOM	993	C	VAL A 300	21.814	-27.133	-48.265	1.00	36.77	C
ATOM	994	O	VAL A 300	22.018	-25.951	-48.526	1.00	36.52	O
ATOM	995	CB	VAL A 300	19.407	-27.081	-49.113	1.00	37.21	C
ATOM	996	CG1	VAL A 300	18.363	-27.818	-49.963	1.00	37.63	C
ATOM	997	CG2	VAL A 300	18.773	-26.731	-47.760	1.00	37.10	C
ATOM	998	H	VAL A 300	20.024	-29.237	-47.446	1.00	0.00	H
ATOM	999	N	GLY A 301	22.529	-27.778	-47.340	1.00	38.24	N
ATOM	1000	CA	GLY A 301	23.466	-27.114	-46.436	1.00	37.87	C
ATOM	1001	C	GLY A 301	22.743	-26.305	-45.353	1.00	37.71	C
ATOM	1002	O	GLY A 301	21.701	-26.724	-44.860	1.00	37.88	O
ATOM	1003	H	GLY A 301	22.290	-28.738	-47.149	1.00	0.00	H
ATOM	1004	N	ASP A 302	23.335	-25.183	-44.948	1.00	29.01	N
ATOM	1005	CA	ASP A 302	22.908	-24.343	-43.820	1.00	28.85	C

ATOM	1006	C	ASP A 302	21.398	-23.977	-43.869	1.00	28.88	C
ATOM	1007	O	ASP A 302	20.968	-23.246	-44.769	1.00	28.76	O
ATOM	1008	CB	ASP A 302	23.832	-23.116	-43.788	1.00	28.51	C
ATOM	1009	CG	ASP A 302	23.573	-22.135	-42.638	1.00	28.35	C
ATOM	1010	OD1	ASP A 302	22.392	-21.792	-42.417	1.00	28.51	O
ATOM	1011	OD2	ASP A 302	24.564	-21.501	-42.228	1.00	28.09	O
ATOM	1012	H	ASP A 302	24.144	-24.864	-45.455	1.00	0.00	H
ATOM	1013	N	PRO A 303	20.582	-24.454	-42.904	1.00	29.07	N
ATOM	1014	CA	PRO A 303	19.149	-24.176	-42.857	1.00	29.18	C
ATOM	1015	C	PRO A 303	18.764	-22.710	-42.663	1.00	28.93	C
ATOM	1016	O	PRO A 303	17.672	-22.324	-43.071	1.00	28.97	O
ATOM	1017	CB	PRO A 303	18.629	-24.989	-41.674	1.00	29.41	C
ATOM	1018	CG	PRO A 303	19.568	-26.185	-41.626	1.00	29.52	C
ATOM	1019	CD	PRO A 303	20.900	-25.519	-41.955	1.00	29.21	C
ATOM	1020	N	ILE A 304	19.603	-21.880	-42.038	1.00	28.67	N
ATOM	1021	CA	ILE A 304	19.321	-20.449	-41.842	1.00	28.45	C
ATOM	1022	C	ILE A 304	19.552	-19.687	-43.149	1.00	28.38	C
ATOM	1023	O	ILE A 304	18.659	-18.987	-43.634	1.00	28.33	O
ATOM	1024	CB	ILE A 304	20.190	-19.891	-40.689	1.00	28.19	C
ATOM	1025	CG1	ILE A 304	19.950	-20.631	-39.354	1.00	28.25	C
ATOM	1026	CG2	ILE A 304	19.987	-18.375	-40.510	1.00	27.99	C
ATOM	1027	CD1	ILE A 304	18.536	-20.497	-38.768	1.00	28.30	C
ATOM	1028	H	ILE A 304	20.554	-22.197	-41.856	1.00	0.00	H
ATOM	1029	N	LEU A 305	20.673	-19.970	-43.819	1.00	28.40	N
ATOM	1030	CA	LEU A 305	21.036	-19.400	-45.118	1.00	28.32	C
ATOM	1031	C	LEU A 305	20.267	-20.019	-46.303	1.00	28.53	C
ATOM	1032	O	LEU A 305	20.334	-19.488	-47.414	1.00	28.48	O



ATOM	1033	CB	LEU A 305	22.561	-19.507	-45.306	1.00	28.17	C
ATOM	1034	CG	LEU A 305	23.409	-18.823	-44.211	1.00	27.94	C
ATOM	1035	CD1	LEU A 305	24.893	-19.021	-44.521	1.00	27.86	C
ATOM	1036	CD2	LEU A 305	23.146	-17.316	-44.122	1.00	27.76	C
ATOM	1037	H	LEU A 305	21.330	-20.614	-43.370	1.00	0.00	H
ATOM	1038	N	ASN A 306	19.490	-21.088	-46.092	1.00	28.79	N
ATOM	1039	CA	ASN A 306	18.670	-21.736	-47.125	1.00	29.02	C
ATOM	1040	C	ASN A 306	17.295	-22.229	-46.621	1.00	29.27	C
ATOM	1041	O	ASN A 306	16.687	-23.113	-47.223	1.00	29.56	O
ATOM	1042	CB	ASN A 306	19.506	-22.812	-47.861	1.00	29.14	C
ATOM	1043	CG	ASN A 306	19.685	-22.480	-49.331	1.00	29.16	C
ATOM	1044	OD1	ASN A 306	19.054	-23.053	-50.204	1.00	29.42	O
ATOM	1045	ND2	ASN A 306	20.260	-21.338	-49.629	1.00	28.91	N
ATOM	1046	H	ASN A 306	19.628	-21.581	-45.214	1.00	0.00	H
ATOM	1047	1HD2	ASN A 306	20.570	-20.723	-48.883	1.00	0.00	H
ATOM	1048	2HD2	ASN A 306	20.264	-21.069	-50.593	1.00	0.00	H
ATOM	1049	N	SER A 307	16.679	-21.504	-45.680	1.00	37.31	N
ATOM	1050	CA	SER A 307	15.384	-21.867	-45.067	1.00	37.51	C
ATOM	1051	C	SER A 307	14.205	-22.026	-46.044	1.00	37.80	C
ATOM	1052	O	SER A 307	13.201	-22.648	-45.695	1.00	38.09	O
ATOM	1053	CB	SER A 307	15.010	-20.798	-44.036	1.00	37.32	C
ATOM	1054	OG	SER A 307	13.794	-21.127	-43.399	1.00	37.52	O
ATOM	1055	H	SER A 307	17.258	-20.848	-45.167	1.00	0.00	H
ATOM	1056	HG	SER A 307	13.181	-21.505	-44.043	1.00	0.00	H
ATOM	1057	N	THR A 308	14.250	-21.373	-47.211	1.00	47.88	N
ATOM	1058	CA	THR A 308	13.223	-21.512	-48.267	1.00	48.11	C
ATOM	1059	C	THR A 308	13.362	-22.796	-49.094	1.00	48.41	C

ATOM	1060	O	THR A 308	12.437	-23.143	-49.823	1.00	48.70	O
ATOM	1061	CB	THR A 308	13.214	-20.278	-49.183	1.00	47.94	C
ATOM	1062	OG1	THR A 308	12.090	-20.308	-50.026	1.00	48.12	O
ATOM	1063	CG2	THR A 308	14.452	-20.149	-50.074	1.00	47.91	C
ATOM	1064	H	THR A 308	15.103	-20.884	-47.434	1.00	0.00	H
ATOM	1065	HG1	THR A 308	11.995	-21.216	-50.354	1.00	0.00	H
ATOM	1066	N	SER A 309	14.512	-23.465	-49.007	1.00	30.05	N
ATOM	1067	CA	SER A 309	14.844	-24.720	-49.694	1.00	30.35	C
ATOM	1068	C	SER A 309	14.860	-25.911	-48.725	1.00	30.55	C
ATOM	1069	O	SER A 309	14.755	-27.060	-49.146	1.00	30.83	O
ATOM	1070	CB	SER A 309	16.241	-24.607	-50.322	1.00	30.22	C
ATOM	1071	OG	SER A 309	16.469	-23.358	-50.947	1.00	30.03	O
ATOM	1072	H	SER A 309	15.252	-23.065	-48.445	1.00	0.00	H
ATOM	1073	HG	SER A 309	17.429	-23.190	-50.863	1.00	0.00	H
ATOM	1074	N	TRP A 310	15.109	-25.654	-47.436	1.00	30.42	N
ATOM	1075	CA	TRP A 310	15.312	-26.683	-46.416	1.00	30.56	C
ATOM	1076	C	TRP A 310	14.010	-27.414	-46.048	1.00	30.94	C
ATOM	1077	O	TRP A 310	13.085	-26.836	-45.478	1.00	30.94	O
ATOM	1078	CB	TRP A 310	15.995	-26.054	-45.190	1.00	30.25	C
ATOM	1079	CG	TRP A 310	16.273	-26.997	-44.058	1.00	30.32	C
ATOM	1080	CD1	TRP A 310	17.028	-28.116	-44.136	1.00	30.36	C
ATOM	1081	CD2	TRP A 310	15.765	-26.965	-42.687	1.00	30.34	C
ATOM	1082	NE1	TRP A 310	17.006	-28.780	-42.926	1.00	30.40	N
ATOM	1083	CE2	TRP A 310	16.231	-28.124	-41.998	1.00	30.38	C
ATOM	1084	CE3	TRP A 310	14.969	-26.065	-41.947	1.00	30.34	C
ATOM	1085	CZ2	TRP A 310	15.877	-28.414	-40.674	1.00	30.41	C
ATOM	1086	CZ3	TRP A 310	14.600	-26.343	-40.617	1.00	30.39	C

ATOM	1087	CH2 TRP A 310	15.039	-27.521	-39.985	1.00	30.42	C
ATOM	1088	H TRP A 310	15.291	-24.696	-47.174	1.00	0.00	H
ATOM	1089	HE1 TRP A 310	17.381	-29.717	-42.787	1.00	0.00	H
ATOM	1090	N THR A 311	13.988	-28.730	-46.259	1.00	63.68	N
ATOM	1091	CA THR A 311	13.044	-29.658	-45.620	1.00	64.05	C
ATOM	1092	C THR A 311	13.395	-29.802	-44.137	1.00	63.88	C
ATOM	1093	O THR A 311	14.513	-30.223	-43.848	1.00	63.62	O
ATOM	1094	CB THR A 311	13.144	-31.044	-46.283	1.00	64.38	C
ATOM	1095	OG1 THR A 311	14.486	-31.487	-46.273	1.00	64.15	O
ATOM	1096	CG2 THR A 311	12.672	-31.043	-47.736	1.00	64.60	C
ATOM	1097	H THR A 311	14.766	-29.147	-46.749	1.00	0.00	H
ATOM	1098	HG1 THR A 311	14.822	-31.301	-45.382	1.00	0.00	H
ATOM	1099	N GLU A 312	12.437	-29.637	-43.215	1.00	31.64	N
ATOM	1100	CA GLU A 312	12.686	-29.657	-41.754	1.00	31.46	C
ATOM	1101	C GLU A 312	12.916	-31.056	-41.137	1.00	31.70	C
ATOM	1102	O GLU A 312	12.334	-31.428	-40.120	1.00	31.93	O
ATOM	1103	CB GLU A 312	11.648	-28.810	-40.996	1.00	31.48	C
ATOM	1104	CG GLU A 312	10.209	-29.360	-40.955	1.00	31.91	C
ATOM	1105	CD GLU A 312	9.523	-29.123	-39.596	1.00	31.86	C
ATOM	1106	OE1 GLU A 312	8.442	-29.734	-39.427	1.00	32.21	O
ATOM	1107	OE2 GLU A 312	9.649	-27.990	-39.087	1.00	31.49	O
ATOM	1108	H GLU A 312	11.525	-29.334	-43.514	1.00	0.00	H
ATOM	1109	N SER A 313	13.772	-31.859	-41.768	1.00	31.66	N
ATOM	1110	CA SER A 313	14.220	-33.147	-41.247	1.00	31.95	C
ATOM	1111	C SER A 313	15.060	-32.943	-39.983	1.00	31.68	C
ATOM	1112	O SER A 313	16.156	-32.379	-40.026	1.00	31.28	O
ATOM	1113	CB SER A 313	15.004	-33.891	-42.327	1.00	32.07	C

ATOM	1114	OG	SER A 313	15.368	-35.179	-41.871	1.00	32.36	O
ATOM	1115	H	SER A 313	14.290	-31.450	-42.536	1.00	0.00	H
ATOM	1116	HG	SER A 313	15.892	-35.609	-42.551	1.00	0.00	H
ATOM	1117	N	LEU A 314	14.518	-33.353	-38.838	1.00	31.91	N
ATOM	1118	CA	LEU A 314	15.201	-33.325	-37.547	1.00	31.66	C
ATOM	1119	C	LEU A 314	15.597	-34.742	-37.129	1.00	31.94	C
ATOM	1120	O	LEU A 314	14.848	-35.702	-37.334	1.00	32.37	O
ATOM	1121	CB	LEU A 314	14.324	-32.622	-36.493	1.00	31.53	C
ATOM	1122	CG	LEU A 314	13.955	-31.159	-36.822	1.00	31.20	C
ATOM	1123	CD1	LEU A 314	13.219	-30.532	-35.636	1.00	31.20	C
ATOM	1124	CD2	LEU A 314	15.189	-30.303	-37.113	1.00	30.76	C
ATOM	1125	H	LEU A 314	13.597	-33.764	-38.874	1.00	0.00	H
ATOM	1126	N	SER A 315	16.735	-34.866	-36.448	1.00	31.68	N
ATOM	1127	CA	SER A 315	17.180	-36.144	-35.890	1.00	31.89	C
ATOM	1128	C	SER A 315	17.784	-35.980	-34.504	1.00	31.54	C
ATOM	1129	O	SER A 315	18.568	-35.062	-34.265	1.00	31.11	O
ATOM	1130	CB	SER A 315	18.134	-36.856	-36.846	1.00	32.00	C
ATOM	1131	OG	SER A 315	19.362	-36.162	-36.999	1.00	31.65	O
ATOM	1132	H	SER A 315	17.292	-34.038	-36.256	1.00	0.00	H
ATOM	1133	HG	SER A 315	19.170	-35.217	-36.925	1.00	0.00	H
ATOM	1134	N	LEU A 316	17.384	-36.851	-33.583	1.00	31.74	N
ATOM	1135	CA	LEU A 316	17.939	-36.928	-32.240	1.00	31.44	C
ATOM	1136	C	LEU A 316	18.898	-38.114	-32.151	1.00	31.58	C
ATOM	1137	O	LEU A 316	18.556	-39.240	-32.513	1.00	32.03	O
ATOM	1138	CB	LEU A 316	16.792	-36.954	-31.214	1.00	31.53	C
ATOM	1139	CG	LEU A 316	17.273	-36.978	-29.750	1.00	31.25	C
ATOM	1140	CD1	LEU A 316	16.301	-36.196	-28.865	1.00	31.16	C

ATOM	1141	CD2 LEU A 316	17.364	-38.403	-29.197	1.00	31.53	C
ATOM	1142	H LEU A 316	16.810	-37.629	-33.893	1.00	0.00	H
ATOM	1143	N ILE A 317	20.070	-37.872	-31.582	1.00	31.20	N
ATOM	1144	CA ILE A 317	20.992	-38.898	-31.109	1.00	31.26	C
ATOM	1145	C ILE A 317	20.883	-38.945	-29.583	1.00	31.02	C
ATOM	1146	O ILE A 317	20.764	-37.904	-28.939	1.00	30.58	O
ATOM	1147	CB ILE A 317	22.433	-38.618	-31.601	1.00	31.04	C
ATOM	1148	CG1 ILE A 317	22.492	-38.330	-33.122	1.00	31.28	C
ATOM	1149	CG2 ILE A 317	23.350	-39.814	-31.288	1.00	31.13	C
ATOM	1150	CD1 ILE A 317	22.469	-36.836	-33.474	1.00	31.03	C
ATOM	1151	H ILE A 317	20.258	-36.920	-31.278	1.00	0.00	H
ATOM	1152	N ARG A 318	20.995	-40.126	-28.977	1.00	31.34	N
ATOM	1153	CA ARG A 318	21.327	-40.251	-27.550	1.00	31.16	C
ATOM	1154	C ARG A 318	22.633	-41.012	-27.393	1.00	31.10	C
ATOM	1155	O ARG A 318	22.848	-42.006	-28.089	1.00	31.47	O
ATOM	1156	CB ARG A 318	20.135	-40.799	-26.742	1.00	31.56	C
ATOM	1157	CG ARG A 318	19.896	-42.318	-26.838	1.00	32.13	C
ATOM	1158	CD ARG A 318	20.722	-43.107	-25.809	1.00	32.27	C
ATOM	1159	NE ARG A 318	20.310	-44.519	-25.708	1.00	32.85	N
ATOM	1160	CZ ARG A 318	19.320	-44.995	-24.975	1.00	33.29	C
ATOM	1161	NH1 ARG A 318	18.534	-44.231	-24.269	1.00	33.24	N
ATOM	1162	NH2 ARG A 318	19.083	-46.273	-24.972	1.00	33.82	N
ATOM	1163	H ARG A 318	21.082	-40.947	-29.570	1.00	0.00	H
ATOM	1164	HE ARG A 318	20.950	-45.211	-26.078	1.00	0.00	H
ATOM	1165	1HH1 ARG A 318	18.831	-43.284	-24.106	1.00	0.00	H
ATOM	1166	2HH1 ARG A 318	17.925	-44.634	-23.582	1.00	0.00	H
ATOM	1167	1HH2 ARG A 318	19.667	-46.870	-25.556	1.00	0.00	H

ATOM	1168	2HH2	ARG A 318	18.344	-46.657	-24.418	1.00	0.00	H
ATOM	1169	N	LEU A 319	23.464	-40.576	-26.455	1.00	30.64	N
ATOM	1170	CA	LEU A 319	24.765	-41.166	-26.144	1.00	30.54	C
ATOM	1171	C	LEU A 319	24.841	-41.404	-24.632	1.00	30.35	C
ATOM	1172	O	LEU A 319	24.603	-40.485	-23.849	1.00	29.99	O
ATOM	1173	CB	LEU A 319	25.889	-40.227	-26.632	1.00	30.17	C
ATOM	1174	CG	LEU A 319	25.898	-39.897	-28.139	1.00	30.26	C
ATOM	1175	CD1	LEU A 319	26.962	-38.844	-28.449	1.00	29.80	C
ATOM	1176	CD2	LEU A 319	26.195	-41.124	-28.999	1.00	30.72	C
ATOM	1177	H	LEU A 319	23.208	-39.735	-25.942	1.00	0.00	H
ATOM	1178	N	ALA A 320	25.099	-42.644	-24.213	1.00	30.61	N
ATOM	1179	CA	ALA A 320	25.290	-42.964	-22.800	1.00	30.44	C
ATOM	1180	C	ALA A 320	26.560	-42.285	-22.263	1.00	29.90	C
ATOM	1181	O	ALA A 320	27.632	-42.450	-22.847	1.00	29.81	O
ATOM	1182	CB	ALA A 320	25.332	-44.484	-22.612	1.00	30.84	C
ATOM	1183	H	ALA A 320	25.276	-43.367	-24.898	1.00	0.00	H
ATOM	1184	N	VAL A 321	26.457	-41.558	-21.150	1.00	55.87	N
ATOM	1185	CA	VAL A 321	27.574	-40.804	-20.543	1.00	55.36	C
ATOM	1186	C	VAL A 321	28.640	-41.714	-19.925	1.00	55.36	C
ATOM	1187	O	VAL A 321	29.812	-41.350	-19.889	1.00	55.04	O
ATOM	1188	CB	VAL A 321	27.066	-39.794	-19.493	1.00	54.95	C
ATOM	1189	CG1	VAL A 321	26.022	-38.846	-20.097	1.00	54.90	C
ATOM	1190	CG2	VAL A 321	26.477	-40.467	-18.244	1.00	55.05	C
ATOM	1191	H	VAL A 321	25.541	-41.496	-20.710	1.00	0.00	H
ATOM	1192	N	ARG A 322	28.264	-42.956	-19.596	1.00	37.18	N
ATOM	1193	CA	ARG A 322	29.091	-43.948	-18.894	1.00	37.18	C
ATOM	1194	C	ARG A 322	28.913	-45.340	-19.536	1.00	37.74	C

ATOM	1195	O	ARG A 322	28.294	-46.225	-18.950	1.00	38.00	O
ATOM	1196	CB	ARG A 322	28.709	-43.858	-17.410	1.00	37.05	C
ATOM	1197	CG	ARG A 322	29.694	-44.531	-16.445	1.00	36.97	C
ATOM	1198	CD	ARG A 322	29.337	-44.217	-14.981	1.00	36.47	C
ATOM	1199	NE	ARG A 322	28.027	-44.784	-14.591	1.00	36.59	N
ATOM	1200	CZ	ARG A 322	26.842	-44.204	-14.700	1.00	36.64	C
ATOM	1201	NH1	ARG A 322	26.672	-42.964	-15.050	1.00	36.58	N
ATOM	1202	NH2	ARG A 322	25.764	-44.904	-14.536	1.00	36.77	N
ATOM	1203	H	ARG A 322	27.278	-43.156	-19.682	1.00	0.00	H
ATOM	1204	HE	ARG A 322	28.020	-45.745	-14.308	1.00	0.00	H
ATOM	1205	1HH1	ARG A 322	27.463	-42.387	-15.274	1.00	0.00	H
ATOM	1206	2HH1	ARG A 322	25.712	-42.687	-15.276	1.00	0.00	H
ATOM	1207	1HH2	ARG A 322	25.793	-45.899	-14.511	1.00	0.00	H
ATOM	1208	2HH2	ARG A 322	24.901	-44.498	-14.924	1.00	0.00	H
ATOM	1209	N	PRO A 323	29.234	-45.477	-20.837	1.00	30.14	N
ATOM	1210	CA	PRO A 323	28.738	-46.534	-21.722	1.00	30.74	C
ATOM	1211	C	PRO A 323	29.149	-47.934	-21.237	1.00	31.12	C
ATOM	1212	O	PRO A 323	29.228	-48.878	-22.028	1.00	31.05	O
ATOM	1213	CB	PRO A 323	29.303	-46.174	-23.105	1.00	30.74	C
ATOM	1214	CG	PRO A 323	30.610	-45.469	-22.760	1.00	30.17	C
ATOM	1215	CD	PRO A 323	30.194	-44.646	-21.547	1.00	29.79	C
ATOM	1216	N	ASP A 329	22.436	-50.639	-28.123	1.00	34.57	N
ATOM	1217	CA	ASP A 329	21.606	-49.435	-28.176	1.00	34.22	C
ATOM	1218	C	ASP A 329	21.352	-48.781	-26.805	1.00	33.80	C
ATOM	1219	O	ASP A 329	20.647	-47.770	-26.711	1.00	33.55	O
ATOM	1220	CB	ASP A 329	20.295	-49.716	-28.922	1.00	34.68	C
ATOM	1221	CG	ASP A 329	20.503	-49.898	-30.427	1.00	34.80	C

ATOM	1222	OD1 ASP A 329	21.168	-50.880	-30.804	1.00	34.33	O
ATOM	1223	OD2 ASP A 329	19.705	-49.262	-31.160	1.00	35.36	O
ATOM	1224	H ASP A 329	22.454	-51.205	-28.975	1.00	0.00	H
ATOM	1225	N TYR A 330	21.992	-49.276	-25.740	1.00	33.72	N
ATOM	1226	CA TYR A 330	22.263	-48.463	-24.546	1.00	33.20	C
ATOM	1227	C TYR A 330	23.263	-47.349	-24.886	1.00	32.60	C
ATOM	1228	O TYR A 330	22.895	-46.175	-24.919	1.00	32.21	O
ATOM	1229	CB TYR A 330	22.771	-49.346	-23.390	1.00	33.19	C
ATOM	1230	CG TYR A 330	23.259	-48.568	-22.172	1.00	32.61	C
ATOM	1231	CD1 TYR A 330	22.338	-47.885	-21.351	1.00	32.26	C
ATOM	1232	CD2 TYR A 330	24.634	-48.509	-21.866	1.00	32.45	C
ATOM	1233	CE1 TYR A 330	22.785	-47.122	-20.250	1.00	31.77	C
ATOM	1234	CE2 TYR A 330	25.080	-47.761	-20.757	1.00	31.93	C
ATOM	1235	CZ TYR A 330	24.162	-47.060	-19.947	1.00	31.61	C
ATOM	1236	OH TYR A 330	24.632	-46.334	-18.897	1.00	31.12	O
ATOM	1237	H TYR A 330	22.543	-50.109	-25.900	1.00	0.00	H
ATOM	1238	HH TYR A 330	23.968	-46.062	-18.248	1.00	0.00	H
ATOM	1239	N ASN A 331	24.436	-47.752	-25.383	1.00	32.56	N
ATOM	1240	CA ASN A 331	25.605	-46.900	-25.601	1.00	32.02	C
ATOM	1241	C ASN A 331	25.331	-45.725	-26.551	1.00	31.95	C
ATOM	1242	O ASN A 331	25.723	-44.597	-26.258	1.00	31.51	O
ATOM	1243	CB ASN A 331	26.769	-47.770	-26.130	1.00	32.05	C
ATOM	1244	CG ASN A 331	27.141	-48.938	-25.224	1.00	32.09	C
ATOM	1245	OD1 ASN A 331	26.299	-49.681	-24.751	1.00	31.93	O
ATOM	1246	ND2 ASN A 331	28.402	-49.104	-24.911	1.00	32.30	N
ATOM	1247	H ASN A 331	24.631	-48.746	-25.324	1.00	0.00	H
ATOM	1248	1HD2 ASN A 331	29.108	-48.481	-25.252	1.00	0.00	H



ATOM	1249	2HD2	ASN	A 331	28.594	-49.729	-24.140	1.00	0.00	H
ATOM	1250	N	GLN	A 332	24.650	-45.976	-27.671	1.00	32.39	N
ATOM	1251	CA	GLN	A 332	24.299	-44.978	-28.685	1.00	32.30	C
ATOM	1252	C	GLN	A 332	22.949	-45.341	-29.316	1.00	32.80	C
ATOM	1253	O	GLN	A 332	22.684	-46.521	-29.535	1.00	33.32	O
ATOM	1254	CB	GLN	A 332	25.379	-44.901	-29.786	1.00	32.24	C
ATOM	1255	CG	GLN	A 332	26.811	-44.674	-29.270	1.00	31.71	C
ATOM	1256	CD	GLN	A 332	27.807	-44.297	-30.363	1.00	31.54	C
ATOM	1257	OE1	GLN	A 332	27.565	-44.419	-31.553	1.00	31.87	O
ATOM	1258	NE2	GLN	A 332	28.975	-43.841	-29.977	1.00	31.04	N
ATOM	1259	H	GLN	A 332	24.312	-46.915	-27.826	1.00	0.00	H
ATOM	1260	1HE2	GLN	A 332	29.169	-43.717	-28.988	1.00	0.00	H
ATOM	1261	2HE2	GLN	A 332	29.648	-43.549	-30.674	1.00	0.00	H
ATOM	1262	N	LYS	A 333	22.153	-44.351	-29.735	1.00	32.66	N
ATOM	1263	CA	LYS	A 333	21.011	-44.566	-30.644	1.00	33.07	C
ATOM	1264	C	LYS	A 333	20.738	-43.320	-31.483	1.00	32.84	C
ATOM	1265	O	LYS	A 333	20.755	-42.214	-30.951	1.00	32.33	O
ATOM	1266	CB	LYS	A 333	19.764	-45.008	-29.853	1.00	33.24	C
ATOM	1267	CG	LYS	A 333	18.697	-45.631	-30.764	1.00	33.61	C
ATOM	1268	CD	LYS	A 333	17.467	-46.065	-29.953	1.00	33.92	C
ATOM	1269	CE	LYS	A 333	16.652	-47.132	-30.697	1.00	34.58	C
ATOM	1270	NZ	LYS	A 333	17.302	-48.463	-30.637	1.00	34.67	N1+
ATOM	1271	H	LYS	A 333	22.411	-43.396	-29.493	1.00	0.00	H
ATOM	1272	HZ1	LYS	A 333	16.801	-49.177	-31.142	1.00	0.00	H
ATOM	1273	HZ2	LYS	A 333	17.484	-48.775	-29.692	1.00	0.00	H
ATOM	1274	HZ3	LYS	A 333	18.233	-48.447	-31.072	1.00	0.00	H
ATOM	1275	N	TYR	A 334	20.411	-43.515	-32.759	1.00	33.24	N

ATOM	1276	CA	TYR A 334	19.962	-42.473	-33.691	1.00	33.11	C
ATOM	1277	C	TYR A 334	18.449	-42.581	-33.944	1.00	33.44	C
ATOM	1278	O	TYR A 334	17.930	-43.687	-34.101	1.00	33.93	O
ATOM	1279	CB	TYR A 334	20.763	-42.611	-34.996	1.00	33.28	C
ATOM	1280	CG	TYR A 334	20.545	-41.494	-35.999	1.00	32.90	C
ATOM	1281	CD1	TYR A 334	19.536	-41.593	-36.979	1.00	33.04	C
ATOM	1282	CD2	TYR A 334	21.367	-40.353	-35.954	1.00	32.40	C
ATOM	1283	CE1	TYR A 334	19.352	-40.550	-37.910	1.00	32.68	C
ATOM	1284	CE2	TYR A 334	21.163	-39.294	-36.858	1.00	32.06	C
ATOM	1285	CZ	TYR A 334	20.167	-39.400	-37.850	1.00	32.19	C
ATOM	1286	OH	TYR A 334	19.969	-38.378	-38.722	1.00	31.85	O
ATOM	1287	H	TYR A 334	20.363	-44.464	-33.091	1.00	0.00	H
ATOM	1288	HH	TYR A 334	20.019	-37.527	-38.262	1.00	0.00	H
ATOM	1289	N	ILE A 335	17.752	-41.448	-34.044	1.00	33.18	N
ATOM	1290	CA	ILE A 335	16.310	-41.345	-34.314	1.00	33.48	C
ATOM	1291	C	ILE A 335	16.084	-40.233	-35.345	1.00	33.30	C
ATOM	1292	O	ILE A 335	16.319	-39.064	-35.050	1.00	32.82	O
ATOM	1293	CB	ILE A 335	15.519	-41.071	-33.004	1.00	33.41	C
ATOM	1294	CG1	ILE A 335	15.700	-42.218	-31.980	1.00	33.82	C
ATOM	1295	CG2	ILE A 335	14.023	-40.839	-33.304	1.00	33.54	C
ATOM	1296	CD1	ILE A 335	15.024	-41.975	-30.623	1.00	33.89	C
ATOM	1297	H	ILE A 335	18.227	-40.578	-33.815	1.00	0.00	H
ATOM	1298	N	ALA A 336	15.507	-40.563	-36.503	1.00	48.91	N
ATOM	1299	CA	ALA A 336	14.855	-39.574	-37.365	1.00	48.81	C
ATOM	1300	C	ALA A 336	13.444	-39.276	-36.825	1.00	48.88	C
ATOM	1301	O	ALA A 336	12.671	-40.204	-36.576	1.00	49.36	O
ATOM	1302	CB	ALA A 336	14.820	-40.108	-38.801	1.00	49.23	C

ATOM	1303	H	ALA A 336	15.260	-41.528	-36.650	1.00	0.00	H
ATOM	1304	N	ILE A 337	13.132	-38.007	-36.555	1.00	33.24	N
ATOM	1305	CA	ILE A 337	11.854	-37.619	-35.943	1.00	33.27	C
ATOM	1306	C	ILE A 337	10.745	-37.584	-36.999	1.00	33.57	C
ATOM	1307	O	ILE A 337	10.852	-36.909	-38.017	1.00	33.45	O
ATOM	1308	CB	ILE A 337	12.017	-36.291	-35.177	1.00	32.73	C
ATOM	1309	CG1	ILE A 337	12.875	-36.522	-33.908	1.00	32.41	C
ATOM	1310	CG2	ILE A 337	10.665	-35.690	-34.761	1.00	32.81	C
ATOM	1311	CD1	ILE A 337	13.977	-35.475	-33.772	1.00	31.85	C
ATOM	1312	H	ILE A 337	13.774	-37.267	-36.827	1.00	0.00	H
ATOM	1313	N	THR A 338	9.645	-38.289	-36.725	1.00	33.99	N
ATOM	1314	CA	THR A 338	8.498	-38.439	-37.643	1.00	34.40	C
ATOM	1315	C	THR A 338	7.315	-37.519	-37.323	1.00	34.37	C
ATOM	1316	O	THR A 338	6.333	-37.512	-38.064	1.00	34.43	O
ATOM	1317	CB	THR A 338	8.022	-39.899	-37.683	1.00	35.02	C
ATOM	1318	OG1	THR A 338	7.709	-40.356	-36.386	1.00	35.10	O
ATOM	1319	CG2	THR A 338	9.081	-40.844	-38.252	1.00	35.14	C
ATOM	1320	H	THR A 338	9.632	-38.830	-35.874	1.00	0.00	H
ATOM	1321	HG1	THR A 338	8.436	-40.915	-36.101	1.00	0.00	H
ATOM	1322	N	LYS A 339	7.394	-36.723	-36.246	1.00	44.67	N
ATOM	1323	CA	LYS A 339	6.368	-35.754	-35.830	1.00	44.64	C
ATOM	1324	C	LYS A 339	7.001	-34.518	-35.195	1.00	44.06	C
ATOM	1325	O	LYS A 339	7.706	-34.636	-34.193	1.00	43.81	O
ATOM	1326	CB	LYS A 339	5.399	-36.389	-34.823	1.00	45.08	C
ATOM	1327	CG	LYS A 339	4.450	-37.428	-35.434	1.00	45.68	C
ATOM	1328	CD	LYS A 339	3.465	-37.887	-34.356	1.00	46.21	C
ATOM	1329	CE	LYS A 339	2.395	-38.812	-34.929	1.00	46.84	C

ATOM	1330	NZ	LYS A 339	1.403	-39.148	-33.878	1.00	47.34	N1+
ATOM	1331	H	LYS A 339	8.243	-36.763	-35.699	1.00	0.00	H
ATOM	1332	HZ1	LYS A 339	0.676	-39.745	-34.247	1.00	0.00	H
ATOM	1333	HZ2	LYS A 339	0.983	-38.297	-33.520	1.00	0.00	H
ATOM	1334	HZ3	LYS A 339	1.858	-39.618	-33.106	1.00	0.00	H
ATOM	1335	N	VAL A 340	6.590	-33.344	-35.671	1.00	33.47	N
ATOM	1336	CA	VAL A 340	6.974	-32.042	-35.117	1.00	32.97	C
ATOM	1337	C	VAL A 340	5.751	-31.124	-35.114	1.00	33.00	C
ATOM	1338	O	VAL A 340	5.136	-30.895	-36.154	1.00	33.08	O
ATOM	1339	CB	VAL A 340	8.144	-31.405	-35.896	1.00	32.55	C
ATOM	1340	CG1	VAL A 340	8.675	-30.188	-35.137	1.00	32.09	C
ATOM	1341	CG2	VAL A 340	9.329	-32.359	-36.108	1.00	32.46	C
ATOM	1342	H	VAL A 340	5.960	-33.333	-36.458	1.00	0.00	H
ATOM	1343	N	GLU A 341	5.341	-30.652	-33.941	1.00	49.50	N
ATOM	1344	CA	GLU A 341	4.078	-29.938	-33.728	1.00	49.55	C
ATOM	1345	C	GLU A 341	4.362	-28.475	-33.355	1.00	49.06	C
ATOM	1346	O	GLU A 341	4.981	-28.189	-32.331	1.00	48.77	O
ATOM	1347	CB	GLU A 341	3.234	-30.675	-32.672	1.00	49.79	C
ATOM	1348	CG	GLU A 341	2.808	-32.075	-33.165	1.00	50.32	C
ATOM	1349	CD	GLU A 341	2.043	-32.921	-32.134	1.00	50.60	C
ATOM	1350	OE1	GLU A 341	2.082	-32.579	-30.928	1.00	50.33	O
ATOM	1351	OE2	GLU A 341	1.618	-34.032	-32.534	1.00	51.10	O
ATOM	1352	H	GLU A 341	5.866	-30.920	-33.111	1.00	0.00	H
ATOM	1353	N	ARG A 342	4.044	-27.543	-34.267	1.00	32.42	N
ATOM	1354	CA	ARG A 342	4.571	-26.161	-34.234	1.00	31.99	C
ATOM	1355	C	ARG A 342	3.576	-25.054	-34.609	1.00	32.01	C
ATOM	1356	O	ARG A 342	3.972	-23.962	-35.009	1.00	31.69	O

ATOM	1357	CB	ARG A 342	5.925	-26.076	-34.970	1.00	31.67	C
ATOM	1358	CG	ARG A 342	5.940	-26.320	-36.489	1.00	31.83	C
ATOM	1359	CD	ARG A 342	5.754	-27.792	-36.898	1.00	32.12	C
ATOM	1360	NE	ARG A 342	6.327	-28.106	-38.220	1.00	32.19	N
ATOM	1361	CZ	ARG A 342	6.017	-27.592	-39.394	1.00	32.47	C
ATOM	1362	NH1	ARG A 342	5.168	-26.627	-39.571	1.00	32.71	N
ATOM	1363	NH2	ARG A 342	6.628	-27.982	-40.456	1.00	32.50	N
ATOM	1364	H	ARG A 342	3.613	-27.868	-35.119	1.00	0.00	H
ATOM	1365	HE	ARG A 342	7.083	-28.795	-38.267	1.00	0.00	H
ATOM	1366	1HH1	ARG A 342	4.839	-26.086	-38.798	1.00	0.00	H
ATOM	1367	2HH1	ARG A 342	5.221	-26.165	-40.461	1.00	0.00	H
ATOM	1368	1HH2	ARG A 342	7.363	-28.665	-40.272	1.00	0.00	H
ATOM	1369	2HH2	ARG A 342	6.716	-27.339	-41.231	1.00	0.00	H
ATOM	1370	N	GLY A 343	2.279	-25.299	-34.424	1.00	32.41	N
ATOM	1371	CA	GLY A 343	1.241	-24.266	-34.533	1.00	32.51	C
ATOM	1372	C	GLY A 343	1.241	-23.542	-35.887	1.00	32.44	C
ATOM	1373	O	GLY A 343	1.014	-24.167	-36.920	1.00	32.74	O
ATOM	1374	H	GLY A 343	2.026	-26.199	-34.049	1.00	0.00	H
ATOM	1375	N	LYS A 344	1.447	-22.216	-35.878	1.00	32.05	N
ATOM	1376	CA	LYS A 344	1.487	-21.372	-37.090	1.00	31.95	C
ATOM	1377	C	LYS A 344	2.871	-21.250	-37.749	1.00	31.64	C
ATOM	1378	O	LYS A 344	2.976	-20.586	-38.778	1.00	31.67	O
ATOM	1379	CB	LYS A 344	0.877	-19.984	-36.783	1.00	31.81	C
ATOM	1380	CG	LYS A 344	-0.319	-19.627	-37.685	1.00	32.03	C
ATOM	1381	CD	LYS A 344	0.033	-19.432	-39.170	1.00	31.88	C
ATOM	1382	CE	LYS A 344	-1.245	-19.149	-39.969	1.00	32.20	C
ATOM	1383	NZ	LYS A 344	-0.968	-18.970	-41.414	1.00	32.04	N1+

ATOM	1384	H	LYS A 344	1.653	-21.781	-34.989	1.00	0.00	H
ATOM	1385	HZ1	LYS A 344	-0.380	-19.695	-41.793	1.00	0.00	H
ATOM	1386	HZ2	LYS A 344	-0.503	-18.074	-41.591	1.00	0.00	H
ATOM	1387	HZ3	LYS A 344	-1.813	-18.886	-41.958	1.00	0.00	H
ATOM	1388	N	TYR A 345	3.925	-21.834	-37.175	1.00	31.63	N
ATOM	1389	CA	TYR A 345	5.253	-21.852	-37.799	1.00	31.32	C
ATOM	1390	C	TYR A 345	5.272	-22.804	-38.998	1.00	31.52	C
ATOM	1391	O	TYR A 345	4.770	-23.925	-38.926	1.00	31.84	O
ATOM	1392	CB	TYR A 345	6.342	-22.182	-36.768	1.00	31.08	C
ATOM	1393	CG	TYR A 345	6.509	-21.056	-35.772	1.00	30.90	C
ATOM	1394	CD1	TYR A 345	5.715	-21.007	-34.612	1.00	31.05	C
ATOM	1395	CD2	TYR A 345	7.365	-19.982	-36.078	1.00	30.61	C
ATOM	1396	CE1	TYR A 345	5.729	-19.858	-33.799	1.00	30.91	C
ATOM	1397	CE2	TYR A 345	7.389	-18.837	-35.264	1.00	30.48	C
ATOM	1398	CZ	TYR A 345	6.543	-18.758	-34.144	1.00	30.63	C
ATOM	1399	OH	TYR A 345	6.492	-17.603	-33.439	1.00	30.51	O
ATOM	1400	H	TYR A 345	3.782	-22.425	-36.367	1.00	0.00	H
ATOM	1401	HH	TYR A 345	5.833	-17.687	-32.699	1.00	0.00	H
ATOM	1402	N	ASP A 346	5.869	-22.350	-40.101	1.00	31.10	N
ATOM	1403	CA	ASP A 346	6.030	-23.118	-41.345	1.00	31.28	C
ATOM	1404	C	ASP A 346	6.996	-24.298	-41.149	1.00	31.32	C
ATOM	1405	O	ASP A 346	6.691	-25.415	-41.580	1.00	31.66	O
ATOM	1406	CB	ASP A 346	6.495	-22.127	-42.427	1.00	31.04	C
ATOM	1407	CG	ASP A 346	6.955	-22.724	-43.768	1.00	31.26	C
ATOM	1408	OD1	ASP A 346	7.858	-23.583	-43.717	1.00	31.53	O
ATOM	1409	OD2	ASP A 346	6.922	-21.945	-44.746	1.00	31.17	O
ATOM	1410	H	ASP A 346	6.360	-21.466	-40.034	1.00	0.00	H

ATOM	1411	HB2 ASP A 346	5.683	-21.425	-42.615	1.00	0.00	H
ATOM	1412	HB3 ASP A 346	7.331	-21.560	-42.017	1.00	0.00	H
ATOM	1413	N LYS A 347	8.019	-24.088	-40.309	1.00	31.00	N
ATOM	1414	CA LYS A 347	9.024	-25.069	-39.880	1.00	31.01	C
ATOM	1415	C LYS A 347	9.731	-24.635	-38.585	1.00	30.69	C
ATOM	1416	O LYS A 347	9.635	-23.466	-38.201	1.00	30.42	O
ATOM	1417	CB LYS A 347	10.021	-25.317	-41.029	1.00	30.92	C
ATOM	1418	CG LYS A 347	10.678	-24.031	-41.554	1.00	30.70	C
ATOM	1419	CD LYS A 347	11.762	-24.261	-42.609	1.00	30.51	C
ATOM	1420	CE LYS A 347	11.314	-24.966	-43.893	1.00	30.82	C
ATOM	1421	NZ LYS A 347	10.284	-24.214	-44.642	1.00	31.19	N1+
ATOM	1422	H LYS A 347	8.125	-23.148	-39.943	1.00	0.00	H
ATOM	1423	HZ1 LYS A 347	10.019	-24.687	-45.490	1.00	0.00	H
ATOM	1424	HZ2 LYS A 347	10.584	-23.277	-44.885	1.00	0.00	H
ATOM	1425	HZ3 LYS A 347	9.424	-24.097	-44.097	1.00	0.00	H
ATOM	1426	N VAL A 348	10.462	-25.542	-37.932	1.00	30.74	N
ATOM	1427	CA VAL A 348	11.216	-25.325	-36.672	1.00	30.45	C
ATOM	1428	C VAL A 348	12.532	-26.126	-36.629	1.00	30.37	C
ATOM	1429	O VAL A 348	12.715	-27.076	-37.387	1.00	30.60	O
ATOM	1430	CB VAL A 348	10.369	-25.668	-35.427	1.00	30.60	C
ATOM	1431	CG1 VAL A 348	9.206	-24.701	-35.198	1.00	30.99	C
ATOM	1432	CG2 VAL A 348	9.812	-27.091	-35.479	1.00	30.67	C
ATOM	1433	H VAL A 348	10.440	-26.496	-38.302	1.00	0.00	H
ATOM	1434	N MET A 349	13.474	-25.744	-35.756	1.00	30.05	N
ATOM	1435	CA MET A 349	14.831	-26.317	-35.709	1.00	29.89	C
ATOM	1436	C MET A 349	15.505	-26.168	-34.324	1.00	29.58	C
ATOM	1437	O MET A 349	15.299	-25.136	-33.682	1.00	29.38	O

ATOM	1438	CB	MET A 349	15.657	-25.606	-36.795	1.00	29.75	C
ATOM	1439	CG	MET A 349	16.999	-26.261	-37.103	1.00	29.69	C
ATOM	1440	SD	MET A 349	18.024	-25.355	-38.282	1.00	29.34	S
ATOM	1441	CE	MET A 349	18.574	-23.966	-37.256	1.00	28.98	C
ATOM	1442	H	MET A 349	13.302	-24.907	-35.207	1.00	0.00	H
ATOM	1443	HB2	MET A 349	15.092	-25.600	-37.726	1.00	0.00	H
ATOM	1444	HB3	MET A 349	15.822	-24.574	-36.491	1.00	0.00	H
ATOM	1445	N	PRO A 350	16.368	-27.107	-33.871	1.00	29.54	N
ATOM	1446	CA	PRO A 350	17.294	-26.876	-32.750	1.00	29.23	C
ATOM	1447	C	PRO A 350	18.264	-25.722	-33.044	1.00	28.89	C
ATOM	1448	O	PRO A 350	18.670	-25.519	-34.188	1.00	28.87	O
ATOM	1449	CB	PRO A 350	18.069	-28.187	-32.573	1.00	29.24	C
ATOM	1450	CG	PRO A 350	18.061	-28.772	-33.984	1.00	29.53	C
ATOM	1451	CD	PRO A 350	16.663	-28.402	-34.472	1.00	29.80	C
ATOM	1452	N	TYR A 351	18.590	-24.917	-32.030	1.00	28.63	N
ATOM	1453	CA	TYR A 351	19.341	-23.674	-32.232	1.00	28.32	C
ATOM	1454	C	TYR A 351	20.016	-23.186	-30.940	1.00	28.05	C
ATOM	1455	O	TYR A 351	19.713	-22.114	-30.418	1.00	27.95	O
ATOM	1456	CB	TYR A 351	18.403	-22.623	-32.867	1.00	28.34	C
ATOM	1457	CG	TYR A 351	19.048	-21.560	-33.742	1.00	28.15	C
ATOM	1458	CD1	TYR A 351	18.568	-20.241	-33.675	1.00	28.01	C
ATOM	1459	CD2	TYR A 351	19.979	-21.910	-34.744	1.00	28.14	C
ATOM	1460	CE1	TYR A 351	18.960	-19.297	-34.639	1.00	27.86	C
ATOM	1461	CE2	TYR A 351	20.447	-20.939	-35.652	1.00	27.98	C
ATOM	1462	CZ	TYR A 351	19.924	-19.630	-35.609	1.00	27.84	C
ATOM	1463	OH	TYR A 351	20.328	-18.683	-36.496	1.00	27.70	O
ATOM	1464	H	TYR A 351	18.203	-25.107	-31.110	1.00	0.00	H



ATOM	1465	HH	TYR	A 351	19.667	-17.995	-36.600	1.00	0.00	H
ATOM	1466	N	GLY	A 352	20.890	-24.009	-30.358	1.00	61.59	N
ATOM	1467	CA	GLY	A 352	21.552	-23.673	-29.096	1.00	61.31	C
ATOM	1468	C	GLY	A 352	22.239	-24.860	-28.425	1.00	61.32	C
ATOM	1469	O	GLY	A 352	21.687	-25.952	-28.479	1.00	61.57	O
ATOM	1470	H	GLY	A 352	21.040	-24.929	-30.753	1.00	0.00	H
ATOM	1471	N	PRO	A 353	23.405	-24.702	-27.775	1.00	27.41	N
ATOM	1472	CA	PRO	A 353	24.228	-25.843	-27.368	1.00	27.40	C
ATOM	1473	C	PRO	A 353	23.640	-26.672	-26.211	1.00	27.59	C
ATOM	1474	O	PRO	A 353	23.677	-27.905	-26.267	1.00	27.81	O
ATOM	1475	CB	PRO	A 353	25.579	-25.225	-26.999	1.00	27.05	C
ATOM	1476	CG	PRO	A 353	25.225	-23.812	-26.536	1.00	26.92	C
ATOM	1477	CD	PRO	A 353	24.061	-23.444	-27.456	1.00	27.12	C
ATOM	1478	N	SER	A 354	23.019	-26.020	-25.222	1.00	27.51	N
ATOM	1479	CA	SER	A 354	22.569	-26.648	-23.974	1.00	27.64	C
ATOM	1480	C	SER	A 354	21.151	-26.224	-23.567	1.00	27.79	C
ATOM	1481	O	SER	A 354	20.751	-25.060	-23.686	1.00	27.72	O
ATOM	1482	CB	SER	A 354	23.597	-26.414	-22.855	1.00	27.36	C
ATOM	1483	OG	SER	A 354	23.932	-25.055	-22.653	1.00	27.06	O
ATOM	1484	H	SER	A 354	23.007	-25.012	-25.237	1.00	0.00	H
ATOM	1485	HG	SER	A 354	24.684	-25.048	-22.043	1.00	0.00	H
ATOM	1486	N	GLY	A 355	20.356	-27.239	-23.227	1.00	28.03	N
ATOM	1487	CA	GLY	A 355	18.976	-27.155	-22.758	1.00	28.21	C
ATOM	1488	C	GLY	A 355	18.775	-27.849	-21.408	1.00	28.15	C
ATOM	1489	O	GLY	A 355	19.743	-28.164	-20.716	1.00	27.85	O
ATOM	1490	H	GLY	A 355	20.767	-28.166	-23.214	1.00	0.00	H
ATOM	1491	N	ILE	A 356	17.518	-28.117	-21.034	1.00	28.45	N

ATOM	1492	CA	ILE A 356	17.182	-28.738	-19.741	1.00	28.46	C
ATOM	1493	C	ILE A 356	16.191	-29.893	-19.859	1.00	28.89	C
ATOM	1494	O	ILE A 356	15.198	-29.823	-20.574	1.00	29.19	O
ATOM	1495	CB	ILE A 356	16.704	-27.705	-18.693	1.00	28.26	C
ATOM	1496	CG1	ILE A 356	15.406	-26.972	-19.102	1.00	28.43	C
ATOM	1497	CG2	ILE A 356	17.847	-26.733	-18.368	1.00	27.82	C
ATOM	1498	CD1	ILE A 356	14.821	-26.095	-17.991	1.00	28.26	C
ATOM	1499	H	ILE A 356	16.773	-27.945	-21.701	1.00	0.00	H
ATOM	1500	N	LYS A 357	16.353	-30.862	-18.959	1.00	42.34	N
ATOM	1501	CA	LYS A 357	15.305	-31.792	-18.525	1.00	42.77	C
ATOM	1502	C	LYS A 357	14.466	-31.186	-17.398	1.00	42.88	C
ATOM	1503	O	LYS A 357	15.002	-30.493	-16.528	1.00	42.60	O
ATOM	1504	CB	LYS A 357	15.896	-33.169	-18.159	1.00	42.82	C
ATOM	1505	CG	LYS A 357	16.745	-33.253	-16.876	1.00	42.57	C
ATOM	1506	CD	LYS A 357	18.001	-32.366	-16.897	1.00	42.06	C
ATOM	1507	CE	LYS A 357	19.039	-32.862	-15.886	1.00	41.78	C
ATOM	1508	NZ	LYS A 357	20.409	-32.719	-16.420	1.00	41.37	N1+
ATOM	1509	H	LYS A 357	17.180	-30.804	-18.389	1.00	0.00	H
ATOM	1510	HZ1	LYS A 357	21.110	-32.990	-15.734	1.00	0.00	H
ATOM	1511	HZ2	LYS A 357	20.655	-31.760	-16.687	1.00	0.00	H
ATOM	1512	HZ3	LYS A 357	20.513	-33.277	-17.262	1.00	0.00	H
ATOM	1513	N	GLN A 358	13.197	-31.573	-17.347	1.00	29.91	N
ATOM	1514	CA	GLN A 358	12.217	-31.262	-16.303	1.00	30.11	C
ATOM	1515	C	GLN A 358	11.470	-32.549	-15.928	1.00	30.55	C
ATOM	1516	O	GLN A 358	10.349	-32.794	-16.373	1.00	30.95	O
ATOM	1517	CB	GLN A 358	11.275	-30.135	-16.765	1.00	30.25	C
ATOM	1518	CG	GLN A 358	12.010	-28.797	-16.962	1.00	29.87	C

ATOM	1519	CD	GLN A 358	11.070	-27.595	-17.027	1.00	30.05	C
ATOM	1520	OE1	GLN A 358	9.859	-27.693	-17.077	1.00	30.45	O
ATOM	1521	NE2	GLN A 358	11.590	-26.390	-16.974	1.00	29.77	N
ATOM	1522	H	GLN A 358	12.863	-32.132	-18.128	1.00	0.00	H
ATOM	1523	1HE2	GLN A 358	12.582	-26.256	-16.929	1.00	0.00	H
ATOM	1524	2HE2	GLN A 358	10.924	-25.639	-17.010	1.00	0.00	H
ATOM	1525	N	GLY A 359	12.221	-33.489	-15.345	1.00	30.49	N
ATOM	1526	CA	GLY A 359	11.855	-34.906	-15.367	1.00	30.89	C
ATOM	1527	C	GLY A 359	11.900	-35.470	-16.789	1.00	31.08	C
ATOM	1528	O	GLY A 359	12.805	-35.150	-17.557	1.00	30.84	O
ATOM	1529	H	GLY A 359	13.179	-33.262	-15.148	1.00	0.00	H
ATOM	1530	N	ASP A 360	10.856	-36.211	-17.148	1.00	31.53	N
ATOM	1531	CA	ASP A 360	10.718	-36.949	-18.411	1.00	31.77	C
ATOM	1532	C	ASP A 360	10.544	-36.056	-19.668	1.00	31.71	C
ATOM	1533	O	ASP A 360	10.648	-36.532	-20.800	1.00	32.07	O
ATOM	1534	CB	ASP A 360	9.501	-37.875	-18.246	1.00	32.39	C
ATOM	1535	CG	ASP A 360	9.617	-39.194	-19.004	1.00	32.55	C
ATOM	1536	OD1	ASP A 360	10.722	-39.772	-19.039	1.00	32.33	O
ATOM	1537	OD2	ASP A 360	8.542	-39.696	-19.402	1.00	32.94	O
ATOM	1538	H	ASP A 360	10.151	-36.390	-16.452	1.00	0.00	H
ATOM	1539	N	THR A 361	10.279	-34.751	-19.498	1.00	31.27	N
ATOM	1540	CA	THR A 361	10.316	-33.761	-20.586	1.00	31.23	C
ATOM	1541	C	THR A 361	11.706	-33.151	-20.735	1.00	30.74	C
ATOM	1542	O	THR A 361	12.170	-32.457	-19.830	1.00	30.38	O
ATOM	1543	CB	THR A 361	9.261	-32.660	-20.393	1.00	31.43	C
ATOM	1544	OG1	THR A 361	7.967	-33.191	-20.554	1.00	31.83	O
ATOM	1545	CG2	THR A 361	9.338	-31.580	-21.477	1.00	31.61	C

ATOM	1546	H	THR A 361	10.264	-34.400	-18.550	1.00	0.00	H
ATOM	1547	HG1	THR A 361	7.968	-34.122	-20.262	1.00	0.00	H
ATOM	1548	N	LEU A 362	12.286	-33.229	-21.937	1.00	30.73	N
ATOM	1549	CA	LEU A 362	13.448	-32.433	-22.352	1.00	30.30	C
ATOM	1550	C	LEU A 362	12.988	-31.128	-23.028	1.00	30.21	C
ATOM	1551	O	LEU A 362	11.986	-31.129	-23.744	1.00	30.52	O
ATOM	1552	CB	LEU A 362	14.363	-33.254	-23.286	1.00	30.34	C
ATOM	1553	CG	LEU A 362	14.598	-34.727	-22.893	1.00	30.50	C
ATOM	1554	CD1	LEU A 362	15.581	-35.351	-23.882	1.00	30.55	C
ATOM	1555	CD2	LEU A 362	15.179	-34.896	-21.489	1.00	30.16	C
ATOM	1556	H	LEU A 362	11.832	-33.794	-22.648	1.00	0.00	H
ATOM	1557	N	TYR A 363	13.800	-30.073	-22.943	1.00	29.80	N
ATOM	1558	CA	TYR A 363	13.611	-28.778	-23.601	1.00	29.69	C
ATOM	1559	C	TYR A 363	14.925	-28.317	-24.240	1.00	29.35	C
ATOM	1560	O	TYR A 363	15.799	-27.756	-23.572	1.00	29.03	O
ATOM	1561	CB	TYR A 363	13.137	-27.738	-22.580	1.00	29.57	C
ATOM	1562	CG	TYR A 363	11.701	-27.871	-22.127	1.00	29.95	C
ATOM	1563	CD1	TYR A 363	10.684	-27.299	-22.913	1.00	30.19	C
ATOM	1564	CD2	TYR A 363	11.393	-28.466	-20.889	1.00	30.09	C
ATOM	1565	CE1	TYR A 363	9.363	-27.265	-22.439	1.00	30.57	C
ATOM	1566	CE2	TYR A 363	10.066	-28.449	-20.419	1.00	30.48	C
ATOM	1567	CZ	TYR A 363	9.057	-27.832	-21.187	1.00	30.72	C
ATOM	1568	OH	TYR A 363	7.783	-27.790	-20.732	1.00	31.13	O
ATOM	1569	H	TYR A 363	14.566	-30.126	-22.281	1.00	0.00	H
ATOM	1570	HH	TYR A 363	7.313	-27.014	-21.130	1.00	0.00	H
ATOM	1571	N	PHE A 364	15.043	-28.501	-25.554	1.00	29.44	N
ATOM	1572	CA	PHE A 364	16.165	-28.004	-26.352	1.00	29.16	C

ATOM	1573	C	PHE A 364	15.931	-26.532	-26.752	1.00	29.02	C
ATOM	1574	O	PHE A 364	14.851	-26.237	-27.270	1.00	29.22	O
ATOM	1575	CB	PHE A 364	16.309	-28.888	-27.601	1.00	29.37	C
ATOM	1576	CG	PHE A 364	16.519	-30.364	-27.308	1.00	29.56	C
ATOM	1577	CD1	PHE A 364	17.792	-30.828	-26.930	1.00	29.38	C
ATOM	1578	CD2	PHE A 364	15.443	-31.271	-27.392	1.00	29.95	C
ATOM	1579	CE1	PHE A 364	17.994	-32.190	-26.644	1.00	29.58	C
ATOM	1580	CE2	PHE A 364	15.644	-32.634	-27.104	1.00	30.15	C
ATOM	1581	CZ	PHE A 364	16.919	-33.092	-26.729	1.00	29.96	C
ATOM	1582	H	PHE A 364	14.272	-28.939	-26.049	1.00	0.00	H
ATOM	1583	N	PRO A 365	16.905	-25.607	-26.630	1.00	28.68	N
ATOM	1584	CA	PRO A 365	16.816	-24.278	-27.247	1.00	28.60	C
ATOM	1585	C	PRO A 365	16.688	-24.370	-28.776	1.00	28.76	C
ATOM	1586	O	PRO A 365	17.375	-25.156	-29.433	1.00	28.80	O
ATOM	1587	CB	PRO A 365	18.091	-23.538	-26.831	1.00	28.21	C
ATOM	1588	CG	PRO A 365	19.075	-24.682	-26.613	1.00	28.10	C
ATOM	1589	CD	PRO A 365	18.198	-25.757	-25.981	1.00	28.38	C
ATOM	1590	N	ALA A 366	15.809	-23.551	-29.351	1.00	28.87	N
ATOM	1591	CA	ALA A 366	15.298	-23.750	-30.705	1.00	29.07	C
ATOM	1592	C	ALA A 366	14.928	-22.440	-31.419	1.00	29.01	C
ATOM	1593	O	ALA A 366	14.850	-21.373	-30.809	1.00	28.83	O
ATOM	1594	CB	ALA A 366	14.084	-24.678	-30.594	1.00	29.47	C
ATOM	1595	H	ALA A 366	15.276	-22.924	-28.756	1.00	0.00	H
ATOM	1596	N	VAL A 367	14.563	-22.559	-32.698	1.00	29.17	N
ATOM	1597	CA	VAL A 367	14.020	-21.481	-33.529	1.00	29.11	C
ATOM	1598	C	VAL A 367	12.843	-21.965	-34.376	1.00	29.41	C
ATOM	1599	O	VAL A 367	12.872	-23.062	-34.933	1.00	29.61	O

ATOM	1600	CB	VAL A 367	15.137	-20.835	-34.372	1.00	28.84	C
ATOM	1601	CG1	VAL A 367	15.714	-21.752	-35.456	1.00	28.96	C
ATOM	1602	CG2	VAL A 367	14.710	-19.527	-35.043	1.00	28.75	C
ATOM	1603	H	VAL A 367	14.650	-23.477	-33.127	1.00	0.00	H
ATOM	1604	N	GLY A 368	11.819	-21.123	-34.498	1.00	29.46	N
ATOM	1605	CA	GLY A 368	10.718	-21.270	-35.444	1.00	29.75	C
ATOM	1606	C	GLY A 368	10.811	-20.262	-36.583	1.00	29.61	C
ATOM	1607	O	GLY A 368	11.202	-19.110	-36.382	1.00	29.36	O
ATOM	1608	H	GLY A 368	11.868	-20.253	-33.980	1.00	0.00	H
ATOM	1609	N	PHE A 369	10.417	-20.698	-37.778	1.00	29.79	N
ATOM	1610	CA	PHE A 369	10.414	-19.909	-39.006	1.00	29.68	C
ATOM	1611	C	PHE A 369	8.964	-19.639	-39.428	1.00	29.92	C
ATOM	1612	O	PHE A 369	8.154	-20.566	-39.540	1.00	30.18	O
ATOM	1613	CB	PHE A 369	11.165	-20.655	-40.116	1.00	29.68	C
ATOM	1614	CG	PHE A 369	12.571	-21.156	-39.802	1.00	29.51	C
ATOM	1615	CD1	PHE A 369	13.682	-20.589	-40.451	1.00	29.32	C
ATOM	1616	CD2	PHE A 369	12.778	-22.253	-38.942	1.00	29.56	C
ATOM	1617	CE1	PHE A 369	14.973	-21.115	-40.256	1.00	29.18	C
ATOM	1618	CE2	PHE A 369	14.065	-22.768	-38.732	1.00	29.41	C
ATOM	1619	CZ	PHE A 369	15.166	-22.208	-39.396	1.00	29.23	C
ATOM	1620	H	PHE A 369	10.095	-21.659	-37.854	1.00	0.00	H
ATOM	1621	N	LEU A 370	8.610	-18.370	-39.630	1.00	29.85	N
ATOM	1622	CA	LEU A 370	7.235	-17.944	-39.910	1.00	30.06	C
ATOM	1623	C	LEU A 370	7.226	-16.895	-41.035	1.00	29.90	C
ATOM	1624	O	LEU A 370	7.999	-15.938	-40.952	1.00	29.61	O
ATOM	1625	CB	LEU A 370	6.611	-17.465	-38.586	1.00	30.07	C
ATOM	1626	CG	LEU A 370	5.220	-16.811	-38.688	1.00	30.32	C

ATOM	1627	CD1 LEU A 370	4.343	-17.228	-37.506	1.00	30.46	C
ATOM	1628	CD2 LEU A 370	5.334	-15.287	-38.657	1.00	30.17	C
ATOM	1629	H LEU A 370	9.313	-17.648	-39.493	1.00	0.00	H
ATOM	1630	N PRO A 371	6.494	-17.104	-42.148	1.00	30.08	N
ATOM	1631	CA PRO A 371	6.512	-16.161	-43.261	1.00	29.90	C
ATOM	1632	C PRO A 371	6.012	-14.780	-42.818	1.00	29.87	C
ATOM	1633	O PRO A 371	5.013	-14.667	-42.110	1.00	30.10	O
ATOM	1634	CB PRO A 371	5.670	-16.776	-44.382	1.00	30.11	C
ATOM	1635	CG PRO A 371	4.951	-17.976	-43.764	1.00	30.46	C
ATOM	1636	CD PRO A 371	5.685	-18.272	-42.457	1.00	30.45	C
ATOM	1637	N ARG A 372	6.701	-13.705	-43.220	1.00	39.74	N
ATOM	1638	CA ARG A 372	6.431	-12.338	-42.733	1.00	39.73	C
ATOM	1639	C ARG A 372	5.151	-11.691	-43.288	1.00	39.94	C
ATOM	1640	O ARG A 372	4.867	-10.549	-42.948	1.00	40.06	O
ATOM	1641	CB ARG A 372	7.687	-11.449	-42.828	1.00	39.44	C
ATOM	1642	CG ARG A 372	8.079	-10.972	-44.232	1.00	39.24	C
ATOM	1643	CD ARG A 372	9.132	-9.846	-44.200	1.00	39.00	C
ATOM	1644	NE ARG A 372	10.407	-10.198	-43.526	1.00	38.78	N
ATOM	1645	CZ ARG A 372	10.953	-9.577	-42.488	1.00	38.60	C
ATOM	1646	NH1 ARG A 372	10.243	-8.821	-41.698	1.00	38.61	N
ATOM	1647	NH2 ARG A 372	12.215	-9.714	-42.203	1.00	38.43	N
ATOM	1648	H ARG A 372	7.532	-13.866	-43.783	1.00	0.00	H
ATOM	1649	HE ARG A 372	11.009	-10.840	-44.030	1.00	0.00	H
ATOM	1650	1HH1 ARG A 372	9.255	-8.798	-41.836	1.00	0.00	H
ATOM	1651	2HH1 ARG A 372	10.639	-8.449	-40.840	1.00	0.00	H
ATOM	1652	1HH2 ARG A 372	12.810	-10.224	-42.849	1.00	0.00	H
ATOM	1653	2HH2 ARG A 372	12.662	-9.093	-41.538	1.00	0.00	H

ATOM	1654	N	THR A 373	4.352	-12.439	-44.049	1.00	29.86	N
ATOM	1655	CA	THR A 373	2.921	-12.186	-44.301	1.00	30.10	C
ATOM	1656	C	THR A 373	2.055	-12.459	-43.066	1.00	30.40	C
ATOM	1657	O	THR A 373	1.123	-11.712	-42.791	1.00	30.61	O
ATOM	1658	CB	THR A 373	2.430	-13.098	-45.440	1.00	30.20	C
ATOM	1659	OG1	THR A 373	2.840	-14.431	-45.220	1.00	30.34	O
ATOM	1660	CG2	THR A 373	3.014	-12.677	-46.788	1.00	29.92	C
ATOM	1661	H	THR A 373	4.659	-13.378	-44.257	1.00	0.00	H
ATOM	1662	HG1	THR A 373	2.075	-14.915	-44.812	1.00	0.00	H
ATOM	1663	N	GLU A 374	2.429	-13.447	-42.251	1.00	30.43	N
ATOM	1664	CA	GLU A 374	1.701	-13.846	-41.040	1.00	30.71	C
ATOM	1665	C	GLU A 374	2.125	-13.032	-39.808	1.00	30.59	C
ATOM	1666	O	GLU A 374	1.435	-13.051	-38.788	1.00	30.80	O
ATOM	1667	CB	GLU A 374	1.941	-15.341	-40.749	1.00	30.92	C
ATOM	1668	CG	GLU A 374	1.946	-16.266	-41.971	1.00	31.03	C
ATOM	1669	CD	GLU A 374	0.715	-16.072	-42.853	1.00	31.30	C
ATOM	1670	OE1	GLU A 374	-0.327	-16.638	-42.450	1.00	31.63	O
ATOM	1671	OE2	GLU A 374	0.905	-15.677	-44.023	1.00	31.19	O
ATOM	1672	H	GLU A 374	3.217	-14.023	-42.528	1.00	0.00	H
ATOM	1673	N	PHE A 375	3.310	-12.413	-39.854	1.00	30.27	N
ATOM	1674	CA	PHE A 375	3.981	-11.826	-38.695	1.00	30.14	C
ATOM	1675	C	PHE A 375	3.301	-10.538	-38.208	1.00	30.19	C
ATOM	1676	O	PHE A 375	3.645	-9.430	-38.620	1.00	30.11	O
ATOM	1677	CB	PHE A 375	5.469	-11.610	-39.009	1.00	29.79	C
ATOM	1678	CG	PHE A 375	6.268	-11.037	-37.850	1.00	29.62	C
ATOM	1679	CD1	PHE A 375	6.228	-11.653	-36.582	1.00	29.76	C
ATOM	1680	CD2	PHE A 375	7.054	-9.884	-38.036	1.00	29.34	C



ATOM	1681	CE1 PHE A 375	6.949	-11.107	-35.506	1.00	29.61	C
ATOM	1682	CE2 PHE A 375	7.789	-9.350	-36.964	1.00	29.19	C
ATOM	1683	CZ PHE A 375	7.728	-9.954	-35.696	1.00	29.33	C
ATOM	1684	H PHE A 375	3.806	-12.439	-40.731	1.00	0.00	H
ATOM	1685	N GLN A 376	2.383	-10.694	-37.255	1.00	30.34	N
ATOM	1686	CA GLN A 376	1.738	-9.579	-36.566	1.00	30.47	C
ATOM	1687	C GLN A 376	2.737	-8.891	-35.624	1.00	30.27	C
ATOM	1688	O GLN A 376	3.091	-9.432	-34.578	1.00	30.24	O
ATOM	1689	CB GLN A 376	0.488	-10.068	-35.805	1.00	30.84	C
ATOM	1690	CG GLN A 376	-0.487	-10.906	-36.652	1.00	31.14	C
ATOM	1691	CD GLN A 376	-0.809	-10.270	-38.001	1.00	31.05	C
ATOM	1692	OE1 GLN A 376	-1.278	-9.150	-38.091	1.00	31.11	O
ATOM	1693	NE2 GLN A 376	-0.492	-10.926	-39.094	1.00	30.92	N
ATOM	1694	H GLN A 376	2.120	-11.633	-36.996	1.00	0.00	H
ATOM	1695	1HE2 GLN A 376	0.033	-11.789	-39.024	1.00	0.00	H
ATOM	1696	2HE2 GLN A 376	-0.625	-10.447	-39.966	1.00	0.00	H
ATOM	1697	N TYR A 377	3.134	-7.664	-35.962	1.00	50.03	N
ATOM	1698	CA TYR A 377	3.960	-6.806	-35.115	1.00	49.87	C
ATOM	1699	C TYR A 377	3.527	-5.347	-35.266	1.00	49.97	C
ATOM	1700	O TYR A 377	3.466	-4.825	-36.378	1.00	49.92	O
ATOM	1701	CB TYR A 377	5.446	-6.992	-35.455	1.00	49.53	C
ATOM	1702	CG TYR A 377	6.376	-6.200	-34.551	1.00	49.40	C
ATOM	1703	CD1 TYR A 377	6.861	-6.783	-33.362	1.00	49.50	C
ATOM	1704	CD2 TYR A 377	6.705	-4.865	-34.862	1.00	49.20	C
ATOM	1705	CE1 TYR A 377	7.661	-6.029	-32.481	1.00	49.40	C
ATOM	1706	CE2 TYR A 377	7.506	-4.112	-33.983	1.00	49.12	C
ATOM	1707	CZ TYR A 377	7.970	-4.687	-32.783	1.00	49.21	C

ATOM	1708	OH	TYR A 377	8.698	-3.943	-31.912	1.00	49.15	O
ATOM	1709	H	TYR A 377	2.846	-7.297	-36.857	1.00	0.00	H
ATOM	1710	HH	TYR A 377	8.548	-3.005	-32.036	1.00	0.00	H
ATOM	1711	N	ASN A 378	3.233	-4.682	-34.148	1.00	34.98	N
ATOM	1712	CA	ASN A 378	2.982	-3.245	-34.127	1.00	35.08	C
ATOM	1713	C	ASN A 378	4.315	-2.486	-34.127	1.00	34.82	C
ATOM	1714	O	ASN A 378	4.971	-2.394	-33.090	1.00	34.72	O
ATOM	1715	CB	ASN A 378	2.116	-2.907	-32.902	1.00	35.37	C
ATOM	1716	CG	ASN A 378	1.811	-1.422	-32.770	1.00	35.45	C
ATOM	1717	OD1	ASN A 378	1.848	-0.646	-33.715	1.00	35.27	O
ATOM	1718	ND2	ASN A 378	1.605	-0.944	-31.570	1.00	35.74	N
ATOM	1719	H	ASN A 378	3.358	-5.150	-33.265	1.00	0.00	H
ATOM	1720	1HD2	ASN A 378	1.918	-1.486	-30.768	1.00	0.00	H
ATOM	1721	2HD2	ASN A 378	1.418	0.036	-31.482	1.00	0.00	H
ATOM	1722	N	ASP A 379	4.616	-1.790	-35.223	1.00	29.95	N
ATOM	1723	CA	ASP A 379	5.781	-0.901	-35.331	1.00	29.73	C
ATOM	1724	C	ASP A 379	5.823	0.182	-34.233	1.00	29.83	C
ATOM	1725	O	ASP A 379	6.901	0.489	-33.731	1.00	29.65	O
ATOM	1726	CB	ASP A 379	5.811	-0.257	-36.722	1.00	29.67	C
ATOM	1727	CG	ASP A 379	6.158	-1.207	-37.860	1.00	29.51	C
ATOM	1728	OD1	ASP A 379	6.438	-2.407	-37.646	1.00	29.27	O
ATOM	1729	OD2	ASP A 379	6.246	-0.712	-39.002	1.00	29.66	O
ATOM	1730	H	ASP A 379	4.087	-1.975	-36.063	1.00	0.00	H
ATOM	1731	N	SER A 380	4.669	0.594	-33.691	1.00	30.51	N
ATOM	1732	CA	SER A 380	4.578	1.555	-32.574	1.00	30.65	C
ATOM	1733	C	SER A 380	5.143	1.023	-31.244	1.00	30.54	C
ATOM	1734	O	SER A 380	5.414	1.814	-30.345	1.00	30.55	O

ATOM	1735	CB	SER A 380	3.135	2.033	-32.336	1.00	31.03	C
ATOM	1736	OG	SER A 380	2.353	2.057	-33.518	1.00	31.14	O
ATOM	1737	H	SER A 380	3.809	0.241	-34.086	1.00	0.00	H
ATOM	1738	HG	SER A 380	2.073	1.147	-33.726	1.00	0.00	H
ATOM	1739	N	ASN A 381	5.360	-0.294	-31.109	1.00	30.08	N
ATOM	1740	CA	ASN A 381	6.080	-0.889	-29.976	1.00	29.95	C
ATOM	1741	C	ASN A 381	7.609	-0.696	-30.073	1.00	29.61	C
ATOM	1742	O	ASN A 381	8.325	-1.043	-29.135	1.00	29.48	O
ATOM	1743	CB	ASN A 381	5.755	-2.398	-29.865	1.00	29.99	C
ATOM	1744	CG	ASN A 381	4.333	-2.748	-29.452	1.00	30.34	C
ATOM	1745	OD1	ASN A 381	3.362	-2.050	-29.694	1.00	30.56	O
ATOM	1746	ND2	ASN A 381	4.150	-3.883	-28.818	1.00	30.43	N
ATOM	1747	H	ASN A 381	5.129	-0.897	-31.891	1.00	0.00	H
ATOM	1748	1HD2	ASN A 381	4.931	-4.471	-28.584	1.00	0.00	H
ATOM	1749	2HD2	ASN A 381	3.217	-4.090	-28.513	1.00	0.00	H
ATOM	1750	N	CYS A 382	8.142	-0.330	-31.245	1.00	29.47	N
ATOM	1751	CA	CYS A 382	9.580	-0.286	-31.496	1.00	29.18	C
ATOM	1752	C	CYS A 382	10.253	0.877	-30.719	1.00	29.19	C
ATOM	1753	O	CYS A 382	9.856	2.022	-30.939	1.00	29.32	O
ATOM	1754	CB	CYS A 382	9.796	-0.203	-33.013	1.00	29.06	C
ATOM	1755	SG	CYS A 382	11.476	-0.555	-33.575	1.00	28.72	S
ATOM	1756	H	CYS A 382	7.524	-0.020	-31.989	1.00	0.00	H
ATOM	1757	N	PRO A 383	11.278	0.652	-29.859	1.00	54.27	N
ATOM	1758	CA	PRO A 383	11.807	1.655	-28.903	1.00	54.34	C
ATOM	1759	C	PRO A 383	12.537	2.911	-29.443	1.00	54.19	C
ATOM	1760	O	PRO A 383	13.381	3.477	-28.751	1.00	53.96	O
ATOM	1761	CB	PRO A 383	12.718	0.874	-27.944	1.00	54.27	C

ATOM	1762	CG	PRO A 383	12.134	-0.530	-27.965	1.00	54.10	C
ATOM	1763	CD	PRO A 383	11.715	-0.676	-29.422	1.00	54.07	C
ATOM	1764	N	ILE A 384	12.220	3.398	-30.642	1.00	33.61	N
ATOM	1765	CA	ILE A 384	12.958	4.432	-31.394	1.00	33.52	C
ATOM	1766	C	ILE A 384	12.998	5.847	-30.774	1.00	33.74	C
ATOM	1767	O	ILE A 384	13.517	6.759	-31.407	1.00	33.73	O
ATOM	1768	CB	ILE A 384	12.403	4.515	-32.836	1.00	33.48	C
ATOM	1769	CG1	ILE A 384	10.954	5.064	-32.856	1.00	33.76	C
ATOM	1770	CG2	ILE A 384	12.518	3.153	-33.544	1.00	33.33	C
ATOM	1771	CD1	ILE A 384	10.458	5.442	-34.252	1.00	33.73	C
ATOM	1772	H	ILE A 384	11.435	2.960	-31.113	1.00	0.00	H
ATOM	1773	HA	ILE A 384	13.996	4.105	-31.457	1.00	0.00	H
ATOM	1774	N	ILE A 385	12.392	6.090	-29.609	1.00	41.53	N
ATOM	1775	CA	ILE A 385	12.001	7.441	-29.145	1.00	41.81	C
ATOM	1776	C	ILE A 385	13.188	8.421	-29.027	1.00	41.76	C
ATOM	1777	O	ILE A 385	13.058	9.583	-29.402	1.00	41.95	O
ATOM	1778	CB	ILE A 385	11.196	7.326	-27.824	1.00	42.09	C
ATOM	1779	CG1	ILE A 385	9.871	6.565	-28.089	1.00	42.20	C
ATOM	1780	CG2	ILE A 385	10.911	8.706	-27.198	1.00	42.42	C
ATOM	1781	CD1	ILE A 385	9.036	6.268	-26.836	1.00	42.55	C
ATOM	1782	H	ILE A 385	12.039	5.288	-29.107	1.00	0.00	H
ATOM	1783	N	HIS A 386	14.368	7.941	-28.625	1.00	29.46	N
ATOM	1784	CA	HIS A 386	15.611	8.740	-28.571	1.00	29.42	C
ATOM	1785	C	HIS A 386	16.465	8.635	-29.851	1.00	29.17	C
ATOM	1786	O	HIS A 386	17.497	9.294	-29.994	1.00	29.07	O
ATOM	1787	CB	HIS A 386	16.415	8.312	-27.334	1.00	29.35	C
ATOM	1788	CG	HIS A 386	15.611	8.358	-26.058	1.00	29.60	C

ATOM	1789	ND1	HIS A 386	15.133	9.520	-25.451	1.00	29.94	N
ATOM	1790	CD2	HIS A 386	15.178	7.278	-25.344	1.00	29.60	C
ATOM	1791	CE1	HIS A 386	14.431	9.118	-24.383	1.00	30.13	C
ATOM	1792	NE2	HIS A 386	14.440	7.776	-24.292	1.00	29.92	N
ATOM	1793	H	HIS A 386	14.411	6.969	-28.362	1.00	0.00	H
ATOM	1794	HE2	HIS A 386	13.986	7.236	-23.570	1.00	0.00	H
ATOM	1795	N	CYS A 387	16.106	7.719	-30.746	1.00	35.54	N
ATOM	1796	CA	CYS A 387	16.943	7.215	-31.827	1.00	35.30	C
ATOM	1797	C	CYS A 387	16.730	8.024	-33.109	1.00	35.39	C
ATOM	1798	O	CYS A 387	15.987	7.623	-33.998	1.00	35.38	O
ATOM	1799	CB	CYS A 387	16.640	5.727	-31.995	1.00	35.10	C
ATOM	1800	SG	CYS A 387	16.989	4.785	-30.493	1.00	34.90	S
ATOM	1801	H	CYS A 387	15.189	7.300	-30.650	1.00	0.00	H
ATOM	1802	N	LYS A 388	17.468	9.137	-33.222	1.00	29.04	N
ATOM	1803	CA	LYS A 388	17.288	10.247	-34.189	1.00	29.18	C
ATOM	1804	C	LYS A 388	17.003	9.892	-35.668	1.00	29.02	C
ATOM	1805	O	LYS A 388	16.627	10.788	-36.418	1.00	29.16	O
ATOM	1806	CB	LYS A 388	18.555	11.125	-34.131	1.00	29.19	C
ATOM	1807	CG	LYS A 388	18.271	12.622	-34.345	1.00	29.50	C
ATOM	1808	CD	LYS A 388	19.472	13.439	-34.853	1.00	29.52	C
ATOM	1809	CE	LYS A 388	20.773	13.279	-34.049	1.00	29.35	C
ATOM	1810	NZ	LYS A 388	21.578	12.114	-34.500	1.00	29.01	N1+
ATOM	1811	H	LYS A 388	17.979	9.359	-32.376	1.00	0.00	H
ATOM	1812	HZ1	LYS A 388	22.433	12.032	-33.967	1.00	0.00	H
ATOM	1813	HZ2	LYS A 388	21.825	12.216	-35.483	1.00	0.00	H
ATOM	1814	HZ3	LYS A 388	21.054	11.254	-34.407	1.00	0.00	H
ATOM	1815	N	TYR A 389	17.363	8.693	-36.127	1.00	28.75	N

ATOM	1816	CA	TYR A 389	17.205	8.242	-37.520	1.00	28.60	C
ATOM	1817	C	TYR A 389	16.382	6.947	-37.671	1.00	28.49	C
ATOM	1818	O	TYR A 389	16.008	6.594	-38.789	1.00	28.40	O
ATOM	1819	CB	TYR A 389	18.598	8.056	-38.151	1.00	28.39	C
ATOM	1820	CG	TYR A 389	19.576	9.209	-37.973	1.00	28.48	C
ATOM	1821	CD1	TYR A 389	19.188	10.530	-38.273	1.00	28.48	C
ATOM	1822	CD2	TYR A 389	20.883	8.952	-37.513	1.00	28.60	C
ATOM	1823	CE1	TYR A 389	20.093	11.594	-38.093	1.00	28.59	C
ATOM	1824	CE2	TYR A 389	21.793	10.011	-37.332	1.00	28.72	C
ATOM	1825	CZ	TYR A 389	21.396	11.331	-37.624	1.00	28.72	C
ATOM	1826	OH	TYR A 389	22.249	12.355	-37.363	1.00	28.86	O
ATOM	1827	H	TYR A 389	17.625	8.005	-35.440	1.00	0.00	H
ATOM	1828	HH	TYR A 389	22.741	12.588	-38.160	1.00	0.00	H
ATOM	1829	N	SER A 390	16.131	6.226	-36.576	1.00	28.50	N
ATOM	1830	CA	SER A 390	15.590	4.867	-36.597	1.00	28.40	C
ATOM	1831	C	SER A 390	14.095	4.848	-36.898	1.00	28.59	C
ATOM	1832	O	SER A 390	13.304	5.553	-36.270	1.00	28.81	O
ATOM	1833	CB	SER A 390	15.873	4.168	-35.268	1.00	28.34	C
ATOM	1834	OG	SER A 390	17.270	4.118	-35.053	1.00	28.20	O
ATOM	1835	H	SER A 390	16.345	6.610	-35.666	1.00	0.00	H
ATOM	1836	HG	SER A 390	17.654	3.627	-35.826	1.00	0.00	H
ATOM	1837	N	LYS A 391	13.677	3.990	-37.832	1.00	28.50	N
ATOM	1838	CA	LYS A 391	12.264	3.831	-38.198	1.00	28.66	C
ATOM	1839	C	LYS A 391	11.568	2.893	-37.217	1.00	28.73	C
ATOM	1840	O	LYS A 391	12.111	1.845	-36.883	1.00	28.63	O
ATOM	1841	CB	LYS A 391	12.112	3.321	-39.640	1.00	28.55	C
ATOM	1842	CG	LYS A 391	12.939	4.121	-40.663	1.00	28.49	C

ATOM	1843	CD	LYS A 391	12.654	3.665	-42.099	1.00	28.44	C
ATOM	1844	CE	LYS A 391	11.297	4.189	-42.584	1.00	28.65	C
ATOM	1845	NZ	LYS A 391	10.905	3.574	-43.873	1.00	28.62	N1+
ATOM	1846	H	LYS A 391	14.360	3.343	-38.214	1.00	0.00	H
ATOM	1847	HZ1	LYS A 391	10.055	3.980	-44.234	1.00	0.00	H
ATOM	1848	HZ2	LYS A 391	11.641	3.610	-44.559	1.00	0.00	H
ATOM	1849	HZ3	LYS A 391	10.650	2.590	-43.716	1.00	0.00	H
ATOM	1850	N	ALA A 392	10.265	3.094	-37.036	1.00	38.67	N
ATOM	1851	CA	ALA A 392	9.406	2.165	-36.294	1.00	38.80	C
ATOM	1852	C	ALA A 392	9.332	0.763	-36.949	1.00	38.67	C
ATOM	1853	O	ALA A 392	9.303	-0.252	-36.256	1.00	38.68	O
ATOM	1854	CB	ALA A 392	8.033	2.837	-36.170	1.00	39.08	C
ATOM	1855	H	ALA A 392	9.870	3.969	-37.334	1.00	0.00	H
ATOM	1856	N	GLU A 393	9.560	0.701	-38.267	1.00	32.27	N
ATOM	1857	CA	GLU A 393	9.720	-0.543	-39.029	1.00	32.19	C
ATOM	1858	C	GLU A 393	10.927	-1.393	-38.601	1.00	31.99	C
ATOM	1859	O	GLU A 393	10.941	-2.596	-38.855	1.00	31.95	O
ATOM	1860	CB	GLU A 393	9.937	-0.226	-40.516	1.00	32.12	C
ATOM	1861	CG	GLU A 393	8.928	0.727	-41.165	1.00	32.18	C
ATOM	1862	CD	GLU A 393	8.927	0.524	-42.685	1.00	31.98	C
ATOM	1863	OE1	GLU A 393	8.488	-0.569	-43.125	1.00	31.89	O
ATOM	1864	OE2	GLU A 393	9.553	1.363	-43.371	1.00	31.92	O
ATOM	1865	H	GLU A 393	9.592	1.566	-38.776	1.00	0.00	H
ATOM	1866	N	ASN A 394	11.999	-0.778	-38.087	1.00	32.64	N
ATOM	1867	CA	ASN A 394	13.317	-1.412	-37.982	1.00	32.44	C
ATOM	1868	C	ASN A 394	13.295	-2.685	-37.126	1.00	32.45	C
ATOM	1869	O	ASN A 394	13.847	-3.702	-37.547	1.00	32.34	O

ATOM	1870	CB	ASN A 394	14.334	-0.401	-37.431	1.00	32.41	C
ATOM	1871	CG	ASN A 394	14.736	0.694	-38.408	1.00	32.39	C
ATOM	1872	OD1	ASN A 394	14.377	0.694	-39.577	1.00	32.47	O
ATOM	1873	ND2	ASN A 394	15.578	1.597	-37.971	1.00	32.30	N
ATOM	1874	H	ASN A 394	11.936	0.209	-37.866	1.00	0.00	H
ATOM	1875	1HD2	ASN A 394	15.926	1.499	-37.018	1.00	0.00	H
ATOM	1876	2HD2	ASN A 394	16.283	1.933	-38.623	1.00	0.00	H
ATOM	1877	N	CYS A 395	12.455	-2.704	-36.084	1.00	31.44	N
ATOM	1878	CA	CYS A 395	12.134	-3.904	-35.318	1.00	31.44	C
ATOM	1879	C	CYS A 395	11.551	-5.013	-36.212	1.00	31.49	C
ATOM	1880	O	CYS A 395	12.182	-6.054	-36.387	1.00	31.38	O
ATOM	1881	CB	CYS A 395	11.164	-3.548	-34.182	1.00	31.64	C
ATOM	1882	SG	CYS A 395	11.826	-2.451	-32.904	1.00	31.62	S
ATOM	1883	H	CYS A 395	11.987	-1.841	-35.843	1.00	0.00	H
ATOM	1884	N	ARG A 396	10.420	-4.751	-36.882	1.00	28.58	N
ATOM	1885	CA	ARG A 396	9.716	-5.702	-37.763	1.00	28.67	C
ATOM	1886	C	ARG A 396	10.585	-6.213	-38.915	1.00	28.50	C
ATOM	1887	O	ARG A 396	10.500	-7.387	-39.284	1.00	28.50	O
ATOM	1888	CB	ARG A 396	8.444	-5.004	-38.281	1.00	28.89	C
ATOM	1889	CG	ARG A 396	7.640	-5.814	-39.316	1.00	29.00	C
ATOM	1890	CD	ARG A 396	6.301	-5.154	-39.681	1.00	29.22	C
ATOM	1891	NE	ARG A 396	6.446	-3.741	-40.065	1.00	29.17	N
ATOM	1892	CZ	ARG A 396	6.895	-3.205	-41.179	1.00	29.02	C
ATOM	1893	NH1	ARG A 396	7.261	-3.903	-42.212	1.00	28.90	N
ATOM	1894	NH2	ARG A 396	6.977	-1.924	-41.281	1.00	29.01	N
ATOM	1895	H	ARG A 396	10.031	-3.820	-36.798	1.00	0.00	H
ATOM	1896	HE	ARG A 396	6.292	-3.071	-39.304	1.00	0.00	H



ATOM	1897	1HH1	ARG A 396	7.090	-4.884	-42.203	1.00	0.00	H
ATOM	1898	2HH1	ARG A 396	7.563	-3.401	-43.027	1.00	0.00	H
ATOM	1899	1HH2	ARG A 396	6.688	-1.368	-40.471	1.00	0.00	H
ATOM	1900	2HH2	ARG A 396	7.436	-1.455	-42.061	1.00	0.00	H
ATOM	1901	N	LEU A 397	11.412	-5.347	-39.495	1.00	28.38	N
ATOM	1902	CA	LEU A 397	12.327	-5.696	-40.581	1.00	28.20	C
ATOM	1903	C	LEU A 397	13.477	-6.595	-40.095	1.00	28.06	C
ATOM	1904	O	LEU A 397	13.667	-7.663	-40.681	1.00	28.01	O
ATOM	1905	CB	LEU A 397	12.843	-4.406	-41.245	1.00	28.09	C
ATOM	1906	CG	LEU A 397	11.758	-3.560	-41.946	1.00	28.20	C
ATOM	1907	CD1	LEU A 397	12.386	-2.273	-42.480	1.00	28.15	C
ATOM	1908	CD2	LEU A 397	11.077	-4.288	-43.108	1.00	28.17	C
ATOM	1909	H	LEU A 397	11.393	-4.387	-39.158	1.00	0.00	H
ATOM	1910	N	SER A 398	14.107	-6.260	-38.960	1.00	29.91	N
ATOM	1911	CA	SER A 398	15.251	-6.986	-38.378	1.00	29.76	C
ATOM	1912	C	SER A 398	14.941	-8.426	-37.954	1.00	29.83	C
ATOM	1913	O	SER A 398	15.838	-9.256	-38.020	1.00	29.71	O
ATOM	1914	CB	SER A 398	15.818	-6.197	-37.185	1.00	29.68	C
ATOM	1915	OG	SER A 398	16.835	-6.905	-36.489	1.00	29.55	O
ATOM	1916	H	SER A 398	13.827	-5.400	-38.494	1.00	0.00	H
ATOM	1917	HG	SER A 398	17.565	-7.113	-37.107	1.00	0.00	H
ATOM	1918	N	MET A 399	13.676	-8.795	-37.707	1.00	28.13	N
ATOM	1919	CA	MET A 399	13.304	-10.161	-37.282	1.00	28.23	C
ATOM	1920	C	MET A 399	13.583	-11.284	-38.308	1.00	28.22	C
ATOM	1921	O	MET A 399	13.324	-12.448	-38.010	1.00	28.30	O
ATOM	1922	CB	MET A 399	11.833	-10.229	-36.831	1.00	28.49	C
ATOM	1923	CG	MET A 399	11.420	-9.198	-35.781	1.00	28.56	C

ATOM	1924	SD	MET A 399	12.495	-9.055	-34.327	1.00	28.44	S
ATOM	1925	CE	MET A 399	11.635	-7.723	-33.449	1.00	28.56	C
ATOM	1926	H	MET A 399	12.984	-8.061	-37.632	1.00	0.00	H
ATOM	1927	N	GLY A 400	14.090	-10.986	-39.509	1.00	28.13	N
ATOM	1928	CA	GLY A 400	14.535	-11.989	-40.482	1.00	28.11	C
ATOM	1929	C	GLY A 400	15.872	-11.627	-41.134	1.00	27.89	C
ATOM	1930	O	GLY A 400	16.190	-10.452	-41.288	1.00	27.75	O
ATOM	1931	H	GLY A 400	14.437	-10.043	-39.637	1.00	0.00	H
ATOM	1932	N	VAL A 401	16.570	-12.642	-41.660	1.00	27.88	N
ATOM	1933	CA	VAL A 401	17.931	-12.569	-42.254	1.00	27.71	C
ATOM	1934	C	VAL A 401	18.082	-11.520	-43.373	1.00	27.63	C
ATOM	1935	O	VAL A 401	19.172	-11.009	-43.615	1.00	27.49	O
ATOM	1936	CB	VAL A 401	18.325	-13.981	-42.755	1.00	27.78	C
ATOM	1937	CG1	VAL A 401	19.585	-14.037	-43.628	1.00	27.64	C
ATOM	1938	CG2	VAL A 401	18.532	-14.928	-41.566	1.00	27.85	C
ATOM	1939	H	VAL A 401	16.219	-13.569	-41.473	1.00	0.00	H
ATOM	1940	N	ASN A 402	16.979	-11.096	-43.993	1.00	27.75	N
ATOM	1941	CA	ASN A 402	16.870	-9.793	-44.649	1.00	27.71	C
ATOM	1942	C	ASN A 402	15.631	-9.063	-44.100	1.00	27.82	C
ATOM	1943	O	ASN A 402	14.590	-9.697	-43.925	1.00	27.97	O
ATOM	1944	CB	ASN A 402	16.735	-9.944	-46.179	1.00	27.78	C
ATOM	1945	CG	ASN A 402	17.873	-10.554	-46.982	1.00	27.74	C
ATOM	1946	OD1	ASN A 402	17.722	-10.733	-48.179	1.00	27.60	O
ATOM	1947	ND2	ASN A 402	19.032	-10.814	-46.430	1.00	27.89	N
ATOM	1948	H	ASN A 402	16.115	-11.462	-43.623	1.00	0.00	H
ATOM	1949	HB3	ASN A 402	15.851	-10.539	-46.392	1.00	0.00	H
ATOM	1950	1HD2	ASN A 402	19.178	-10.720	-45.428	1.00	0.00	H

ATOM	1951	2HD2	ASN A 402	19.747	-11.200	-47.019	1.00	0.00	H
ATOM	1952	N	SER A 403	15.602	-7.739	-44.269	1.00	27.76	N
ATOM	1953	CA	SER A 403	14.370	-6.929	-44.220	1.00	27.88	C
ATOM	1954	C	SER A 403	13.289	-7.416	-45.202	1.00	28.04	C
ATOM	1955	O	SER A 403	12.124	-7.542	-44.833	1.00	28.19	O
ATOM	1956	CB	SER A 403	14.743	-5.479	-44.546	1.00	27.82	C
ATOM	1957	OG	SER A 403	15.415	-5.410	-45.795	1.00	27.78	O
ATOM	1958	H	SER A 403	16.455	-7.263	-44.524	1.00	0.00	H
ATOM	1959	HG	SER A 403	15.723	-4.504	-45.923	1.00	0.00	H
ATOM	1960	N	LYS A 404	13.710	-7.847	-46.400	1.00	28.00	N
ATOM	1961	CA	LYS A 404	12.878	-8.440	-47.465	1.00	28.14	C
ATOM	1962	C	LYS A 404	12.785	-9.978	-47.448	1.00	28.29	C
ATOM	1963	O	LYS A 404	12.532	-10.576	-48.493	1.00	28.45	O
ATOM	1964	CB	LYS A 404	13.310	-7.858	-48.829	1.00	28.05	C
ATOM	1965	CG	LYS A 404	14.747	-8.213	-49.280	1.00	27.95	C
ATOM	1966	CD	LYS A 404	14.869	-9.300	-50.361	1.00	28.03	C
ATOM	1967	CE	LYS A 404	14.234	-8.861	-51.688	1.00	27.98	C
ATOM	1968	NZ	LYS A 404	14.296	-9.943	-52.701	1.00	27.94	N1+
ATOM	1969	H	LYS A 404	14.678	-7.649	-46.607	1.00	0.00	H
ATOM	1970	HZ1	LYS A 404	13.897	-9.633	-53.578	1.00	0.00	H
ATOM	1971	HZ2	LYS A 404	13.776	-10.749	-52.377	1.00	0.00	H
ATOM	1972	HZ3	LYS A 404	15.256	-10.223	-52.859	1.00	0.00	H
ATOM	1973	N	SER A 405	13.146	-10.635	-46.342	1.00	28.23	N
ATOM	1974	CA	SER A 405	13.092	-12.102	-46.225	1.00	28.36	C
ATOM	1975	C	SER A 405	11.665	-12.640	-46.380	1.00	28.62	C
ATOM	1976	O	SER A 405	10.704	-11.955	-46.041	1.00	28.71	O
ATOM	1977	CB	SER A 405	13.662	-12.563	-44.878	1.00	28.30	C

ATOM	1978	OG	SER A 405	12.888	-12.063	-43.806	1.00	28.39	O
ATOM	1979	H	SER A 405	13.349	-10.104	-45.504	1.00	0.00	H
ATOM	1980	HG	SER A 405	12.640	-12.825	-43.233	1.00	0.00	H
ATOM	1981	N	HIS A 406	11.546	-13.915	-46.762	1.00	28.77	N
ATOM	1982	CA	HIS A 406	10.296	-14.679	-46.657	1.00	29.05	C
ATOM	1983	C	HIS A 406	9.943	-14.948	-45.184	1.00	29.17	C
ATOM	1984	O	HIS A 406	9.006	-14.345	-44.672	1.00	29.36	O
ATOM	1985	CB	HIS A 406	10.432	-15.959	-47.501	1.00	29.22	C
ATOM	1986	CG	HIS A 406	9.279	-16.924	-47.405	1.00	29.54	C
ATOM	1987	ND1	HIS A 406	8.969	-17.668	-46.272	1.00	29.74	N
ATOM	1988	CD2	HIS A 406	8.496	-17.350	-48.439	1.00	29.72	C
ATOM	1989	CE1	HIS A 406	8.020	-18.540	-46.644	1.00	30.04	C
ATOM	1990	NE2	HIS A 406	7.702	-18.357	-47.935	1.00	30.03	N
ATOM	1991	H	HIS A 406	12.379	-14.419	-47.019	1.00	0.00	H
ATOM	1992	HE2	HIS A 406	7.050	-18.931	-48.453	1.00	0.00	H
ATOM	1993	N	TYR A 407	10.840	-15.602	-44.441	1.00	29.08	N
ATOM	1994	CA	TYR A 407	10.692	-15.844	-43.002	1.00	29.17	C
ATOM	1995	C	TYR A 407	11.130	-14.660	-42.128	1.00	28.96	C
ATOM	1996	O	TYR A 407	12.218	-14.113	-42.338	1.00	28.74	O
ATOM	1997	CB	TYR A 407	11.478	-17.109	-42.624	1.00	29.25	C
ATOM	1998	CG	TYR A 407	10.986	-18.339	-43.352	1.00	29.54	C
ATOM	1999	CD1	TYR A 407	9.708	-18.833	-43.049	1.00	29.82	C
ATOM	2000	CD2	TYR A 407	11.751	-18.941	-44.369	1.00	29.57	C
ATOM	2001	CE1	TYR A 407	9.187	-19.924	-43.756	1.00	30.10	C
ATOM	2002	CE2	TYR A 407	11.227	-20.040	-45.080	1.00	29.87	C
ATOM	2003	CZ	TYR A 407	9.943	-20.535	-44.775	1.00	30.13	C
ATOM	2004	OH	TYR A 407	9.435	-21.585	-45.473	1.00	30.46	O

ATOM	2005	H	TYR A 407	11.551	-16.125	-44.922	1.00	0.00	H
ATOM	2006	HH	TYR A 407	8.488	-21.742	-45.240	1.00	0.00	H
ATOM	2007	N	ILE A 408	10.432	-14.453	-41.006	1.00	29.04	N
ATOM	2008	CA	ILE A 408	11.074	-14.082	-39.735	1.00	28.85	C
ATOM	2009	C	ILE A 408	11.494	-15.341	-38.970	1.00	28.90	C
ATOM	2010	O	ILE A 408	10.919	-16.417	-39.154	1.00	29.12	O
ATOM	2011	CB	ILE A 408	10.209	-13.143	-38.859	1.00	28.90	C
ATOM	2012	CG1	ILE A 408	8.884	-13.727	-38.317	1.00	29.19	C
ATOM	2013	CG2	ILE A 408	9.940	-11.835	-39.617	1.00	28.83	C
ATOM	2014	CD1	ILE A 408	9.015	-14.513	-37.004	1.00	29.25	C
ATOM	2015	H	ILE A 408	9.570	-14.983	-40.911	1.00	0.00	H
ATOM	2016	N	LEU A 409	12.480	-15.180	-38.090	1.00	28.70	N
ATOM	2017	CA	LEU A 409	12.918	-16.181	-37.123	1.00	28.69	C
ATOM	2018	C	LEU A 409	12.405	-15.803	-35.724	1.00	28.72	C
ATOM	2019	O	LEU A 409	12.503	-14.639	-35.333	1.00	28.54	O
ATOM	2020	CB	LEU A 409	14.457	-16.280	-37.145	1.00	28.44	C
ATOM	2021	CG	LEU A 409	15.110	-16.514	-38.519	1.00	28.40	C
ATOM	2022	CD1	LEU A 409	16.625	-16.636	-38.356	1.00	28.20	C
ATOM	2023	CD2	LEU A 409	14.604	-17.787	-39.189	1.00	28.67	C
ATOM	2024	H	LEU A 409	12.833	-14.237	-37.957	1.00	0.00	H
ATOM	2025	N	ARG A 410	12.060	-16.798	-34.903	1.00	28.95	N
ATOM	2026	CA	ARG A 410	11.633	-16.638	-33.499	1.00	29.00	C
ATOM	2027	C	ARG A 410	12.342	-17.667	-32.618	1.00	28.96	C
ATOM	2028	O	ARG A 410	12.143	-18.859	-32.825	1.00	29.08	O
ATOM	2029	CB	ARG A 410	10.104	-16.832	-33.447	1.00	29.32	C
ATOM	2030	CG	ARG A 410	9.463	-16.556	-32.075	1.00	29.43	C
ATOM	2031	CD	ARG A 410	9.222	-15.060	-31.837	1.00	29.22	C

ATOM	2032	NE	ARG A 410	8.336	-14.813	-30.682	1.00	29.41	N
ATOM	2033	CZ	ARG A 410	7.015	-14.863	-30.656	1.00	29.65	C
ATOM	2034	NH1	ARG A 410	6.290	-15.248	-31.659	1.00	29.72	N
ATOM	2035	NH2	ARG A 410	6.388	-14.676	-29.541	1.00	29.82	N
ATOM	2036	H	ARG A 410	11.967	-17.724	-35.318	1.00	0.00	H
ATOM	2037	HE	ARG A 410	8.762	-14.671	-29.773	1.00	0.00	H
ATOM	2038	1HH1	ARG A 410	6.741	-15.705	-32.430	1.00	0.00	H
ATOM	2039	2HH1	ARG A 410	5.372	-15.615	-31.393	1.00	0.00	H
ATOM	2040	1HH2	ARG A 410	6.952	-14.687	-28.702	1.00	0.00	H
ATOM	2041	2HH2	ARG A 410	5.451	-15.085	-29.498	1.00	0.00	H
ATOM	2042	N	SER A 411	13.165	-17.241	-31.656	1.00	28.78	N
ATOM	2043	CA	SER A 411	13.763	-18.166	-30.674	1.00	28.71	C
ATOM	2044	C	SER A 411	12.689	-18.807	-29.784	1.00	28.96	C
ATOM	2045	O	SER A 411	11.583	-18.282	-29.643	1.00	29.14	O
ATOM	2046	CB	SER A 411	14.818	-17.475	-29.799	1.00	28.40	C
ATOM	2047	OG	SER A 411	15.889	-16.997	-30.590	1.00	28.18	O
ATOM	2048	H	SER A 411	13.305	-16.253	-31.525	1.00	0.00	H
ATOM	2049	HG	SER A 411	16.656	-17.591	-30.482	1.00	0.00	H
ATOM	2050	N	GLY A 412	13.016	-19.934	-29.160	1.00	28.98	N
ATOM	2051	CA	GLY A 412	12.067	-20.702	-28.365	1.00	29.24	C
ATOM	2052	C	GLY A 412	12.660	-21.996	-27.815	1.00	29.23	C
ATOM	2053	O	GLY A 412	13.880	-22.133	-27.698	1.00	28.98	O
ATOM	2054	H	GLY A 412	13.903	-20.379	-29.382	1.00	0.00	H
ATOM	2055	N	LEU A 413	11.789	-22.969	-27.558	1.00	29.53	N
ATOM	2056	CA	LEU A 413	12.137	-24.318	-27.113	1.00	29.59	C
ATOM	2057	C	LEU A 413	11.505	-25.368	-28.032	1.00	29.95	C
ATOM	2058	O	LEU A 413	10.344	-25.238	-28.415	1.00	30.22	O

ATOM	2059	CB	LEU A 413	11.678	-24.547	-25.659	1.00	29.66	C
ATOM	2060	CG	LEU A 413	12.202	-23.538	-24.624	1.00	29.39	C
ATOM	2061	CD1	LEU A 413	11.518	-23.746	-23.274	1.00	29.64	C
ATOM	2062	CD2	LEU A 413	13.712	-23.665	-24.417	1.00	29.11	C
ATOM	2063	H	LEU A 413	10.806	-22.779	-27.741	1.00	0.00	H
ATOM	2064	N	LEU A 414	12.201	-26.486	-28.234	1.00	29.98	N
ATOM	2065	CA	LEU A 414	11.608	-27.748	-28.673	1.00	30.37	C
ATOM	2066	C	LEU A 414	11.495	-28.692	-27.469	1.00	30.54	C
ATOM	2067	O	LEU A 414	12.492	-29.215	-26.968	1.00	30.32	O
ATOM	2068	CB	LEU A 414	12.415	-28.337	-29.843	1.00	30.34	C
ATOM	2069	CG	LEU A 414	12.166	-27.599	-31.171	1.00	30.36	C
ATOM	2070	CD1	LEU A 414	13.267	-27.907	-32.186	1.00	30.22	C
ATOM	2071	CD2	LEU A 414	10.832	-27.982	-31.813	1.00	30.80	C
ATOM	2072	H	LEU A 414	13.141	-26.525	-27.850	1.00	0.00	H
ATOM	2073	N	LYS A 415	10.266	-28.811	-26.966	1.00	30.93	N
ATOM	2074	CA	LYS A 415	9.820	-29.746	-25.929	1.00	31.15	C
ATOM	2075	C	LYS A 415	9.801	-31.174	-26.492	1.00	31.47	C
ATOM	2076	O	LYS A 415	9.338	-31.381	-27.614	1.00	31.77	O
ATOM	2077	CB	LYS A 415	8.419	-29.274	-25.498	1.00	31.44	C
ATOM	2078	CG	LYS A 415	7.795	-30.021	-24.314	1.00	31.88	C
ATOM	2079	CD	LYS A 415	6.318	-29.618	-24.170	1.00	32.14	C
ATOM	2080	CE	LYS A 415	5.649	-30.297	-22.969	1.00	32.69	C
ATOM	2081	NZ	LYS A 415	5.777	-29.485	-21.736	1.00	32.84	N1+
ATOM	2082	H	LYS A 415	9.527	-28.344	-27.485	1.00	0.00	H
ATOM	2083	HZ1	LYS A 415	5.371	-29.935	-20.932	1.00	0.00	H
ATOM	2084	HZ2	LYS A 415	6.738	-29.237	-21.523	1.00	0.00	H
ATOM	2085	HZ3	LYS A 415	5.300	-28.584	-21.849	1.00	0.00	H

ATOM	2086	N	TYR A 416	10.211	-32.163	-25.702	1.00	31.42	N
ATOM	2087	CA	TYR A 416	10.307	-33.573	-26.105	1.00	31.73	C
ATOM	2088	C	TYR A 416	10.047	-34.480	-24.895	1.00	31.90	C
ATOM	2089	O	TYR A 416	10.918	-34.631	-24.040	1.00	31.62	O
ATOM	2090	CB	TYR A 416	11.706	-33.806	-26.697	1.00	31.48	C
ATOM	2091	CG	TYR A 416	11.950	-35.166	-27.330	1.00	31.86	C
ATOM	2092	CD1	TYR A 416	11.496	-35.426	-28.638	1.00	32.12	C
ATOM	2093	CD2	TYR A 416	12.696	-36.142	-26.643	1.00	31.95	C
ATOM	2094	CE1	TYR A 416	11.835	-36.631	-29.284	1.00	32.49	C
ATOM	2095	CE2	TYR A 416	13.027	-37.355	-27.278	1.00	32.33	C
ATOM	2096	CZ	TYR A 416	12.609	-37.595	-28.605	1.00	32.61	C
ATOM	2097	OH	TYR A 416	12.942	-38.760	-29.219	1.00	33.01	O
ATOM	2098	H	TYR A 416	10.663	-31.896	-24.832	1.00	0.00	H
ATOM	2099	HH	TYR A 416	13.212	-39.419	-28.579	1.00	0.00	H
ATOM	2100	N	ASN A 417	8.797	-34.913	-24.707	1.00	32.37	N
ATOM	2101	CA	ASN A 417	8.398	-35.716	-23.545	1.00	32.60	C
ATOM	2102	C	ASN A 417	8.552	-37.220	-23.813	1.00	32.91	C
ATOM	2103	O	ASN A 417	7.847	-37.779	-24.656	1.00	33.38	O
ATOM	2104	CB	ASN A 417	6.977	-35.330	-23.114	1.00	32.98	C
ATOM	2105	CG	ASN A 417	6.643	-35.996	-21.792	1.00	33.03	C
ATOM	2106	OD1	ASN A 417	7.339	-35.828	-20.807	1.00	32.78	O
ATOM	2107	ND2	ASN A 417	5.697	-36.900	-21.775	1.00	33.34	N
ATOM	2108	H	ASN A 417	8.115	-34.751	-25.431	1.00	0.00	H
ATOM	2109	1HD2	ASN A 417	5.228	-37.168	-22.615	1.00	0.00	H
ATOM	2110	2HD2	ASN A 417	5.710	-37.504	-20.954	1.00	0.00	H
ATOM	2111	N	LEU A 418	9.434	-37.879	-23.062	1.00	32.67	N
ATOM	2112	CA	LEU A 418	9.832	-39.272	-23.280	1.00	32.94	C



ATOM	2113	C	LEU A 418	8.716	-40.292	-22.976	1.00	33.45	C
ATOM	2114	O	LEU A 418	8.602	-41.266	-23.722	1.00	33.83	O
ATOM	2115	CB	LEU A 418	11.102	-39.546	-22.455	1.00	32.53	C
ATOM	2116	CG	LEU A 418	12.344	-38.734	-22.875	1.00	32.07	C
ATOM	2117	CD1	LEU A 418	13.437	-38.837	-21.815	1.00	31.67	C
ATOM	2118	CD2	LEU A 418	12.925	-39.241	-24.198	1.00	32.31	C
ATOM	2119	H	LEU A 418	9.926	-37.369	-22.330	1.00	0.00	H
ATOM	2120	N	SER A 419	7.728	-39.935	-22.141	1.00	33.50	N
ATOM	2121	CA	SER A 419	6.552	-40.781	-21.838	1.00	34.04	C
ATOM	2122	C	SER A 419	5.671	-41.084	-23.058	1.00	34.59	C
ATOM	2123	O	SER A 419	4.808	-41.957	-23.001	1.00	35.09	O
ATOM	2124	CB	SER A 419	5.637	-40.177	-20.751	1.00	33.95	C
ATOM	2125	OG	SER A 419	6.194	-39.091	-20.042	1.00	33.55	O
ATOM	2126	H	SER A 419	7.941	-39.200	-21.476	1.00	0.00	H
ATOM	2127	HG	SER A 419	7.087	-39.379	-19.691	1.00	0.00	H
ATOM	2128	N	LEU A 420	5.814	-40.320	-24.147	1.00	34.51	N
ATOM	2129	CA	LEU A 420	5.107	-40.550	-25.406	1.00	35.00	C
ATOM	2130	C	LEU A 420	5.605	-41.846	-26.064	1.00	35.44	C
ATOM	2131	O	LEU A 420	5.358	-42.082	-27.250	1.00	35.95	O
ATOM	2132	CB	LEU A 420	5.281	-39.320	-26.317	1.00	34.74	C
ATOM	2133	CG	LEU A 420	4.695	-38.006	-25.765	1.00	34.51	C
ATOM	2134	CD1	LEU A 420	5.059	-36.856	-26.704	1.00	33.93	C
ATOM	2135	CD2	LEU A 420	3.170	-38.063	-25.652	1.00	34.98	C
ATOM	2136	H	LEU A 420	6.579	-39.654	-24.142	1.00	0.00	H
ATOM	2137	N	ILE A 424	9.238	-40.377	-30.929	1.00	34.45	N
ATOM	2138	CA	ILE A 424	8.601	-39.459	-29.981	1.00	34.27	C
ATOM	2139	C	ILE A 424	8.507	-38.057	-30.613	1.00	33.88	C

ATOM	2140	O	ILE A 424	9.183	-37.753	-31.599	1.00	33.54	O
ATOM	2141	CB	ILE A 424	9.332	-39.509	-28.610	1.00	34.01	C
ATOM	2142	CG1	ILE A 424	8.897	-40.726	-27.756	1.00	34.49	C
ATOM	2143	CG2	ILE A 424	9.106	-38.264	-27.730	1.00	33.66	C
ATOM	2144	CD1	ILE A 424	9.225	-42.106	-28.340	1.00	35.04	C
ATOM	2145	H	ILE A 424	9.789	-39.945	-31.663	1.00	0.00	H
ATOM	2146	N	ILE A 425	7.499	-37.294	-30.185	1.00	33.98	N
ATOM	2147	CA	ILE A 425	7.091	-36.014	-30.779	1.00	33.71	C
ATOM	2148	C	ILE A 425	7.971	-34.870	-30.257	1.00	33.14	C
ATOM	2149	O	ILE A 425	8.118	-34.718	-29.044	1.00	33.01	O
ATOM	2150	CB	ILE A 425	5.590	-35.753	-30.492	1.00	33.99	C
ATOM	2151	CG1	ILE A 425	4.731	-36.969	-30.919	1.00	34.60	C
ATOM	2152	CG2	ILE A 425	5.124	-34.464	-31.185	1.00	33.68	C
ATOM	2153	CD1	ILE A 425	3.213	-36.799	-30.783	1.00	34.81	C
ATOM	2154	H	ILE A 425	7.020	-37.585	-29.348	1.00	0.00	H
ATOM	2155	N	LEU A 426	8.415	-33.980	-31.151	1.00	32.81	N
ATOM	2156	CA	LEU A 426	8.852	-32.628	-30.777	1.00	32.29	C
ATOM	2157	C	LEU A 426	7.671	-31.650	-30.799	1.00	32.29	C
ATOM	2158	O	LEU A 426	6.949	-31.592	-31.792	1.00	32.54	O
ATOM	2159	CB	LEU A 426	9.948	-32.131	-31.733	1.00	31.95	C
ATOM	2160	CG	LEU A 426	11.311	-32.820	-31.585	1.00	31.92	C
ATOM	2161	CD1	LEU A 426	12.212	-32.365	-32.729	1.00	31.80	C
ATOM	2162	CD2	LEU A 426	12.032	-32.443	-30.291	1.00	31.56	C
ATOM	2163	H	LEU A 426	8.192	-34.143	-32.127	1.00	0.00	H
ATOM	2164	N	GLN A 427	7.596	-30.751	-29.819	1.00	32.01	N
ATOM	2165	CA	GLN A 427	6.581	-29.691	-29.747	1.00	32.05	C
ATOM	2166	C	GLN A 427	7.254	-28.324	-29.546	1.00	31.59	C

ATOM	2167	O	GLN A 427	8.116	-28.184	-28.679	1.00	31.34	O
ATOM	2168	CB	GLN A 427	5.561	-30.007	-28.637	1.00	32.34	C
ATOM	2169	CG	GLN A 427	4.902	-31.389	-28.795	1.00	32.77	C
ATOM	2170	CD	GLN A 427	3.775	-31.614	-27.795	1.00	33.14	C
ATOM	2171	OE1	GLN A 427	3.917	-31.395	-26.600	1.00	33.09	O
ATOM	2172	NE2	GLN A 427	2.643	-32.127	-28.222	1.00	33.55	N
ATOM	2173	H	GLN A 427	8.243	-30.835	-29.040	1.00	0.00	H
ATOM	2174	1HE2	GLN A 427	2.484	-32.304	-29.225	1.00	0.00	H
ATOM	2175	2HE2	GLN A 427	1.918	-32.267	-27.550	1.00	0.00	H
ATOM	2176	N	PHE A 428	6.965	-27.338	-30.400	1.00	31.50	N
ATOM	2177	CA	PHE A 428	7.614	-26.020	-30.342	1.00	31.09	C
ATOM	2178	C	PHE A 428	6.866	-25.024	-29.445	1.00	31.08	C
ATOM	2179	O	PHE A 428	5.677	-24.774	-29.646	1.00	31.41	O
ATOM	2180	CB	PHE A 428	7.821	-25.455	-31.750	1.00	31.02	C
ATOM	2181	CG	PHE A 428	8.544	-24.116	-31.778	1.00	30.60	C
ATOM	2182	CD1	PHE A 428	9.917	-24.045	-31.474	1.00	30.28	C
ATOM	2183	CD2	PHE A 428	7.844	-22.933	-32.087	1.00	30.54	C
ATOM	2184	CE1	PHE A 428	10.584	-22.806	-31.472	1.00	29.91	C
ATOM	2185	CE2	PHE A 428	8.512	-21.694	-32.092	1.00	30.18	C
ATOM	2186	CZ	PHE A 428	9.881	-21.629	-31.781	1.00	29.87	C
ATOM	2187	H	PHE A 428	6.244	-27.497	-31.098	1.00	0.00	H
ATOM	2188	N	ILE A 429	7.625	-24.304	-28.617	1.00	30.74	N
ATOM	2189	CA	ILE A 429	7.180	-23.154	-27.827	1.00	30.70	C
ATOM	2190	C	ILE A 429	7.976	-21.914	-28.253	1.00	30.33	C
ATOM	2191	O	ILE A 429	9.201	-21.909	-28.167	1.00	30.02	O
ATOM	2192	CB	ILE A 429	7.353	-23.469	-26.323	1.00	30.69	C
ATOM	2193	CG1	ILE A 429	6.435	-24.610	-25.817	1.00	31.13	C

ATOM	2194	CG2 ILE A 429	7.161	-22.206	-25.476	1.00	30.51	C
ATOM	2195	CD1 ILE A 429	4.926	-24.325	-25.866	1.00	31.38	C
ATOM	2196	H ILE A 429	8.612	-24.539	-28.561	1.00	0.00	H
ATOM	2197	N GLU A 430	7.288	-20.835	-28.625	1.00	30.39	N
ATOM	2198	CA GLU A 430	7.908	-19.535	-28.906	1.00	30.08	C
ATOM	2199	C GLU A 430	8.277	-18.760	-27.627	1.00	29.90	C
ATOM	2200	O GLU A 430	7.578	-18.840	-26.616	1.00	30.07	O
ATOM	2201	CB GLU A 430	6.991	-18.713	-29.824	1.00	30.21	C
ATOM	2202	CG GLU A 430	5.584	-18.406	-29.269	1.00	30.38	C
ATOM	2203	CD GLU A 430	4.750	-17.576	-30.262	1.00	30.63	C
ATOM	2204	OE1 GLU A 430	4.931	-17.794	-31.480	1.00	30.68	O
ATOM	2205	OE2 GLU A 430	4.396	-16.433	-29.901	1.00	30.79	O
ATOM	2206	H GLU A 430	6.282	-20.874	-28.593	1.00	0.00	H
ATOM	2207	N ILE A 431	9.330	-17.936	-27.699	1.00	29.56	N
ATOM	2208	CA ILE A 431	9.667	-16.948	-26.660	1.00	29.38	C
ATOM	2209	C ILE A 431	8.743	-15.723	-26.718	1.00	29.53	C
ATOM	2210	O ILE A 431	8.392	-15.267	-27.808	1.00	29.62	O
ATOM	2211	CB ILE A 431	11.162	-16.557	-26.752	1.00	29.00	C
ATOM	2212	CG1 ILE A 431	11.657	-15.952	-25.421	1.00	28.83	C
ATOM	2213	CG2 ILE A 431	11.480	-15.590	-27.912	1.00	28.92	C
ATOM	2214	CD1 ILE A 431	13.176	-16.067	-25.259	1.00	28.52	C
ATOM	2215	H ILE A 431	9.904	-17.948	-28.534	1.00	0.00	H
ATOM	2216	N ALA A 432	8.451	-15.112	-25.568	1.00	29.57	N
ATOM	2217	CA ALA A 432	7.614	-13.914	-25.440	1.00	29.73	C
ATOM	2218	C ALA A 432	8.048	-12.710	-26.314	1.00	29.55	C
ATOM	2219	O ALA A 432	9.199	-12.581	-26.733	1.00	29.25	O
ATOM	2220	CB ALA A 432	7.552	-13.532	-23.954	1.00	29.72	C

ATOM	2221	H	ALA A 432	8.679	-15.614	-24.716	1.00	0.00	H
ATOM	2222	N	ASP A 433	7.120	-11.771	-26.516	1.00	29.73	N
ATOM	2223	CA	ASP A 433	7.316	-10.492	-27.217	1.00	29.58	C
ATOM	2224	C	ASP A 433	8.240	-9.513	-26.461	1.00	29.37	C
ATOM	2225	O	ASP A 433	8.782	-8.571	-27.044	1.00	29.27	O
ATOM	2226	CB	ASP A 433	5.942	-9.817	-27.386	1.00	29.85	C
ATOM	2227	CG	ASP A 433	5.325	-9.431	-26.032	1.00	30.11	C
ATOM	2228	OD1	ASP A 433	5.072	-10.388	-25.266	1.00	30.09	O
ATOM	2229	OD2	ASP A 433	5.645	-8.305	-25.586	1.00	30.34	O
ATOM	2230	H	ASP A 433	6.227	-11.859	-26.035	1.00	0.00	H
ATOM	2231	N	ASN A 434	8.360	-9.683	-25.141	1.00	29.30	N
ATOM	2232	CA	ASN A 434	9.047	-8.740	-24.266	1.00	29.19	C
ATOM	2233	C	ASN A 434	10.544	-8.696	-24.638	1.00	28.85	C
ATOM	2234	O	ASN A 434	11.232	-9.709	-24.519	1.00	28.68	O
ATOM	2235	CB	ASN A 434	8.842	-9.156	-22.793	1.00	29.31	C
ATOM	2236	CG	ASN A 434	7.414	-9.377	-22.302	1.00	29.69	C
ATOM	2237	OD1	ASN A 434	7.223	-9.968	-21.249	1.00	29.84	O
ATOM	2238	ND2	ASN A 434	6.375	-8.931	-22.963	1.00	29.87	N
ATOM	2239	H	ASN A 434	7.796	-10.411	-24.729	1.00	0.00	H
ATOM	2240	1HD2	ASN A 434	6.424	-8.600	-23.932	1.00	0.00	H
ATOM	2241	2HD2	ASN A 434	5.475	-9.282	-22.690	1.00	0.00	H
ATOM	2242	N	ARG A 435	11.042	-7.553	-25.143	1.00	30.70	N
ATOM	2243	CA	ARG A 435	12.352	-7.442	-25.836	1.00	30.41	C
ATOM	2244	C	ARG A 435	12.522	-8.508	-26.935	1.00	30.33	C
ATOM	2245	O	ARG A 435	13.543	-9.192	-27.006	1.00	30.15	O
ATOM	2246	CB	ARG A 435	13.546	-7.390	-24.849	1.00	30.20	C
ATOM	2247	CG	ARG A 435	13.652	-6.054	-24.096	1.00	30.27	C

ATOM	2248	CD	ARG A 435	14.786	-6.038	-23.057	1.00	30.09	C
ATOM	2249	NE	ARG A 435	16.146	-6.118	-23.636	1.00	29.80	N
ATOM	2250	CZ	ARG A 435	17.259	-6.313	-22.952	1.00	29.70	C
ATOM	2251	NH1	ARG A 435	18.393	-6.455	-23.565	1.00	29.45	N
ATOM	2252	NH2	ARG A 435	17.264	-6.371	-21.649	1.00	29.88	N
ATOM	2253	H	ARG A 435	10.377	-6.805	-25.280	1.00	0.00	H
ATOM	2254	HE	ARG A 435	16.274	-6.116	-24.652	1.00	0.00	H
ATOM	2255	1HH1	ARG A 435	18.430	-6.224	-24.571	1.00	0.00	H
ATOM	2256	2HH1	ARG A 435	19.255	-6.499	-23.066	1.00	0.00	H
ATOM	2257	1HH2	ARG A 435	16.464	-6.020	-21.135	1.00	0.00	H
ATOM	2258	2HH2	ARG A 435	18.084	-6.677	-21.145	1.00	0.00	H
ATOM	2259	N	LEU A 436	11.526	-8.657	-27.810	1.00	28.55	N
ATOM	2260	CA	LEU A 436	11.640	-9.473	-29.018	1.00	28.54	C
ATOM	2261	C	LEU A 436	12.813	-8.994	-29.888	1.00	28.30	C
ATOM	2262	O	LEU A 436	12.936	-7.812	-30.198	1.00	28.26	O
ATOM	2263	CB	LEU A 436	10.307	-9.446	-29.791	1.00	28.79	C
ATOM	2264	CG	LEU A 436	10.280	-10.286	-31.080	1.00	28.94	C
ATOM	2265	CD1	LEU A 436	10.450	-11.781	-30.805	1.00	28.93	C
ATOM	2266	CD2	LEU A 436	8.944	-10.092	-31.800	1.00	29.25	C
ATOM	2267	H	LEU A 436	10.642	-8.197	-27.628	1.00	0.00	H
ATOM	2268	N	THR A 437	13.595	-9.950	-30.379	1.00	28.80	N
ATOM	2269	CA	THR A 437	14.648	-9.774	-31.389	1.00	28.61	C
ATOM	2270	C	THR A 437	14.591	-10.953	-32.356	1.00	28.65	C
ATOM	2271	O	THR A 437	13.956	-11.966	-32.047	1.00	28.76	O
ATOM	2272	CB	THR A 437	16.049	-9.672	-30.754	1.00	28.36	C
ATOM	2273	OG1	THR A 437	16.340	-10.798	-29.951	1.00	28.32	O
ATOM	2274	CG2	THR A 437	16.215	-8.444	-29.866	1.00	28.33	C

ATOM	2275	H	THR A 437	13.367	-10.906	-30.152	1.00	0.00	H
ATOM	2276	HG1	THR A 437	16.567	-11.540	-30.531	1.00	0.00	H
ATOM	2277	N	ILE A 438	15.323	-10.871	-33.473	1.00	27.92	N
ATOM	2278	CA	ILE A 438	15.451	-11.970	-34.440	1.00	27.96	C
ATOM	2279	C	ILE A 438	15.783	-13.296	-33.751	1.00	27.93	C
ATOM	2280	O	ILE A 438	16.641	-13.347	-32.868	1.00	27.78	O
ATOM	2281	CB	ILE A 438	16.486	-11.627	-35.538	1.00	27.81	C
ATOM	2282	CG1	ILE A 438	16.565	-12.770	-36.577	1.00	27.92	C
ATOM	2283	CG2	ILE A 438	17.888	-11.313	-34.977	1.00	27.59	C
ATOM	2284	CD1	ILE A 438	17.174	-12.369	-37.922	1.00	27.82	C
ATOM	2285	H	ILE A 438	15.847	-10.028	-33.653	1.00	0.00	H
ATOM	2286	N	GLY A 439	15.112	-14.368	-34.177	1.00	28.10	N
ATOM	2287	CA	GLY A 439	15.406	-15.726	-33.741	1.00	28.11	C
ATOM	2288	C	GLY A 439	16.870	-16.076	-33.983	1.00	27.85	C
ATOM	2289	O	GLY A 439	17.353	-16.100	-35.114	1.00	27.73	O
ATOM	2290	H	GLY A 439	14.345	-14.232	-34.827	1.00	0.00	H
ATOM	2291	N	SER A 440	17.580	-16.295	-32.887	1.00	42.44	N
ATOM	2292	CA	SER A 440	19.033	-16.396	-32.800	1.00	42.21	C
ATOM	2293	C	SER A 440	19.416	-17.476	-31.782	1.00	42.22	C
ATOM	2294	O	SER A 440	18.564	-17.853	-30.966	1.00	42.34	O
ATOM	2295	CB	SER A 440	19.610	-15.037	-32.418	1.00	42.01	C
ATOM	2296	OG	SER A 440	19.157	-14.633	-31.145	1.00	42.03	O
ATOM	2297	H	SER A 440	17.090	-16.249	-32.001	1.00	0.00	H
ATOM	2298	HG	SER A 440	19.886	-14.136	-30.718	1.00	0.00	H
ATOM	2299	N	PRO A 441	20.635	-18.048	-31.852	1.00	27.43	N
ATOM	2300	CA	PRO A 441	20.950	-19.217	-31.048	1.00	27.40	C
ATOM	2301	C	PRO A 441	20.926	-18.900	-29.550	1.00	27.28	C

ATOM	2302	O	PRO A 441	21.413	-17.858	-29.105	1.00	27.10	O
ATOM	2303	CB	PRO A 441	22.297	-19.750	-31.537	1.00	27.22	C
ATOM	2304	CG	PRO A 441	22.463	-19.121	-32.920	1.00	27.30	C
ATOM	2305	CD	PRO A 441	21.701	-17.800	-32.812	1.00	27.32	C
ATOM	2306	N	SER A 442	20.348	-19.803	-28.768	1.00	27.41	N
ATOM	2307	CA	SER A 442	19.942	-19.567	-27.377	1.00	27.34	C
ATOM	2308	C	SER A 442	20.324	-20.732	-26.458	1.00	27.40	C
ATOM	2309	O	SER A 442	20.978	-21.674	-26.888	1.00	27.55	O
ATOM	2310	CB	SER A 442	18.436	-19.250	-27.352	1.00	27.52	C
ATOM	2311	OG	SER A 442	17.650	-20.206	-28.043	1.00	27.81	O
ATOM	2312	H	SER A 442	19.967	-20.631	-29.219	1.00	0.00	H
ATOM	2313	HG	SER A 442	17.740	-21.064	-27.623	1.00	0.00	H
ATOM	2314	N	LYS A 443	20.030	-20.626	-25.163	1.00	27.29	N
ATOM	2315	CA	LYS A 443	20.440	-21.590	-24.132	1.00	27.31	C
ATOM	2316	C	LYS A 443	19.489	-21.507	-22.944	1.00	27.35	C
ATOM	2317	O	LYS A 443	19.059	-20.413	-22.584	1.00	27.20	O
ATOM	2318	CB	LYS A 443	21.907	-21.288	-23.770	1.00	27.03	C
ATOM	2319	CG	LYS A 443	22.463	-21.918	-22.488	1.00	26.89	C
ATOM	2320	CD	LYS A 443	23.974	-21.646	-22.417	1.00	26.60	C
ATOM	2321	CE	LYS A 443	24.557	-21.807	-21.009	1.00	26.37	C
ATOM	2322	NZ	LYS A 443	26.030	-21.700	-21.039	1.00	26.08	N1+
ATOM	2323	H	LYS A 443	19.565	-19.778	-24.848	1.00	0.00	H
ATOM	2324	HZ1	LYS A 443	26.447	-22.624	-21.121	1.00	0.00	H
ATOM	2325	HZ2	LYS A 443	26.382	-21.071	-21.756	1.00	0.00	H
ATOM	2326	HZ3	LYS A 443	26.420	-21.388	-20.160	1.00	0.00	H
ATOM	2327	N	ILE A 444	19.182	-22.642	-22.323	1.00	27.58	N
ATOM	2328	CA	ILE A 444	18.385	-22.719	-21.089	1.00	27.62	C



ATOM	2329	C	ILE A 444	19.063	-23.682	-20.113	1.00	27.48	C
ATOM	2330	O	ILE A 444	19.596	-24.700	-20.544	1.00	27.53	O
ATOM	2331	CB	ILE A 444	16.902	-23.058	-21.380	1.00	28.00	C
ATOM	2332	CG1	ILE A 444	16.067	-22.967	-20.080	1.00	28.08	C
ATOM	2333	CG2	ILE A 444	16.719	-24.417	-22.072	1.00	28.23	C
ATOM	2334	CD1	ILE A 444	14.549	-23.078	-20.279	1.00	28.47	C
ATOM	2335	H	ILE A 444	19.635	-23.499	-22.632	1.00	0.00	H
ATOM	2336	N	TYR A 445	19.190	-23.295	-18.840	1.00	27.31	N
ATOM	2337	CA	TYR A 445	20.089	-23.972	-17.897	1.00	27.14	C
ATOM	2338	C	TYR A 445	19.654	-23.806	-16.429	1.00	27.08	C
ATOM	2339	O	TYR A 445	19.313	-22.713	-15.976	1.00	27.00	O
ATOM	2340	CB	TYR A 445	21.533	-23.505	-18.147	1.00	26.82	C
ATOM	2341	CG	TYR A 445	21.815	-22.020	-17.985	1.00	26.58	C
ATOM	2342	CD1	TYR A 445	22.528	-21.574	-16.862	1.00	26.32	C
ATOM	2343	CD2	TYR A 445	21.433	-21.089	-18.973	1.00	26.63	C
ATOM	2344	CE1	TYR A 445	22.873	-20.219	-16.732	1.00	26.13	C
ATOM	2345	CE2	TYR A 445	21.788	-19.730	-18.857	1.00	26.45	C
ATOM	2346	CZ	TYR A 445	22.519	-19.293	-17.733	1.00	26.21	C
ATOM	2347	OH	TYR A 445	22.879	-17.990	-17.604	1.00	26.05	O
ATOM	2348	H	TYR A 445	18.831	-22.380	-18.577	1.00	0.00	H
ATOM	2349	HH	TYR A 445	23.598	-17.760	-18.221	1.00	0.00	H
ATOM	2350	N	ASN A 446	19.658	-24.910	-15.672	1.00	48.90	N
ATOM	2351	CA	ASN A 446	19.094	-25.023	-14.315	1.00	48.86	C
ATOM	2352	C	ASN A 446	19.984	-24.412	-13.205	1.00	48.47	C
ATOM	2353	O	ASN A 446	20.363	-25.095	-12.251	1.00	48.24	O
ATOM	2354	CB	ASN A 446	18.737	-26.503	-14.042	1.00	49.01	C
ATOM	2355	CG	ASN A 446	17.537	-27.004	-14.826	1.00	49.43	C

ATOM	2356	OD1 ASN A 446	16.602	-26.276	-15.103	1.00	49.56	O
ATOM	2357	ND2 ASN A 446	17.488	-28.277	-15.142	1.00	49.67	N
ATOM	2358	H ASN A 446	19.974	-25.762	-16.111	1.00	0.00	H
ATOM	2359	1HD2 ASN A 446	18.243	-28.889	-14.904	1.00	0.00	H
ATOM	2360	2HD2 ASN A 446	16.638	-28.603	-15.579	1.00	0.00	H
ATOM	2361	N SER A 447	20.320	-23.122	-13.300	1.00	26.66	N
ATOM	2362	CA SER A 447	21.146	-22.438	-12.292	1.00	26.31	C
ATOM	2363	C SER A 447	20.483	-22.451	-10.914	1.00	26.35	C
ATOM	2364	O SER A 447	19.441	-21.827	-10.715	1.00	26.61	O
ATOM	2365	CB SER A 447	21.423	-20.979	-12.658	1.00	26.16	C
ATOM	2366	OG SER A 447	22.041	-20.887	-13.917	1.00	26.11	O
ATOM	2367	H SER A 447	19.959	-22.596	-14.087	1.00	0.00	H
ATOM	2368	HG SER A 447	21.383	-20.965	-14.616	1.00	0.00	H
ATOM	2369	N LEU A 448	21.168	-23.003	-9.908	1.00	26.11	N
ATOM	2370	CA LEU A 448	20.837	-22.810	-8.487	1.00	26.08	C
ATOM	2371	C LEU A 448	19.348	-23.088	-8.158	1.00	26.46	C
ATOM	2372	O LEU A 448	18.684	-22.270	-7.524	1.00	26.55	O
ATOM	2373	CB LEU A 448	21.321	-21.415	-8.024	1.00	25.87	C
ATOM	2374	CG LEU A 448	22.781	-21.057	-8.365	1.00	25.61	C
ATOM	2375	CD1 LEU A 448	23.047	-19.604	-7.985	1.00	25.35	C
ATOM	2376	CD2 LEU A 448	23.780	-21.952	-7.631	1.00	25.44	C
ATOM	2377	H LEU A 448	22.026	-23.483	-10.137	1.00	0.00	H
ATOM	2378	N GLY A 449	18.781	-24.152	-8.742	1.00	26.72	N
ATOM	2379	CA GLY A 449	17.403	-24.604	-8.489	1.00	27.11	C
ATOM	2380	C GLY A 449	16.291	-23.976	-9.343	1.00	27.46	C
ATOM	2381	O GLY A 449	15.135	-24.330	-9.145	1.00	27.80	O
ATOM	2382	H GLY A 449	19.359	-24.719	-9.345	1.00	0.00	H

ATOM	2383	N	GLN A 450	16.608	-23.114	-10.314	1.00	27.37	N
ATOM	2384	CA	GLN A 450	15.624	-22.408	-11.156	1.00	27.66	C
ATOM	2385	C	GLN A 450	16.215	-22.161	-12.562	1.00	27.50	C
ATOM	2386	O	GLN A 450	17.385	-21.771	-12.643	1.00	27.16	O
ATOM	2387	CB	GLN A 450	15.210	-21.115	-10.416	1.00	27.78	C
ATOM	2388	CG	GLN A 450	14.780	-19.906	-11.266	1.00	27.81	C
ATOM	2389	CD	GLN A 450	13.436	-20.042	-11.966	1.00	28.20	C
ATOM	2390	OE1	GLN A 450	12.672	-20.968	-11.755	1.00	28.43	O
ATOM	2391	NE2	GLN A 450	13.119	-19.091	-12.809	1.00	28.29	N
ATOM	2392	H	GLN A 450	17.581	-22.865	-10.440	1.00	0.00	H
ATOM	2393	1HE2	GLN A 450	13.765	-18.350	-13.000	1.00	0.00	H
ATOM	2394	2HE2	GLN A 450	12.212	-19.109	-13.265	1.00	0.00	H
ATOM	2395	N	PRO A 451	15.478	-22.358	-13.675	1.00	27.73	N
ATOM	2396	CA	PRO A 451	16.040	-22.151	-15.006	1.00	27.60	C
ATOM	2397	C	PRO A 451	16.356	-20.681	-15.306	1.00	27.50	C
ATOM	2398	O	PRO A 451	15.513	-19.795	-15.154	1.00	27.64	O
ATOM	2399	CB	PRO A 451	15.046	-22.736	-16.012	1.00	27.91	C
ATOM	2400	CG	PRO A 451	14.166	-23.658	-15.169	1.00	28.25	C
ATOM	2401	CD	PRO A 451	14.169	-22.986	-13.798	1.00	28.15	C
ATOM	2402	N	VAL A 452	17.515	-20.472	-15.924	1.00	27.28	N
ATOM	2403	CA	VAL A 452	17.921	-19.226	-16.585	1.00	27.17	C
ATOM	2404	C	VAL A 452	17.888	-19.452	-18.093	1.00	27.20	C
ATOM	2405	O	VAL A 452	18.285	-20.518	-18.568	1.00	27.13	O
ATOM	2406	CB	VAL A 452	19.322	-18.783	-16.121	1.00	26.83	C
ATOM	2407	CG1	VAL A 452	19.739	-17.423	-16.695	1.00	26.82	C
ATOM	2408	CG2	VAL A 452	19.403	-18.657	-14.599	1.00	26.76	C
ATOM	2409	H	VAL A 452	18.123	-21.272	-16.060	1.00	0.00	H

ATOM	2410	N	PHE A 453	17.418	-18.464	-18.848	1.00	27.32	N
ATOM	2411	CA	PHE A 453	17.481	-18.426	-20.305	1.00	27.39	C
ATOM	2412	C	PHE A 453	18.518	-17.397	-20.778	1.00	27.15	C
ATOM	2413	O	PHE A 453	18.691	-16.342	-20.165	1.00	27.02	O
ATOM	2414	CB	PHE A 453	16.084	-18.132	-20.869	1.00	27.70	C
ATOM	2415	CG	PHE A 453	15.937	-18.457	-22.344	1.00	27.81	C
ATOM	2416	CD1	PHE A 453	15.575	-19.760	-22.728	1.00	28.03	C
ATOM	2417	CD2	PHE A 453	16.180	-17.485	-23.333	1.00	27.70	C
ATOM	2418	CE1	PHE A 453	15.489	-20.107	-24.088	1.00	28.15	C
ATOM	2419	CE2	PHE A 453	16.076	-17.827	-24.694	1.00	27.80	C
ATOM	2420	CZ	PHE A 453	15.729	-19.136	-25.072	1.00	28.02	C
ATOM	2421	H	PHE A 453	17.135	-17.608	-18.380	1.00	0.00	H
ATOM	2422	N	TYR A 454	19.100	-17.638	-21.950	1.00	27.11	N
ATOM	2423	CA	TYR A 454	19.944	-16.706	-22.695	1.00	26.94	C
ATOM	2424	C	TYR A 454	19.599	-16.759	-24.189	1.00	27.06	C
ATOM	2425	O	TYR A 454	19.381	-17.837	-24.744	1.00	27.13	O
ATOM	2426	CB	TYR A 454	21.429	-17.005	-22.415	1.00	26.67	C
ATOM	2427	CG	TYR A 454	22.399	-16.590	-23.511	1.00	26.56	C
ATOM	2428	CD1	TYR A 454	23.106	-15.372	-23.449	1.00	26.46	C
ATOM	2429	CD2	TYR A 454	22.575	-17.439	-24.619	1.00	26.58	C
ATOM	2430	CE1	TYR A 454	24.017	-15.034	-24.473	1.00	26.38	C
ATOM	2431	CE2	TYR A 454	23.468	-17.100	-25.643	1.00	26.49	C
ATOM	2432	CZ	TYR A 454	24.214	-15.911	-25.562	1.00	26.39	C
ATOM	2433	OH	TYR A 454	25.143	-15.666	-26.522	1.00	26.32	O
ATOM	2434	H	TYR A 454	18.900	-18.531	-22.395	1.00	0.00	H
ATOM	2435	HH	TYR A 454	25.482	-16.507	-26.837	1.00	0.00	H
ATOM	2436	N	GLN A 455	19.701	-15.618	-24.869	1.00	27.06	N

ATOM	2437	CA	GLN A 455	19.637	-15.494	-26.323	1.00	27.15	C
ATOM	2438	C	GLN A 455	20.860	-14.718	-26.822	1.00	26.94	C
ATOM	2439	O	GLN A 455	21.095	-13.594	-26.386	1.00	26.82	O
ATOM	2440	CB	GLN A 455	18.308	-14.816	-26.705	1.00	27.36	C
ATOM	2441	CG	GLN A 455	18.171	-14.571	-28.214	1.00	27.48	C
ATOM	2442	CD	GLN A 455	16.823	-13.982	-28.630	1.00	27.72	C
ATOM	2443	OE1	GLN A 455	16.031	-13.501	-27.829	1.00	27.83	O
ATOM	2444	NE2	GLN A 455	16.584	-13.846	-29.914	1.00	27.80	N
ATOM	2445	H	GLN A 455	19.973	-14.785	-24.352	1.00	0.00	H
ATOM	2446	1HE2	GLN A 455	17.261	-14.193	-30.591	1.00	0.00	H
ATOM	2447	2HE2	GLN A 455	15.667	-13.558	-30.205	1.00	0.00	H
ATOM	2448	N	ALA A 456	21.560	-15.232	-27.835	1.00	26.92	N
ATOM	2449	CA	ALA A 456	22.638	-14.482	-28.467	1.00	26.76	C
ATOM	2450	C	ALA A 456	22.082	-13.266	-29.225	1.00	26.83	C
ATOM	2451	O	ALA A 456	21.237	-13.405	-30.113	1.00	27.02	O
ATOM	2452	CB	ALA A 456	23.439	-15.415	-29.374	1.00	26.74	C
ATOM	2453	H	ALA A 456	21.343	-16.157	-28.192	1.00	0.00	H
ATOM	2454	N	SER A 457	22.593	-12.080	-28.904	1.00	57.19	N
ATOM	2455	CA	SER A 457	22.084	-10.776	-29.348	1.00	57.25	C
ATOM	2456	C	SER A 457	22.418	-10.437	-30.815	1.00	57.25	C
ATOM	2457	O	SER A 457	23.145	-9.493	-31.104	1.00	57.14	O
ATOM	2458	CB	SER A 457	22.608	-9.713	-28.376	1.00	57.13	C
ATOM	2459	OG	SER A 457	22.256	-10.059	-27.049	1.00	57.13	O
ATOM	2460	H	SER A 457	23.167	-12.049	-28.073	1.00	0.00	H
ATOM	2461	HG	SER A 457	22.183	-9.229	-26.529	1.00	0.00	H
ATOM	2462	N	TYR A 458	21.943	-11.249	-31.762	1.00	26.89	N
ATOM	2463	CA	TYR A 458	22.236	-11.165	-33.204	1.00	26.89	C

ATOM	2464	C	TYR A 458	21.496	-10.041	-33.968	1.00	26.95	C
ATOM	2465	O	TYR A 458	21.383	-10.106	-35.191	1.00	26.95	O
ATOM	2466	CB	TYR A 458	22.029	-12.550	-33.847	1.00	27.01	C
ATOM	2467	CG	TYR A 458	23.259	-13.434	-33.823	1.00	26.91	C
ATOM	2468	CD1	TYR A 458	24.161	-13.391	-34.904	1.00	26.84	C
ATOM	2469	CD2	TYR A 458	23.505	-14.296	-32.740	1.00	26.88	C
ATOM	2470	CE1	TYR A 458	25.306	-14.211	-34.903	1.00	26.77	C
ATOM	2471	CE2	TYR A 458	24.648	-15.120	-32.736	1.00	26.80	C
ATOM	2472	CZ	TYR A 458	25.552	-15.076	-33.817	1.00	26.75	C
ATOM	2473	OH	TYR A 458	26.658	-15.866	-33.801	1.00	26.68	O
ATOM	2474	H	TYR A 458	21.406	-12.045	-31.440	1.00	0.00	H
ATOM	2475	HH	TYR A 458	27.137	-15.798	-34.632	1.00	0.00	H
ATOM	2476	N	SER A 459	21.010	-8.994	-33.299	1.00	36.02	N
ATOM	2477	CA	SER A 459	20.677	-7.727	-33.971	1.00	36.09	C
ATOM	2478	C	SER A 459	20.798	-6.541	-33.003	1.00	36.08	C
ATOM	2479	O	SER A 459	21.832	-6.417	-32.353	1.00	35.99	O
ATOM	2480	CB	SER A 459	19.353	-7.796	-34.761	1.00	36.27	C
ATOM	2481	OG	SER A 459	18.171	-7.810	-33.982	1.00	36.38	O
ATOM	2482	H	SER A 459	21.242	-8.931	-32.318	1.00	0.00	H
ATOM	2483	HG	SER A 459	17.454	-7.611	-34.606	1.00	0.00	H
ATOM	2484	N	TRP A 460	19.880	-5.576	-33.060	1.00	27.19	N
ATOM	2485	CA	TRP A 460	20.076	-4.195	-32.607	1.00	27.20	C
ATOM	2486	C	TRP A 460	20.078	-3.988	-31.082	1.00	27.19	C
ATOM	2487	O	TRP A 460	20.686	-3.028	-30.619	1.00	27.14	O
ATOM	2488	CB	TRP A 460	19.001	-3.336	-33.282	1.00	27.38	C
ATOM	2489	CG	TRP A 460	17.585	-3.776	-33.051	1.00	27.55	C
ATOM	2490	CD1	TRP A 460	16.830	-4.473	-33.930	1.00	27.66	C

ATOM	2491	CD2 TRP A 460	16.740	-3.570	-31.875	1.00	27.66	C
ATOM	2492	NE1 TRP A 460	15.603	-4.758	-33.363	1.00	27.84	N
ATOM	2493	CE2 TRP A 460	15.489	-4.219	-32.098	1.00	27.85	C
ATOM	2494	CE3 TRP A 460	16.891	-2.866	-30.659	1.00	27.63	C
ATOM	2495	CZ2 TRP A 460	14.461	-4.217	-31.144	1.00	28.01	C
ATOM	2496	CZ3 TRP A 460	15.861	-2.843	-29.701	1.00	27.79	C
ATOM	2497	CH2 TRP A 460	14.653	-3.525	-29.934	1.00	27.98	C
ATOM	2498	H TRP A 460	19.040	-5.767	-33.587	1.00	0.00	H
ATOM	2499	HE1 TRP A 460	14.892	-5.302	-33.828	1.00	0.00	H
ATOM	2500	N ASP A 461	19.457	-4.875	-30.302	1.00	27.26	N
ATOM	2501	CA ASP A 461	19.566	-4.928	-28.832	1.00	27.24	C
ATOM	2502	C ASP A 461	20.871	-5.653	-28.449	1.00	27.02	C
ATOM	2503	O ASP A 461	20.862	-6.870	-28.265	1.00	26.96	O
ATOM	2504	CB ASP A 461	18.299	-5.613	-28.265	1.00	27.40	C
ATOM	2505	CG ASP A 461	18.248	-5.793	-26.737	1.00	27.43	C
ATOM	2506	OD1 ASP A 461	19.117	-5.276	-26.004	1.00	27.29	O
ATOM	2507	OD2 ASP A 461	17.266	-6.389	-26.226	1.00	27.62	O
ATOM	2508	H ASP A 461	18.995	-5.644	-30.756	1.00	0.00	H
ATOM	2509	N THR A 462	22.026	-4.993	-28.635	1.00	26.91	N
ATOM	2510	CA THR A 462	23.347	-5.671	-28.668	1.00	26.71	C
ATOM	2511	C THR A 462	23.848	-6.126	-27.296	1.00	26.62	C
ATOM	2512	O THR A 462	24.853	-6.842	-27.204	1.00	26.44	O
ATOM	2513	CB THR A 462	24.438	-4.816	-29.335	1.00	26.65	C
ATOM	2514	OG1 THR A 462	24.910	-3.772	-28.515	1.00	26.72	O
ATOM	2515	CG2 THR A 462	23.978	-4.224	-30.662	1.00	26.73	C
ATOM	2516	H THR A 462	21.989	-4.007	-28.885	1.00	0.00	H
ATOM	2517	HG1 THR A 462	25.388	-4.172	-27.776	1.00	0.00	H

ATOM	2518	N	MET A 463	23.191	-5.654	-26.236	1.00	26.74	N
ATOM	2519	CA	MET A 463	23.445	-6.013	-24.842	1.00	26.67	C
ATOM	2520	C	MET A 463	23.123	-7.489	-24.591	1.00	26.61	C
ATOM	2521	O	MET A 463	22.294	-8.077	-25.286	1.00	26.70	O
ATOM	2522	CB	MET A 463	22.605	-5.113	-23.917	1.00	26.86	C
ATOM	2523	CG	MET A 463	22.806	-3.613	-24.183	1.00	26.94	C
ATOM	2524	SD	MET A 463	24.529	-3.038	-24.209	1.00	26.74	S
ATOM	2525	CE	MET A 463	24.994	-3.363	-22.491	1.00	26.56	C
ATOM	2526	H	MET A 463	22.361	-5.113	-26.429	1.00	0.00	H
ATOM	2527	N	ILE A 464	23.755	-8.113	-23.593	1.00	54.73	N
ATOM	2528	CA	ILE A 464	23.518	-9.533	-23.294	1.00	54.68	C
ATOM	2529	C	ILE A 464	22.059	-9.792	-22.871	1.00	54.89	C
ATOM	2530	O	ILE A 464	21.601	-9.360	-21.812	1.00	55.00	O
ATOM	2531	CB	ILE A 464	24.561	-10.088	-22.299	1.00	54.48	C
ATOM	2532	CG1	ILE A 464	24.378	-11.617	-22.164	1.00	54.44	C
ATOM	2533	CG2	ILE A 464	24.552	-9.373	-20.933	1.00	54.53	C
ATOM	2534	CD1	ILE A 464	25.534	-12.326	-21.448	1.00	54.22	C
ATOM	2535	H	ILE A 464	24.461	-7.605	-23.069	1.00	0.00	H
ATOM	2536	N	LYS A 465	21.324	-10.557	-23.685	1.00	26.70	N
ATOM	2537	CA	LYS A 465	19.965	-11.004	-23.362	1.00	26.91	C
ATOM	2538	C	LYS A 465	20.021	-12.295	-22.544	1.00	26.86	C
ATOM	2539	O	LYS A 465	20.094	-13.389	-23.097	1.00	26.83	O
ATOM	2540	CB	LYS A 465	19.143	-11.166	-24.647	1.00	27.06	C
ATOM	2541	CG	LYS A 465	18.958	-9.846	-25.414	1.00	27.19	C
ATOM	2542	CD	LYS A 465	18.036	-10.048	-26.621	1.00	27.39	C
ATOM	2543	CE	LYS A 465	16.576	-10.145	-26.167	1.00	27.64	C
ATOM	2544	NZ	LYS A 465	15.732	-10.797	-27.187	1.00	27.83	N1+



ATOM	2545	H	LYS A 465	21.719	-10.837	-24.575	1.00	0.00	H
ATOM	2546	HZ1	LYS A 465	15.982	-10.487	-28.122	1.00	0.00	H
ATOM	2547	HZ2	LYS A 465	15.824	-11.811	-27.177	1.00	0.00	H
ATOM	2548	HZ3	LYS A 465	14.760	-10.538	-27.037	1.00	0.00	H
ATOM	2549	N	LEU A 466	19.926	-12.165	-21.222	1.00	26.86	N
ATOM	2550	CA	LEU A 466	19.771	-13.278	-20.276	1.00	26.84	C
ATOM	2551	C	LEU A 466	18.744	-12.944	-19.185	1.00	27.00	C
ATOM	2552	O	LEU A 466	18.462	-11.769	-18.959	1.00	27.10	O
ATOM	2553	CB	LEU A 466	21.144	-13.706	-19.709	1.00	26.55	C
ATOM	2554	CG	LEU A 466	21.687	-12.914	-18.499	1.00	26.47	C
ATOM	2555	CD1	LEU A 466	23.035	-13.501	-18.074	1.00	26.18	C
ATOM	2556	CD2	LEU A 466	21.903	-11.426	-18.774	1.00	26.53	C
ATOM	2557	H	LEU A 466	19.902	-11.228	-20.845	1.00	0.00	H
ATOM	2558	N	GLY A 467	18.201	-13.947	-18.498	1.00	27.06	N
ATOM	2559	CA	GLY A 467	17.263	-13.753	-17.386	1.00	27.20	C
ATOM	2560	C	GLY A 467	16.701	-15.063	-16.836	1.00	27.36	C
ATOM	2561	O	GLY A 467	16.761	-16.093	-17.500	1.00	27.44	O
ATOM	2562	H	GLY A 467	18.392	-14.902	-18.793	1.00	0.00	H
ATOM	2563	N	ASP A 468	16.158	-15.038	-15.620	1.00	27.42	N
ATOM	2564	CA	ASP A 468	15.366	-16.158	-15.088	1.00	27.61	C
ATOM	2565	C	ASP A 468	14.077	-16.373	-15.905	1.00	27.96	C
ATOM	2566	O	ASP A 468	13.507	-15.413	-16.431	1.00	28.13	O
ATOM	2567	CB	ASP A 468	15.066	-15.909	-13.599	1.00	27.64	C
ATOM	2568	CG	ASP A 468	16.284	-16.202	-12.721	1.00	27.32	C
ATOM	2569	OD1	ASP A 468	16.769	-17.349	-12.790	1.00	27.07	O
ATOM	2570	OD2	ASP A 468	16.570	-15.445	-11.768	1.00	27.33	O
ATOM	2571	H	ASP A 468	16.061	-14.148	-15.159	1.00	0.00	H

ATOM	2572	N	VAL A 469	13.608	-17.621	-16.024	1.00	28.08	N
ATOM	2573	CA	VAL A 469	12.295	-17.905	-16.636	1.00	28.43	C
ATOM	2574	C	VAL A 469	11.166	-17.600	-15.648	1.00	28.70	C
ATOM	2575	O	VAL A 469	11.154	-18.108	-14.529	1.00	28.67	O
ATOM	2576	CB	VAL A 469	12.182	-19.337	-17.208	1.00	28.48	C
ATOM	2577	CG1	VAL A 469	13.321	-19.630	-18.194	1.00	28.26	C
ATOM	2578	CG2	VAL A 469	12.133	-20.456	-16.160	1.00	28.42	C
ATOM	2579	H	VAL A 469	14.120	-18.388	-15.598	1.00	0.00	H
ATOM	2580	N	ASP A 470	10.173	-16.818	-16.063	1.00	39.49	N
ATOM	2581	CA	ASP A 470	8.910	-16.665	-15.328	1.00	39.78	C
ATOM	2582	C	ASP A 470	7.862	-17.700	-15.777	1.00	40.13	C
ATOM	2583	O	ASP A 470	6.863	-17.916	-15.092	1.00	40.29	O
ATOM	2584	CB	ASP A 470	8.352	-15.234	-15.444	1.00	39.91	C
ATOM	2585	CG	ASP A 470	9.416	-14.160	-15.680	1.00	39.59	C
ATOM	2586	OD1	ASP A 470	9.761	-13.988	-16.869	1.00	39.27	O
ATOM	2587	OD2	ASP A 470	9.451	-13.186	-14.897	1.00	39.68	O
ATOM	2588	H	ASP A 470	10.232	-16.412	-16.993	1.00	0.00	H
ATOM	2589	N	THR A 471	8.035	-18.305	-16.959	1.00	29.72	N
ATOM	2590	CA	THR A 471	7.220	-19.432	-17.452	1.00	30.01	C
ATOM	2591	C	THR A 471	7.951	-20.164	-18.589	1.00	29.86	C
ATOM	2592	O	THR A 471	8.837	-19.582	-19.218	1.00	29.67	O
ATOM	2593	CB	THR A 471	5.803	-19.002	-17.913	1.00	30.44	C
ATOM	2594	OG1	THR A 471	5.441	-17.708	-17.480	1.00	30.39	O
ATOM	2595	CG2	THR A 471	4.748	-19.935	-17.320	1.00	30.66	C
ATOM	2596	H	THR A 471	8.834	-18.035	-17.523	1.00	0.00	H
ATOM	2597	HG1	THR A 471	5.708	-17.665	-16.547	1.00	0.00	H
ATOM	2598	N	VAL A 472	7.686	-21.466	-18.772	1.00	29.99	N

ATOM	2599	CA	VAL A 472	8.402	-22.337	-19.738	1.00	29.91	C
ATOM	2600	C	VAL A 472	7.494	-22.853	-20.860	1.00	30.22	C
ATOM	2601	O	VAL A 472	7.849	-22.692	-22.024	1.00	30.11	O
ATOM	2602	CB	VAL A 472	9.124	-23.493	-19.014	1.00	29.92	C
ATOM	2603	CG1	VAL A 472	9.828	-24.459	-19.977	1.00	29.85	C
ATOM	2604	CG2	VAL A 472	10.195	-22.941	-18.063	1.00	29.58	C
ATOM	2605	H	VAL A 472	6.951	-21.878	-18.221	1.00	0.00	H
ATOM	2606	N	ASP A 473	6.255	-23.232	-20.532	1.00	51.41	N
ATOM	2607	CA	ASP A 473	5.142	-23.327	-21.482	1.00	51.73	C
ATOM	2608	C	ASP A 473	4.130	-22.195	-21.182	1.00	52.06	C
ATOM	2609	O	ASP A 473	3.421	-22.291	-20.176	1.00	52.38	O
ATOM	2610	CB	ASP A 473	4.431	-24.700	-21.402	1.00	51.95	C
ATOM	2611	CG	ASP A 473	5.237	-25.949	-21.790	1.00	51.66	C
ATOM	2612	OD1	ASP A 473	6.480	-25.913	-21.896	1.00	51.33	O
ATOM	2613	OD2	ASP A 473	4.629	-27.043	-21.839	1.00	51.80	O
ATOM	2614	H	ASP A 473	6.017	-23.307	-19.560	1.00	0.00	H
ATOM	2615	N	PRO A 474	3.998	-21.149	-22.025	1.00	31.22	N
ATOM	2616	CA	PRO A 474	4.957	-20.696	-23.039	1.00	30.90	C
ATOM	2617	C	PRO A 474	6.233	-20.106	-22.405	1.00	30.47	C
ATOM	2618	O	PRO A 474	6.238	-19.761	-21.225	1.00	30.41	O
ATOM	2619	CB	PRO A 474	4.200	-19.625	-23.829	1.00	31.07	C
ATOM	2620	CG	PRO A 474	3.339	-18.966	-22.752	1.00	31.32	C
ATOM	2621	CD	PRO A 474	2.956	-20.143	-21.855	1.00	31.52	C
ATOM	2622	N	LEU A 475	7.292	-19.889	-23.193	1.00	30.19	N
ATOM	2623	CA	LEU A 475	8.548	-19.352	-22.668	1.00	29.79	C
ATOM	2624	C	LEU A 475	8.460	-17.831	-22.454	1.00	29.62	C
ATOM	2625	O	LEU A 475	8.470	-17.048	-23.409	1.00	29.51	O

ATOM	2626	CB	LEU A 475	9.727	-19.773	-23.562	1.00	29.57	C
ATOM	2627	CG	LEU A 475	11.075	-19.184	-23.098	1.00	29.17	C
ATOM	2628	CD1	LEU A 475	11.530	-19.709	-21.734	1.00	29.09	C
ATOM	2629	CD2	LEU A 475	12.164	-19.495	-24.117	1.00	29.00	C
ATOM	2630	H	LEU A 475	7.242	-20.124	-24.174	1.00	0.00	H
ATOM	2631	N	ARG A 476	8.621	-17.405	-21.201	1.00	29.61	N
ATOM	2632	CA	ARG A 476	8.668	-15.999	-20.776	1.00	29.46	C
ATOM	2633	C	ARG A 476	9.810	-15.802	-19.775	1.00	29.09	C
ATOM	2634	O	ARG A 476	10.035	-16.637	-18.903	1.00	29.03	O
ATOM	2635	CB	ARG A 476	7.262	-15.604	-20.274	1.00	29.73	C
ATOM	2636	CG	ARG A 476	7.163	-14.381	-19.354	1.00	29.60	C
ATOM	2637	CD	ARG A 476	7.777	-13.066	-19.870	1.00	29.61	C
ATOM	2638	NE	ARG A 476	8.600	-12.473	-18.803	1.00	29.28	N
ATOM	2639	CZ	ARG A 476	8.393	-11.370	-18.118	1.00	29.29	C
ATOM	2640	NH1	ARG A 476	7.639	-10.399	-18.545	1.00	29.59	N
ATOM	2641	NH2	ARG A 476	8.920	-11.253	-16.936	1.00	29.00	N
ATOM	2642	H	ARG A 476	8.672	-18.118	-20.474	1.00	0.00	H
ATOM	2643	HE	ARG A 476	9.198	-13.126	-18.294	1.00	0.00	H
ATOM	2644	1HH1	ARG A 476	7.356	-10.416	-19.523	1.00	0.00	H
ATOM	2645	2HH1	ARG A 476	7.552	-9.560	-18.016	1.00	0.00	H
ATOM	2646	1HH2	ARG A 476	9.345	-12.100	-16.530	1.00	0.00	H
ATOM	2647	2HH2	ARG A 476	8.623	-10.545	-16.303	1.00	0.00	H
ATOM	2648	N	VAL A 477	10.613	-14.763	-20.018	1.00	28.85	N
ATOM	2649	CA	VAL A 477	11.924	-14.529	-19.394	1.00	28.51	C
ATOM	2650	C	VAL A 477	11.989	-13.105	-18.848	1.00	28.47	C
ATOM	2651	O	VAL A 477	11.765	-12.147	-19.593	1.00	28.48	O
ATOM	2652	CB	VAL A 477	13.061	-14.764	-20.417	1.00	28.28	C

ATOM	2653	CG1 VAL A 477	14.453	-14.578	-19.799	1.00	27.96	C
ATOM	2654	CG2 VAL A 477	13.002	-16.166	-21.039	1.00	28.42	C
ATOM	2655	H VAL A 477	10.353	-14.131	-20.757	1.00	0.00	H
ATOM	2656	N GLN A 478	12.409	-12.939	-17.594	1.00	28.42	N
ATOM	2657	CA GLN A 478	12.701	-11.630	-17.008	1.00	28.38	C
ATOM	2658	C GLN A 478	14.114	-11.186	-17.397	1.00	28.05	C
ATOM	2659	O GLN A 478	15.071	-11.307	-16.628	1.00	27.83	O
ATOM	2660	CB GLN A 478	12.414	-11.589	-15.498	1.00	28.45	C
ATOM	2661	CG GLN A 478	12.926	-12.780	-14.676	1.00	28.17	C
ATOM	2662	CD GLN A 478	12.600	-12.608	-13.202	1.00	28.23	C
ATOM	2663	OE1 GLN A 478	13.440	-12.240	-12.394	1.00	28.04	O
ATOM	2664	NE2 GLN A 478	11.341	-12.699	-12.834	1.00	28.52	N
ATOM	2665	H GLN A 478	12.590	-13.771	-17.037	1.00	0.00	H
ATOM	2666	1HE2 GLN A 478	10.622	-12.923	-13.530	1.00	0.00	H
ATOM	2667	2HE2 GLN A 478	11.133	-12.578	-11.863	1.00	0.00	H
ATOM	2668	N TRP A 479	14.245	-10.732	-18.647	1.00	28.03	N
ATOM	2669	CA TRP A 479	15.504	-10.239	-19.202	1.00	27.76	C
ATOM	2670	C TRP A 479	16.131	-9.175	-18.297	1.00	27.66	C
ATOM	2671	O TRP A 479	15.516	-8.140	-18.027	1.00	27.86	O
ATOM	2672	CB TRP A 479	15.290	-9.624	-20.589	1.00	27.82	C
ATOM	2673	CG TRP A 479	14.655	-10.480	-21.637	1.00	27.93	C
ATOM	2674	CD1 TRP A 479	13.444	-10.248	-22.186	1.00	28.21	C
ATOM	2675	CD2 TRP A 479	15.197	-11.638	-22.346	1.00	27.79	C
ATOM	2676	NE1 TRP A 479	13.223	-11.134	-23.215	1.00	28.25	N
ATOM	2677	CE2 TRP A 479	14.281	-11.998	-23.379	1.00	28.00	C
ATOM	2678	CE3 TRP A 479	16.379	-12.403	-22.245	1.00	27.52	C
ATOM	2679	CZ2 TRP A 479	14.544	-13.021	-24.297	1.00	27.97	C

ATOM	2680	CZ3 TRP A 479	16.636	-13.464	-23.137	1.00	27.49	C
ATOM	2681	CH2 TRP A 479	15.730	-13.761	-24.171	1.00	27.72	C
ATOM	2682	H TRP A 479	13.437	-10.783	-19.256	1.00	0.00	H
ATOM	2683	HE1 TRP A 479	12.414	-11.051	-23.832	1.00	0.00	H
ATOM	2684	N ARG A 480	17.423	-9.323	-17.997	1.00	27.38	N
ATOM	2685	CA ARG A 480	18.202	-8.260	-17.361	1.00	27.28	C
ATOM	2686	C ARG A 480	18.344	-7.103	-18.347	1.00	27.35	C
ATOM	2687	O ARG A 480	18.833	-7.284	-19.465	1.00	27.32	O
ATOM	2688	CB ARG A 480	19.578	-8.760	-16.886	1.00	26.96	C
ATOM	2689	CG ARG A 480	19.602	-10.100	-16.125	1.00	26.85	C
ATOM	2690	CD ARG A 480	18.531	-10.307	-15.045	1.00	26.99	C
ATOM	2691	NE ARG A 480	18.764	-9.476	-13.856	1.00	26.84	N
ATOM	2692	CZ ARG A 480	18.156	-9.603	-12.693	1.00	26.92	C
ATOM	2693	NH1 ARG A 480	17.198	-10.467	-12.496	1.00	27.17	N
ATOM	2694	NH2 ARG A 480	18.486	-8.830	-11.706	1.00	26.78	N
ATOM	2695	H ARG A 480	17.893	-10.170	-18.300	1.00	0.00	H
ATOM	2696	HE ARG A 480	19.579	-8.856	-13.866	1.00	0.00	H
ATOM	2697	1HH1 ARG A 480	16.963	-11.096	-13.240	1.00	0.00	H
ATOM	2698	2HH1 ARG A 480	16.833	-10.625	-11.578	1.00	0.00	H
ATOM	2699	1HH2 ARG A 480	19.139	-8.069	-11.927	1.00	0.00	H
ATOM	2700	2HH2 ARG A 480	18.040	-8.887	-10.818	1.00	0.00	H
ATOM	2701	N ASN A 481	18.054	-5.883	-17.907	1.00	39.58	N
ATOM	2702	CA ASN A 481	18.405	-4.664	-18.644	1.00	39.63	C
ATOM	2703	C ASN A 481	19.880	-4.295	-18.407	1.00	39.36	C
ATOM	2704	O ASN A 481	20.185	-3.249	-17.843	1.00	39.37	O
ATOM	2705	CB ASN A 481	17.381	-3.558	-18.338	1.00	39.93	C
ATOM	2706	CG ASN A 481	15.995	-3.900	-18.867	1.00	40.20	C

ATOM	2707	OD1 ASN A 481	15.818	-4.607	-19.851	1.00	40.19	O
ATOM	2708	ND2 ASN A 481	14.959	-3.418	-18.221	1.00	40.44	N
ATOM	2709	H ASN A 481	17.696	-5.791	-16.970	1.00	0.00	H
ATOM	2710	1HD2 ASN A 481	15.089	-2.844	-17.409	1.00	0.00	H
ATOM	2711	2HD2 ASN A 481	14.053	-3.684	-18.562	1.00	0.00	H
ATOM	2712	N ASN A 482	20.765	-5.264	-18.670	1.00	27.02	N
ATOM	2713	CA ASN A 482	22.193	-5.176	-18.399	1.00	26.76	C
ATOM	2714	C ASN A 482	22.821	-4.008	-19.175	1.00	26.76	C
ATOM	2715	O ASN A 482	22.593	-3.875	-20.378	1.00	26.82	O
ATOM	2716	CB ASN A 482	22.844	-6.532	-18.740	1.00	26.54	C
ATOM	2717	CG ASN A 482	24.335	-6.559	-18.440	1.00	26.27	C
ATOM	2718	OD1 ASN A 482	25.143	-5.925	-19.100	1.00	26.24	O
ATOM	2719	ND2 ASN A 482	24.755	-7.296	-17.440	1.00	26.09	N
ATOM	2720	H ASN A 482	20.426	-6.101	-19.126	1.00	0.00	H
ATOM	2721	1HD2 ASN A 482	24.094	-7.747	-16.838	1.00	0.00	H
ATOM	2722	2HD2 ASN A 482	25.715	-7.166	-17.171	1.00	0.00	H
ATOM	2723	N SER A 483	23.633	-3.194	-18.499	1.00	30.82	N
ATOM	2724	CA SER A 483	24.206	-1.961	-19.054	1.00	30.88	C
ATOM	2725	C SER A 483	25.717	-2.041	-19.327	1.00	30.65	C
ATOM	2726	O SER A 483	26.358	-0.996	-19.424	1.00	30.70	O
ATOM	2727	CB SER A 483	23.839	-0.764	-18.164	1.00	31.07	C
ATOM	2728	OG SER A 483	24.672	-0.685	-17.025	1.00	30.95	O
ATOM	2729	H SER A 483	23.784	-3.386	-17.512	1.00	0.00	H
ATOM	2730	HG SER A 483	25.550	-0.433	-17.341	1.00	0.00	H
ATOM	2731	N VAL A 484	26.322	-3.240	-19.298	1.00	26.29	N
ATOM	2732	CA VAL A 484	27.792	-3.401	-19.234	1.00	26.09	C
ATOM	2733	C VAL A 484	28.392	-4.503	-20.120	1.00	25.96	C

ATOM	2734	O	VAL A 484	29.519	-4.331	-20.575	1.00	25.91	O
ATOM	2735	CB	VAL A 484	28.276	-3.578	-17.780	1.00	25.92	C
ATOM	2736	CG1	VAL A 484	27.994	-2.347	-16.913	1.00	26.08	C
ATOM	2737	CG2	VAL A 484	27.683	-4.806	-17.074	1.00	25.72	C
ATOM	2738	H	VAL A 484	25.741	-4.058	-19.142	1.00	0.00	H
ATOM	2739	N	ILE A 485	27.653	-5.558	-20.482	1.00	25.93	N
ATOM	2740	CA	ILE A 485	28.118	-6.590	-21.429	1.00	25.83	C
ATOM	2741	C	ILE A 485	27.390	-6.438	-22.773	1.00	25.99	C
ATOM	2742	O	ILE A 485	26.171	-6.586	-22.852	1.00	26.18	O
ATOM	2743	CB	ILE A 485	27.965	-8.011	-20.837	1.00	25.74	C
ATOM	2744	CG1	ILE A 485	28.742	-8.247	-19.521	1.00	25.55	C
ATOM	2745	CG2	ILE A 485	28.343	-9.100	-21.862	1.00	25.69	C
ATOM	2746	CD1	ILE A 485	30.271	-8.168	-19.617	1.00	25.41	C
ATOM	2747	H	ILE A 485	26.713	-5.645	-20.108	1.00	0.00	H
ATOM	2748	N	SER A 486	28.164	-6.314	-23.855	1.00	25.92	N
ATOM	2749	CA	SER A 486	27.695	-6.274	-25.248	1.00	26.04	C
ATOM	2750	C	SER A 486	28.661	-7.033	-26.160	1.00	25.93	C
ATOM	2751	O	SER A 486	29.875	-6.905	-25.994	1.00	25.79	O
ATOM	2752	CB	SER A 486	27.566	-4.819	-25.715	1.00	26.14	C
ATOM	2753	OG	SER A 486	27.142	-4.757	-27.067	1.00	26.27	O
ATOM	2754	H	SER A 486	29.161	-6.257	-23.708	1.00	0.00	H
ATOM	2755	HG	SER A 486	27.785	-5.220	-27.619	1.00	0.00	H
ATOM	2756	N	ARG A 487	28.136	-7.689	-27.206	1.00	26.00	N
ATOM	2757	CA	ARG A 487	28.914	-8.449	-28.214	1.00	25.93	C
ATOM	2758	C	ARG A 487	29.420	-7.589	-29.396	1.00	25.98	C
ATOM	2759	O	ARG A 487	28.713	-6.634	-29.741	1.00	26.08	O
ATOM	2760	CB	ARG A 487	28.085	-9.670	-28.680	1.00	26.02	C



ATOM	2761	CG	ARG A 487	27.147	-9.478	-29.888	1.00	26.18	C
ATOM	2762	CD	ARG A 487	26.108	-8.354	-29.781	1.00	26.31	C
ATOM	2763	NE	ARG A 487	25.513	-8.047	-31.096	1.00	26.45	N
ATOM	2764	CZ	ARG A 487	25.760	-7.007	-31.872	1.00	26.49	C
ATOM	2765	NH1	ARG A 487	26.658	-6.110	-31.602	1.00	26.40	N
ATOM	2766	NH2	ARG A 487	25.081	-6.808	-32.955	1.00	26.62	N
ATOM	2767	H	ARG A 487	27.124	-7.683	-27.286	1.00	0.00	H
ATOM	2768	HE	ARG A 487	24.695	-8.588	-31.359	1.00	0.00	H
ATOM	2769	1HH1	ARG A 487	27.328	-6.265	-30.861	1.00	0.00	H
ATOM	2770	2HH1	ARG A 487	26.705	-5.297	-32.203	1.00	0.00	H
ATOM	2771	1HH2	ARG A 487	24.466	-7.528	-33.320	1.00	0.00	H
ATOM	2772	2HH2	ARG A 487	25.262	-5.967	-33.487	1.00	0.00	H
ATOM	2773	N	PRO A 488	30.507	-7.957	-30.108	1.00	25.91	N
ATOM	2774	CA	PRO A 488	30.891	-7.349	-31.392	1.00	25.97	C
ATOM	2775	C	PRO A 488	29.763	-7.421	-32.423	1.00	26.10	C
ATOM	2776	O	PRO A 488	29.118	-8.457	-32.562	1.00	26.12	O
ATOM	2777	CB	PRO A 488	32.114	-8.123	-31.904	1.00	25.88	C
ATOM	2778	CG	PRO A 488	32.098	-9.419	-31.100	1.00	25.78	C
ATOM	2779	CD	PRO A 488	31.452	-9.011	-29.778	1.00	25.79	C
ATOM	2780	N	GLY A 489	29.500	-6.314	-33.118	1.00	26.20	N
ATOM	2781	CA	GLY A 489	28.614	-6.288	-34.288	1.00	26.31	C
ATOM	2782	C	GLY A 489	29.406	-6.298	-35.590	1.00	26.32	C
ATOM	2783	O	GLY A 489	30.530	-6.783	-35.617	1.00	26.24	O
ATOM	2784	H	GLY A 489	30.129	-5.528	-32.997	1.00	0.00	H
ATOM	2785	N	GLN A 490	28.922	-5.534	-36.564	1.00	26.42	N
ATOM	2786	CA	GLN A 490	29.726	-4.814	-37.552	1.00	26.44	C
ATOM	2787	C	GLN A 490	29.271	-3.339	-37.549	1.00	26.54	C

ATOM	2788	O	GLN A 490	28.921	-2.813	-36.492	1.00	26.57	O
ATOM	2789	CB	GLN A 490	29.648	-5.525	-38.919	1.00	26.48	C
ATOM	2790	CG	GLN A 490	30.257	-6.936	-38.840	1.00	26.41	C
ATOM	2791	CD	GLN A 490	30.789	-7.450	-40.171	1.00	26.47	C
ATOM	2792	OE1	GLN A 490	30.216	-7.275	-41.233	1.00	26.55	O
ATOM	2793	NE2	GLN A 490	31.918	-8.122	-40.164	1.00	26.45	N
ATOM	2794	H	GLN A 490	27.972	-5.177	-36.465	1.00	0.00	H
ATOM	2795	1HE2	GLN A 490	32.434	-8.213	-39.304	1.00	0.00	H
ATOM	2796	2HE2	GLN A 490	32.272	-8.410	-41.055	1.00	0.00	H
ATOM	2797	N	SER A 491	29.408	-2.608	-38.657	1.00	35.03	N
ATOM	2798	CA	SER A 491	29.243	-1.145	-38.700	1.00	35.13	C
ATOM	2799	C	SER A 491	27.787	-0.633	-38.693	1.00	35.22	C
ATOM	2800	O	SER A 491	27.565	0.519	-39.059	1.00	35.29	O
ATOM	2801	CB	SER A 491	30.008	-0.592	-39.907	1.00	35.18	C
ATOM	2802	OG	SER A 491	29.399	-1.019	-41.111	1.00	35.16	O
ATOM	2803	H	SER A 491	29.699	-3.063	-39.510	1.00	0.00	H
ATOM	2804	HG	SER A 491	28.564	-0.541	-41.192	1.00	0.00	H
ATOM	2805	N	GLN A 492	26.794	-1.485	-38.413	1.00	26.80	N
ATOM	2806	CA	GLN A 492	25.361	-1.137	-38.420	1.00	26.91	C
ATOM	2807	C	GLN A 492	24.715	-1.346	-37.036	1.00	26.93	C
ATOM	2808	O	GLN A 492	24.024	-0.459	-36.542	1.00	27.05	O
ATOM	2809	CB	GLN A 492	24.688	-1.946	-39.546	1.00	26.94	C
ATOM	2810	CG	GLN A 492	23.149	-1.946	-39.565	1.00	27.06	C
ATOM	2811	CD	GLN A 492	22.488	-0.656	-40.040	1.00	27.18	C
ATOM	2812	OE1	GLN A 492	23.092	0.389	-40.211	1.00	27.18	O
ATOM	2813	NE2	GLN A 492	21.204	-0.705	-40.324	1.00	27.28	N
ATOM	2814	H	GLN A 492	27.040	-2.430	-38.149	1.00	0.00	H

ATOM	2815	1HE2	GLN	A 492	20.720	-1.590	-40.282	1.00	0.00	H
ATOM	2816	2HE2	GLN	A 492	20.749	0.175	-40.493	1.00	0.00	H
ATOM	2817	N	CYS	A 493	25.108	-2.403	-36.321	1.00	26.82	N
ATOM	2818	CA	CYS	A 493	24.735	-2.694	-34.934	1.00	26.83	C
ATOM	2819	C	CYS	A 493	25.978	-3.091	-34.091	1.00	26.69	C
ATOM	2820	O	CYS	A 493	26.039	-4.225	-33.597	1.00	26.61	O
ATOM	2821	CB	CYS	A 493	23.617	-3.757	-34.951	1.00	26.88	C
ATOM	2822	SG	CYS	A 493	22.037	-3.172	-35.630	1.00	27.07	S
ATOM	2823	H	CYS	A 493	25.664	-3.112	-36.796	1.00	0.00	H
ATOM	2824	N	PRO	A 494	26.996	-2.210	-33.938	1.00	26.66	N
ATOM	2825	CA	PRO	A 494	28.217	-2.450	-33.145	1.00	26.53	C
ATOM	2826	C	PRO	A 494	27.943	-2.540	-31.629	1.00	26.51	C
ATOM	2827	O	PRO	A 494	26.814	-2.340	-31.185	1.00	26.63	O
ATOM	2828	CB	PRO	A 494	29.138	-1.266	-33.471	1.00	26.57	C
ATOM	2829	CG	PRO	A 494	28.155	-0.132	-33.746	1.00	26.74	C
ATOM	2830	CD	PRO	A 494	27.021	-0.852	-34.469	1.00	26.78	C
ATOM	2831	N	ARG	A 495	28.974	-2.818	-30.809	1.00	29.12	N
ATOM	2832	CA	ARG	A 495	28.834	-2.867	-29.333	1.00	29.08	C
ATOM	2833	C	ARG	A 495	28.155	-1.619	-28.756	1.00	29.24	C
ATOM	2834	O	ARG	A 495	28.538	-0.498	-29.078	1.00	29.36	O
ATOM	2835	CB	ARG	A 495	30.183	-3.090	-28.614	1.00	28.96	C
ATOM	2836	CG	ARG	A 495	30.550	-4.571	-28.566	1.00	28.78	C
ATOM	2837	CD	ARG	A 495	31.876	-4.925	-27.890	1.00	28.67	C
ATOM	2838	NE	ARG	A 495	31.867	-4.848	-26.422	1.00	28.62	N
ATOM	2839	CZ	ARG	A 495	32.892	-4.379	-25.732	1.00	28.53	C
ATOM	2840	NH1	ARG	A 495	33.262	-4.972	-24.637	1.00	28.48	N
ATOM	2841	NH2	ARG	A 495	33.638	-3.397	-26.145	1.00	28.51	N

ATOM	2842	H	ARG A 495	29.881	-2.976	-31.228	1.00	0.00	H
ATOM	2843	HE	ARG A 495	31.346	-5.594	-25.979	1.00	0.00	H
ATOM	2844	1HH1	ARG A 495	32.906	-5.888	-24.439	1.00	0.00	H
ATOM	2845	2HH1	ARG A 495	34.176	-4.727	-24.260	1.00	0.00	H
ATOM	2846	1HH2	ARG A 495	33.468	-3.022	-27.072	1.00	0.00	H
ATOM	2847	2HH2	ARG A 495	34.607	-3.434	-25.861	1.00	0.00	H
ATOM	2848	N	PHE A 496	27.319	-1.858	-27.745	1.00	44.38	N
ATOM	2849	CA	PHE A 496	26.547	-0.867	-26.987	1.00	44.56	C
ATOM	2850	C	PHE A 496	25.545	-0.047	-27.820	1.00	44.76	C
ATOM	2851	O	PHE A 496	25.055	0.979	-27.346	1.00	44.93	O
ATOM	2852	CB	PHE A 496	27.466	-0.017	-26.091	1.00	44.56	C
ATOM	2853	CG	PHE A 496	28.371	-0.830	-25.182	1.00	44.39	C
ATOM	2854	CD1	PHE A 496	27.847	-1.411	-24.013	1.00	44.42	C
ATOM	2855	CD2	PHE A 496	29.730	-1.010	-25.501	1.00	44.21	C
ATOM	2856	CE1	PHE A 496	28.674	-2.178	-23.173	1.00	44.26	C
ATOM	2857	CE2	PHE A 496	30.557	-1.778	-24.660	1.00	44.05	C
ATOM	2858	CZ	PHE A 496	30.027	-2.367	-23.498	1.00	44.06	C
ATOM	2859	H	PHE A 496	27.116	-2.826	-27.543	1.00	0.00	H
ATOM	2860	N	ASN A 497	25.114	-0.550	-28.985	1.00	38.11	N
ATOM	2861	CA	ASN A 497	23.877	-0.066	-29.588	1.00	38.29	C
ATOM	2862	C	ASN A 497	22.645	-0.597	-28.830	1.00	38.39	C
ATOM	2863	O	ASN A 497	22.563	-1.768	-28.462	1.00	38.31	O
ATOM	2864	CB	ASN A 497	23.820	-0.390	-31.088	1.00	38.25	C
ATOM	2865	CG	ASN A 497	22.542	0.156	-31.707	1.00	38.43	C
ATOM	2866	OD1	ASN A 497	22.216	1.324	-31.545	1.00	38.55	O
ATOM	2867	ND2	ASN A 497	21.611	-0.706	-32.031	1.00	38.45	N
ATOM	2868	H	ASN A 497	25.459	-1.454	-29.283	1.00	0.00	H

ATOM	2869	1HD2 ASN A 497	21.680	-1.666	-31.722	1.00	0.00	H
ATOM	2870	2HD2 ASN A 497	20.714	-0.331	-32.321	1.00	0.00	H
ATOM	2871	N VAL A 498	21.638	0.266	-28.710	1.00	52.36	N
ATOM	2872	CA VAL A 498	20.312	-0.046	-28.146	1.00	52.51	C
ATOM	2873	C VAL A 498	19.185	0.477	-29.056	1.00	52.68	C
ATOM	2874	O VAL A 498	18.021	0.120	-28.886	1.00	52.79	O
ATOM	2875	CB VAL A 498	20.211	0.502	-26.699	1.00	52.65	C
ATOM	2876	CG1 VAL A 498	18.941	0.051	-25.964	1.00	52.78	C
ATOM	2877	CG2 VAL A 498	21.400	0.070	-25.822	1.00	52.48	C
ATOM	2878	H VAL A 498	21.803	1.201	-29.052	1.00	0.00	H
ATOM	2879	N CYS A 499	19.512	1.294	-30.065	1.00	27.71	N
ATOM	2880	CA CYS A 499	18.532	1.829	-31.003	1.00	27.88	C
ATOM	2881	C CYS A 499	18.097	0.776	-32.033	1.00	27.79	C
ATOM	2882	O CYS A 499	18.969	0.156	-32.644	1.00	27.61	O
ATOM	2883	CB CYS A 499	19.099	3.074	-31.687	1.00	27.92	C
ATOM	2884	SG CYS A 499	19.005	4.528	-30.615	1.00	28.18	S
ATOM	2885	H CYS A 499	20.487	1.419	-30.299	1.00	0.00	H
ATOM	2886	N PRO A 500	16.788	0.623	-32.316	1.00	27.95	N
ATOM	2887	CA PRO A 500	16.325	-0.359	-33.287	1.00	27.92	C
ATOM	2888	C PRO A 500	16.806	-0.068	-34.707	1.00	27.81	C
ATOM	2889	O PRO A 500	16.348	0.886	-35.331	1.00	27.87	O
ATOM	2890	CB PRO A 500	14.800	-0.382	-33.182	1.00	28.16	C
ATOM	2891	CG PRO A 500	14.533	0.135	-31.772	1.00	28.30	C
ATOM	2892	CD PRO A 500	15.657	1.141	-31.557	1.00	28.19	C
ATOM	2893	N GLU A 501	17.544	-1.007	-35.296	1.00	27.67	N
ATOM	2894	CA GLU A 501	18.062	-0.888	-36.660	1.00	27.58	C
ATOM	2895	C GLU A 501	17.939	-2.165	-37.486	1.00	27.53	C

ATOM	2896	O	GLU A 501	17.790	-3.278	-36.972	1.00	27.52	O
ATOM	2897	CB	GLU A 501	19.510	-0.356	-36.671	1.00	27.41	C
ATOM	2898	CG	GLU A 501	19.604	1.177	-36.589	1.00	27.44	C
ATOM	2899	CD	GLU A 501	18.743	1.918	-37.632	1.00	27.59	C
ATOM	2900	OE1	GLU A 501	18.409	1.311	-38.683	1.00	27.60	O
ATOM	2901	OE2	GLU A 501	18.120	2.926	-37.223	1.00	27.70	O
ATOM	2902	H	GLU A 501	17.859	-1.792	-34.746	1.00	0.00	H
ATOM	2903	N	VAL A 502	17.913	-1.979	-38.807	1.00	27.52	N
ATOM	2904	CA	VAL A 502	17.830	-3.079	-39.772	1.00	27.49	C
ATOM	2905	C	VAL A 502	19.177	-3.800	-39.834	1.00	27.33	C
ATOM	2906	O	VAL A 502	20.052	-3.424	-40.611	1.00	27.25	O
ATOM	2907	CB	VAL A 502	17.370	-2.587	-41.160	1.00	27.53	C
ATOM	2908	CG1	VAL A 502	17.185	-3.761	-42.131	1.00	27.50	C
ATOM	2909	CG2	VAL A 502	16.025	-1.855	-41.072	1.00	27.70	C
ATOM	2910	H	VAL A 502	18.055	-1.030	-39.147	1.00	0.00	H
ATOM	2911	N	CYS A 503	19.344	-4.827	-39.003	1.00	28.33	N
ATOM	2912	CA	CYS A 503	20.543	-5.663	-38.948	1.00	28.19	C
ATOM	2913	C	CYS A 503	20.222	-7.121	-38.583	1.00	28.20	C
ATOM	2914	O	CYS A 503	19.201	-7.409	-37.947	1.00	28.29	O
ATOM	2915	CB	CYS A 503	21.556	-5.042	-37.975	1.00	28.09	C
ATOM	2916	SG	CYS A 503	21.033	-4.838	-36.251	1.00	28.16	S
ATOM	2917	H	CYS A 503	18.661	-4.951	-38.268	1.00	0.00	H
ATOM	2918	N	TRP A 504	21.155	-8.009	-38.939	1.00	28.10	N
ATOM	2919	CA	TRP A 504	21.322	-9.360	-38.399	1.00	28.10	C
ATOM	2920	C	TRP A 504	22.824	-9.643	-38.282	1.00	27.95	C
ATOM	2921	O	TRP A 504	23.486	-9.941	-39.273	1.00	27.94	O
ATOM	2922	CB	TRP A 504	20.620	-10.421	-39.259	1.00	28.23	C

ATOM	2923	CG	TRP A 504	20.896	-11.841	-38.839	1.00	28.24	C
ATOM	2924	CD1	TRP A 504	20.707	-12.337	-37.594	1.00	28.21	C
ATOM	2925	CD2	TRP A 504	21.484	-12.940	-39.605	1.00	28.31	C
ATOM	2926	NE1	TRP A 504	21.059	-13.669	-37.555	1.00	28.25	N
ATOM	2927	CE2	TRP A 504	21.547	-14.098	-38.770	1.00	28.32	C
ATOM	2928	CE3	TRP A 504	21.986	-13.083	-40.920	1.00	28.36	C
ATOM	2929	CZ2	TRP A 504	22.038	-15.331	-39.215	1.00	28.41	C
ATOM	2930	CZ3	TRP A 504	22.491	-14.317	-41.377	1.00	28.45	C
ATOM	2931	CH2	TRP A 504	22.510	-15.443	-40.534	1.00	28.48	C
ATOM	2932	H	TRP A 504	21.952	-7.655	-39.451	1.00	0.00	H
ATOM	2933	HE1	TRP A 504	21.002	-14.237	-36.723	1.00	0.00	H
ATOM	2934	N	GLU A 505	23.391	-9.299	-37.128	1.00	44.40	N
ATOM	2935	CA	GLU A 505	24.831	-9.325	-36.870	1.00	44.26	C
ATOM	2936	C	GLU A 505	25.118	-9.435	-35.368	1.00	44.18	C
ATOM	2937	O	GLU A 505	24.330	-9.000	-34.521	1.00	44.22	O
ATOM	2938	CB	GLU A 505	25.526	-8.089	-37.475	1.00	44.21	C
ATOM	2939	CG	GLU A 505	25.227	-6.777	-36.737	1.00	44.24	C
ATOM	2940	CD	GLU A 505	25.537	-5.563	-37.617	1.00	44.26	C
ATOM	2941	OE1	GLU A 505	24.724	-5.305	-38.527	1.00	44.24	O
ATOM	2942	OE2	GLU A 505	26.351	-4.724	-37.166	1.00	44.33	O
ATOM	2943	H	GLU A 505	22.786	-9.091	-36.343	1.00	0.00	H
ATOM	2944	N	GLY A 506	26.263	-10.021	-35.038	1.00	26.50	N
ATOM	2945	CA	GLY A 506	26.666	-10.348	-33.676	1.00	26.39	C
ATOM	2946	C	GLY A 506	27.616	-11.544	-33.668	1.00	26.34	C
ATOM	2947	O	GLY A 506	27.719	-12.250	-34.673	1.00	26.39	O
ATOM	2948	H	GLY A 506	26.848	-10.393	-35.774	1.00	0.00	H
ATOM	2949	N	THR A 507	28.075	-11.935	-32.479	1.00	26.24	N

ATOM	2950	CA	THR A 507	28.517	-13.313	-32.223	1.00	26.20	C
ATOM	2951	C	THR A 507	27.970	-13.847	-30.899	1.00	26.19	C
ATOM	2952	O	THR A 507	27.530	-13.095	-30.024	1.00	26.16	O
ATOM	2953	CB	THR A 507	30.037	-13.532	-32.335	1.00	26.05	C
ATOM	2954	OG1	THR A 507	30.704	-13.230	-31.139	1.00	25.91	O
ATOM	2955	CG2	THR A 507	30.745	-12.780	-33.459	1.00	26.09	C
ATOM	2956	H	THR A 507	27.949	-11.332	-31.682	1.00	0.00	H
ATOM	2957	HG1	THR A 507	31.515	-13.770	-31.176	1.00	0.00	H
ATOM	2958	N	TYR A 508	27.905	-15.172	-30.779	1.00	26.23	N
ATOM	2959	CA	TYR A 508	27.410	-15.864	-29.592	1.00	26.23	C
ATOM	2960	C	TYR A 508	28.416	-15.743	-28.427	1.00	26.02	C
ATOM	2961	O	TYR A 508	29.510	-16.304	-28.492	1.00	25.93	O
ATOM	2962	CB	TYR A 508	27.116	-17.312	-30.014	1.00	26.38	C
ATOM	2963	CG	TYR A 508	26.492	-18.197	-28.958	1.00	26.39	C
ATOM	2964	CD1	TYR A 508	25.155	-18.618	-29.069	1.00	26.60	C
ATOM	2965	CD2	TYR A 508	27.265	-18.636	-27.876	1.00	26.22	C
ATOM	2966	CE1	TYR A 508	24.593	-19.475	-28.099	1.00	26.63	C
ATOM	2967	CE2	TYR A 508	26.712	-19.482	-26.905	1.00	26.23	C
ATOM	2968	CZ	TYR A 508	25.368	-19.888	-26.995	1.00	26.44	C
ATOM	2969	OH	TYR A 508	24.827	-20.648	-26.015	1.00	26.46	O
ATOM	2970	H	TYR A 508	28.273	-15.733	-31.531	1.00	0.00	H
ATOM	2971	HH	TYR A 508	25.380	-20.613	-25.198	1.00	0.00	H
ATOM	2972	N	ASN A 509	28.004	-15.100	-27.329	1.00	25.97	N
ATOM	2973	CA	ASN A 509	28.809	-14.855	-26.125	1.00	25.77	C
ATOM	2974	C	ASN A 509	27.963	-15.148	-24.871	1.00	25.80	C
ATOM	2975	O	ASN A 509	27.151	-14.301	-24.498	1.00	25.82	O
ATOM	2976	CB	ASN A 509	29.293	-13.388	-26.115	1.00	25.64	C



ATOM	2977	CG	ASN A 509	30.307	-13.048	-27.188	1.00	25.59	C
ATOM	2978	OD1	ASN A 509	31.470	-12.831	-26.910	1.00	25.46	O
ATOM	2979	ND2	ASN A 509	29.876	-12.792	-28.398	1.00	25.70	N
ATOM	2980	H	ASN A 509	27.062	-14.731	-27.309	1.00	0.00	H
ATOM	2981	1HD2	ASN A 509	28.911	-12.939	-28.649	1.00	0.00	H
ATOM	2982	2HD2	ASN A 509	30.567	-12.678	-29.127	1.00	0.00	H
ATOM	2983	N	ASP A 510	28.012	-16.376	-24.333	1.00	25.84	N
ATOM	2984	CA	ASP A 510	27.130	-16.788	-23.223	1.00	25.87	C
ATOM	2985	C	ASP A 510	27.815	-16.835	-21.844	1.00	25.65	C
ATOM	2986	O	ASP A 510	29.041	-16.904	-21.710	1.00	25.46	O
ATOM	2987	CB	ASP A 510	26.279	-18.029	-23.576	1.00	26.03	C
ATOM	2988	CG	ASP A 510	26.884	-19.413	-23.320	1.00	25.92	C
ATOM	2989	OD1	ASP A 510	27.427	-19.634	-22.221	1.00	25.71	O
ATOM	2990	OD2	ASP A 510	26.378	-20.368	-23.947	1.00	26.06	O
ATOM	2991	H	ASP A 510	28.786	-16.979	-24.581	1.00	0.00	H
ATOM	2992	N	ALA A 511	26.976	-16.691	-20.817	1.00	25.68	N
ATOM	2993	CA	ALA A 511	27.347	-16.546	-19.416	1.00	25.49	C
ATOM	2994	C	ALA A 511	26.333	-17.265	-18.512	1.00	25.56	C
ATOM	2995	O	ALA A 511	25.180	-17.486	-18.898	1.00	25.77	O
ATOM	2996	CB	ALA A 511	27.440	-15.049	-19.091	1.00	25.47	C
ATOM	2997	H	ALA A 511	25.987	-16.711	-21.012	1.00	0.00	H
ATOM	2998	N	PHE A 512	26.745	-17.555	-17.280	1.00	25.40	N
ATOM	2999	CA	PHE A 512	26.056	-18.434	-16.338	1.00	25.44	C
ATOM	3000	C	PHE A 512	25.835	-17.743	-14.986	1.00	25.38	C
ATOM	3001	O	PHE A 512	26.763	-17.145	-14.444	1.00	25.18	O
ATOM	3002	CB	PHE A 512	26.902	-19.701	-16.195	1.00	25.28	C
ATOM	3003	CG	PHE A 512	26.203	-20.909	-15.605	1.00	25.41	C

ATOM	3004	CD1 PHE A 512	25.847	-21.983	-16.442	1.00	25.60	C
ATOM	3005	CD2 PHE A 512	25.968	-20.999	-14.220	1.00	25.36	C
ATOM	3006	CE1 PHE A 512	25.321	-23.166	-15.894	1.00	25.75	C
ATOM	3007	CE2 PHE A 512	25.403	-22.166	-13.677	1.00	25.50	C
ATOM	3008	CZ PHE A 512	25.095	-23.255	-14.510	1.00	25.71	C
ATOM	3009	H PHE A 512	27.704	-17.317	-17.048	1.00	0.00	H
ATOM	3010	N LEU A 513	24.639	-17.861	-14.404	1.00	25.57	N
ATOM	3011	CA LEU A 513	24.291	-17.278	-13.103	1.00	25.55	C
ATOM	3012	C LEU A 513	24.958	-18.041	-11.939	1.00	25.33	C
ATOM	3013	O LEU A 513	24.559	-19.159	-11.616	1.00	25.37	O
ATOM	3014	CB LEU A 513	22.757	-17.266	-13.002	1.00	25.85	C
ATOM	3015	CG LEU A 513	22.193	-16.566	-11.754	1.00	25.88	C
ATOM	3016	CD1 LEU A 513	22.444	-15.063	-11.800	1.00	25.85	C
ATOM	3017	CD2 LEU A 513	20.685	-16.796	-11.695	1.00	26.20	C
ATOM	3018	H LEU A 513	23.916	-18.369	-14.889	1.00	0.00	H
ATOM	3019	N ILE A 514	25.961	-17.432	-11.296	1.00	25.10	N
ATOM	3020	CA ILE A 514	26.731	-18.035	-10.188	1.00	24.87	C
ATOM	3021	C ILE A 514	26.261	-17.607	-8.787	1.00	24.86	C
ATOM	3022	O ILE A 514	26.547	-18.307	-7.819	1.00	24.69	O
ATOM	3023	CB ILE A 514	28.249	-17.820	-10.372	1.00	24.59	C
ATOM	3024	CG1 ILE A 514	28.657	-16.331	-10.332	1.00	24.54	C
ATOM	3025	CG2 ILE A 514	28.746	-18.514	-11.653	1.00	24.63	C
ATOM	3026	CD1 ILE A 514	30.156	-16.137	-10.082	1.00	24.27	C
ATOM	3027	H ILE A 514	26.187	-16.482	-11.564	1.00	0.00	H
ATOM	3028	N ASP A 515	25.427	-16.568	-8.688	1.00	25.05	N
ATOM	3029	CA ASP A 515	24.532	-16.325	-7.549	1.00	25.09	C
ATOM	3030	C ASP A 515	23.263	-15.601	-8.019	1.00	25.41	C

ATOM	3031	O	ASP A 515	23.348	-14.541	-8.635	1.00	25.46	O
ATOM	3032	CB	ASP A 515	25.229	-15.516	-6.443	1.00	24.84	C
ATOM	3033	CG	ASP A 515	24.283	-15.203	-5.274	1.00	24.86	C
ATOM	3034	OD1	ASP A 515	24.347	-14.050	-4.794	1.00	24.79	O
ATOM	3035	OD2	ASP A 515	23.290	-15.943	-5.090	1.00	24.97	O
ATOM	3036	H	ASP A 515	25.279	-16.001	-9.516	1.00	0.00	H
ATOM	3037	N	ARG A 516	22.081	-16.113	-7.654	1.00	25.65	N
ATOM	3038	CA	ARG A 516	20.793	-15.452	-7.915	1.00	25.98	C
ATOM	3039	C	ARG A 516	20.472	-14.332	-6.919	1.00	26.04	C
ATOM	3040	O	ARG A 516	19.787	-13.388	-7.299	1.00	26.23	O
ATOM	3041	CB	ARG A 516	19.680	-16.514	-7.971	1.00	26.22	C
ATOM	3042	CG	ARG A 516	18.327	-15.915	-8.402	1.00	26.59	C
ATOM	3043	CD	ARG A 516	17.270	-16.975	-8.732	1.00	26.83	C
ATOM	3044	NE	ARG A 516	17.539	-17.627	-10.024	1.00	26.90	N
ATOM	3045	CZ	ARG A 516	18.023	-18.831	-10.255	1.00	26.75	C
ATOM	3046	NH1	ARG A 516	18.361	-19.655	-9.309	1.00	26.51	N
ATOM	3047	NH2	ARG A 516	18.138	-19.257	-11.471	1.00	26.85	N
ATOM	3048	H	ARG A 516	22.112	-16.879	-6.994	1.00	0.00	H
ATOM	3049	HE	ARG A 516	17.274	-17.097	-10.861	1.00	0.00	H
ATOM	3050	1HH1	ARG A 516	18.183	-19.434	-8.351	1.00	0.00	H
ATOM	3051	2HH1	ARG A 516	18.696	-20.572	-9.578	1.00	0.00	H
ATOM	3052	1HH2	ARG A 516	17.728	-18.651	-12.190	1.00	0.00	H
ATOM	3053	2HH2	ARG A 516	18.273	-20.242	-11.664	1.00	0.00	H
ATOM	3054	N	LEU A 517	20.974	-14.388	-5.683	1.00	48.11	N
ATOM	3055	CA	LEU A 517	20.622	-13.433	-4.622	1.00	48.15	C
ATOM	3056	C	LEU A 517	21.212	-12.036	-4.872	1.00	48.13	C
ATOM	3057	O	LEU A 517	20.497	-11.042	-4.797	1.00	48.35	O

ATOM	3058	CB	LEU A 517	21.071	-13.986	-3.256	1.00	47.91	C
ATOM	3059	CG	LEU A 517	20.491	-15.365	-2.884	1.00	48.03	C
ATOM	3060	CD1	LEU A 517	21.051	-15.811	-1.532	1.00	47.84	C
ATOM	3061	CD2	LEU A 517	18.963	-15.344	-2.779	1.00	48.44	C
ATOM	3062	H	LEU A 517	21.657	-15.113	-5.465	1.00	0.00	H
ATOM	3063	N	ASN A 518	22.463	-11.975	-5.331	1.00	51.68	N
ATOM	3064	CA	ASN A 518	23.101	-10.761	-5.855	1.00	51.67	C
ATOM	3065	C	ASN A 518	22.906	-10.579	-7.379	1.00	51.69	C
ATOM	3066	O	ASN A 518	23.472	-9.645	-7.946	1.00	51.58	O
ATOM	3067	CB	ASN A 518	24.593	-10.786	-5.468	1.00	51.37	C
ATOM	3068	CG	ASN A 518	24.816	-10.698	-3.971	1.00	51.27	C
ATOM	3069	OD1	ASN A 518	25.105	-9.644	-3.434	1.00	51.49	O
ATOM	3070	ND2	ASN A 518	24.794	-11.802	-3.267	1.00	50.94	N
ATOM	3071	H	ASN A 518	23.014	-12.832	-5.309	1.00	0.00	H
ATOM	3072	1HD2	ASN A 518	24.602	-12.690	-3.739	1.00	0.00	H
ATOM	3073	2HD2	ASN A 518	24.938	-11.733	-2.282	1.00	0.00	H
ATOM	3074	N	TRP A 519	22.248	-11.541	-8.040	1.00	25.85	N
ATOM	3075	CA	TRP A 519	22.129	-11.727	-9.497	1.00	25.89	C
ATOM	3076	C	TRP A 519	23.455	-11.548	-10.268	1.00	25.65	C
ATOM	3077	O	TRP A 519	23.581	-10.745	-11.195	1.00	25.72	O
ATOM	3078	CB	TRP A 519	20.889	-11.013	-10.071	1.00	26.21	C
ATOM	3079	CG	TRP A 519	20.049	-11.914	-10.935	1.00	26.35	C
ATOM	3080	CD1	TRP A 519	18.989	-12.637	-10.500	1.00	26.48	C
ATOM	3081	CD2	TRP A 519	20.267	-12.337	-12.320	1.00	26.37	C
ATOM	3082	NE1	TRP A 519	18.524	-13.452	-11.516	1.00	26.59	N
ATOM	3083	CE2	TRP A 519	19.303	-13.340	-12.645	1.00	26.52	C
ATOM	3084	CE3	TRP A 519	21.202	-12.009	-13.328	1.00	26.28	C

ATOM	3085	CZ2 TRP A 519	19.284	-14.005	-13.878	1.00	26.60	C
ATOM	3086	CZ3 TRP A 519	21.202	-12.680	-14.568	1.00	26.34	C
ATOM	3087	CH2 TRP A 519	20.251	-13.681	-14.844	1.00	26.50	C
ATOM	3088	H TRP A 519	21.792	-12.237	-7.469	1.00	0.00	H
ATOM	3089	HE1 TRP A 519	17.759	-14.133	-11.416	1.00	0.00	H
ATOM	3090	N VAL A 520	24.496	-12.241	-9.793	1.00	25.37	N
ATOM	3091	CA VAL A 520	25.847	-12.242	-10.370	1.00	25.14	C
ATOM	3092	C VAL A 520	26.014	-13.417	-11.335	1.00	25.13	C
ATOM	3093	O VAL A 520	25.909	-14.580	-10.944	1.00	25.15	O
ATOM	3094	CB VAL A 520	26.925	-12.256	-9.269	1.00	24.85	C
ATOM	3095	CG1 VAL A 520	28.345	-12.373	-9.836	1.00	24.63	C
ATOM	3096	CG2 VAL A 520	26.877	-10.958	-8.453	1.00	24.87	C
ATOM	3097	H VAL A 520	24.279	-12.953	-9.103	1.00	0.00	H
ATOM	3098	N SER A 521	26.391	-13.112	-12.574	1.00	25.13	N
ATOM	3099	CA SER A 521	26.748	-14.075	-13.622	1.00	25.14	C
ATOM	3100	C SER A 521	28.250	-14.068	-13.936	1.00	24.91	C
ATOM	3101	O SER A 521	28.964	-13.116	-13.618	1.00	24.76	O
ATOM	3102	CB SER A 521	25.935	-13.795	-14.889	1.00	25.37	C
ATOM	3103	OG SER A 521	24.554	-13.974	-14.634	1.00	25.58	O
ATOM	3104	H SER A 521	26.569	-12.133	-12.774	1.00	0.00	H
ATOM	3105	HG SER A 521	24.279	-13.346	-13.956	1.00	0.00	H
ATOM	3106	N ALA A 522	28.724	-15.114	-14.614	1.00	24.89	N
ATOM	3107	CA ALA A 522	30.107	-15.283	-15.054	1.00	24.73	C
ATOM	3108	C ALA A 522	30.175	-15.861	-16.477	1.00	24.83	C
ATOM	3109	O ALA A 522	29.405	-16.760	-16.813	1.00	25.01	O
ATOM	3110	CB ALA A 522	30.824	-16.187	-14.049	1.00	24.46	C
ATOM	3111	H ALA A 522	28.091	-15.888	-14.793	1.00	0.00	H

ATOM	3112	N	GLY A 523	31.096	-15.380	-17.312	1.00	24.74	N
ATOM	3113	CA	GLY A 523	31.263	-15.879	-18.680	1.00	24.82	C
ATOM	3114	C	GLY A 523	32.318	-15.132	-19.487	1.00	24.76	C
ATOM	3115	O	GLY A 523	32.798	-14.077	-19.073	1.00	24.65	O
ATOM	3116	H	GLY A 523	31.707	-14.629	-17.000	1.00	0.00	H
ATOM	3117	N	VAL A 524	32.692	-15.693	-20.637	1.00	24.84	N
ATOM	3118	CA	VAL A 524	33.604	-15.043	-21.592	1.00	24.80	C
ATOM	3119	C	VAL A 524	32.809	-14.192	-22.578	1.00	24.97	C
ATOM	3120	O	VAL A 524	31.868	-14.695	-23.200	1.00	25.12	O
ATOM	3121	CB	VAL A 524	34.511	-16.048	-22.327	1.00	24.77	C
ATOM	3122	CG1	VAL A 524	35.590	-15.364	-23.183	1.00	24.84	C
ATOM	3123	CG2	VAL A 524	35.238	-16.966	-21.347	1.00	24.56	C
ATOM	3124	H	VAL A 524	32.219	-16.537	-20.929	1.00	0.00	H
ATOM	3125	N	TYR A 525	33.285	-12.973	-22.831	1.00	24.94	N
ATOM	3126	CA	TYR A 525	32.801	-12.090	-23.891	1.00	25.10	C
ATOM	3127	C	TYR A 525	33.961	-11.477	-24.683	1.00	25.08	C
ATOM	3128	O	TYR A 525	35.053	-11.266	-24.155	1.00	24.95	O
ATOM	3129	CB	TYR A 525	31.830	-11.023	-23.342	1.00	25.14	C
ATOM	3130	CG	TYR A 525	32.426	-9.796	-22.653	1.00	25.07	C
ATOM	3131	CD1	TYR A 525	32.019	-8.500	-23.042	1.00	25.21	C
ATOM	3132	CD2	TYR A 525	33.328	-9.940	-21.579	1.00	24.90	C
ATOM	3133	CE1	TYR A 525	32.497	-7.366	-22.349	1.00	25.19	C
ATOM	3134	CE2	TYR A 525	33.848	-8.809	-20.923	1.00	24.87	C
ATOM	3135	CZ	TYR A 525	33.426	-7.519	-21.299	1.00	25.02	C
ATOM	3136	OH	TYR A 525	33.890	-6.429	-20.636	1.00	25.02	O
ATOM	3137	H	TYR A 525	34.122	-12.672	-22.337	1.00	0.00	H
ATOM	3138	HH	TYR A 525	34.391	-6.685	-19.843	1.00	0.00	H

ATOM	3139	N	LEU A 526	33.725	-11.244	-25.972	1.00	25.23	N
ATOM	3140	CA	LEU A 526	34.641	-10.527	-26.855	1.00	25.24	C
ATOM	3141	C	LEU A 526	34.562	-9.017	-26.599	1.00	25.29	C
ATOM	3142	O	LEU A 526	33.475	-8.427	-26.583	1.00	25.42	O
ATOM	3143	CB	LEU A 526	34.310	-10.854	-28.317	1.00	25.38	C
ATOM	3144	CG	LEU A 526	34.385	-12.346	-28.675	1.00	25.42	C
ATOM	3145	CD1	LEU A 526	33.882	-12.540	-30.102	1.00	25.52	C
ATOM	3146	CD2	LEU A 526	35.795	-12.909	-28.552	1.00	25.28	C
ATOM	3147	H	LEU A 526	32.838	-11.545	-26.358	1.00	0.00	H
ATOM	3148	N	ASN A 527	35.718	-8.384	-26.423	1.00	25.20	N
ATOM	3149	CA	ASN A 527	35.811	-6.960	-26.107	1.00	25.28	C
ATOM	3150	C	ASN A 527	35.888	-6.051	-27.351	1.00	25.40	C
ATOM	3151	O	ASN A 527	35.729	-4.837	-27.228	1.00	25.38	O
ATOM	3152	CB	ASN A 527	37.015	-6.773	-25.184	1.00	25.17	C
ATOM	3153	CG	ASN A 527	37.027	-5.506	-24.359	1.00	25.29	C
ATOM	3154	OD1	ASN A 527	36.033	-4.807	-24.178	1.00	25.45	O
ATOM	3155	ND2	ASN A 527	38.176	-5.208	-23.802	1.00	25.21	N
ATOM	3156	H	ASN A 527	36.569	-8.943	-26.392	1.00	0.00	H
ATOM	3157	1HD2	ASN A 527	38.968	-5.823	-23.975	1.00	0.00	H
ATOM	3158	2HD2	ASN A 527	38.264	-4.352	-23.293	1.00	0.00	H
ATOM	3159	N	SER A 528	36.090	-6.606	-28.548	1.00	25.52	N
ATOM	3160	CA	SER A 528	36.056	-5.843	-29.803	1.00	25.64	C
ATOM	3161	C	SER A 528	34.652	-5.349	-30.168	1.00	25.78	C
ATOM	3162	O	SER A 528	33.654	-6.021	-29.921	1.00	25.78	O
ATOM	3163	CB	SER A 528	36.611	-6.699	-30.928	1.00	25.61	C
ATOM	3164	OG	SER A 528	36.540	-6.004	-32.156	1.00	25.74	O
ATOM	3165	H	SER A 528	36.260	-7.605	-28.598	1.00	0.00	H

ATOM	3166	HG	SER A 528	37.181	-6.512	-32.724	1.00	0.00	H
ATOM	3167	N	ASN A 529	34.546	-4.165	-30.783	1.00	25.91	N
ATOM	3168	CA	ASN A 529	33.255	-3.555	-31.131	1.00	26.06	C
ATOM	3169	C	ASN A 529	32.624	-4.069	-32.441	1.00	26.09	C
ATOM	3170	O	ASN A 529	31.402	-3.958	-32.584	1.00	26.15	O
ATOM	3171	CB	ASN A 529	33.392	-2.019	-31.126	1.00	26.20	C
ATOM	3172	CG	ASN A 529	33.468	-1.402	-29.734	1.00	26.29	C
ATOM	3173	OD1	ASN A 529	33.467	-2.061	-28.706	1.00	26.21	O
ATOM	3174	ND2	ASN A 529	33.310	-0.103	-29.648	1.00	26.46	N
ATOM	3175	H	ASN A 529	35.405	-3.686	-31.008	1.00	0.00	H
ATOM	3176	1HD2	ASN A 529	33.211	0.461	-30.472	1.00	0.00	H
ATOM	3177	2HD2	ASN A 529	33.266	0.283	-28.721	1.00	0.00	H
ATOM	3178	N	GLN A 530	33.425	-4.572	-33.390	1.00	26.08	N
ATOM	3179	CA	GLN A 530	33.011	-4.841	-34.785	1.00	26.12	C
ATOM	3180	C	GLN A 530	33.590	-6.134	-35.397	1.00	26.05	C
ATOM	3181	O	GLN A 530	33.304	-6.448	-36.555	1.00	26.11	O
ATOM	3182	CB	GLN A 530	33.422	-3.654	-35.676	1.00	26.24	C
ATOM	3183	CG	GLN A 530	32.649	-2.357	-35.396	1.00	26.35	C
ATOM	3184	CD	GLN A 530	32.961	-1.259	-36.412	1.00	26.46	C
ATOM	3185	OE1	GLN A 530	32.090	-0.560	-36.897	1.00	26.52	O
ATOM	3186	NE2	GLN A 530	34.198	-1.089	-36.828	1.00	26.49	N
ATOM	3187	H	GLN A 530	34.408	-4.677	-33.168	1.00	0.00	H
ATOM	3188	1HE2	GLN A 530	34.936	-1.695	-36.513	1.00	0.00	H
ATOM	3189	2HE2	GLN A 530	34.333	-0.395	-37.540	1.00	0.00	H
ATOM	3190	N	THR A 531	34.497	-6.803	-34.690	1.00	36.53	N
ATOM	3191	CA	THR A 531	35.325	-7.900	-35.208	1.00	36.48	C
ATOM	3192	C	THR A 531	35.672	-8.890	-34.083	1.00	36.37	C



ATOM	3193	O	THR A 531	35.068	-8.845	-33.010	1.00	36.28	O
ATOM	3194	CB	THR A 531	36.576	-7.358	-35.940	1.00	36.50	C
ATOM	3195	OG1	THR A 531	37.125	-6.235	-35.296	1.00	36.47	O
ATOM	3196	CG2	THR A 531	36.315	-6.944	-37.386	1.00	36.63	C
ATOM	3197	H	THR A 531	34.739	-6.488	-33.762	1.00	0.00	H
ATOM	3198	HG1	THR A 531	37.873	-6.609	-34.778	1.00	0.00	H
ATOM	3199	N	ALA A 532	36.316	-9.995	-34.460	1.00	25.79	N
ATOM	3200	CA	ALA A 532	36.389	-11.229	-33.680	1.00	25.70	C
ATOM	3201	C	ALA A 532	37.644	-11.292	-32.784	1.00	25.59	C
ATOM	3202	O	ALA A 532	38.484	-12.167	-32.978	1.00	25.61	O
ATOM	3203	CB	ALA A 532	36.271	-12.399	-34.674	1.00	25.80	C
ATOM	3204	H	ALA A 532	36.841	-9.969	-35.319	1.00	0.00	H
ATOM	3205	N	GLU A 533	37.823	-10.332	-31.868	1.00	25.49	N
ATOM	3206	CA	GLU A 533	39.034	-10.212	-31.031	1.00	25.38	C
ATOM	3207	C	GLU A 533	38.749	-10.050	-29.522	1.00	25.24	C
ATOM	3208	O	GLU A 533	37.687	-9.559	-29.118	1.00	25.25	O
ATOM	3209	CB	GLU A 533	39.954	-9.064	-31.506	1.00	25.43	C
ATOM	3210	CG	GLU A 533	40.225	-8.983	-33.021	1.00	25.56	C
ATOM	3211	CD	GLU A 533	39.280	-8.040	-33.783	1.00	25.58	C
ATOM	3212	OE1	GLU A 533	39.478	-7.827	-34.996	1.00	25.70	O
ATOM	3213	OE2	GLU A 533	38.242	-7.589	-33.243	1.00	25.50	O
ATOM	3214	H	GLU A 533	37.152	-9.578	-31.829	1.00	0.00	H
ATOM	3215	N	ASN A 534	39.808	-10.259	-28.724	1.00	25.12	N
ATOM	3216	CA	ASN A 534	39.939	-9.916	-27.298	1.00	24.99	C
ATOM	3217	C	ASN A 534	38.999	-10.724	-26.362	1.00	24.90	C
ATOM	3218	O	ASN A 534	37.965	-10.212	-25.916	1.00	24.87	O
ATOM	3219	CB	ASN A 534	39.848	-8.384	-27.157	1.00	25.07	C

ATOM	3220	CG	ASN A 534	40.426	-7.858	-25.851	1.00	24.96	C
ATOM	3221	OD1	ASN A 534	39.806	-7.889	-24.800	1.00	24.83	O
ATOM	3222	ND2	ASN A 534	41.492	-7.110	-25.944	1.00	25.03	N
ATOM	3223	H	ASN A 534	40.632	-10.655	-29.167	1.00	0.00	H
ATOM	3224	1HD2	ASN A 534	42.014	-7.151	-26.814	1.00	0.00	H
ATOM	3225	2HD2	ASN A 534	42.019	-6.945	-25.079	1.00	0.00	H
ATOM	3226	N	PRO A 535	39.288	-12.022	-26.119	1.00	24.87	N
ATOM	3227	CA	PRO A 535	38.470	-12.911	-25.288	1.00	24.80	C
ATOM	3228	C	PRO A 535	38.708	-12.694	-23.780	1.00	24.63	C
ATOM	3229	O	PRO A 535	39.639	-13.249	-23.187	1.00	24.51	O
ATOM	3230	CB	PRO A 535	38.854	-14.324	-25.746	1.00	24.82	C
ATOM	3231	CG	PRO A 535	40.320	-14.183	-26.162	1.00	24.83	C
ATOM	3232	CD	PRO A 535	40.396	-12.762	-26.716	1.00	24.92	C
ATOM	3233	N	VAL A 536	37.755	-12.043	-23.107	1.00	24.61	N
ATOM	3234	CA	VAL A 536	37.817	-11.748	-21.663	1.00	24.46	C
ATOM	3235	C	VAL A 536	36.796	-12.574	-20.883	1.00	24.45	C
ATOM	3236	O	VAL A 536	35.596	-12.459	-21.121	1.00	24.60	O
ATOM	3237	CB	VAL A 536	37.629	-10.237	-21.417	1.00	24.50	C
ATOM	3238	CG1	VAL A 536	37.601	-9.885	-19.925	1.00	24.36	C
ATOM	3239	CG2	VAL A 536	38.771	-9.436	-22.052	1.00	24.55	C
ATOM	3240	H	VAL A 536	36.988	-11.634	-23.636	1.00	0.00	H
ATOM	3241	N	PHE A 537	37.233	-13.305	-19.852	1.00	24.29	N
ATOM	3242	CA	PHE A 537	36.330	-13.835	-18.824	1.00	24.26	C
ATOM	3243	C	PHE A 537	35.964	-12.719	-17.835	1.00	24.26	C
ATOM	3244	O	PHE A 537	36.842	-12.129	-17.201	1.00	24.16	O
ATOM	3245	CB	PHE A 537	36.958	-15.051	-18.122	1.00	24.07	C
ATOM	3246	CG	PHE A 537	35.997	-15.842	-17.241	1.00	24.06	C

ATOM	3247	CD1 PHE A 537	35.513	-17.097	-17.663	1.00	24.21	C
ATOM	3248	CD2 PHE A 537	35.586	-15.337	-15.992	1.00	23.92	C
ATOM	3249	CE1 PHE A 537	34.633	-17.833	-16.848	1.00	24.24	C
ATOM	3250	CE2 PHE A 537	34.703	-16.071	-15.179	1.00	23.93	C
ATOM	3251	CZ PHE A 537	34.227	-17.322	-15.606	1.00	24.09	C
ATOM	3252	H PHE A 537	38.221	-13.255	-19.621	1.00	0.00	H
ATOM	3253	N ALA A 538	34.671	-12.507	-17.602	1.00	24.40	N
ATOM	3254	CA ALA A 538	34.141	-11.521	-16.666	1.00	24.47	C
ATOM	3255	C ALA A 538	33.212	-12.164	-15.628	1.00	24.47	C
ATOM	3256	O ALA A 538	32.470	-13.099	-15.933	1.00	24.57	O
ATOM	3257	CB ALA A 538	33.431	-10.421	-17.464	1.00	24.69	C
ATOM	3258	H ALA A 538	33.994	-13.052	-18.129	1.00	0.00	H
ATOM	3259	N VAL A 539	33.139	-11.547	-14.447	1.00	24.36	N
ATOM	3260	CA VAL A 539	32.083	-11.777	-13.449	1.00	24.36	C
ATOM	3261	C VAL A 539	31.351	-10.462	-13.197	1.00	24.52	C
ATOM	3262	O VAL A 539	31.989	-9.424	-13.007	1.00	24.48	O
ATOM	3263	CB VAL A 539	32.650	-12.377	-12.151	1.00	24.11	C
ATOM	3264	CG1 VAL A 539	31.546	-12.621	-11.119	1.00	24.11	C
ATOM	3265	CG2 VAL A 539	33.333	-13.723	-12.418	1.00	23.95	C
ATOM	3266	H VAL A 539	33.774	-10.772	-14.276	1.00	0.00	H
ATOM	3267	N PHE A 540	30.023	-10.468	-13.299	1.00	24.72	N
ATOM	3268	CA PHE A 540	29.228	-9.250	-13.457	1.00	24.94	C
ATOM	3269	C PHE A 540	27.805	-9.372	-12.899	1.00	25.14	C
ATOM	3270	O PHE A 540	27.212	-10.445	-12.858	1.00	25.11	O
ATOM	3271	CB PHE A 540	29.207	-8.850	-14.944	1.00	25.07	C
ATOM	3272	CG PHE A 540	28.480	-9.814	-15.865	1.00	25.16	C
ATOM	3273	CD1 PHE A 540	27.113	-9.623	-16.147	1.00	25.41	C

ATOM	3274	CD2 PHE A 540	29.167	-10.898	-16.447	1.00	25.03	C
ATOM	3275	CE1 PHE A 540	26.438	-10.507	-17.008	1.00	25.50	C
ATOM	3276	CE2 PHE A 540	28.491	-11.785	-17.303	1.00	25.14	C
ATOM	3277	CZ PHE A 540	27.127	-11.588	-17.585	1.00	25.37	C
ATOM	3278	H PHE A 540	29.551	-11.355	-13.465	1.00	0.00	H
ATOM	3279	N LYS A 541	27.240	-8.220	-12.553	1.00	25.36	N
ATOM	3280	CA LYS A 541	25.839	-7.947	-12.214	1.00	25.60	C
ATOM	3281	C LYS A 541	25.263	-7.008	-13.290	1.00	25.85	C
ATOM	3282	O LYS A 541	26.030	-6.417	-14.050	1.00	25.83	O
ATOM	3283	CB LYS A 541	25.860	-7.346	-10.797	1.00	25.60	C
ATOM	3284	CG LYS A 541	24.499	-7.194	-10.108	1.00	25.88	C
ATOM	3285	CD LYS A 541	24.577	-6.475	-8.746	1.00	25.86	C
ATOM	3286	CE LYS A 541	25.443	-7.150	-7.667	1.00	25.60	C
ATOM	3287	NZ LYS A 541	26.884	-6.802	-7.778	1.00	25.30	N1+
ATOM	3288	H LYS A 541	27.814	-7.392	-12.688	1.00	0.00	H
ATOM	3289	HZ1 LYS A 541	27.421	-7.108	-6.980	1.00	0.00	H
ATOM	3290	HZ2 LYS A 541	27.036	-5.788	-7.866	1.00	0.00	H
ATOM	3291	HZ3 LYS A 541	27.294	-7.172	-8.620	1.00	0.00	H
ATOM	3292	N ASP A 542	23.944	-6.818	-13.330	1.00	36.37	N
ATOM	3293	CA ASP A 542	23.222	-6.048	-14.366	1.00	36.63	C
ATOM	3294	C ASP A 542	23.896	-4.734	-14.809	1.00	36.65	C
ATOM	3295	O ASP A 542	24.173	-4.557	-15.994	1.00	36.70	O
ATOM	3296	CB ASP A 542	21.796	-5.737	-13.875	1.00	36.90	C
ATOM	3297	CG ASP A 542	20.981	-6.974	-13.498	1.00	36.90	C
ATOM	3298	OD1 ASP A 542	21.248	-8.068	-14.038	1.00	36.81	O
ATOM	3299	OD2 ASP A 542	20.002	-6.837	-12.738	1.00	36.99	O
ATOM	3300	H ASP A 542	23.380	-7.414	-12.740	1.00	0.00	H

ATOM	3301	N	ASN A 543	24.298	-3.885	-13.860	1.00	26.35	N
ATOM	3302	CA	ASN A 543	24.885	-2.570	-14.147	1.00	26.44	C
ATOM	3303	C	ASN A 543	26.396	-2.501	-13.831	1.00	26.21	C
ATOM	3304	O	ASN A 543	26.945	-1.414	-13.664	1.00	26.30	O
ATOM	3305	CB	ASN A 543	24.076	-1.470	-13.425	1.00	26.73	C
ATOM	3306	CG	ASN A 543	22.606	-1.368	-13.813	1.00	27.00	C
ATOM	3307	OD1	ASN A 543	21.953	-2.294	-14.255	1.00	26.98	O
ATOM	3308	ND2	ASN A 543	21.981	-0.257	-13.505	1.00	27.26	N
ATOM	3309	H	ASN A 543	24.028	-4.088	-12.912	1.00	0.00	H
ATOM	3310	1HD2	ASN A 543	22.481	0.518	-13.116	1.00	0.00	H
ATOM	3311	2HD2	ASN A 543	21.007	-0.232	-13.745	1.00	0.00	H
ATOM	3312	N	GLU A 544	27.044	-3.641	-13.567	1.00	25.94	N
ATOM	3313	CA	GLU A 544	28.320	-3.684	-12.845	1.00	25.71	C
ATOM	3314	C	GLU A 544	29.136	-4.944	-13.186	1.00	25.44	C
ATOM	3315	O	GLU A 544	28.926	-6.011	-12.610	1.00	25.36	O
ATOM	3316	CB	GLU A 544	28.009	-3.592	-11.337	1.00	25.69	C
ATOM	3317	CG	GLU A 544	29.250	-3.611	-10.429	1.00	25.43	C
ATOM	3318	CD	GLU A 544	28.901	-3.792	-8.942	1.00	25.50	C
ATOM	3319	OE1	GLU A 544	27.930	-4.535	-8.646	1.00	25.63	O
ATOM	3320	OE2	GLU A 544	29.795	-3.486	-8.126	1.00	25.44	O
ATOM	3321	H	GLU A 544	26.555	-4.518	-13.728	1.00	0.00	H
ATOM	3322	N	ILE A 545	30.198	-4.801	-13.985	1.00	25.30	N
ATOM	3323	CA	ILE A 545	31.266	-5.814	-14.034	1.00	25.04	C
ATOM	3324	C	ILE A 545	32.076	-5.717	-12.738	1.00	24.84	C
ATOM	3325	O	ILE A 545	32.664	-4.669	-12.454	1.00	24.84	O
ATOM	3326	CB	ILE A 545	32.156	-5.677	-15.287	1.00	25.00	C
ATOM	3327	CG1	ILE A 545	31.302	-5.785	-16.568	1.00	25.14	C

ATOM	3328	CG2 ILE A 545	33.254	-6.755	-15.266	1.00	24.73	C
ATOM	3329	CD1 ILE A 545	32.078	-5.541	-17.866	1.00	25.16	C
ATOM	3330	H ILE A 545	30.361	-3.908	-14.423	1.00	0.00	H
ATOM	3331	N LEU A 546	32.133	-6.804	-11.970	1.00	24.68	N
ATOM	3332	CA LEU A 546	32.840	-6.872	-10.693	1.00	24.48	C
ATOM	3333	C LEU A 546	34.351	-7.012	-10.895	1.00	24.28	C
ATOM	3334	O LEU A 546	35.111	-6.214	-10.352	1.00	24.26	O
ATOM	3335	CB LEU A 546	32.286	-8.039	-9.850	1.00	24.36	C
ATOM	3336	CG LEU A 546	30.801	-7.923	-9.469	1.00	24.55	C
ATOM	3337	CD1 LEU A 546	30.341	-9.201	-8.769	1.00	24.40	C
ATOM	3338	CD2 LEU A 546	30.583	-6.765	-8.503	1.00	24.77	C
ATOM	3339	H LEU A 546	31.714	-7.659	-12.319	1.00	0.00	H
ATOM	3340	N TYR A 547	34.778	-7.973	-11.715	1.00	24.15	N
ATOM	3341	CA TYR A 547	36.187	-8.288	-11.978	1.00	23.98	C
ATOM	3342	C TYR A 547	36.325	-9.150	-13.250	1.00	24.01	C
ATOM	3343	O TYR A 547	35.342	-9.718	-13.734	1.00	24.08	O
ATOM	3344	CB TYR A 547	36.816	-8.955	-10.734	1.00	23.71	C
ATOM	3345	CG TYR A 547	35.981	-10.021	-10.046	1.00	23.64	C
ATOM	3346	CD1 TYR A 547	36.069	-11.354	-10.476	1.00	23.49	C
ATOM	3347	CD2 TYR A 547	35.151	-9.691	-8.956	1.00	23.75	C
ATOM	3348	CE1 TYR A 547	35.326	-12.359	-9.829	1.00	23.44	C
ATOM	3349	CE2 TYR A 547	34.375	-10.683	-8.329	1.00	23.71	C
ATOM	3350	CZ TYR A 547	34.464	-12.022	-8.763	1.00	23.55	C
ATOM	3351	OH TYR A 547	33.758	-12.990	-8.126	1.00	23.53	O
ATOM	3352	H TYR A 547	34.087	-8.579	-12.143	1.00	0.00	H
ATOM	3353	HH TYR A 547	33.155	-12.609	-7.463	1.00	0.00	H
ATOM	3354	N GLN A 548	37.521	-9.172	-13.848	1.00	37.99	N

ATOM	3355	CA	GLN A 548	37.803	-9.771	-15.164	1.00	38.04	C
ATOM	3356	C	GLN A 548	39.182	-10.448	-15.201	1.00	37.85	C
ATOM	3357	O	GLN A 548	40.060	-10.084	-14.419	1.00	37.67	O
ATOM	3358	CB	GLN A 548	37.769	-8.695	-16.268	1.00	38.24	C
ATOM	3359	CG	GLN A 548	36.420	-7.986	-16.448	1.00	38.45	C
ATOM	3360	CD	GLN A 548	36.324	-7.177	-17.745	1.00	38.64	C
ATOM	3361	OE1	GLN A 548	35.285	-7.105	-18.378	1.00	38.81	O
ATOM	3362	NE2	GLN A 548	37.386	-6.568	-18.228	1.00	38.63	N
ATOM	3363	H	GLN A 548	38.307	-8.741	-13.381	1.00	0.00	H
ATOM	3364	1HE2	GLN A 548	38.290	-6.686	-17.807	1.00	0.00	H
ATOM	3365	2HE2	GLN A 548	37.279	-6.137	-19.132	1.00	0.00	H
ATOM	3366	N	VAL A 549	39.417	-11.281	-16.218	1.00	23.90	N
ATOM	3367	CA	VAL A 549	40.751	-11.695	-16.682	1.00	23.78	C
ATOM	3368	C	VAL A 549	40.706	-12.018	-18.191	1.00	23.92	C
ATOM	3369	O	VAL A 549	39.733	-12.636	-18.636	1.00	24.02	O
ATOM	3370	CB	VAL A 549	41.277	-12.878	-15.835	1.00	23.57	C
ATOM	3371	CG1	VAL A 549	40.557	-14.206	-16.109	1.00	23.62	C
ATOM	3372	CG2	VAL A 549	42.782	-13.096	-16.004	1.00	23.45	C
ATOM	3373	H	VAL A 549	38.631	-11.555	-16.804	1.00	0.00	H
ATOM	3374	N	PRO A 550	41.671	-11.567	-19.015	1.00	47.09	N
ATOM	3375	CA	PRO A 550	41.814	-12.059	-20.388	1.00	47.23	C
ATOM	3376	C	PRO A 550	42.198	-13.549	-20.396	1.00	47.14	C
ATOM	3377	O	PRO A 550	42.815	-14.042	-19.449	1.00	47.00	O
ATOM	3378	CB	PRO A 550	42.892	-11.179	-21.026	1.00	47.30	C
ATOM	3379	CG	PRO A 550	43.774	-10.790	-19.843	1.00	47.15	C
ATOM	3380	CD	PRO A 550	42.778	-10.674	-18.689	1.00	47.02	C
ATOM	3381	N	LEU A 551	41.780	-14.292	-21.424	1.00	45.69	N

ATOM	3382	CA	LEU A 551	42.152	-15.708	-21.600	1.00	45.66	C
ATOM	3383	C	LEU A 551	43.313	-15.930	-22.584	1.00	45.74	C
ATOM	3384	O	LEU A 551	43.915	-17.003	-22.566	1.00	45.70	O
ATOM	3385	CB	LEU A 551	40.908	-16.515	-21.998	1.00	45.79	C
ATOM	3386	CG	LEU A 551	39.814	-16.563	-20.916	1.00	45.70	C
ATOM	3387	CD1	LEU A 551	38.662	-17.422	-21.430	1.00	45.87	C
ATOM	3388	CD2	LEU A 551	40.292	-17.178	-19.594	1.00	45.57	C
ATOM	3389	H	LEU A 551	41.217	-13.848	-22.145	1.00	0.00	H
ATOM	3390	N	ALA A 552	43.634	-14.908	-23.375	1.00	24.27	N
ATOM	3391	CA	ALA A 552	44.817	-14.755	-24.218	1.00	24.37	C
ATOM	3392	C	ALA A 552	44.986	-13.252	-24.541	1.00	24.41	C
ATOM	3393	O	ALA A 552	44.158	-12.438	-24.119	1.00	24.35	O
ATOM	3394	CB	ALA A 552	44.644	-15.607	-25.482	1.00	24.56	C
ATOM	3395	H	ALA A 552	43.098	-14.058	-23.282	1.00	0.00	H
ATOM	3396	N	GLU A 553	46.078	-12.879	-25.203	1.00	35.47	N
ATOM	3397	CA	GLU A 553	46.497	-11.494	-25.452	1.00	35.58	C
ATOM	3398	C	GLU A 553	45.467	-10.642	-26.232	1.00	35.70	C
ATOM	3399	O	GLU A 553	44.558	-11.151	-26.893	1.00	35.71	O
ATOM	3400	CB	GLU A 553	47.876	-11.500	-26.146	1.00	35.73	C
ATOM	3401	CG	GLU A 553	49.066	-11.778	-25.203	1.00	35.68	C
ATOM	3402	CD	GLU A 553	49.009	-13.103	-24.417	1.00	35.83	C
ATOM	3403	OE1	GLU A 553	48.527	-14.117	-24.974	1.00	35.88	O
ATOM	3404	OE2	GLU A 553	49.403	-13.083	-23.228	1.00	35.90	O
ATOM	3405	H	GLU A 553	46.786	-13.593	-25.380	1.00	0.00	H
ATOM	3406	N	ASP A 554	45.566	-9.315	-26.093	1.00	27.42	N
ATOM	3407	CA	ASP A 554	44.496	-8.365	-26.440	1.00	27.55	C
ATOM	3408	C	ASP A 554	44.093	-8.301	-27.930	1.00	27.68	C



ATOM	3409	O	ASP A 554	42.989	-7.836	-28.225	1.00	27.74	O
ATOM	3410	CB	ASP A 554	44.880	-6.958	-25.936	1.00	27.65	C
ATOM	3411	CG	ASP A 554	44.638	-6.757	-24.434	1.00	27.56	C
ATOM	3412	OD1	ASP A 554	43.468	-6.950	-24.023	1.00	27.40	O
ATOM	3413	OD2	ASP A 554	45.489	-6.093	-23.804	1.00	27.67	O
ATOM	3414	H	ASP A 554	46.338	-8.953	-25.555	1.00	0.00	H
ATOM	3415	N	ASP A 555	44.924	-8.767	-28.865	1.00	27.90	N
ATOM	3416	CA	ASP A 555	44.605	-8.863	-30.299	1.00	28.05	C
ATOM	3417	C	ASP A 555	44.078	-10.250	-30.725	1.00	28.03	C
ATOM	3418	O	ASP A 555	43.693	-10.434	-31.881	1.00	28.16	O
ATOM	3419	CB	ASP A 555	45.842	-8.477	-31.135	1.00	28.16	C
ATOM	3420	CG	ASP A 555	47.061	-9.401	-30.975	1.00	28.10	C
ATOM	3421	OD1	ASP A 555	47.123	-10.148	-29.970	1.00	27.96	O
ATOM	3422	OD2	ASP A 555	47.971	-9.284	-31.826	1.00	28.20	O
ATOM	3423	H	ASP A 555	45.802	-9.192	-28.581	1.00	0.00	H
ATOM	3424	N	THR A 556	44.065	-11.241	-29.827	1.00	25.17	N
ATOM	3425	CA	THR A 556	43.853	-12.647	-30.208	1.00	25.16	C
ATOM	3426	C	THR A 556	42.453	-12.929	-30.762	1.00	25.25	C
ATOM	3427	O	THR A 556	41.425	-12.483	-30.239	1.00	25.21	O
ATOM	3428	CB	THR A 556	44.199	-13.636	-29.086	1.00	24.98	C
ATOM	3429	OG1	THR A 556	43.480	-13.376	-27.903	1.00	24.90	O
ATOM	3430	CG2	THR A 556	45.696	-13.631	-28.785	1.00	24.89	C
ATOM	3431	H	THR A 556	44.424	-11.039	-28.901	1.00	0.00	H
ATOM	3432	HG1	THR A 556	43.869	-12.569	-27.509	1.00	0.00	H
ATOM	3433	N	ASN A 557	42.428	-13.715	-31.844	1.00	25.38	N
ATOM	3434	CA	ASN A 557	41.236	-14.024	-32.630	1.00	25.47	C
ATOM	3435	C	ASN A 557	40.294	-14.957	-31.851	1.00	25.41	C

ATOM	3436	O	ASN A 557	40.629	-16.120	-31.625	1.00	25.38	O
ATOM	3437	CB	ASN A 557	41.617	-14.676	-33.982	1.00	25.65	C
ATOM	3438	CG	ASN A 557	42.867	-14.140	-34.657	1.00	25.72	C
ATOM	3439	OD1	ASN A 557	42.810	-13.580	-35.745	1.00	25.68	O
ATOM	3440	ND2	ASN A 557	44.016	-14.604	-34.222	1.00	25.86	N
ATOM	3441	H	ASN A 557	43.313	-14.023	-32.213	1.00	0.00	H
ATOM	3442	1HD2	ASN A 557	44.017	-15.343	-33.524	1.00	0.00	H
ATOM	3443	2HD2	ASN A 557	44.873	-14.262	-34.637	1.00	0.00	H
ATOM	3444	N	ALA A 558	39.043	-14.557	-31.629	1.00	25.42	N
ATOM	3445	CA	ALA A 558	38.017	-15.404	-31.025	1.00	25.40	C
ATOM	3446	C	ALA A 558	36.608	-15.069	-31.541	1.00	25.54	C
ATOM	3447	O	ALA A 558	36.220	-13.909	-31.642	1.00	25.61	O
ATOM	3448	CB	ALA A 558	38.141	-15.320	-29.498	1.00	25.23	C
ATOM	3449	H	ALA A 558	38.783	-13.618	-31.919	1.00	0.00	H
ATOM	3450	N	GLN A 559	35.828	-16.103	-31.873	1.00	25.58	N
ATOM	3451	CA	GLN A 559	34.526	-15.982	-32.543	1.00	25.73	C
ATOM	3452	C	GLN A 559	33.333	-16.170	-31.593	1.00	25.74	C
ATOM	3453	O	GLN A 559	32.337	-15.453	-31.701	1.00	25.69	O
ATOM	3454	CB	GLN A 559	34.480	-16.985	-33.714	1.00	25.89	C
ATOM	3455	CG	GLN A 559	33.157	-16.936	-34.499	1.00	26.05	C
ATOM	3456	CD	GLN A 559	33.195	-17.799	-35.759	1.00	26.20	C
ATOM	3457	OE1	GLN A 559	33.313	-17.314	-36.873	1.00	26.18	O
ATOM	3458	NE2	GLN A 559	33.064	-19.101	-35.648	1.00	26.37	N
ATOM	3459	H	GLN A 559	36.214	-17.030	-31.724	1.00	0.00	H
ATOM	3460	1HE2	GLN A 559	33.000	-19.557	-34.731	1.00	0.00	H
ATOM	3461	2HE2	GLN A 559	33.138	-19.652	-36.479	1.00	0.00	H
ATOM	3462	N	LYS A 560	33.388	-17.173	-30.710	1.00	25.84	N

ATOM	3463	CA	LYS A 560	32.240	-17.681	-29.938	1.00	25.93	C
ATOM	3464	C	LYS A 560	32.682	-18.168	-28.564	1.00	25.81	C
ATOM	3465	O	LYS A 560	33.741	-18.776	-28.438	1.00	25.84	O
ATOM	3466	CB	LYS A 560	31.547	-18.790	-30.760	1.00	26.15	C
ATOM	3467	CG	LYS A 560	30.540	-19.664	-29.994	1.00	26.30	C
ATOM	3468	CD	LYS A 560	29.769	-20.596	-30.941	1.00	26.56	C
ATOM	3469	CE	LYS A 560	29.078	-21.752	-30.200	1.00	26.73	C
ATOM	3470	NZ	LYS A 560	28.161	-21.295	-29.125	1.00	26.76	N1+
ATOM	3471	H	LYS A 560	34.251	-17.700	-30.663	1.00	0.00	H
ATOM	3472	HZ1	LYS A 560	27.730	-22.091	-28.676	1.00	0.00	H
ATOM	3473	HZ2	LYS A 560	28.666	-20.774	-28.414	1.00	0.00	H
ATOM	3474	HZ3	LYS A 560	27.435	-20.693	-29.488	1.00	0.00	H
ATOM	3475	N	THR A 561	31.786	-18.091	-27.583	1.00	25.67	N
ATOM	3476	CA	THR A 561	32.006	-18.621	-26.226	1.00	25.51	C
ATOM	3477	C	THR A 561	30.860	-19.538	-25.787	1.00	25.62	C
ATOM	3478	O	THR A 561	29.787	-19.525	-26.393	1.00	25.77	O
ATOM	3479	CB	THR A 561	32.270	-17.490	-25.211	1.00	25.34	C
ATOM	3480	OG1	THR A 561	31.074	-16.897	-24.764	1.00	25.43	O
ATOM	3481	CG2	THR A 561	33.141	-16.368	-25.789	1.00	25.28	C
ATOM	3482	H	THR A 561	30.932	-17.574	-27.755	1.00	0.00	H
ATOM	3483	HG1	THR A 561	31.319	-16.152	-24.181	1.00	0.00	H
ATOM	3484	N	ILE A 562	31.105	-20.429	-24.824	1.00	35.26	N
ATOM	3485	CA	ILE A 562	30.079	-21.182	-24.076	1.00	35.34	C
ATOM	3486	C	ILE A 562	30.595	-21.341	-22.644	1.00	35.14	C
ATOM	3487	O	ILE A 562	31.689	-21.875	-22.481	1.00	34.97	O
ATOM	3488	CB	ILE A 562	29.778	-22.581	-24.682	1.00	35.57	C
ATOM	3489	CG1	ILE A 562	29.423	-22.537	-26.186	1.00	35.76	C

ATOM	3490	CG2 ILE A 562	28.645	-23.257	-23.883	1.00	35.71	C
ATOM	3491	CD1 ILE A 562	29.248	-23.908	-26.846	1.00	36.03	C
ATOM	3492	H ILE A 562	32.060	-20.505	-24.483	1.00	0.00	H
ATOM	3493	N THR A 563	29.848	-20.909	-21.625	1.00	25.46	N
ATOM	3494	CA THR A 563	30.239	-21.043	-20.209	1.00	25.29	C
ATOM	3495	C THR A 563	29.170	-21.768	-19.396	1.00	25.43	C
ATOM	3496	O THR A 563	28.071	-21.240	-19.220	1.00	25.61	O
ATOM	3497	CB THR A 563	30.554	-19.680	-19.570	1.00	25.10	C
ATOM	3498	OG1 THR A 563	31.510	-18.986	-20.351	1.00	24.97	O
ATOM	3499	CG2 THR A 563	31.101	-19.840	-18.148	1.00	24.92	C
ATOM	3500	H THR A 563	28.953	-20.464	-21.827	1.00	0.00	H
ATOM	3501	HG1 THR A 563	31.009	-18.688	-21.123	1.00	0.00	H
ATOM	3502	N ASP A 564	29.554	-22.875	-18.757	1.00	25.36	N
ATOM	3503	CA ASP A 564	28.732	-23.626	-17.797	1.00	25.49	C
ATOM	3504	C ASP A 564	29.445	-23.727	-16.432	1.00	25.26	C
ATOM	3505	O ASP A 564	30.665	-23.899	-16.383	1.00	25.16	O
ATOM	3506	CB ASP A 564	28.341	-25.012	-18.352	1.00	25.74	C
ATOM	3507	CG ASP A 564	27.499	-25.017	-19.644	1.00	25.95	C
ATOM	3508	OD1 ASP A 564	26.931	-23.966	-20.022	1.00	26.05	O
ATOM	3509	OD2 ASP A 564	27.259	-26.122	-20.172	1.00	26.04	O
ATOM	3510	H ASP A 564	30.515	-23.185	-18.872	1.00	0.00	H
ATOM	3511	N CYS A 565	28.711	-23.600	-15.317	1.00	25.19	N
ATOM	3512	CA CYS A 565	29.288	-23.544	-13.963	1.00	24.91	C
ATOM	3513	C CYS A 565	28.628	-24.526	-12.979	1.00	24.97	C
ATOM	3514	O CYS A 565	27.448	-24.856	-13.087	1.00	25.23	O
ATOM	3515	CB CYS A 565	29.248	-22.110	-13.412	1.00	24.75	C
ATOM	3516	SG CYS A 565	29.929	-20.789	-14.458	1.00	24.74	S

ATOM	3517	H	CYS A 565	27.710	-23.484	-15.398	1.00	0.00	H
ATOM	3518	N	PHE A 566	29.408	-24.998	-12.005	1.00	24.71	N
ATOM	3519	CA	PHE A 566	29.070	-26.101	-11.101	1.00	24.74	C
ATOM	3520	C	PHE A 566	29.947	-26.077	-9.832	1.00	24.42	C
ATOM	3521	O	PHE A 566	30.757	-25.170	-9.634	1.00	24.18	O
ATOM	3522	CB	PHE A 566	29.207	-27.430	-11.875	1.00	24.88	C
ATOM	3523	CG	PHE A 566	30.536	-27.636	-12.581	1.00	24.74	C
ATOM	3524	CD1	PHE A 566	31.601	-28.282	-11.925	1.00	24.45	C
ATOM	3525	CD2	PHE A 566	30.700	-27.194	-13.909	1.00	24.89	C
ATOM	3526	CE1	PHE A 566	32.823	-28.480	-12.591	1.00	24.33	C
ATOM	3527	CE2	PHE A 566	31.923	-27.385	-14.572	1.00	24.78	C
ATOM	3528	CZ	PHE A 566	32.984	-28.030	-13.914	1.00	24.51	C
ATOM	3529	H	PHE A 566	30.362	-24.648	-11.955	1.00	0.00	H
ATOM	3530	N	LEU A 567	29.728	-27.028	-8.919	1.00	24.42	N
ATOM	3531	CA	LEU A 567	30.560	-27.230	-7.728	1.00	24.10	C
ATOM	3532	C	LEU A 567	31.562	-28.372	-7.941	1.00	24.02	C
ATOM	3533	O	LEU A 567	31.174	-29.437	-8.414	1.00	24.26	O
ATOM	3534	CB	LEU A 567	29.673	-27.522	-6.502	1.00	24.11	C
ATOM	3535	CG	LEU A 567	28.669	-26.417	-6.127	1.00	23.97	C
ATOM	3536	CD1	LEU A 567	27.853	-26.858	-4.912	1.00	24.06	C
ATOM	3537	CD2	LEU A 567	29.362	-25.101	-5.780	1.00	23.59	C
ATOM	3538	H	LEU A 567	29.099	-27.778	-9.164	1.00	0.00	H
ATOM	3539	N	LEU A 568	32.764	-28.232	-7.381	1.00	37.61	N
ATOM	3540	CA	LEU A 568	33.765	-29.298	-7.254	1.00	37.49	C
ATOM	3541	C	LEU A 568	34.573	-29.096	-5.958	1.00	37.18	C
ATOM	3542	O	LEU A 568	34.895	-27.959	-5.620	1.00	36.95	O
ATOM	3543	CB	LEU A 568	34.638	-29.307	-8.520	1.00	37.38	C

ATOM	3544	CG	LEU A 568	35.660	-30.462	-8.538	1.00	37.30	C
ATOM	3545	CD1	LEU A 568	35.408	-31.381	-9.734	1.00	37.65	C
ATOM	3546	CD2	LEU A 568	37.081	-29.901	-8.594	1.00	37.12	C
ATOM	3547	H	LEU A 568	33.019	-27.317	-7.019	1.00	0.00	H
ATOM	3548	N	GLU A 569	34.601	-30.117	-5.091	1.00	54.42	N
ATOM	3549	CA	GLU A 569	34.884	-29.982	-3.643	1.00	54.12	C
ATOM	3550	C	GLU A 569	34.048	-28.886	-2.936	1.00	53.97	C
ATOM	3551	O	GLU A 569	34.477	-28.274	-1.959	1.00	53.64	O
ATOM	3552	CB	GLU A 569	36.395	-29.860	-3.355	1.00	53.83	C
ATOM	3553	CG	GLU A 569	37.145	-31.197	-3.465	1.00	53.98	C
ATOM	3554	CD	GLU A 569	38.189	-31.377	-2.348	1.00	53.70	C
ATOM	3555	OE1	GLU A 569	38.820	-30.375	-1.927	1.00	53.38	O
ATOM	3556	OE2	GLU A 569	38.680	-32.515	-2.173	1.00	53.81	O
ATOM	3557	H	GLU A 569	34.370	-31.036	-5.440	1.00	0.00	H
ATOM	3558	N	ASN A 570	32.802	-28.675	-3.380	1.00	45.28	N
ATOM	3559	CA	ASN A 570	31.907	-27.593	-2.925	1.00	45.21	C
ATOM	3560	C	ASN A 570	32.383	-26.165	-3.288	1.00	45.11	C
ATOM	3561	O	ASN A 570	31.709	-25.190	-2.958	1.00	45.02	O
ATOM	3562	CB	ASN A 570	31.563	-27.725	-1.424	1.00	44.92	C
ATOM	3563	CG	ASN A 570	31.368	-29.150	-0.942	1.00	44.92	C
ATOM	3564	OD1	ASN A 570	30.305	-29.729	-1.059	1.00	45.19	O
ATOM	3565	ND2	ASN A 570	32.399	-29.763	-0.407	1.00	44.61	N
ATOM	3566	H	ASN A 570	32.498	-29.235	-4.161	1.00	0.00	H
ATOM	3567	1HD2	ASN A 570	33.303	-29.311	-0.454	1.00	0.00	H
ATOM	3568	2HD2	ASN A 570	32.270	-30.719	-0.134	1.00	0.00	H
ATOM	3569	N	VAL A 571	33.491	-26.020	-4.022	1.00	22.99	N
ATOM	3570	CA	VAL A 571	33.969	-24.747	-4.578	1.00	22.91	C

ATOM	3571	C	VAL A 571	33.324	-24.503	-5.943	1.00	23.18	C
ATOM	3572	O	VAL A 571	33.290	-25.400	-6.783	1.00	23.36	O
ATOM	3573	CB	VAL A 571	35.508	-24.732	-4.680	1.00	22.60	C
ATOM	3574	CG1	VAL A 571	36.033	-23.389	-5.208	1.00	22.53	C
ATOM	3575	CG2	VAL A 571	36.159	-24.977	-3.311	1.00	22.33	C
ATOM	3576	H	VAL A 571	33.989	-26.857	-4.310	1.00	0.00	H
ATOM	3577	N	ILE A 572	32.876	-23.270	-6.200	1.00	36.75	N
ATOM	3578	CA	ILE A 572	32.316	-22.881	-7.499	1.00	37.02	C
ATOM	3579	C	ILE A 572	33.428	-22.871	-8.564	1.00	36.99	C
ATOM	3580	O	ILE A 572	34.371	-22.074	-8.495	1.00	36.81	O
ATOM	3581	CB	ILE A 572	31.559	-21.530	-7.438	1.00	37.10	C
ATOM	3582	CG1	ILE A 572	30.408	-21.464	-6.404	1.00	37.10	C
ATOM	3583	CG2	ILE A 572	30.949	-21.216	-8.819	1.00	37.41	C
ATOM	3584	CD1	ILE A 572	30.844	-21.176	-4.960	1.00	36.79	C
ATOM	3585	H	ILE A 572	32.924	-22.578	-5.473	1.00	0.00	H
ATOM	3586	N	TRP A 573	33.221	-23.646	-9.624	1.00	23.66	N
ATOM	3587	CA	TRP A 573	34.004	-23.652	-10.859	1.00	23.67	C
ATOM	3588	C	TRP A 573	33.111	-23.305	-12.051	1.00	23.94	C
ATOM	3589	O	TRP A 573	31.931	-23.647	-12.076	1.00	24.17	O
ATOM	3590	CB	TRP A 573	34.646	-25.033	-11.057	1.00	23.66	C
ATOM	3591	CG	TRP A 573	35.935	-25.278	-10.333	1.00	23.37	C
ATOM	3592	CD1	TRP A 573	36.061	-25.804	-9.094	1.00	23.16	C
ATOM	3593	CD2	TRP A 573	37.299	-25.058	-10.811	1.00	23.23	C
ATOM	3594	NE1	TRP A 573	37.400	-25.981	-8.797	1.00	22.91	N
ATOM	3595	CE2	TRP A 573	38.209	-25.521	-9.814	1.00	22.95	C
ATOM	3596	CE3	TRP A 573	37.861	-24.560	-12.008	1.00	23.33	C
ATOM	3597	CZ2	TRP A 573	39.600	-25.486	-9.992	1.00	22.78	C

ATOM	3598	CZ3 TRP A 573	39.259	-24.502	-12.189	1.00	23.17	C
ATOM	3599	CH2 TRP A 573	40.127	-24.969	-11.188	1.00	22.90	C
ATOM	3600	H TRP A 573	32.381	-24.220	-9.628	1.00	0.00	H
ATOM	3601	HE1 TRP A 573	37.723	-26.535	-8.013	1.00	0.00	H
ATOM	3602	N CYS A 574	33.726	-22.774	-13.102	1.00	23.94	N
ATOM	3603	CA CYS A 574	33.159	-22.695	-14.442	1.00	24.19	C
ATOM	3604	C CYS A 574	34.091	-23.385	-15.442	1.00	24.21	C
ATOM	3605	O CYS A 574	35.315	-23.285	-15.323	1.00	24.06	O
ATOM	3606	CB CYS A 574	32.919	-21.229	-14.810	1.00	24.24	C
ATOM	3607	SG CYS A 574	31.775	-20.338	-13.723	1.00	24.36	S
ATOM	3608	H CYS A 574	34.693	-22.492	-13.002	1.00	0.00	H
ATOM	3609	N ILE A 575	33.514	-23.989	-16.478	1.00	24.44	N
ATOM	3610	CA ILE A 575	34.205	-24.331	-17.721	1.00	24.55	C
ATOM	3611	C ILE A 575	33.719	-23.359	-18.793	1.00	24.67	C
ATOM	3612	O ILE A 575	32.521	-23.297	-19.075	1.00	24.76	O
ATOM	3613	CB ILE A 575	33.947	-25.805	-18.112	1.00	24.79	C
ATOM	3614	CG1 ILE A 575	34.562	-26.794	-17.094	1.00	24.69	C
ATOM	3615	CG2 ILE A 575	34.447	-26.109	-19.538	1.00	25.03	C
ATOM	3616	CD1 ILE A 575	36.087	-26.936	-17.155	1.00	24.50	C
ATOM	3617	H ILE A 575	32.496	-23.990	-16.515	1.00	0.00	H
ATOM	3618	N SER A 576	34.655	-22.674	-19.445	1.00	24.68	N
ATOM	3619	CA SER A 576	34.400	-21.909	-20.662	1.00	24.85	C
ATOM	3620	C SER A 576	35.076	-22.576	-21.855	1.00	25.00	C
ATOM	3621	O SER A 576	36.304	-22.649	-21.925	1.00	24.96	O
ATOM	3622	CB SER A 576	34.860	-20.458	-20.526	1.00	24.71	C
ATOM	3623	OG SER A 576	34.121	-19.796	-19.517	1.00	24.50	O
ATOM	3624	H SER A 576	35.622	-22.790	-19.160	1.00	0.00	H



ATOM	3625	HG	SER A 576	33.221	-19.612	-19.845	1.00	0.00	H
ATOM	3626	N	LEU A 577	34.289	-22.959	-22.857	1.00	25.18	N
ATOM	3627	CA	LEU A 577	34.793	-23.130	-24.215	1.00	25.31	C
ATOM	3628	C	LEU A 577	34.934	-21.749	-24.864	1.00	25.22	C
ATOM	3629	O	LEU A 577	33.976	-20.972	-24.865	1.00	25.02	O
ATOM	3630	CB	LEU A 577	33.834	-24.034	-25.012	1.00	25.60	C
ATOM	3631	CG	LEU A 577	34.391	-24.484	-26.375	1.00	25.77	C
ATOM	3632	CD1	LEU A 577	35.487	-25.538	-26.207	1.00	25.78	C
ATOM	3633	CD2	LEU A 577	33.282	-25.103	-27.221	1.00	26.05	C
ATOM	3634	H	LEU A 577	33.295	-22.780	-22.749	1.00	0.00	H
ATOM	3635	N	VAL A 578	36.043	-21.521	-25.564	1.00	25.36	N
ATOM	3636	CA	VAL A 578	36.190	-20.403	-26.506	1.00	25.33	C
ATOM	3637	C	VAL A 578	36.578	-20.959	-27.872	1.00	25.51	C
ATOM	3638	O	VAL A 578	37.483	-21.783	-27.970	1.00	25.62	O
ATOM	3639	CB	VAL A 578	37.206	-19.351	-26.013	1.00	25.10	C
ATOM	3640	CG1	VAL A 578	37.117	-18.073	-26.856	1.00	25.13	C
ATOM	3641	CG2	VAL A 578	36.976	-18.946	-24.551	1.00	24.92	C
ATOM	3642	H	VAL A 578	36.812	-22.183	-25.504	1.00	0.00	H
ATOM	3643	N	GLU A 579	35.851	-20.579	-28.918	1.00	25.56	N
ATOM	3644	CA	GLU A 579	36.264	-20.747	-30.312	1.00	25.69	C
ATOM	3645	C	GLU A 579	37.272	-19.642	-30.656	1.00	25.57	C
ATOM	3646	O	GLU A 579	36.887	-18.483	-30.800	1.00	25.53	O
ATOM	3647	CB	GLU A 579	35.017	-20.720	-31.210	1.00	25.90	C
ATOM	3648	CG	GLU A 579	35.308	-21.117	-32.666	1.00	26.11	C
ATOM	3649	CD	GLU A 579	34.017	-21.277	-33.487	1.00	26.31	C
ATOM	3650	OE1	GLU A 579	33.056	-20.506	-33.261	1.00	26.33	O
ATOM	3651	OE2	GLU A 579	33.985	-22.125	-34.408	1.00	26.46	O

ATOM	3652	H	GLU A 579	35.124	-19.892	-28.746	1.00	0.00	H
ATOM	3653	N	ILE A 580	38.559	-19.974	-30.550	1.00	25.51	N
ATOM	3654	CA	ILE A 580	39.715	-19.063	-30.510	1.00	25.37	C
ATOM	3655	C	ILE A 580	40.825	-19.616	-31.408	1.00	25.48	C
ATOM	3656	O	ILE A 580	40.955	-20.835	-31.532	1.00	25.59	O
ATOM	3657	CB	ILE A 580	40.192	-18.856	-29.043	1.00	25.15	C
ATOM	3658	CG1	ILE A 580	41.369	-17.861	-28.894	1.00	25.01	C
ATOM	3659	CG2	ILE A 580	40.575	-20.189	-28.380	1.00	25.13	C
ATOM	3660	CD1	ILE A 580	41.759	-17.543	-27.444	1.00	24.80	C
ATOM	3661	H	ILE A 580	38.792	-20.946	-30.416	1.00	0.00	H
ATOM	3662	N	TYR A 581	41.666	-18.748	-31.962	1.00	25.49	N
ATOM	3663	CA	TYR A 581	42.958	-19.143	-32.510	1.00	25.58	C
ATOM	3664	C	TYR A 581	44.013	-18.052	-32.336	1.00	25.54	C
ATOM	3665	O	TYR A 581	43.752	-16.851	-32.447	1.00	25.48	O
ATOM	3666	CB	TYR A 581	42.828	-19.608	-33.962	1.00	25.82	C
ATOM	3667	CG	TYR A 581	42.440	-18.546	-34.973	1.00	25.94	C
ATOM	3668	CD1	TYR A 581	43.449	-17.841	-35.653	1.00	26.01	C
ATOM	3669	CD2	TYR A 581	41.085	-18.255	-35.222	1.00	25.99	C
ATOM	3670	CE1	TYR A 581	43.110	-16.807	-36.545	1.00	26.13	C
ATOM	3671	CE2	TYR A 581	40.739	-17.229	-36.126	1.00	26.10	C
ATOM	3672	CZ	TYR A 581	41.754	-16.488	-36.769	1.00	26.16	C
ATOM	3673	OH	TYR A 581	41.434	-15.394	-37.503	1.00	26.27	O
ATOM	3674	H	TYR A 581	41.513	-17.751	-31.821	1.00	0.00	H
ATOM	3675	HH	TYR A 581	41.964	-14.639	-37.196	1.00	0.00	H
ATOM	3676	N	ASP A 582	45.228	-18.505	-32.080	1.00	27.79	N
ATOM	3677	CA	ASP A 582	46.408	-17.666	-31.940	1.00	27.78	C
ATOM	3678	C	ASP A 582	46.944	-17.392	-33.359	1.00	28.00	C

ATOM	3679	O	ASP A 582	46.770	-18.225	-34.254	1.00	28.14	O
ATOM	3680	CB	ASP A 582	47.445	-18.347	-31.016	1.00	27.66	C
ATOM	3681	CG	ASP A 582	46.905	-18.974	-29.705	1.00	27.49	C
ATOM	3682	OD1	ASP A 582	45.723	-18.749	-29.346	1.00	27.55	O
ATOM	3683	OD2	ASP A 582	47.460	-20.027	-29.312	1.00	27.31	O
ATOM	3684	H	ASP A 582	45.379	-19.510	-32.128	1.00	0.00	H
ATOM	3685	N	THR A 583	47.504	-16.206	-33.626	1.00	25.85	N
ATOM	3686	CA	THR A 583	47.854	-15.758	-34.995	1.00	26.06	C
ATOM	3687	C	THR A 583	49.079	-16.505	-35.557	1.00	26.14	C
ATOM	3688	O	THR A 583	50.195	-15.993	-35.595	1.00	26.04	O
ATOM	3689	CB	THR A 583	47.993	-14.225	-35.054	1.00	26.10	C
ATOM	3690	OG1	THR A 583	46.803	-13.651	-34.555	1.00	26.02	O
ATOM	3691	CG2	THR A 583	48.146	-13.683	-36.477	1.00	26.32	C
ATOM	3692	H	THR A 583	47.551	-15.520	-32.887	1.00	0.00	H
ATOM	3693	HG1	THR A 583	47.004	-12.751	-34.266	1.00	0.00	H
ATOM	3694	N	GLY A 584	48.871	-17.784	-35.880	1.00	35.45	N
ATOM	3695	CA	GLY A 584	49.892	-18.808	-36.121	1.00	35.55	C
ATOM	3696	C	GLY A 584	49.375	-20.258	-36.022	1.00	35.59	C
ATOM	3697	O	GLY A 584	50.027	-21.162	-36.540	1.00	35.78	O
ATOM	3698	H	GLY A 584	47.930	-18.116	-35.706	1.00	0.00	H
ATOM	3699	N	ASP A 585	48.167	-20.490	-35.487	1.00	26.30	N
ATOM	3700	CA	ASP A 585	47.480	-21.792	-35.520	1.00	26.32	C
ATOM	3701	C	ASP A 585	47.143	-22.237	-36.962	1.00	26.58	C
ATOM	3702	O	ASP A 585	46.094	-21.890	-37.506	1.00	26.67	O
ATOM	3703	CB	ASP A 585	46.180	-21.726	-34.689	1.00	26.11	C
ATOM	3704	CG	ASP A 585	46.355	-21.843	-33.173	1.00	25.87	C
ATOM	3705	OD1	ASP A 585	47.051	-22.799	-32.763	1.00	25.85	O

ATOM	3706	OD2 ASP A 585	45.465	-21.325	-32.459	1.00	25.71	O
ATOM	3707	H ASP A 585	47.670	-19.725	-35.044	1.00	0.00	H
ATOM	3708	N SER A 586	47.909	-23.191	-37.506	1.00	35.84	N
ATOM	3709	CA SER A 586	47.547	-23.910	-38.747	1.00	36.14	C
ATOM	3710	C SER A 586	46.276	-24.760	-38.596	1.00	36.23	C
ATOM	3711	O SER A 586	45.555	-24.997	-39.567	1.00	36.41	O
ATOM	3712	CB SER A 586	48.679	-24.854	-39.168	1.00	36.26	C
ATOM	3713	OG SER A 586	49.908	-24.161	-39.273	1.00	36.32	O
ATOM	3714	H SER A 586	48.842	-23.308	-37.135	1.00	0.00	H
ATOM	3715	HG SER A 586	50.606	-24.788	-39.475	1.00	0.00	H
ATOM	3716	N VAL A 587	46.025	-25.245	-37.374	1.00	42.69	N
ATOM	3717	CA VAL A 587	44.874	-26.073	-36.992	1.00	42.75	C
ATOM	3718	C VAL A 587	44.000	-25.266	-36.030	1.00	42.46	C
ATOM	3719	O VAL A 587	44.064	-25.443	-34.816	1.00	42.23	O
ATOM	3720	CB VAL A 587	45.325	-27.433	-36.411	1.00	42.92	C
ATOM	3721	CG1 VAL A 587	44.134	-28.338	-36.051	1.00	42.99	C
ATOM	3722	CG2 VAL A 587	46.196	-28.214	-37.405	1.00	43.25	C
ATOM	3723	H VAL A 587	46.630	-24.924	-36.632	1.00	0.00	H
ATOM	3724	N ILE A 588	43.249	-24.310	-36.576	1.00	42.73	N
ATOM	3725	CA ILE A 588	42.336	-23.437	-35.825	1.00	42.49	C
ATOM	3726	C ILE A 588	41.344	-24.305	-35.043	1.00	42.51	C
ATOM	3727	O ILE A 588	40.645	-25.134	-35.634	1.00	42.72	O
ATOM	3728	CB ILE A 588	41.624	-22.470	-36.804	1.00	42.47	C
ATOM	3729	CG1 ILE A 588	42.651	-21.452	-37.352	1.00	42.41	C
ATOM	3730	CG2 ILE A 588	40.400	-21.784	-36.164	1.00	42.29	C
ATOM	3731	CD1 ILE A 588	42.103	-20.467	-38.392	1.00	42.43	C
ATOM	3732	H ILE A 588	43.241	-24.251	-37.588	1.00	0.00	H

ATOM	3733	N	ARG A 589	41.247	-24.131	-33.719	1.00	26.32	N
ATOM	3734	CA	ARG A 589	40.341	-24.943	-32.892	1.00	26.34	C
ATOM	3735	C	ARG A 589	39.897	-24.269	-31.590	1.00	26.07	C
ATOM	3736	O	ARG A 589	40.740	-23.708	-30.899	1.00	25.86	O
ATOM	3737	CB	ARG A 589	40.968	-26.324	-32.607	1.00	26.47	C
ATOM	3738	CG	ARG A 589	42.338	-26.281	-31.894	1.00	26.31	C
ATOM	3739	CD	ARG A 589	42.590	-27.542	-31.065	1.00	26.46	C
ATOM	3740	NE	ARG A 589	41.671	-27.601	-29.910	1.00	26.36	N
ATOM	3741	CZ	ARG A 589	41.283	-28.664	-29.238	1.00	26.51	C
ATOM	3742	NH1	ARG A 589	41.759	-29.853	-29.479	1.00	26.80	N
ATOM	3743	NH2	ARG A 589	40.387	-28.535	-28.307	1.00	26.40	N
ATOM	3744	H	ARG A 589	41.839	-23.442	-33.269	1.00	0.00	H
ATOM	3745	HE	ARG A 589	41.225	-26.729	-29.639	1.00	0.00	H
ATOM	3746	1HH1	ARG A 589	42.465	-29.941	-30.188	1.00	0.00	H
ATOM	3747	2HH1	ARG A 589	41.449	-30.643	-28.950	1.00	0.00	H
ATOM	3748	1HH2	ARG A 589	40.008	-27.600	-28.161	1.00	0.00	H
ATOM	3749	2HH2	ARG A 589	40.035	-29.314	-27.790	1.00	0.00	H
ATOM	3750	N	PRO A 590	38.705	-24.627	-31.070	1.00	26.11	N
ATOM	3751	CA	PRO A 590	38.286	-24.243	-29.730	1.00	25.90	C
ATOM	3752	C	PRO A 590	39.253	-24.707	-28.634	1.00	25.71	C
ATOM	3753	O	PRO A 590	39.733	-25.847	-28.656	1.00	25.80	O
ATOM	3754	CB	PRO A 590	36.887	-24.833	-29.540	1.00	26.07	C
ATOM	3755	CG	PRO A 590	36.346	-24.948	-30.960	1.00	26.35	C
ATOM	3756	CD	PRO A 590	37.601	-25.271	-31.765	1.00	26.39	C
ATOM	3757	N	LYS A 591	39.444	-23.868	-27.615	1.00	25.46	N
ATOM	3758	CA	LYS A 591	40.323	-24.111	-26.461	1.00	25.26	C
ATOM	3759	C	LYS A 591	39.483	-24.012	-25.177	1.00	25.15	C

ATOM	3760	O	LYS A 591	38.646	-23.117	-25.046	1.00	25.18	O
ATOM	3761	CB	LYS A 591	41.543	-23.149	-26.503	1.00	25.06	C
ATOM	3762	CG	LYS A 591	42.323	-23.218	-27.840	1.00	25.19	C
ATOM	3763	CD	LYS A 591	43.554	-22.292	-27.974	1.00	25.02	C
ATOM	3764	CE	LYS A 591	43.984	-22.263	-29.456	1.00	25.17	C
ATOM	3765	NZ	LYS A 591	45.116	-21.350	-29.753	1.00	25.02	N1+
ATOM	3766	H	LYS A 591	38.938	-22.985	-27.638	1.00	0.00	H
ATOM	3767	HZ1	LYS A 591	45.355	-21.372	-30.749	1.00	0.00	H
ATOM	3768	HZ2	LYS A 591	44.950	-20.363	-29.541	1.00	0.00	H
ATOM	3769	HZ3	LYS A 591	45.995	-21.528	-29.278	1.00	0.00	H
ATOM	3770	N	LEU A 592	39.510	-25.070	-24.363	1.00	25.04	N
ATOM	3771	CA	LEU A 592	38.758	-25.163	-23.103	1.00	24.93	C
ATOM	3772	C	LEU A 592	39.537	-24.504	-21.960	1.00	24.62	C
ATOM	3773	O	LEU A 592	40.650	-24.934	-21.652	1.00	24.49	O
ATOM	3774	CB	LEU A 592	38.483	-26.636	-22.747	1.00	25.04	C
ATOM	3775	CG	LEU A 592	37.369	-27.324	-23.547	1.00	25.31	C
ATOM	3776	CD1	LEU A 592	37.495	-28.842	-23.407	1.00	25.46	C
ATOM	3777	CD2	LEU A 592	35.992	-26.919	-23.016	1.00	25.25	C
ATOM	3778	H	LEU A 592	40.160	-25.814	-24.582	1.00	0.00	H
ATOM	3779	N	PHE A 593	38.858	-23.665	-21.182	1.00	24.52	N
ATOM	3780	CA	PHE A 593	39.402	-23.004	-19.998	1.00	24.25	C
ATOM	3781	C	PHE A 593	38.589	-23.365	-18.750	1.00	24.15	C
ATOM	3782	O	PHE A 593	37.381	-23.135	-18.698	1.00	24.24	O
ATOM	3783	CB	PHE A 593	39.443	-21.485	-20.222	1.00	24.18	C
ATOM	3784	CG	PHE A 593	40.314	-21.040	-21.385	1.00	24.24	C
ATOM	3785	CD1	PHE A 593	41.638	-20.616	-21.158	1.00	24.07	C
ATOM	3786	CD2	PHE A 593	39.789	-21.012	-22.692	1.00	24.47	C

ATOM	3787	CE1 PHE A 593	42.424	-20.152	-22.228	1.00	24.15	C
ATOM	3788	CE2 PHE A 593	40.578	-20.555	-23.762	1.00	24.53	C
ATOM	3789	CZ PHE A 593	41.894	-20.119	-23.530	1.00	24.38	C
ATOM	3790	H PHE A 593	37.923	-23.388	-21.468	1.00	0.00	H
ATOM	3791	N ALA A 594	39.261	-23.851	-17.708	1.00	23.97	N
ATOM	3792	CA ALA A 594	38.684	-24.025	-16.378	1.00	23.82	C
ATOM	3793	C ALA A 594	38.946	-22.784	-15.510	1.00	23.65	C
ATOM	3794	O ALA A 594	40.083	-22.312	-15.401	1.00	23.62	O
ATOM	3795	CB ALA A 594	39.237	-25.317	-15.764	1.00	23.65	C
ATOM	3796	H ALA A 594	40.266	-23.955	-17.799	1.00	0.00	H
ATOM	3797	N VAL A 595	37.915	-22.295	-14.817	1.00	23.58	N
ATOM	3798	CA VAL A 595	37.955	-21.059	-14.023	1.00	23.42	C
ATOM	3799	C VAL A 595	37.324	-21.284	-12.649	1.00	23.31	C
ATOM	3800	O VAL A 595	36.104	-21.292	-12.494	1.00	23.45	O
ATOM	3801	CB VAL A 595	37.279	-19.888	-14.772	1.00	23.57	C
ATOM	3802	CG1 VAL A 595	37.432	-18.581	-13.980	1.00	23.50	C
ATOM	3803	CG2 VAL A 595	37.892	-19.675	-16.162	1.00	23.58	C
ATOM	3804	H VAL A 595	37.001	-22.710	-14.988	1.00	0.00	H
ATOM	3805	N LYS A 596	38.160	-21.395	-11.612	1.00	23.05	N
ATOM	3806	CA LYS A 596	37.708	-21.398	-10.214	1.00	22.94	C
ATOM	3807	C LYS A 596	37.272	-19.984	-9.827	1.00	22.97	C
ATOM	3808	O LYS A 596	38.136	-19.117	-9.663	1.00	22.96	O
ATOM	3809	CB LYS A 596	38.837	-21.910	-9.306	1.00	22.65	C
ATOM	3810	CG LYS A 596	38.355	-22.085	-7.853	1.00	22.52	C
ATOM	3811	CD LYS A 596	39.454	-21.895	-6.795	1.00	22.26	C
ATOM	3812	CE LYS A 596	40.247	-20.574	-6.872	1.00	22.06	C
ATOM	3813	NZ LYS A 596	39.403	-19.388	-7.178	1.00	21.94	N1+

ATOM	3814	H	LYS A 596	39.149	-21.439	-11.805	1.00	0.00	H
ATOM	3815	HZ1	LYS A 596	39.901	-18.520	-7.033	1.00	0.00	H
ATOM	3816	HZ2	LYS A 596	39.105	-19.392	-8.153	1.00	0.00	H
ATOM	3817	HZ3	LYS A 596	38.534	-19.393	-6.650	1.00	0.00	H
ATOM	3818	N	ILE A 597	36.023	-19.817	-9.404	1.00	27.88	N
ATOM	3819	CA	ILE A 597	35.492	-18.542	-8.896	1.00	27.91	C
ATOM	3820	C	ILE A 597	36.153	-18.149	-7.549	1.00	27.66	C
ATOM	3821	O	ILE A 597	36.655	-19.019	-6.823	1.00	27.53	O
ATOM	3822	CB	ILE A 597	33.949	-18.638	-8.842	1.00	28.14	C
ATOM	3823	CG1	ILE A 597	33.322	-18.816	-10.249	1.00	28.39	C
ATOM	3824	CG2	ILE A 597	33.250	-17.485	-8.104	1.00	28.13	C
ATOM	3825	CD1	ILE A 597	33.636	-17.720	-11.281	1.00	28.37	C
ATOM	3826	H	ILE A 597	35.406	-20.624	-9.400	1.00	0.00	H
ATOM	3827	N	PRO A 598	36.334	-16.849	-7.234	1.00	22.73	N
ATOM	3828	CA	PRO A 598	37.074	-16.429	-6.043	1.00	22.49	C
ATOM	3829	C	PRO A 598	36.364	-16.782	-4.730	1.00	22.50	C
ATOM	3830	O	PRO A 598	35.196	-16.439	-4.533	1.00	22.72	O
ATOM	3831	CB	PRO A 598	37.262	-14.919	-6.169	1.00	22.53	C
ATOM	3832	CG	PRO A 598	37.105	-14.661	-7.664	1.00	22.72	C
ATOM	3833	CD	PRO A 598	36.056	-15.684	-8.064	1.00	22.86	C
ATOM	3834	N	ALA A 599	37.124	-17.283	-3.752	1.00	51.52	N
ATOM	3835	CA	ALA A 599	36.645	-17.460	-2.380	1.00	51.48	C
ATOM	3836	C	ALA A 599	36.486	-16.114	-1.646	1.00	51.51	C
ATOM	3837	O	ALA A 599	35.415	-15.854	-1.093	1.00	51.74	O
ATOM	3838	CB	ALA A 599	37.609	-18.396	-1.641	1.00	51.20	C
ATOM	3839	H	ALA A 599	38.092	-17.485	-3.943	1.00	0.00	H
ATOM	3840	N	GLN A 600	37.464	-15.219	-1.819	1.00	22.03	N



ATOM	3841	CA	GLN A 600	37.531	-13.847	-1.299	1.00	22.07	C
ATOM	3842	C	GLN A 600	37.956	-12.869	-2.408	1.00	22.26	C
ATOM	3843	O	GLN A 600	38.484	-13.291	-3.435	1.00	22.27	O
ATOM	3844	CB	GLN A 600	38.543	-13.777	-0.135	1.00	21.78	C
ATOM	3845	CG	GLN A 600	38.166	-14.568	1.130	1.00	21.59	C
ATOM	3846	CD	GLN A 600	37.017	-13.948	1.924	1.00	21.49	C
ATOM	3847	OE1	GLN A 600	36.178	-13.225	1.415	1.00	21.31	O
ATOM	3848	NE2	GLN A 600	36.925	-14.213	3.207	1.00	21.62	N
ATOM	3849	H	GLN A 600	38.250	-15.493	-2.391	1.00	0.00	H
ATOM	3850	1HE2	GLN A 600	37.627	-14.756	3.675	1.00	0.00	H
ATOM	3851	2HE2	GLN A 600	36.191	-13.739	3.704	1.00	0.00	H
ATOM	3852	N	CYS A 601	37.772	-11.566	-2.191	1.00	42.68	N
ATOM	3853	CA	CYS A 601	38.159	-10.496	-3.125	1.00	42.85	C
ATOM	3854	C	CYS A 601	39.631	-10.045	-2.981	1.00	42.70	C
ATOM	3855	O	CYS A 601	39.887	-8.853	-2.844	1.00	42.84	O
ATOM	3856	CB	CYS A 601	37.187	-9.321	-2.957	1.00	43.15	C
ATOM	3857	SG	CYS A 601	35.435	-9.738	-3.106	1.00	43.37	S
ATOM	3858	H	CYS A 601	37.355	-11.281	-1.317	1.00	0.00	H
ATOM	3859	N	SER A 602	40.534	-11.001	-2.749	1.00	26.10	N
ATOM	3860	CA	SER A 602	41.901	-10.772	-2.258	1.00	25.93	C
ATOM	3861	C	SER A 602	42.910	-10.475	-3.391	1.00	25.95	C
ATOM	3862	O	SER A 602	42.968	-9.329	-3.838	1.00	26.14	O
ATOM	3863	CB	SER A 602	42.249	-11.915	-1.295	1.00	25.61	C
ATOM	3864	OG	SER A 602	43.589	-11.928	-0.882	1.00	25.48	O
ATOM	3865	H	SER A 602	40.257	-11.957	-2.913	1.00	0.00	H
ATOM	3866	HG	SER A 602	44.011	-12.649	-1.406	1.00	0.00	H
ATOM	3867	N	GLU A 603	43.591	-11.479	-3.961	1.00	29.34	N

ATOM	3868	CA	GLU A 603	44.657	-11.334	-4.988	1.00	29.44	C
ATOM	3869	C	GLU A 603	44.332	-11.947	-6.357	1.00	29.48	C
ATOM	3870	O	GLU A 603	44.816	-11.410	-7.383	1.00	29.30	O
ATOM	3871	CB	GLU A 603	46.038	-11.811	-4.466	1.00	29.25	C
ATOM	3872	CG	GLU A 603	46.126	-12.750	-3.244	1.00	29.06	C
ATOM	3873	CD	GLU A 603	45.186	-13.971	-3.281	1.00	28.76	C
ATOM	3874	OE1	GLU A 603	45.598	-15.037	-3.796	1.00	28.62	O
ATOM	3875	OE2	GLU A 603	44.157	-13.899	-2.558	1.00	28.68	O
ATOM	3876	OXT	GLU A 603	43.919	-13.121	-6.402	1.00	0.00	O
ATOM	3877	H	GLU A 603	43.492	-12.407	-3.555	1.00	0.00	H
TER	3878		GLU A 603						
ATOM	3879	N	ILE B 31	49.221	-5.258	-37.647	1.00	50.96	N1+
ATOM	3880	CA	ILE B 31	49.286	-3.776	-37.451	1.00	51.06	C
ATOM	3881	C	ILE B 31	47.926	-3.173	-37.787	1.00	51.06	C
ATOM	3882	O	ILE B 31	47.183	-3.729	-38.600	1.00	51.05	O
ATOM	3883	CB	ILE B 31	50.336	-3.112	-38.395	1.00	51.29	C
ATOM	3884	CG1	ILE B 31	51.758	-3.536	-38.028	1.00	51.33	C
ATOM	3885	CG2	ILE B 31	50.208	-1.546	-38.391	1.00	51.44	C
ATOM	3886	CD1	ILE B 31	52.608	-2.386	-37.518	1.00	51.46	C
ATOM	3887	N	VAL B 32	47.623	-2.030	-37.167	1.00	33.20	N
ATOM	3888	CA	VAL B 32	46.446	-1.238	-37.480	1.00	33.25	C
ATOM	3889	C	VAL B 32	46.813	-0.295	-38.611	1.00	33.47	C
ATOM	3890	O	VAL B 32	47.472	0.727	-38.365	1.00	33.61	O
ATOM	3891	CB	VAL B 32	46.005	-0.420	-36.211	1.00	33.21	C
ATOM	3892	CG1	VAL B 32	44.722	0.371	-36.465	1.00	33.26	C
ATOM	3893	CG2	VAL B 32	45.851	-1.363	-35.004	1.00	32.99	C
ATOM	3894	N	LEU B 33	46.383	-0.632	-39.831	1.00	26.95	N

ATOM	3895	CA	LEU B 33	46.721	0.160	-41.038	1.00	27.15	C
ATOM	3896	C	LEU B 33	45.926	1.448	-41.050	1.00	27.24	C
ATOM	3897	O	LEU B 33	45.022	1.643	-40.202	1.00	27.15	O
ATOM	3898	CB	LEU B 33	46.438	-0.587	-42.333	1.00	27.16	C
ATOM	3899	CG	LEU B 33	46.835	-2.031	-42.184	1.00	27.05	C
ATOM	3900	CD1	LEU B 33	46.549	-2.702	-43.470	1.00	27.10	C
ATOM	3901	CD2	LEU B 33	48.295	-2.169	-41.717	1.00	27.11	C
ATOM	3902	N	GLU B 34	46.260	2.312	-42.020	1.00	36.14	N
ATOM	3903	CA	GLU B 34	45.668	3.660	-42.136	1.00	36.28	C
ATOM	3904	C	GLU B 34	44.172	3.679	-42.510	1.00	36.20	C
ATOM	3905	O	GLU B 34	43.845	3.369	-43.682	1.00	36.20	O
ATOM	3906	CB	GLU B 34	46.409	4.502	-43.171	1.00	36.52	C
ATOM	3907	CG	GLU B 34	45.752	5.863	-43.333	1.00	36.67	C
ATOM	3908	CD	GLU B 34	46.491	6.793	-44.246	1.00	36.93	C
ATOM	3909	OE1	GLU B 34	45.966	7.901	-44.469	1.00	37.08	O
ATOM	3910	OE2	GLU B 34	47.576	6.437	-44.744	1.00	37.01	O
ATOM	3911	N	PRO B 35	43.281	4.088	-41.532	1.00	27.44	N
ATOM	3912	CA	PRO B 35	41.828	4.229	-41.798	1.00	27.39	C
ATOM	3913	C	PRO B 35	41.502	4.773	-43.219	1.00	27.51	C
ATOM	3914	O	PRO B 35	42.136	5.734	-43.692	1.00	27.70	O
ATOM	3915	CB	PRO B 35	41.354	5.183	-40.679	1.00	27.45	C
ATOM	3916	CG	PRO B 35	42.261	4.907	-39.560	1.00	27.40	C
ATOM	3917	CD	PRO B 35	43.587	4.443	-40.123	1.00	27.43	C
ATOM	3918	N	ILE B 36	40.555	4.137	-43.904	1.00	33.35	N
ATOM	3919	CA	ILE B 36	40.287	4.524	-45.294	1.00	33.44	C
ATOM	3920	C	ILE B 36	38.923	5.196	-45.428	1.00	33.45	C
ATOM	3921	O	ILE B 36	37.874	4.578	-45.228	1.00	33.32	O

ATOM	3922	CB	ILE B 36	40.453	3.380	-46.337	1.00	33.36	C
ATOM	3923	CG1	ILE B 36	41.890	2.840	-46.303	1.00	33.39	C
ATOM	3924	CG2	ILE B 36	40.124	3.930	-47.746	1.00	33.45	C
ATOM	3925	CD1	ILE B 36	42.121	1.644	-47.180	1.00	33.34	C
ATOM	3926	N	TYR B 37	38.956	6.467	-45.789	1.00	32.53	N
ATOM	3927	CA	TYR B 37	37.753	7.260	-45.795	1.00	32.58	C
ATOM	3928	C	TYR B 37	37.085	7.074	-47.144	1.00	32.55	C
ATOM	3929	O	TYR B 37	37.670	7.404	-48.220	1.00	32.64	O
ATOM	3930	CB	TYR B 37	38.076	8.723	-45.537	1.00	32.82	C
ATOM	3931	CG	TYR B 37	38.590	8.984	-44.142	1.00	32.86	C
ATOM	3932	CD1	TYR B 37	37.821	9.718	-43.239	1.00	32.94	C
ATOM	3933	CD2	TYR B 37	39.841	8.494	-43.709	1.00	32.84	C
ATOM	3934	CE1	TYR B 37	38.268	9.983	-41.938	1.00	33.00	C
ATOM	3935	CE2	TYR B 37	40.302	8.738	-42.398	1.00	32.88	C
ATOM	3936	CZ	TYR B 37	39.504	9.499	-41.514	1.00	32.96	C
ATOM	3937	OH	TYR B 37	39.896	9.795	-40.210	1.00	33.01	O
ATOM	3938	N	TRP B 38	35.878	6.510	-47.097	1.00	27.57	N
ATOM	3939	CA	TRP B 38	35.093	6.315	-48.302	1.00	27.53	C
ATOM	3940	C	TRP B 38	34.406	7.614	-48.565	1.00	27.67	C
ATOM	3941	O	TRP B 38	33.454	7.969	-47.871	1.00	27.68	O
ATOM	3942	CB	TRP B 38	34.084	5.211	-48.140	1.00	27.37	C
ATOM	3943	CG	TRP B 38	33.455	4.871	-49.413	1.00	27.33	C
ATOM	3944	CD1	TRP B 38	32.468	5.548	-50.005	1.00	27.37	C
ATOM	3945	CD2	TRP B 38	33.768	3.756	-50.276	1.00	27.25	C
ATOM	3946	NE1	TRP B 38	32.124	4.949	-51.190	1.00	27.31	N
ATOM	3947	CE2	TRP B 38	32.904	3.843	-51.385	1.00	27.24	C
ATOM	3948	CE3	TRP B 38	34.683	2.694	-50.209	1.00	27.20	C

ATOM	3949	CZ2 TRP B	38	32.914	2.918	-52.435	1.00	27.19	C
ATOM	3950	CZ3 TRP B	38	34.700	1.777	-51.239	1.00	27.16	C
ATOM	3951	CH2 TRP B	38	33.808	1.896	-52.349	1.00	27.16	C
ATOM	3952	N ASN B	39	34.935	8.324	-49.565	1.00	27.79	N
ATOM	3953	CA ASN B	39	34.608	9.731	-49.861	1.00	27.97	C
ATOM	3954	C ASN B	39	35.036	10.078	-51.309	1.00	28.03	C
ATOM	3955	O ASN B	39	35.979	9.479	-51.831	1.00	28.00	O
ATOM	3956	CB ASN B	39	35.345	10.612	-48.854	1.00	28.14	C
ATOM	3957	CG ASN B	39	34.580	11.799	-48.494	1.00	28.30	C
ATOM	3958	OD1 ASN B	39	33.433	11.930	-48.871	1.00	28.27	O
ATOM	3959	ND2 ASN B	39	35.197	12.688	-47.746	1.00	28.50	N
ATOM	3960	N SER B	40	34.374	11.024	-51.966	1.00	28.13	N
ATOM	3961	CA SER B	40	34.701	11.300	-53.377	1.00	28.17	C
ATOM	3962	C SER B	40	36.033	11.980	-53.531	1.00	28.37	C
ATOM	3963	O SER B	40	36.599	12.003	-54.621	1.00	28.41	O
ATOM	3964	CB SER B	40	33.688	12.245	-53.993	1.00	28.24	C
ATOM	3965	OG SER B	40	33.741	13.474	-53.299	1.00	28.46	O
ATOM	3966	N SER B	41	36.480	12.578	-52.431	1.00	28.51	N
ATOM	3967	CA SER B	41	37.696	13.392	-52.364	1.00	28.75	C
ATOM	3968	C SER B	41	38.971	12.588	-52.276	1.00	28.72	C
ATOM	3969	O SER B	41	40.064	13.090	-52.603	1.00	28.91	O
ATOM	3970	CB SER B	41	37.637	14.268	-51.105	1.00	28.92	C
ATOM	3971	OG SER B	41	37.350	13.467	-49.970	1.00	28.75	O
ATOM	3972	N ASN B	42	38.826	11.351	-51.808	1.00	69.62	N
ATOM	3973	CA ASN B	42	39.988	10.553	-51.394	1.00	69.59	C
ATOM	3974	C ASN B	42	40.954	10.192	-52.569	1.00	69.64	C
ATOM	3975	O ASN B	42	40.805	9.167	-53.271	1.00	69.49	O

ATOM	3976	CB	ASN	B	42	39.546	9.314	-50.548	1.00	69.35	C
ATOM	3977	CG	ASN	B	42	40.695	8.728	-49.685	1.00	69.34	C
ATOM	3978	OD1	ASN	B	42	41.878	9.081	-49.873	1.00	69.50	O
ATOM	3979	ND2	ASN	B	42	40.342	7.821	-48.742	1.00	69.16	N
ATOM	3980	N	SER	B	43	41.915	11.102	-52.757	1.00	37.97	N
ATOM	3981	CA	SER	B	43	43.149	10.912	-53.539	1.00	38.10	C
ATOM	3982	C	SER	B	43	43.836	9.539	-53.531	1.00	37.97	C
ATOM	3983	O	SER	B	43	44.881	9.398	-54.157	1.00	38.09	O
ATOM	3984	CB	SER	B	43	44.213	11.921	-53.050	1.00	38.38	C
ATOM	3985	OG	SER	B	43	43.850	13.290	-53.303	1.00	38.58	O
ATOM	3986	N	LYS	B	44	43.320	8.560	-52.782	1.00	28.53	N
ATOM	3987	CA	LYS	B	44	43.884	7.192	-52.785	1.00	28.41	C
ATOM	3988	C	LYS	B	44	43.153	6.300	-53.782	1.00	28.26	C
ATOM	3989	O	LYS	B	44	43.718	5.332	-54.260	1.00	28.24	O
ATOM	3990	CB	LYS	B	44	43.857	6.565	-51.384	1.00	28.28	C
ATOM	3991	CG	LYS	B	44	45.026	6.978	-50.481	1.00	28.42	C
ATOM	3992	CD	LYS	B	44	45.298	5.906	-49.388	1.00	28.25	C
ATOM	3993	CE	LYS	B	44	46.060	6.460	-48.187	1.00	28.35	C
ATOM	3994	NZ	LYS	B	44	45.178	7.321	-47.339	1.00	28.34	N1+
ATOM	3995	N	PHE	B	45	41.888	6.615	-54.063	1.00	30.56	N
ATOM	3996	CA	PHE	B	45	41.142	5.924	-55.118	1.00	30.45	C
ATOM	3997	C	PHE	B	45	41.637	6.438	-56.463	1.00	30.59	C
ATOM	3998	O	PHE	B	45	41.175	7.443	-57.019	1.00	30.66	O
ATOM	3999	CB	PHE	B	45	39.628	6.107	-54.969	1.00	30.31	C
ATOM	4000	CG	PHE	B	45	39.047	5.411	-53.759	1.00	30.16	C
ATOM	4001	CD1	PHE	B	45	38.600	4.094	-53.849	1.00	30.01	C
ATOM	4002	CD2	PHE	B	45	38.941	6.075	-52.536	1.00	30.19	C

ATOM	4003	CE1 PHE B	45	38.069	3.455	-52.752	1.00	29.89	C
ATOM	4004	CE2 PHE B	45	38.398	5.429	-51.417	1.00	30.05	C
ATOM	4005	CZ PHE B	45	37.971	4.128	-51.528	1.00	29.90	C
ATOM	4006	N LEU B	46	42.612	5.731	-56.971	1.00	28.27	N
ATOM	4007	CA LEU B	46	43.269	6.144	-58.174	1.00	28.43	C
ATOM	4008	C LEU B	46	42.418	5.659	-59.331	1.00	28.32	C
ATOM	4009	O LEU B	46	41.747	4.638	-59.229	1.00	28.16	O
ATOM	4010	CB LEU B	46	44.688	5.592	-58.180	1.00	28.56	C
ATOM	4011	CG LEU B	46	45.358	5.882	-56.825	1.00	28.62	C
ATOM	4012	CD1 LEU B	46	46.769	5.282	-56.665	1.00	28.74	C
ATOM	4013	CD2 LEU B	46	45.334	7.382	-56.580	1.00	28.77	C
ATOM	4014	N PRO B	47	42.473	6.374	-60.455	1.00	50.87	N
ATOM	4015	CA PRO B	47	41.393	6.378	-61.454	1.00	50.76	C
ATOM	4016	C PRO B	47	41.316	5.105	-62.288	1.00	50.68	C
ATOM	4017	O PRO B	47	40.215	4.694	-62.685	1.00	50.53	O
ATOM	4018	CB PRO B	47	41.777	7.554	-62.367	1.00	50.93	C
ATOM	4019	CG PRO B	47	43.281	7.564	-62.319	1.00	51.14	C
ATOM	4020	CD PRO B	47	43.639	7.157	-60.904	1.00	51.11	C
ATOM	4021	N GLY B	48	42.477	4.509	-62.555	1.00	28.37	N
ATOM	4022	CA GLY B	48	42.559	3.243	-63.269	1.00	28.35	C
ATOM	4023	C GLY B	48	42.433	2.024	-62.358	1.00	28.24	C
ATOM	4024	O GLY B	48	41.724	1.067	-62.689	1.00	28.14	O
ATOM	4025	N GLN B	49	43.114	2.043	-61.214	1.00	28.27	N
ATOM	4026	CA GLN B	49	43.201	0.844	-60.369	1.00	28.19	C
ATOM	4027	C GLN B	49	42.697	1.049	-58.918	1.00	28.06	C
ATOM	4028	O GLN B	49	43.001	0.257	-58.005	1.00	28.01	O
ATOM	4029	CB GLN B	49	44.639	0.307	-60.399	1.00	28.36	C

ATOM	4030	CG	GLN B	49	45.655	1.209	-59.673	1.00	28.48	C
ATOM	4031	CD	GLN B	49	46.786	1.714	-60.577	1.00	28.73	C
ATOM	4032	OE1	GLN B	49	47.735	0.974	-60.930	1.00	28.86	O
ATOM	4033	NE2	GLN B	49	46.692	2.996	-60.949	1.00	28.80	N
ATOM	4034	N	GLY B	50	41.921	2.109	-58.714	1.00	28.01	N
ATOM	4035	CA	GLY B	50	41.274	2.334	-57.428	1.00	27.89	C
ATOM	4036	C	GLY B	50	42.292	2.429	-56.317	1.00	27.95	C
ATOM	4037	O	GLY B	50	43.433	2.763	-56.582	1.00	28.11	O
ATOM	4038	N	LEU B	51	41.878	2.136	-55.083	1.00	27.82	N
ATOM	4039	CA	LEU B	51	42.781	2.102	-53.932	1.00	27.85	C
ATOM	4040	C	LEU B	51	43.190	0.660	-53.795	1.00	27.80	C
ATOM	4041	O	LEU B	51	42.336	-0.192	-53.500	1.00	27.65	O
ATOM	4042	CB	LEU B	51	42.072	2.579	-52.647	1.00	27.75	C
ATOM	4043	CG	LEU B	51	42.863	2.902	-51.368	1.00	27.79	C
ATOM	4044	CD1	LEU B	51	41.990	3.760	-50.479	1.00	27.75	C
ATOM	4045	CD2	LEU B	51	43.330	1.685	-50.606	1.00	27.69	C
ATOM	4046	N	VAL B	52	44.471	0.373	-54.053	1.00	37.58	N
ATOM	4047	CA	VAL B	52	45.048	-0.957	-53.747	1.00	37.55	C
ATOM	4048	C	VAL B	52	45.842	-0.904	-52.419	1.00	37.54	C
ATOM	4049	O	VAL B	52	46.563	0.084	-52.140	1.00	37.65	O
ATOM	4050	CB	VAL B	52	45.887	-1.505	-54.900	1.00	37.71	C
ATOM	4051	CG1	VAL B	52	46.605	-2.775	-54.467	1.00	37.72	C
ATOM	4052	CG2	VAL B	52	44.973	-1.766	-56.111	1.00	37.69	C
ATOM	4053	N	LEU B	53	45.684	-1.946	-51.599	1.00	27.76	N
ATOM	4054	CA	LEU B	53	46.359	-2.010	-50.321	1.00	27.72	C
ATOM	4055	C	LEU B	53	46.774	-3.471	-50.061	1.00	27.68	C
ATOM	4056	O	LEU B	53	46.086	-4.409	-50.489	1.00	27.62	O



ATOM	4057	CB	LEU B 53	45.438	-1.415	-49.242	1.00	27.58	C
ATOM	4058	CG	LEU B 53	45.867	-1.413	-47.764	1.00	27.50	C
ATOM	4059	CD1	LEU B 53	47.116	-0.570	-47.566	1.00	27.65	C
ATOM	4060	CD2	LEU B 53	44.726	-0.864	-46.960	1.00	27.37	C
ATOM	4061	N	TYR B 54	47.907	-3.648	-49.376	1.00	29.37	N
ATOM	4062	CA	TYR B 54	48.516	-4.965	-49.157	1.00	29.36	C
ATOM	4063	C	TYR B 54	48.367	-5.461	-47.713	1.00	29.18	C
ATOM	4064	O	TYR B 54	49.374	-5.643	-47.037	1.00	29.20	O
ATOM	4065	CB	TYR B 54	50.041	-4.925	-49.482	1.00	29.57	C
ATOM	4066	CG	TYR B 54	50.475	-4.506	-50.908	1.00	29.78	C
ATOM	4067	CD1	TYR B 54	49.552	-4.437	-51.969	1.00	29.79	C
ATOM	4068	CD2	TYR B 54	51.819	-4.197	-51.189	1.00	30.00	C
ATOM	4069	CE1	TYR B 54	49.935	-4.046	-53.233	1.00	29.98	C
ATOM	4070	CE2	TYR B 54	52.208	-3.808	-52.467	1.00	30.21	C
ATOM	4071	CZ	TYR B 54	51.255	-3.743	-53.483	1.00	30.19	C
ATOM	4072	OH	TYR B 54	51.592	-3.390	-54.776	1.00	30.38	O
ATOM	4073	N	PRO B 55	47.132	-5.692	-47.210	1.00	37.09	N
ATOM	4074	CA	PRO B 55	47.173	-6.055	-45.778	1.00	36.93	C
ATOM	4075	C	PRO B 55	47.896	-7.383	-45.593	1.00	36.94	C
ATOM	4076	O	PRO B 55	48.082	-8.150	-46.567	1.00	37.06	O
ATOM	4077	CB	PRO B 55	45.699	-6.151	-45.360	1.00	36.78	C
ATOM	4078	CG	PRO B 55	44.907	-6.272	-46.628	1.00	36.84	C
ATOM	4079	CD	PRO B 55	45.760	-5.692	-47.758	1.00	37.03	C
ATOM	4080	N	GLN B 56	48.352	-7.624	-44.372	1.00	27.12	N
ATOM	4081	CA	GLN B 56	48.898	-8.924	-44.003	1.00	27.10	C
ATOM	4082	C	GLN B 56	47.963	-9.541	-43.000	1.00	26.90	C
ATOM	4083	O	GLN B 56	47.247	-8.804	-42.303	1.00	26.78	O

ATOM	4084	CB	GLN	B	56	50.299	-8.786	-43.405	1.00	27.14	C
ATOM	4085	CG	GLN	B	56	51.379	-8.392	-44.404	1.00	27.37	C
ATOM	4086	CD	GLN	B	56	51.463	-9.353	-45.558	1.00	27.52	C
ATOM	4087	OE1	GLN	B	56	51.285	-8.967	-46.723	1.00	27.66	O
ATOM	4088	NE2	GLN	B	56	51.774	-10.615	-45.249	1.00	27.52	N
ATOM	4089	N	ILE	B	57	47.947	-10.878	-42.927	1.00	26.90	N
ATOM	4090	CA	ILE	B	57	47.113	-11.560	-41.912	1.00	26.72	C
ATOM	4091	C	ILE	B	57	47.480	-11.069	-40.484	1.00	26.56	C
ATOM	4092	O	ILE	B	57	48.656	-11.017	-40.100	1.00	26.58	O
ATOM	4093	CB	ILE	B	57	47.176	-13.112	-41.961	1.00	26.77	C
ATOM	4094	CG1	ILE	B	57	46.622	-13.660	-43.268	1.00	26.93	C
ATOM	4095	CG2	ILE	B	57	46.361	-13.718	-40.797	1.00	26.59	C
ATOM	4096	CD1	ILE	B	57	45.126	-13.717	-43.302	1.00	26.86	C
ATOM	4097	N	GLY	B	58	46.460	-10.688	-39.720	1.00	42.67	N
ATOM	4098	CA	GLY	B	58	46.659	-10.070	-38.412	1.00	42.53	C
ATOM	4099	C	GLY	B	58	46.482	-8.542	-38.365	1.00	42.55	C
ATOM	4100	O	GLY	B	58	46.496	-7.915	-37.274	1.00	42.45	O
ATOM	4101	N	ASP	B	59	46.328	-7.920	-39.532	1.00	51.40	N
ATOM	4102	CA	ASP	B	59	46.115	-6.469	-39.567	1.00	51.44	C
ATOM	4103	C	ASP	B	59	44.653	-6.144	-39.234	1.00	51.36	C
ATOM	4104	O	ASP	B	59	43.812	-7.052	-39.115	1.00	51.28	O
ATOM	4105	CB	ASP	B	59	46.486	-5.882	-40.937	1.00	51.63	C
ATOM	4106	CG	ASP	B	59	47.870	-6.294	-41.395	1.00	51.75	C
ATOM	4107	OD1	ASP	B	59	48.540	-7.040	-40.653	1.00	51.68	O
ATOM	4108	OD2	ASP	B	59	48.282	-5.901	-42.511	1.00	51.92	O
ATOM	4109	N	LYS	B	60	44.362	-4.857	-39.059	1.00	26.43	N
ATOM	4110	CA	LYS	B	60	42.987	-4.387	-39.003	1.00	26.41	C

ATOM	4111	C	LYS B 60	42.851	-3.002	-39.667	1.00	26.55	C
ATOM	4112	O	LYS B 60	43.737	-2.141	-39.556	1.00	26.64	O
ATOM	4113	CB	LYS B 60	42.464	-4.379	-37.561	1.00	26.27	C
ATOM	4114	CG	LYS B 60	43.426	-3.754	-36.557	1.00	26.26	C
ATOM	4115	CD	LYS B 60	42.775	-3.472	-35.243	1.00	26.15	C
ATOM	4116	CE	LYS B 60	42.503	-4.747	-34.458	1.00	25.98	C
ATOM	4117	NZ	LYS B 60	41.463	-4.561	-33.413	1.00	25.90	N1+
ATOM	4118	N	LEU B 61	41.711	-2.812	-40.336	1.00	26.57	N
ATOM	4119	CA	LEU B 61	41.493	-1.716	-41.269	1.00	26.71	C
ATOM	4120	C	LEU B 61	40.137	-1.129	-41.043	1.00	26.70	C
ATOM	4121	O	LEU B 61	39.152	-1.865	-41.044	1.00	26.62	O
ATOM	4122	CB	LEU B 61	41.527	-2.225	-42.730	1.00	26.78	C
ATOM	4123	CG	LEU B 61	41.606	-1.143	-43.837	1.00	26.93	C
ATOM	4124	CD1	LEU B 61	43.054	-0.696	-43.896	1.00	27.05	C
ATOM	4125	CD2	LEU B 61	41.119	-1.565	-45.232	1.00	26.97	C
ATOM	4126	N	ASP B 62	40.079	0.187	-40.881	1.00	26.81	N
ATOM	4127	CA	ASP B 62	38.803	0.887	-40.796	1.00	26.83	C
ATOM	4128	C	ASP B 62	38.449	1.432	-42.205	1.00	26.95	C
ATOM	4129	O	ASP B 62	39.273	2.054	-42.890	1.00	27.07	O
ATOM	4130	CB	ASP B 62	38.846	2.025	-39.745	1.00	26.91	C
ATOM	4131	CG	ASP B 62	38.912	1.518	-38.245	1.00	26.78	C
ATOM	4132	OD1	ASP B 62	39.049	0.306	-37.950	1.00	26.63	O
ATOM	4133	OD2	ASP B 62	38.821	2.372	-37.328	1.00	26.84	O
ATOM	4134	N	ILE B 63	37.222	1.170	-42.650	1.00	37.00	N
ATOM	4135	CA	ILE B 63	36.613	1.959	-43.755	1.00	37.11	C
ATOM	4136	C	ILE B 63	35.496	2.855	-43.161	1.00	37.15	C
ATOM	4137	O	ILE B 63	34.620	2.374	-42.405	1.00	37.07	O

ATOM	4138	CB	ILE B 63	36.097	1.090	-44.922	1.00	37.06	C
ATOM	4139	CG1	ILE B 63	37.235	0.886	-45.947	1.00	37.11	C
ATOM	4140	CG2	ILE B 63	34.865	1.734	-45.559	1.00	37.11	C
ATOM	4141	CD1	ILE B 63	36.882	-0.008	-47.123	1.00	37.09	C
ATOM	4142	N	ILE B 64	35.569	4.156	-43.466	1.00	27.21	N
ATOM	4143	CA	ILE B 64	34.886	5.204	-42.706	1.00	27.31	C
ATOM	4144	C	ILE B 64	34.228	6.182	-43.652	1.00	27.44	C
ATOM	4145	O	ILE B 64	34.925	6.826	-44.415	1.00	27.55	O
ATOM	4146	CB	ILE B 64	35.955	5.989	-41.845	1.00	27.42	C
ATOM	4147	CG1	ILE B 64	36.356	5.197	-40.598	1.00	27.29	C
ATOM	4148	CG2	ILE B 64	35.469	7.359	-41.411	1.00	27.61	C
ATOM	4149	CD1	ILE B 64	36.982	6.058	-39.519	1.00	27.40	C
ATOM	4150	N	CYS B 65	32.906	6.307	-43.621	1.00	48.51	N
ATOM	4151	CA	CYS B 65	32.260	7.447	-44.291	1.00	48.66	C
ATOM	4152	C	CYS B 65	32.056	8.582	-43.296	1.00	48.83	C
ATOM	4153	O	CYS B 65	31.347	8.416	-42.280	1.00	48.81	O
ATOM	4154	CB	CYS B 65	30.922	7.108	-44.897	1.00	48.60	C
ATOM	4155	SG	CYS B 65	30.887	5.504	-45.519	1.00	48.40	S
ATOM	4156	N	PRO B 66	32.646	9.754	-43.594	1.00	45.59	N
ATOM	4157	CA	PRO B 66	32.628	10.799	-42.605	1.00	45.79	C
ATOM	4158	C	PRO B 66	31.234	11.383	-42.559	1.00	45.88	C
ATOM	4159	O	PRO B 66	30.445	11.127	-43.468	1.00	45.81	O
ATOM	4160	CB	PRO B 66	33.661	11.800	-43.136	1.00	45.98	C
ATOM	4161	CG	PRO B 66	33.612	11.661	-44.575	1.00	45.94	C
ATOM	4162	CD	PRO B 66	33.302	10.203	-44.838	1.00	45.67	C
ATOM	4163	N	LYS B 67	30.933	12.097	-41.477	1.00	28.40	N
ATOM	4164	CA	LYS B 67	29.701	12.889	-41.363	1.00	28.56	C

ATOM	4165	C	LYS B 67	29.888	14.292	-41.942	1.00	28.83	C
ATOM	4166	O	LYS B 67	30.983	14.816	-41.905	1.00	28.95	O
ATOM	4167	CB	LYS B 67	29.230	12.969	-39.896	1.00	28.63	C
ATOM	4168	CG	LYS B 67	30.001	13.910	-39.000	1.00	28.85	C
ATOM	4169	CD	LYS B 67	29.736	13.590	-37.524	1.00	28.84	C
ATOM	4170	CE	LYS B 67	30.537	14.491	-36.601	1.00	29.06	C
ATOM	4171	NZ	LYS B 67	31.878	14.813	-37.179	1.00	29.10	N1+
ATOM	4172	N	VAL B 68	28.810	14.897	-42.444	1.00	40.30	N
ATOM	4173	CA	VAL B 68	28.866	16.227	-43.111	1.00	40.57	C
ATOM	4174	C	VAL B 68	29.258	17.386	-42.164	1.00	40.89	C
ATOM	4175	O	VAL B 68	28.473	17.822	-41.314	1.00	41.04	O
ATOM	4176	CB	VAL B 68	27.510	16.580	-43.820	1.00	40.61	C
ATOM	4177	CG1	VAL B 68	26.430	17.043	-42.770	1.00	40.79	C
ATOM	4178	CG2	VAL B 68	27.721	17.623	-44.953	1.00	40.78	C
ATOM	4179	N	TYR B 76	26.885	15.715	-47.918	1.00	28.84	N
ATOM	4180	CA	TYR B 76	26.954	14.289	-47.549	1.00	28.59	C
ATOM	4181	C	TYR B 76	26.778	13.367	-48.753	1.00	28.36	C
ATOM	4182	O	TYR B 76	25.781	13.423	-49.478	1.00	28.34	O
ATOM	4183	CB	TYR B 76	25.891	13.927	-46.484	1.00	28.58	C
ATOM	4184	CG	TYR B 76	26.111	12.589	-45.810	1.00	28.37	C
ATOM	4185	CD1	TYR B 76	27.098	12.448	-44.858	1.00	28.38	C
ATOM	4186	CD2	TYR B 76	25.339	11.466	-46.126	1.00	28.18	C
ATOM	4187	CE1	TYR B 76	27.332	11.206	-44.209	1.00	28.18	C
ATOM	4188	CE2	TYR B 76	25.562	10.209	-45.489	1.00	28.01	C
ATOM	4189	CZ	TYR B 76	26.575	10.101	-44.518	1.00	28.01	C
ATOM	4190	OH	TYR B 76	26.874	8.948	-43.825	1.00	27.85	O
ATOM	4191	N	GLU B 77	27.747	12.488	-48.913	1.00	28.22	N

ATOM	4192	CA	GLU	B	77	27.691	11.490	-49.932	1.00	28.02	C
ATOM	4193	C	GLU	B	77	27.014	10.203	-49.386	1.00	27.85	C
ATOM	4194	O	GLU	B	77	27.346	9.738	-48.299	1.00	27.82	O
ATOM	4195	CB	GLU	B	77	29.122	11.235	-50.409	1.00	27.99	C
ATOM	4196	CG	GLU	B	77	29.884	12.493	-50.822	1.00	28.19	C
ATOM	4197	CD	GLU	B	77	31.183	12.183	-51.593	1.00	28.16	C
ATOM	4198	OE1	GLU	B	77	31.202	11.212	-52.382	1.00	27.99	O
ATOM	4199	OE2	GLU	B	77	32.201	12.907	-51.420	1.00	28.32	O
ATOM	4200	N	TYR	B	78	26.059	9.659	-50.146	1.00	27.75	N
ATOM	4201	CA	TYR	B	78	25.361	8.406	-49.807	1.00	27.61	C
ATOM	4202	C	TYR	B	78	25.804	7.144	-50.548	1.00	27.45	C
ATOM	4203	O	TYR	B	78	25.752	7.071	-51.794	1.00	27.41	O
ATOM	4204	CB	TYR	B	78	23.878	8.565	-50.068	1.00	27.64	C
ATOM	4205	CG	TYR	B	78	23.266	9.579	-49.177	1.00	27.81	C
ATOM	4206	CD1	TYR	B	78	22.974	9.268	-47.852	1.00	27.84	C
ATOM	4207	CD2	TYR	B	78	23.001	10.847	-49.634	1.00	27.96	C
ATOM	4208	CE1	TYR	B	78	22.411	10.198	-47.006	1.00	28.03	C
ATOM	4209	CE2	TYR	B	78	22.446	11.787	-48.800	1.00	28.15	C
ATOM	4210	CZ	TYR	B	78	22.141	11.460	-47.486	1.00	28.19	C
ATOM	4211	OH	TYR	B	78	21.586	12.414	-46.664	1.00	28.41	O
ATOM	4212	N	TYR	B	79	26.158	6.134	-49.747	1.00	27.37	N
ATOM	4213	CA	TYR	B	79	26.808	4.931	-50.229	1.00	27.25	C
ATOM	4214	C	TYR	B	79	26.356	3.734	-49.485	1.00	27.17	C
ATOM	4215	O	TYR	B	79	26.253	3.780	-48.266	1.00	27.19	O
ATOM	4216	CB	TYR	B	79	28.324	4.989	-49.956	1.00	27.25	C
ATOM	4217	CG	TYR	B	79	29.076	6.033	-50.732	1.00	27.35	C
ATOM	4218	CD1	TYR	B	79	29.150	5.971	-52.134	1.00	27.32	C

ATOM	4219	CD2 TYR B 79	29.713	7.085	-50.075	1.00	27.47	C
ATOM	4220	CE1 TYR B 79	29.842	6.937	-52.861	1.00	27.42	C
ATOM	4221	CE2 TYR B 79	30.409	8.057	-50.793	1.00	27.58	C
ATOM	4222	CZ TYR B 79	30.469	7.978	-52.184	1.00	27.56	C
ATOM	4223	OH TYR B 79	31.157	8.938	-52.885	1.00	27.68	O
ATOM	4224	N LYS B 80	26.149	2.659	-50.231	1.00	27.09	N
ATOM	4225	CA LYS B 80	26.174	1.319	-49.699	1.00	27.03	C
ATOM	4226	C LYS B 80	27.419	0.655	-50.288	1.00	26.98	C
ATOM	4227	O LYS B 80	27.601	0.670	-51.477	1.00	26.98	O
ATOM	4228	CB LYS B 80	24.842	0.610	-50.026	1.00	27.03	C
ATOM	4229	CG LYS B 80	23.669	1.005	-49.030	1.00	27.09	C
ATOM	4230	CD LYS B 80	22.217	0.665	-49.500	1.00	27.13	C
ATOM	4231	CE LYS B 80	21.189	0.605	-48.323	1.00	27.20	C
ATOM	4232	NZ LYS B 80	19.899	-0.102	-48.640	1.00	27.24	N1+
ATOM	4233	N VAL B 81	28.310	0.147	-49.452	1.00	26.95	N
ATOM	4234	CA VAL B 81	29.563	-0.478	-49.918	1.00	26.93	C
ATOM	4235	C VAL B 81	29.536	-1.982	-49.674	1.00	26.88	C
ATOM	4236	O VAL B 81	29.226	-2.426	-48.581	1.00	26.85	O
ATOM	4237	CB VAL B 81	30.832	0.075	-49.197	1.00	26.94	C
ATOM	4238	CG1 VAL B 81	32.006	-0.859	-49.388	1.00	26.91	C
ATOM	4239	CG2 VAL B 81	31.208	1.427	-49.707	1.00	27.02	C
ATOM	4240	N TYR B 82	29.903	-2.765	-50.676	1.00	26.89	N
ATOM	4241	CA TYR B 82	29.839	-4.219	-50.579	1.00	26.89	C
ATOM	4242	C TYR B 82	31.189	-4.854	-50.884	1.00	26.90	C
ATOM	4243	O TYR B 82	31.872	-4.453	-51.833	1.00	26.94	O
ATOM	4244	CB TYR B 82	28.863	-4.811	-51.603	1.00	26.93	C
ATOM	4245	CG TYR B 82	27.402	-4.375	-51.572	1.00	26.93	C

ATOM	4246	CD1 TYR B	82	26.401	-5.303	-51.508	1.00	26.97	C
ATOM	4247	CD2 TYR B	82	27.035	-3.043	-51.676	1.00	26.93	C
ATOM	4248	CE1 TYR B	82	25.104	-4.927	-51.519	1.00	26.99	C
ATOM	4249	CE2 TYR B	82	25.733	-2.661	-51.677	1.00	26.95	C
ATOM	4250	CZ TYR B	82	24.778	-3.604	-51.598	1.00	26.98	C
ATOM	4251	OH TYR B	82	23.468	-3.225	-51.584	1.00	27.02	O
ATOM	4252	N MET B	83	31.555	-5.868	-50.097	1.00	26.89	N
ATOM	4253	CA MET B	83	32.622	-6.796	-50.474	1.00	26.93	C
ATOM	4254	C MET B	83	32.072	-7.588	-51.634	1.00	27.01	C
ATOM	4255	O MET B	83	31.008	-8.192	-51.490	1.00	27.02	O
ATOM	4256	CB MET B	83	32.952	-7.781	-49.335	1.00	26.90	C
ATOM	4257	CG MET B	83	33.591	-9.122	-49.819	1.00	26.98	C
ATOM	4258	SD MET B	83	35.030	-9.728	-48.865	1.00	26.96	S
ATOM	4259	CE MET B	83	35.924	-8.193	-48.537	1.00	26.89	C
ATOM	4260	N VAL B	84	32.770	-7.594	-52.766	1.00	27.08	N
ATOM	4261	CA VAL B	84	32.257	-8.270	-53.948	1.00	27.16	C
ATOM	4262	C VAL B	84	33.186	-9.411	-54.253	1.00	27.27	C
ATOM	4263	O VAL B	84	34.019	-9.779	-53.403	1.00	27.26	O
ATOM	4264	CB VAL B	84	32.115	-7.330	-55.181	1.00	27.18	C
ATOM	4265	CG1 VAL B	84	31.337	-6.097	-54.810	1.00	27.09	C
ATOM	4266	CG2 VAL B	84	33.465	-6.958	-55.788	1.00	27.23	C
ATOM	4267	N ASP B	85	32.988	-10.008	-55.431	1.00	52.19	N
ATOM	4268	CA ASP B	85	34.028	-10.797	-56.071	1.00	52.32	C
ATOM	4269	C ASP B	85	34.680	-9.954	-57.168	1.00	52.35	C
ATOM	4270	O ASP B	85	34.316	-8.801	-57.353	1.00	52.27	O
ATOM	4271	CB ASP B	85	33.451	-12.098	-56.627	1.00	52.47	C
ATOM	4272	CG ASP B	85	32.658	-11.896	-57.915	1.00	52.51	C



ATOM	4273	OD1 ASP B 85	33.290	-11.658	-58.979	1.00	52.58	O
ATOM	4274	OD2 ASP B 85	31.406	-12.004	-57.860	1.00	52.49	O
ATOM	4275	N LYS B 86	35.640	-10.542	-57.882	1.00	27.68	N
ATOM	4276	CA LYS B 86	36.378	-9.834	-58.933	1.00	27.74	C
ATOM	4277	C LYS B 86	35.485	-9.360	-60.051	1.00	27.73	C
ATOM	4278	O LYS B 86	35.465	-8.165	-60.350	1.00	27.66	O
ATOM	4279	CB LYS B 86	37.456	-10.717	-59.588	1.00	27.93	C
ATOM	4280	CG LYS B 86	38.352	-9.929	-60.585	1.00	28.01	C
ATOM	4281	CD LYS B 86	39.155	-10.818	-61.525	1.00	28.23	C
ATOM	4282	CE LYS B 86	40.481	-10.173	-61.960	1.00	28.32	C
ATOM	4283	NZ LYS B 86	40.395	-8.913	-62.776	1.00	28.28	N1+
ATOM	4284	N ASP B 87	34.787	-10.307	-60.688	1.00	36.30	N
ATOM	4285	CA ASP B 87	33.968	-10.015	-61.865	1.00	36.31	C
ATOM	4286	C ASP B 87	33.058	-8.858	-61.565	1.00	36.13	C
ATOM	4287	O ASP B 87	32.911	-7.951	-62.389	1.00	36.09	O
ATOM	4288	CB ASP B 87	33.091	-11.186	-62.225	1.00	36.41	C
ATOM	4289	CG ASP B 87	33.876	-12.389	-62.560	1.00	36.61	C
ATOM	4290	OD1 ASP B 87	34.908	-12.258	-63.253	1.00	36.71	O
ATOM	4291	OD2 ASP B 87	33.465	-13.476	-62.110	1.00	36.70	O
ATOM	4292	N GLN B 88	32.449	-8.912	-60.376	1.00	44.70	N
ATOM	4293	CA GLN B 88	31.612	-7.824	-59.847	1.00	44.56	C
ATOM	4294	C GLN B 88	32.400	-6.546	-59.687	1.00	44.50	C
ATOM	4295	O GLN B 88	31.902	-5.474	-59.978	1.00	44.43	O
ATOM	4296	CB GLN B 88	30.946	-8.209	-58.513	1.00	44.50	C
ATOM	4297	CG GLN B 88	29.632	-9.001	-58.695	1.00	44.55	C
ATOM	4298	CD GLN B 88	29.005	-9.526	-57.402	1.00	44.52	C
ATOM	4299	OE1 GLN B 88	29.701	-9.920	-56.442	1.00	44.52	O

ATOM	4300	NE2	GLN	B	88	27.673	-9.570	-57.389	1.00	44.52	N
ATOM	4301	N	ALA	B	89	33.630	-6.649	-59.212	1.00	48.80	N
ATOM	4302	CA	ALA	B	89	34.520	-5.487	-59.196	1.00	48.79	C
ATOM	4303	C	ALA	B	89	34.700	-4.925	-60.611	1.00	48.85	C
ATOM	4304	O	ALA	B	89	34.418	-3.747	-60.867	1.00	48.80	O
ATOM	4305	CB	ALA	B	89	35.879	-5.857	-58.590	1.00	48.85	C
ATOM	4306	N	ASP	B	90	35.121	-5.807	-61.522	1.00	41.47	N
ATOM	4307	CA	ASP	B	90	35.574	-5.442	-62.865	1.00	41.55	C
ATOM	4308	C	ASP	B	90	34.439	-5.134	-63.805	1.00	41.49	C
ATOM	4309	O	ASP	B	90	34.679	-4.632	-64.893	1.00	41.53	O
ATOM	4310	CB	ASP	B	90	36.451	-6.561	-63.426	1.00	41.71	C
ATOM	4311	CG	ASP	B	90	37.599	-6.952	-62.458	1.00	41.77	C
ATOM	4312	OD1	ASP	B	90	37.807	-6.248	-61.446	1.00	41.68	O
ATOM	4313	OD2	ASP	B	90	38.288	-7.968	-62.685	1.00	41.92	O
ATOM	4314	N	ARG	B	91	33.212	-5.429	-63.372	1.00	48.08	N
ATOM	4315	CA	ARG	B	91	31.973	-5.028	-64.068	1.00	48.01	C
ATOM	4316	C	ARG	B	91	31.143	-3.907	-63.350	1.00	47.88	C
ATOM	4317	O	ARG	B	91	30.234	-3.325	-63.962	1.00	47.82	O
ATOM	4318	CB	ARG	B	91	31.126	-6.288	-64.322	1.00	48.06	C
ATOM	4319	CG	ARG	B	91	31.786	-7.226	-65.344	1.00	48.21	C
ATOM	4320	CD	ARG	B	91	31.404	-8.698	-65.210	1.00	48.33	C
ATOM	4321	NE	ARG	B	91	32.220	-9.550	-66.097	1.00	48.51	N
ATOM	4322	CZ	ARG	B	91	32.275	-10.890	-66.077	1.00	48.67	C
ATOM	4323	NH1	ARG	B	91	31.566	-11.590	-65.205	1.00	48.68	N
ATOM	4324	NH2	ARG	B	91	33.058	-11.546	-66.937	1.00	48.86	N
ATOM	4325	N	CYS	B	92	31.516	-3.589	-62.093	1.00	43.45	N
ATOM	4326	CA	CYS	B	92	30.774	-2.703	-61.136	1.00	43.36	C

ATOM	4327	C	CYS B 92	29.274	-2.990	-60.964	1.00	43.31	C
ATOM	4328	O	CYS B 92	28.410	-2.149	-61.224	1.00	43.26	O
ATOM	4329	CB	CYS B 92	31.041	-1.233	-61.426	1.00	43.35	C
ATOM	4330	SG	CYS B 92	32.793	-0.866	-61.202	1.00	43.44	S
ATOM	4331	N	THR B 93	29.027	-4.205	-60.477	1.00	27.78	N
ATOM	4332	CA	THR B 93	27.717	-4.822	-60.331	1.00	27.78	C
ATOM	4333	C	THR B 93	27.638	-5.485	-58.930	1.00	27.78	C
ATOM	4334	O	THR B 93	28.583	-6.129	-58.463	1.00	27.82	O
ATOM	4335	CB	THR B 93	27.469	-5.842	-61.525	1.00	27.86	C
ATOM	4336	OG1	THR B 93	28.150	-7.096	-61.336	1.00	27.96	O
ATOM	4337	CG2	THR B 93	27.974	-5.244	-62.821	1.00	27.86	C
ATOM	4338	N	ILE B 94	26.518	-5.291	-58.249	1.00	27.11	N
ATOM	4339	CA	ILE B 94	26.222	-5.975	-56.974	1.00	27.12	C
ATOM	4340	C	ILE B 94	24.857	-6.686	-57.088	1.00	27.17	C
ATOM	4341	O	ILE B 94	23.842	-6.075	-57.415	1.00	27.15	O
ATOM	4342	CB	ILE B 94	26.177	-4.993	-55.799	1.00	27.05	C
ATOM	4343	CG1	ILE B 94	25.569	-3.656	-56.275	1.00	27.01	C
ATOM	4344	CG2	ILE B 94	27.559	-4.836	-55.219	1.00	27.02	C
ATOM	4345	CD1	ILE B 94	24.892	-2.838	-55.250	1.00	26.99	C
ATOM	4346	N	LYS B 95	24.809	-7.977	-56.814	1.00	27.26	N
ATOM	4347	CA	LYS B 95	23.609	-8.713	-57.135	1.00	27.35	C
ATOM	4348	C	LYS B 95	22.760	-8.879	-55.916	1.00	27.36	C
ATOM	4349	O	LYS B 95	23.268	-8.822	-54.795	1.00	27.32	O
ATOM	4350	CB	LYS B 95	23.968	-10.019	-57.773	1.00	27.48	C
ATOM	4351	CG	LYS B 95	24.696	-9.785	-59.115	1.00	27.48	C
ATOM	4352	CD	LYS B 95	23.754	-9.478	-60.311	1.00	27.49	C
ATOM	4353	CE	LYS B 95	24.484	-8.685	-61.374	1.00	27.43	C

ATOM	4354	NZ	LYS	B	95	25.981	-8.812	-61.272	1.00	27.44	N1+
ATOM	4355	N	LYS	B	96	21.457	-9.033	-56.139	1.00	27.43	N
ATOM	4356	CA	LYS	B	96	20.456	-8.973	-55.059	1.00	27.46	C
ATOM	4357	C	LYS	B	96	20.928	-9.637	-53.746	1.00	27.47	C
ATOM	4358	O	LYS	B	96	20.911	-8.992	-52.671	1.00	27.40	O
ATOM	4359	CB	LYS	B	96	19.104	-9.541	-55.524	1.00	27.59	C
ATOM	4360	CG	LYS	B	96	19.138	-10.998	-56.027	1.00	27.75	C
ATOM	4361	CD	LYS	B	96	18.604	-12.020	-54.992	1.00	27.88	C
ATOM	4362	CE	LYS	B	96	19.008	-13.448	-55.356	1.00	28.05	C
ATOM	4363	NZ	LYS	B	96	20.498	-13.642	-55.323	1.00	27.98	N1+
ATOM	4364	N	GLU	B	97	21.397	-10.889	-53.848	1.00	44.12	N
ATOM	4365	CA	GLU	B	97	21.974	-11.627	-52.705	1.00	44.13	C
ATOM	4366	C	GLU	B	97	22.855	-10.710	-51.857	1.00	43.98	C
ATOM	4367	O	GLU	B	97	22.878	-10.808	-50.627	1.00	43.95	O
ATOM	4368	CB	GLU	B	97	22.837	-12.802	-53.214	1.00	44.23	C
ATOM	4369	CG	GLU	B	97	23.311	-13.798	-52.137	1.00	44.28	C
ATOM	4370	CD	GLU	B	97	24.674	-14.427	-52.459	1.00	44.30	C
ATOM	4371	OE1	GLU	B	97	25.306	-14.970	-51.520	1.00	44.29	O
ATOM	4372	OE2	GLU	B	97	25.120	-14.375	-53.631	1.00	44.34	O
ATOM	4373	N	ASN	B	98	23.570	-9.814	-52.530	1.00	27.33	N
ATOM	4374	CA	ASN	B	98	24.638	-9.116	-51.905	1.00	27.21	C
ATOM	4375	C	ASN	B	98	24.078	-8.285	-50.772	1.00	27.15	C
ATOM	4376	O	ASN	B	98	23.067	-7.588	-50.943	1.00	27.17	O
ATOM	4377	CB	ASN	B	98	25.443	-8.322	-52.936	1.00	27.17	C
ATOM	4378	CG	ASN	B	98	26.585	-9.150	-53.560	1.00	27.21	C
ATOM	4379	OD1	ASN	B	98	27.100	-8.818	-54.623	1.00	27.22	O
ATOM	4380	ND2	ASN	B	98	26.998	-10.212	-52.873	1.00	27.26	N

ATOM	4381	N	THR B 99	24.702	-8.468	-49.599	1.00	29.42	N
ATOM	4382	CA	THR B 99	24.393	-7.738	-48.378	1.00	29.37	C
ATOM	4383	C	THR B 99	25.587	-6.801	-48.164	1.00	29.27	C
ATOM	4384	O	THR B 99	26.727	-7.221	-48.386	1.00	29.25	O
ATOM	4385	CB	THR B 99	24.188	-8.698	-47.187	1.00	29.39	C
ATOM	4386	OG1	THR B 99	23.068	-9.558	-47.452	1.00	29.51	O
ATOM	4387	CG2	THR B 99	23.932	-7.927	-45.885	1.00	29.34	C
ATOM	4388	N	PRO B 100	25.327	-5.517	-47.800	1.00	44.48	N
ATOM	4389	CA	PRO B 100	26.378	-4.505	-47.635	1.00	44.42	C
ATOM	4390	C	PRO B 100	27.268	-4.634	-46.384	1.00	44.36	C
ATOM	4391	O	PRO B 100	26.889	-5.280	-45.379	1.00	44.35	O
ATOM	4392	CB	PRO B 100	25.585	-3.182	-47.546	1.00	44.45	C
ATOM	4393	CG	PRO B 100	24.201	-3.496	-47.904	1.00	44.51	C
ATOM	4394	CD	PRO B 100	24.000	-4.921	-47.565	1.00	44.53	C
ATOM	4395	N	LEU B 101	28.444	-4.015	-46.449	1.00	37.24	N
ATOM	4396	CA	LEU B 101	29.297	-3.911	-45.287	1.00	37.19	C
ATOM	4397	C	LEU B 101	29.244	-2.485	-44.733	1.00	37.21	C
ATOM	4398	O	LEU B 101	29.488	-2.277	-43.521	1.00	37.18	O
ATOM	4399	CB	LEU B 101	30.722	-4.352	-45.614	1.00	37.16	C
ATOM	4400	CG	LEU B 101	31.497	-3.565	-46.665	1.00	37.20	C
ATOM	4401	CD1	LEU B 101	32.085	-2.277	-46.100	1.00	37.22	C
ATOM	4402	CD2	LEU B 101	32.595	-4.453	-47.287	1.00	37.21	C
ATOM	4403	N	LEU B 102	28.897	-1.510	-45.574	1.00	26.82	N
ATOM	4404	CA	LEU B 102	28.701	-0.169	-45.065	1.00	26.88	C
ATOM	4405	C	LEU B 102	27.486	0.515	-45.675	1.00	26.95	C
ATOM	4406	O	LEU B 102	27.372	0.625	-46.879	1.00	26.97	O
ATOM	4407	CB	LEU B 102	29.983	0.650	-45.203	1.00	26.91	C

ATOM	4408	CG	LEU B 102	30.919	0.589	-43.973	1.00	26.87	C
ATOM	4409	CD1	LEU B 102	32.101	1.552	-44.059	1.00	26.94	C
ATOM	4410	CD2	LEU B 102	30.162	0.893	-42.694	1.00	26.88	C
ATOM	4411	N	ASN B 103	26.572	0.935	-44.802	1.00	31.56	N
ATOM	4412	CA	ASN B 103	25.335	1.645	-45.172	1.00	31.65	C
ATOM	4413	C	ASN B 103	25.491	3.107	-44.751	1.00	31.75	C
ATOM	4414	O	ASN B 103	25.092	3.485	-43.623	1.00	31.82	O
ATOM	4415	CB	ASN B 103	24.125	0.999	-44.446	1.00	31.67	C
ATOM	4416	CG	ASN B 103	22.739	1.443	-44.987	1.00	31.76	C
ATOM	4417	OD1	ASN B 103	22.698	2.326	-45.852	1.00	31.81	O
ATOM	4418	ND2	ASN B 103	21.630	0.865	-44.487	1.00	31.81	N
ATOM	4419	N	CYS B 104	26.070	3.920	-45.645	1.00	27.24	N
ATOM	4420	CA	CYS B 104	26.423	5.287	-45.312	1.00	27.37	C
ATOM	4421	C	CYS B 104	25.285	6.213	-45.682	1.00	27.49	C
ATOM	4422	O	CYS B 104	25.183	6.712	-46.788	1.00	27.52	O
ATOM	4423	CB	CYS B 104	27.785	5.648	-45.898	1.00	27.37	C
ATOM	4424	SG	CYS B 104	29.073	4.868	-44.831	1.00	27.28	S
ATOM	4425	N	ALA B 105	24.413	6.383	-44.697	1.00	27.56	N
ATOM	4426	CA	ALA B 105	23.171	7.088	-44.833	1.00	27.69	C
ATOM	4427	C	ALA B 105	22.866	7.758	-43.513	1.00	27.84	C
ATOM	4428	O	ALA B 105	21.708	7.772	-43.085	1.00	27.92	O
ATOM	4429	CB	ALA B 105	22.076	6.114	-45.182	1.00	27.62	C
ATOM	4430	N	LYS B 106	23.896	8.309	-42.884	1.00	27.89	N
ATOM	4431	CA	LYS B 106	23.766	9.126	-41.675	1.00	28.06	C
ATOM	4432	C	LYS B 106	24.534	10.456	-41.733	1.00	28.23	C
ATOM	4433	O	LYS B 106	25.645	10.582	-41.307	1.00	28.22	O
ATOM	4434	CB	LYS B 106	24.095	8.321	-40.429	1.00	27.96	C

ATOM	4435	CG	LYS B 106	23.065	7.303	-40.146	1.00	27.89	C
ATOM	4436	CD	LYS B 106	23.111	6.860	-38.743	1.00	27.87	C
ATOM	4437	CE	LYS B 106	22.369	5.555	-38.534	1.00	27.76	C
ATOM	4438	NZ	LYS B 106	22.947	4.732	-37.446	1.00	27.64	N1+
ATOM	4439	N	PRO B 107	23.912	11.458	-42.302	1.00	42.84	N
ATOM	4440	CA	PRO B 107	24.602	12.714	-42.499	1.00	43.03	C
ATOM	4441	C	PRO B 107	25.472	13.117	-41.326	1.00	43.14	C
ATOM	4442	O	PRO B 107	26.635	13.435	-41.539	1.00	43.16	O
ATOM	4443	CB	PRO B 107	23.450	13.707	-42.732	1.00	43.25	C
ATOM	4444	CG	PRO B 107	22.447	12.894	-43.479	1.00	43.09	C
ATOM	4445	CD	PRO B 107	22.539	11.509	-42.856	1.00	42.88	C
ATOM	4446	N	ASP B 108	24.930	13.062	-40.110	1.00	56.47	N
ATOM	4447	CA	ASP B 108	25.598	13.682	-38.932	1.00	56.63	C
ATOM	4448	C	ASP B 108	26.256	12.670	-37.997	1.00	56.44	C
ATOM	4449	O	ASP B 108	26.455	12.945	-36.792	1.00	56.54	O
ATOM	4450	CB	ASP B 108	24.607	14.565	-38.145	1.00	56.90	C
ATOM	4451	CG	ASP B 108	23.379	13.805	-37.695	1.00	56.83	C
ATOM	4452	OD1	ASP B 108	23.545	12.621	-37.321	1.00	56.59	O
ATOM	4453	OD2	ASP B 108	22.263	14.388	-37.737	1.00	57.02	O
ATOM	4454	N	GLN B 109	26.587	11.510	-38.567	1.00	28.46	N
ATOM	4455	CA	GLN B 109	27.214	10.437	-37.820	1.00	28.26	C
ATOM	4456	C	GLN B 109	28.320	9.709	-38.630	1.00	28.07	C
ATOM	4457	O	GLN B 109	28.089	9.243	-39.753	1.00	27.97	O
ATOM	4458	CB	GLN B 109	26.129	9.478	-37.338	1.00	28.15	C
ATOM	4459	CG	GLN B 109	26.335	8.989	-35.918	1.00	28.09	C
ATOM	4460	CD	GLN B 109	25.492	7.768	-35.618	1.00	27.94	C
ATOM	4461	OE1	GLN B 109	26.009	6.645	-35.580	1.00	27.73	O

ATOM	4462	NE2 GLN B 109	24.181	7.972	-35.438	1.00	28.07	N
ATOM	4463	N ASP B 110	29.524	9.659	-38.046	1.00	34.03	N
ATOM	4464	CA ASP B 110	30.616	8.798	-38.521	1.00	33.85	C
ATOM	4465	C ASP B 110	30.165	7.326	-38.601	1.00	33.61	C
ATOM	4466	O ASP B 110	29.941	6.671	-37.566	1.00	33.52	O
ATOM	4467	CB ASP B 110	31.813	8.855	-37.555	1.00	33.84	C
ATOM	4468	CG ASP B 110	32.551	10.177	-37.581	1.00	34.08	C
ATOM	4469	OD1 ASP B 110	32.719	10.757	-38.668	1.00	34.18	O
ATOM	4470	OD2 ASP B 110	33.011	10.628	-36.517	1.00	34.18	O
ATOM	4471	N ILE B 111	30.031	6.803	-39.819	1.00	27.53	N
ATOM	4472	CA ILE B 111	29.692	5.394	-40.008	1.00	27.34	C
ATOM	4473	C ILE B 111	30.946	4.673	-40.400	1.00	27.23	C
ATOM	4474	O ILE B 111	31.517	4.953	-41.433	1.00	27.26	O
ATOM	4475	CB ILE B 111	28.599	5.197	-41.064	1.00	27.34	C
ATOM	4476	CG1 ILE B 111	27.233	5.383	-40.394	1.00	27.42	C
ATOM	4477	CG2 ILE B 111	28.700	3.821	-41.704	1.00	27.18	C
ATOM	4478	CD1 ILE B 111	26.054	5.392	-41.348	1.00	27.46	C
ATOM	4479	N LYS B 112	31.350	3.739	-39.544	1.00	27.10	N
ATOM	4480	CA LYS B 112	32.675	3.093	-39.596	1.00	27.00	C
ATOM	4481	C LYS B 112	32.590	1.536	-39.515	1.00	26.83	C
ATOM	4482	O LYS B 112	31.808	0.972	-38.714	1.00	26.77	O
ATOM	4483	CB LYS B 112	33.566	3.648	-38.458	1.00	27.03	C
ATOM	4484	CG LYS B 112	32.864	3.746	-37.080	1.00	27.03	C
ATOM	4485	CD LYS B 112	33.839	4.056	-35.958	1.00	27.04	C
ATOM	4486	CE LYS B 112	34.690	2.839	-35.564	1.00	26.85	C
ATOM	4487	NZ LYS B 112	33.987	1.903	-34.612	1.00	26.71	N1+
ATOM	4488	N PHE B 113	33.395	0.851	-40.334	1.00	26.78	N



ATOM	4489	CA	PHE B 113	33.426	-0.613	-40.325	1.00	26.65	C
ATOM	4490	C	PHE B 113	34.867	-1.117	-40.165	1.00	26.59	C
ATOM	4491	O	PHE B 113	35.773	-0.642	-40.864	1.00	26.66	O
ATOM	4492	CB	PHE B 113	32.774	-1.179	-41.592	1.00	26.66	C
ATOM	4493	CG	PHE B 113	33.201	-2.580	-41.905	1.00	26.59	C
ATOM	4494	CD1	PHE B 113	33.104	-3.580	-40.939	1.00	26.50	C
ATOM	4495	CD2	PHE B 113	33.741	-2.899	-43.154	1.00	26.62	C
ATOM	4496	CE1	PHE B 113	33.534	-4.886	-41.219	1.00	26.46	C
ATOM	4497	CE2	PHE B 113	34.167	-4.205	-43.446	1.00	26.59	C
ATOM	4498	CZ	PHE B 113	34.059	-5.198	-42.481	1.00	26.51	C
ATOM	4499	N	THR B 114	35.068	-2.068	-39.242	1.00	26.48	N
ATOM	4500	CA	THR B 114	36.429	-2.605	-38.934	1.00	26.42	C
ATOM	4501	C	THR B 114	36.640	-4.084	-39.388	1.00	26.36	C
ATOM	4502	O	THR B 114	35.935	-5.030	-38.950	1.00	26.29	O
ATOM	4503	CB	THR B 114	36.865	-2.446	-37.402	1.00	26.35	C
ATOM	4504	OG1	THR B 114	37.134	-1.071	-37.068	1.00	26.44	O
ATOM	4505	CG2	THR B 114	38.108	-3.273	-37.113	1.00	26.26	C
ATOM	4506	N	ILE B 115	37.631	-4.260	-40.256	1.00	26.40	N
ATOM	4507	CA	ILE B 115	37.999	-5.562	-40.749	1.00	26.39	C
ATOM	4508	C	ILE B 115	39.231	-5.917	-39.949	1.00	26.33	C
ATOM	4509	O	ILE B 115	40.162	-5.130	-39.928	1.00	26.37	O
ATOM	4510	CB	ILE B 115	38.393	-5.513	-42.292	1.00	26.50	C
ATOM	4511	CG1	ILE B 115	37.222	-5.169	-43.211	1.00	26.56	C
ATOM	4512	CG2	ILE B 115	38.925	-6.852	-42.801	1.00	26.52	C
ATOM	4513	CD1	ILE B 115	37.601	-5.221	-44.715	1.00	26.66	C
ATOM	4514	N	LYS B 116	39.244	-7.060	-39.266	1.00	26.24	N
ATOM	4515	CA	LYS B 116	40.523	-7.720	-38.904	1.00	26.20	C

ATOM	4516	C	LYS B 116	40.716	-8.935	-39.820	1.00	26.27	C
ATOM	4517	O	LYS B 116	39.816	-9.766	-39.977	1.00	26.27	O
ATOM	4518	CB	LYS B 116	40.610	-8.158	-37.420	1.00	26.06	C
ATOM	4519	CG	LYS B 116	41.878	-8.991	-37.130	1.00	26.02	C
ATOM	4520	CD	LYS B 116	42.168	-9.222	-35.686	1.00	25.87	C
ATOM	4521	CE	LYS B 116	43.599	-9.712	-35.468	1.00	25.85	C
ATOM	4522	NZ	LYS B 116	44.582	-8.597	-35.384	1.00	25.89	N1+
ATOM	4523	N	PHE B 117	41.900	-9.050	-40.399	1.00	26.54	N
ATOM	4524	CA	PHE B 117	42.149	-10.081	-41.376	1.00	26.64	C
ATOM	4525	C	PHE B 117	42.527	-11.402	-40.693	1.00	26.59	C
ATOM	4526	O	PHE B 117	43.677	-11.625	-40.272	1.00	26.58	O
ATOM	4527	CB	PHE B 117	43.189	-9.573	-42.341	1.00	26.77	C
ATOM	4528	CG	PHE B 117	42.828	-8.243	-42.910	1.00	26.82	C
ATOM	4529	CD1	PHE B 117	41.996	-8.157	-44.017	1.00	26.89	C
ATOM	4530	CD2	PHE B 117	43.266	-7.075	-42.311	1.00	26.80	C
ATOM	4531	CE1	PHE B 117	41.652	-6.925	-44.537	1.00	26.94	C
ATOM	4532	CE2	PHE B 117	42.918	-5.841	-42.816	1.00	26.86	C
ATOM	4533	CZ	PHE B 117	42.110	-5.761	-43.926	1.00	26.93	C
ATOM	4534	N	GLN B 118	41.511	-12.257	-40.559	1.00	26.38	N
ATOM	4535	CA	GLN B 118	41.626	-13.565	-39.921	1.00	26.35	C
ATOM	4536	C	GLN B 118	40.372	-14.370	-40.232	1.00	26.41	C
ATOM	4537	O	GLN B 118	39.479	-13.918	-40.911	1.00	26.46	O
ATOM	4538	CB	GLN B 118	41.751	-13.403	-38.418	1.00	26.17	C
ATOM	4539	CG	GLN B 118	40.596	-12.607	-37.819	1.00	26.08	C
ATOM	4540	CD	GLN B 118	39.977	-13.246	-36.604	1.00	25.97	C
ATOM	4541	OE1	GLN B 118	40.210	-14.422	-36.286	1.00	25.96	O
ATOM	4542	NE2	GLN B 118	39.146	-12.476	-35.926	1.00	25.89	N

ATOM	4543	N	GLU B 119	40.276	-15.551	-39.670	1.00	26.41	N
ATOM	4544	CA	GLU B 119	39.191	-16.455	-40.000	1.00	26.51	C
ATOM	4545	C	GLU B 119	37.916	-16.123	-39.222	1.00	26.41	C
ATOM	4546	O	GLU B 119	36.843	-16.419	-39.693	1.00	26.51	O
ATOM	4547	CB	GLU B 119	39.621	-17.918	-39.757	1.00	26.58	C
ATOM	4548	CG	GLU B 119	41.125	-18.219	-40.079	1.00	26.64	C
ATOM	4549	CD	GLU B 119	41.341	-19.399	-41.021	1.00	26.88	C
ATOM	4550	OE1	GLU B 119	42.318	-20.170	-40.817	1.00	26.93	O
ATOM	4551	OE2	GLU B 119	40.542	-19.544	-41.982	1.00	27.02	O
ATOM	4552	N	PHE B 120	38.045	-15.512	-38.037	1.00	26.24	N
ATOM	4553	CA	PHE B 120	36.899	-15.215	-37.124	1.00	26.16	C
ATOM	4554	C	PHE B 120	36.279	-13.792	-37.251	1.00	26.13	C
ATOM	4555	O	PHE B 120	36.930	-12.774	-36.949	1.00	26.05	O
ATOM	4556	CB	PHE B 120	37.278	-15.435	-35.636	1.00	26.00	C
ATOM	4557	CG	PHE B 120	37.710	-16.829	-35.294	1.00	26.02	C
ATOM	4558	CD1	PHE B 120	37.182	-17.942	-35.928	1.00	26.18	C
ATOM	4559	CD2	PHE B 120	38.630	-17.041	-34.307	1.00	25.88	C
ATOM	4560	CE1	PHE B 120	37.597	-19.260	-35.586	1.00	26.23	C
ATOM	4561	CE2	PHE B 120	39.044	-18.359	-33.968	1.00	25.91	C
ATOM	4562	CZ	PHE B 120	38.524	-19.453	-34.615	1.00	26.09	C
ATOM	4563	N	SER B 121	34.992	-13.748	-37.616	1.00	27.80	N
ATOM	4564	CA	SER B 121	34.241	-12.497	-37.777	1.00	27.80	C
ATOM	4565	C	SER B 121	32.791	-12.586	-37.218	1.00	27.82	C
ATOM	4566	O	SER B 121	32.152	-13.635	-37.288	1.00	27.90	O
ATOM	4567	CB	SER B 121	34.224	-12.130	-39.262	1.00	27.91	C
ATOM	4568	OG	SER B 121	34.083	-13.283	-40.092	1.00	28.03	O
ATOM	4569	N	PRO B 122	32.266	-11.488	-36.645	1.00	27.67	N

ATOM	4570	CA	PRO B 122	30.842	-11.492	-36.329	1.00	27.73	C
ATOM	4571	C	PRO B 122	29.970	-11.715	-37.567	1.00	27.88	C
ATOM	4572	O	PRO B 122	28.779	-12.029	-37.411	1.00	27.96	O
ATOM	4573	CB	PRO B 122	30.577	-10.079	-35.802	1.00	27.70	C
ATOM	4574	CG	PRO B 122	31.859	-9.361	-35.788	1.00	27.62	C
ATOM	4575	CD	PRO B 122	32.941	-10.231	-36.279	1.00	27.60	C
ATOM	4576	N	ASN B 123	30.548	-11.534	-38.769	1.00	33.40	N
ATOM	4577	CA	ASN B 123	29.855	-11.735	-40.044	1.00	33.53	C
ATOM	4578	C	ASN B 123	29.315	-13.139	-40.125	1.00	33.63	C
ATOM	4579	O	ASN B 123	30.080	-14.071	-40.022	1.00	33.63	O
ATOM	4580	CB	ASN B 123	30.847	-11.501	-41.193	1.00	33.54	C
ATOM	4581	CG	ASN B 123	30.520	-12.314	-42.454	1.00	33.68	C
ATOM	4582	OD1	ASN B 123	31.215	-13.297	-42.756	1.00	33.73	O
ATOM	4583	ND2	ASN B 123	29.473	-11.908	-43.192	1.00	33.75	N
ATOM	4584	N	LEU B 124	28.016	-13.300	-40.341	1.00	26.77	N
ATOM	4585	CA	LEU B 124	27.388	-14.618	-40.249	1.00	26.90	C
ATOM	4586	C	LEU B 124	27.165	-15.281	-41.608	1.00	27.05	C
ATOM	4587	O	LEU B 124	26.306	-16.167	-41.766	1.00	27.21	O
ATOM	4588	CB	LEU B 124	26.064	-14.498	-39.490	1.00	26.95	C
ATOM	4589	CG	LEU B 124	26.129	-15.147	-38.126	1.00	26.90	C
ATOM	4590	CD1	LEU B 124	26.270	-16.663	-38.308	1.00	27.02	C
ATOM	4591	CD2	LEU B 124	27.294	-14.537	-37.307	1.00	26.70	C
ATOM	4592	N	TRP B 125	27.964	-14.864	-42.584	1.00	39.25	N
ATOM	4593	CA	TRP B 125	27.805	-15.317	-43.944	1.00	39.40	C
ATOM	4594	C	TRP B 125	29.042	-16.034	-44.441	1.00	39.43	C
ATOM	4595	O	TRP B 125	29.168	-16.273	-45.642	1.00	39.54	O
ATOM	4596	CB	TRP B 125	27.429	-14.137	-44.836	1.00	39.37	C

ATOM	4597	CG	TRP B 125	25.961	-14.078	-45.031	1.00	39.47	C
ATOM	4598	CD1	TRP B 125	25.029	-13.554	-44.166	1.00	39.44	C
ATOM	4599	CD2	TRP B 125	25.227	-14.604	-46.147	1.00	39.63	C
ATOM	4600	NE1	TRP B 125	23.763	-13.705	-44.688	1.00	39.57	N
ATOM	4601	CE2	TRP B 125	23.854	-14.343	-45.905	1.00	39.69	C
ATOM	4602	CE3	TRP B 125	25.598	-15.241	-47.351	1.00	39.74	C
ATOM	4603	CZ2	TRP B 125	22.840	-14.712	-46.832	1.00	39.85	C
ATOM	4604	CZ3	TRP B 125	24.590	-15.599	-48.274	1.00	39.90	C
ATOM	4605	CH2	TRP B 125	23.233	-15.334	-48.003	1.00	39.94	C
ATOM	4606	N	GLY B 126	29.926	-16.419	-43.518	1.00	36.07	N
ATOM	4607	CA	GLY B 126	31.108	-17.203	-43.857	1.00	36.13	C
ATOM	4608	C	GLY B 126	32.140	-16.496	-44.731	1.00	36.09	C
ATOM	4609	O	GLY B 126	32.898	-17.146	-45.483	1.00	36.20	O
ATOM	4610	N	LEU B 127	32.169	-15.164	-44.618	1.00	27.66	N
ATOM	4611	CA	LEU B 127	33.179	-14.326	-45.293	1.00	27.62	C
ATOM	4612	C	LEU B 127	34.330	-14.056	-44.281	1.00	27.49	C
ATOM	4613	O	LEU B 127	34.119	-13.461	-43.177	1.00	27.36	O
ATOM	4614	CB	LEU B 127	32.586	-12.994	-45.842	1.00	27.58	C
ATOM	4615	CG	LEU B 127	31.526	-13.005	-46.970	1.00	27.69	C
ATOM	4616	CD1	LEU B 127	30.531	-11.856	-46.867	1.00	27.62	C
ATOM	4617	CD2	LEU B 127	32.167	-13.006	-48.350	1.00	27.78	C
ATOM	4618	N	GLU B 128	35.520	-14.560	-44.649	1.00	54.37	N
ATOM	4619	CA	GLU B 128	36.760	-14.384	-43.869	1.00	54.27	C
ATOM	4620	C	GLU B 128	37.913	-13.956	-44.795	1.00	54.34	C
ATOM	4621	O	GLU B 128	37.694	-13.680	-45.983	1.00	54.44	O
ATOM	4622	CB	GLU B 128	37.119	-15.670	-43.123	1.00	54.29	C
ATOM	4623	CG	GLU B 128	38.119	-16.558	-43.830	1.00	54.44	C

ATOM	4624	CD	GLU B 128	37.544	-17.913	-44.120	1.00	54.60	C
ATOM	4625	OE1	GLU B 128	37.619	-18.802	-43.227	1.00	54.59	O
ATOM	4626	OE2	GLU B 128	37.015	-18.076	-45.256	1.00	54.75	O
ATOM	4627	N	PHE B 129	39.135	-13.924	-44.264	1.00	36.94	N
ATOM	4628	CA	PHE B 129	40.296	-13.520	-45.049	1.00	37.02	C
ATOM	4629	C	PHE B 129	41.467	-14.454	-44.866	1.00	37.08	C
ATOM	4630	O	PHE B 129	41.718	-14.995	-43.758	1.00	37.00	O
ATOM	4631	CB	PHE B 129	40.699	-12.074	-44.750	1.00	36.93	C
ATOM	4632	CG	PHE B 129	39.632	-11.088	-45.095	1.00	36.90	C
ATOM	4633	CD1	PHE B 129	39.198	-10.957	-46.422	1.00	37.01	C
ATOM	4634	CD2	PHE B 129	39.029	-10.314	-44.108	1.00	36.77	C
ATOM	4635	CE1	PHE B 129	38.171	-10.049	-46.774	1.00	36.98	C
ATOM	4636	CE2	PHE B 129	37.997	-9.390	-44.439	1.00	36.76	C
ATOM	4637	CZ	PHE B 129	37.563	-9.262	-45.772	1.00	36.86	C
ATOM	4638	N	GLN B 130	42.171	-14.626	-45.989	1.00	40.19	N
ATOM	4639	CA	GLN B 130	43.243	-15.613	-46.124	1.00	40.32	C
ATOM	4640	C	GLN B 130	44.402	-15.100	-46.997	1.00	40.44	C
ATOM	4641	O	GLN B 130	44.158	-14.381	-47.951	1.00	40.50	O
ATOM	4642	CB	GLN B 130	42.661	-16.938	-46.670	1.00	40.48	C
ATOM	4643	CG	GLN B 130	41.570	-17.562	-45.726	1.00	40.38	C
ATOM	4644	CD	GLN B 130	41.649	-19.087	-45.579	1.00	40.53	C
ATOM	4645	OE1	GLN B 130	41.439	-19.835	-46.550	1.00	40.74	O
ATOM	4646	NE2	GLN B 130	41.931	-19.551	-44.362	1.00	40.42	N
ATOM	4647	N	LYS B 131	45.643	-15.479	-46.636	1.00	43.97	N
ATOM	4648	CA	LYS B 131	46.859	-15.086	-47.366	1.00	44.11	C
ATOM	4649	C	LYS B 131	46.671	-15.344	-48.853	1.00	44.32	C
ATOM	4650	O	LYS B 131	45.876	-16.217	-49.250	1.00	44.40	O

ATOM	4651	CB	LYS B 131	48.131	-15.897	-47.005	1.00	44.21	C
ATOM	4652	CG	LYS B 131	48.373	-16.374	-45.579	1.00	44.05	C
ATOM	4653	CD	LYS B 131	49.830	-16.918	-45.408	1.00	44.17	C
ATOM	4654	CE	LYS B 131	49.955	-18.454	-45.588	1.00	44.34	C
ATOM	4655	NZ	LYS B 131	51.334	-18.905	-46.116	1.00	44.58	N1+
ATOM	4656	N	ASN B 132	47.437	-14.605	-49.663	1.00	34.69	N
ATOM	4657	CA	ASN B 132	47.532	-14.862	-51.079	1.00	34.91	C
ATOM	4658	C	ASN B 132	46.152	-15.054	-51.662	1.00	34.89	C
ATOM	4659	O	ASN B 132	45.887	-16.008	-52.380	1.00	35.06	O
ATOM	4660	CB	ASN B 132	48.365	-16.119	-51.300	1.00	35.12	C
ATOM	4661	CG	ASN B 132	49.651	-16.110	-50.505	1.00	35.12	C
ATOM	4662	OD1	ASN B 132	50.419	-15.146	-50.550	1.00	35.13	O
ATOM	4663	ND2	ASN B 132	49.902	-17.194	-49.783	1.00	35.14	N
ATOM	4664	N	LYS B 133	45.254	-14.169	-51.276	1.00	27.91	N
ATOM	4665	CA	LYS B 133	43.963	-14.088	-51.893	1.00	27.89	C
ATOM	4666	C	LYS B 133	43.626	-12.607	-52.058	1.00	27.77	C
ATOM	4667	O	LYS B 133	44.160	-11.743	-51.347	1.00	27.67	O
ATOM	4668	CB	LYS B 133	42.918	-14.849	-51.076	1.00	27.79	C
ATOM	4669	CG	LYS B 133	42.978	-16.348	-51.312	1.00	27.96	C
ATOM	4670	CD	LYS B 133	41.932	-17.136	-50.511	1.00	27.89	C
ATOM	4671	CE	LYS B 133	42.321	-18.678	-50.331	1.00	28.07	C
ATOM	4672	NZ	LYS B 133	43.123	-19.106	-49.083	1.00	27.99	N1+
ATOM	4673	N	ASP B 134	42.782	-12.329	-53.050	1.00	35.95	N
ATOM	4674	CA	ASP B 134	42.359	-10.973	-53.370	1.00	35.87	C
ATOM	4675	C	ASP B 134	40.869	-10.832	-53.059	1.00	35.73	C
ATOM	4676	O	ASP B 134	40.073	-11.752	-53.290	1.00	35.77	O
ATOM	4677	CB	ASP B 134	42.648	-10.652	-54.834	1.00	36.02	C

ATOM	4678	CG	ASP B 134	44.089	-10.942	-55.213	1.00	36.20	C
ATOM	4679	OD1	ASP B 134	45.023	-10.550	-54.441	1.00	36.17	O
ATOM	4680	OD2	ASP B 134	44.271	-11.569	-56.287	1.00	36.37	O
ATOM	4681	N	TYR B 135	40.520	-9.684	-52.487	1.00	28.04	N
ATOM	4682	CA	TYR B 135	39.160	-9.382	-52.059	1.00	27.91	C
ATOM	4683	C	TYR B 135	38.836	-7.921	-52.478	1.00	27.87	C
ATOM	4684	O	TYR B 135	39.652	-7.008	-52.291	1.00	27.88	O
ATOM	4685	CB	TYR B 135	39.017	-9.623	-50.536	1.00	27.79	C
ATOM	4686	CG	TYR B 135	39.574	-10.981	-49.994	1.00	27.83	C
ATOM	4687	CD1	TYR B 135	38.712	-12.071	-49.659	1.00	27.83	C
ATOM	4688	CD2	TYR B 135	40.948	-11.166	-49.796	1.00	27.88	C
ATOM	4689	CE1	TYR B 135	39.223	-13.309	-49.162	1.00	27.88	C
ATOM	4690	CE2	TYR B 135	41.459	-12.391	-49.304	1.00	27.92	C
ATOM	4691	CZ	TYR B 135	40.605	-13.452	-48.993	1.00	27.92	C
ATOM	4692	OH	TYR B 135	41.187	-14.619	-48.518	1.00	27.98	O
ATOM	4693	N	TYR B 136	37.653	-7.727	-53.068	1.00	30.21	N
ATOM	4694	CA	TYR B 136	37.272	-6.485	-53.806	1.00	30.20	C
ATOM	4695	C	TYR B 136	36.092	-5.808	-53.114	1.00	30.09	C
ATOM	4696	O	TYR B 136	35.016	-6.399	-52.974	1.00	30.05	O
ATOM	4697	CB	TYR B 136	36.873	-6.764	-55.272	1.00	30.28	C
ATOM	4698	CG	TYR B 136	37.802	-7.689	-56.000	1.00	30.42	C
ATOM	4699	CD1	TYR B 136	38.678	-7.210	-56.964	1.00	30.53	C
ATOM	4700	CD2	TYR B 136	37.802	-9.053	-55.713	1.00	30.47	C
ATOM	4701	CE1	TYR B 136	39.533	-8.077	-57.627	1.00	30.68	C
ATOM	4702	CE2	TYR B 136	38.646	-9.914	-56.329	1.00	30.63	C
ATOM	4703	CZ	TYR B 136	39.517	-9.441	-57.292	1.00	30.73	C
ATOM	4704	OH	TYR B 136	40.357	-10.356	-57.922	1.00	30.91	O



ATOM	4705	N	ILE B 137	36.293	-4.569	-52.690	1.00	27.11	N
ATOM	4706	CA	ILE B 137	35.267	-3.834	-51.986	1.00	27.03	C
ATOM	4707	C	ILE B 137	34.905	-2.676	-52.885	1.00	27.07	C
ATOM	4708	O	ILE B 137	35.811	-1.960	-53.295	1.00	27.13	O
ATOM	4709	CB	ILE B 137	35.792	-3.332	-50.589	1.00	26.98	C
ATOM	4710	CG1	ILE B 137	36.388	-4.499	-49.777	1.00	26.95	C
ATOM	4711	CG2	ILE B 137	34.694	-2.602	-49.809	1.00	26.93	C
ATOM	4712	CD1	ILE B 137	35.833	-4.670	-48.355	1.00	26.85	C
ATOM	4713	N	ILE B 138	33.618	-2.501	-53.216	1.00	30.53	N
ATOM	4714	CA	ILE B 138	33.160	-1.381	-54.080	1.00	30.56	C
ATOM	4715	C	ILE B 138	31.811	-0.801	-53.602	1.00	30.52	C
ATOM	4716	O	ILE B 138	31.228	-1.275	-52.629	1.00	30.47	O
ATOM	4717	CB	ILE B 138	32.992	-1.780	-55.647	1.00	30.60	C
ATOM	4718	CG1	ILE B 138	31.637	-2.461	-55.889	1.00	30.56	C
ATOM	4719	CG2	ILE B 138	34.189	-2.617	-56.218	1.00	30.67	C
ATOM	4720	CD1	ILE B 138	31.677	-3.503	-56.923	1.00	30.60	C
ATOM	4721	N	SER B 139	31.322	0.222	-54.305	1.00	27.04	N
ATOM	4722	CA	SER B 139	29.872	0.396	-54.429	1.00	27.02	C
ATOM	4723	C	SER B 139	29.495	0.838	-55.832	1.00	27.03	C
ATOM	4724	O	SER B 139	30.279	1.450	-56.534	1.00	27.08	O
ATOM	4725	CB	SER B 139	29.258	1.326	-53.401	1.00	27.03	C
ATOM	4726	OG	SER B 139	27.841	1.156	-53.449	1.00	27.01	O
ATOM	4727	N	THR B 140	28.274	0.504	-56.213	1.00	27.00	N
ATOM	4728	CA	THR B 140	27.692	0.961	-57.453	1.00	27.00	C
ATOM	4729	C	THR B 140	26.838	2.187	-57.194	1.00	27.01	C
ATOM	4730	O	THR B 140	26.196	2.703	-58.109	1.00	27.01	O
ATOM	4731	CB	THR B 140	26.857	-0.156	-58.098	1.00	26.98	C

ATOM	4732	OG1 THR B 140	25.845	-0.622	-57.196	1.00	26.97	O
ATOM	4733	CG2 THR B 140	27.747	-1.327	-58.423	1.00	27.00	C
ATOM	4734	N SER B 141	26.827	2.645	-55.943	1.00	27.04	N
ATOM	4735	CA SER B 141	26.100	3.850	-55.564	1.00	27.09	C
ATOM	4736	C SER B 141	26.525	5.016	-56.458	1.00	27.14	C
ATOM	4737	O SER B 141	27.704	5.086	-56.826	1.00	27.16	O
ATOM	4738	CB SER B 141	26.386	4.209	-54.100	1.00	27.14	C
ATOM	4739	OG SER B 141	26.502	3.041	-53.343	1.00	27.08	O
ATOM	4740	N ASN B 142	25.580	5.916	-56.795	1.00	27.18	N
ATOM	4741	CA ASN B 142	25.900	7.187	-57.475	1.00	27.25	C
ATOM	4742	C ASN B 142	26.158	8.307	-56.498	1.00	27.38	C
ATOM	4743	O ASN B 142	26.479	9.419	-56.929	1.00	27.48	O
ATOM	4744	CB ASN B 142	24.787	7.672	-58.393	1.00	27.23	C
ATOM	4745	CG ASN B 142	23.984	8.801	-57.772	1.00	27.34	C
ATOM	4746	OD1 ASN B 142	23.394	8.649	-56.700	1.00	27.37	O
ATOM	4747	ND2 ASN B 142	23.989	9.949	-58.428	1.00	27.41	N
ATOM	4748	N GLY B 143	25.948	8.040	-55.206	1.00	27.39	N
ATOM	4749	CA GLY B 143	26.363	8.954	-54.151	1.00	27.53	C
ATOM	4750	C GLY B 143	25.207	9.746	-53.615	1.00	27.62	C
ATOM	4751	O GLY B 143	25.195	10.089	-52.450	1.00	27.71	O
ATOM	4752	N SER B 144	24.244	10.067	-54.472	1.00	27.62	N
ATOM	4753	CA SER B 144	23.079	10.792	-54.024	1.00	27.72	C
ATOM	4754	C SER B 144	22.290	9.852	-53.125	1.00	27.67	C
ATOM	4755	O SER B 144	22.567	8.652	-53.072	1.00	27.54	O
ATOM	4756	CB SER B 144	22.230	11.306	-55.215	1.00	27.72	C
ATOM	4757	OG SER B 144	21.660	10.271	-56.028	1.00	27.56	O
ATOM	4758	N LEU B 145	21.327	10.412	-52.406	1.00	27.79	N

ATOM	4759	CA	LEU B 145	20.351	9.618	-51.679	1.00	27.76	C
ATOM	4760	C	LEU B 145	19.359	8.964	-52.653	1.00	27.67	C
ATOM	4761	O	LEU B 145	18.666	8.022	-52.271	1.00	27.63	O
ATOM	4762	CB	LEU B 145	19.599	10.511	-50.709	1.00	27.95	C
ATOM	4763	CG	LEU B 145	18.879	9.902	-49.525	1.00	27.99	C
ATOM	4764	CD1	LEU B 145	19.854	9.275	-48.581	1.00	27.92	C
ATOM	4765	CD2	LEU B 145	18.113	11.023	-48.849	1.00	28.21	C
ATOM	4766	N	GLU B 146	19.299	9.482	-53.895	1.00	33.93	N
ATOM	4767	CA	GLU B 146	18.397	9.007	-54.971	1.00	33.84	C
ATOM	4768	C	GLU B 146	18.884	7.747	-55.666	1.00	33.68	C
ATOM	4769	O	GLU B 146	18.079	6.904	-56.054	1.00	33.63	O
ATOM	4770	CB	GLU B 146	18.207	10.095	-56.052	1.00	33.88	C
ATOM	4771	CG	GLU B 146	17.211	11.220	-55.662	1.00	34.05	C
ATOM	4772	CD	GLU B 146	17.748	12.134	-54.549	1.00	34.22	C
ATOM	4773	OE1	GLU B 146	18.975	12.069	-54.292	1.00	34.20	O
ATOM	4774	OE2	GLU B 146	16.964	12.922	-53.949	1.00	34.40	O
ATOM	4775	N	GLY B 147	20.200	7.644	-55.827	1.00	27.35	N
ATOM	4776	CA	GLY B 147	20.835	6.508	-56.515	1.00	27.23	C
ATOM	4777	C	GLY B 147	21.542	5.507	-55.601	1.00	27.20	C
ATOM	4778	O	GLY B 147	22.267	4.619	-56.070	1.00	27.12	O
ATOM	4779	N	LEU B 148	21.295	5.641	-54.295	1.00	27.26	N
ATOM	4780	CA	LEU B 148	21.950	4.845	-53.269	1.00	27.24	C
ATOM	4781	C	LEU B 148	21.999	3.372	-53.668	1.00	27.15	C
ATOM	4782	O	LEU B 148	23.069	2.745	-53.674	1.00	27.10	O
ATOM	4783	CB	LEU B 148	21.213	5.047	-51.924	1.00	27.32	C
ATOM	4784	CG	LEU B 148	21.600	4.258	-50.658	1.00	27.30	C
ATOM	4785	CD1	LEU B 148	23.054	3.788	-50.661	1.00	27.22	C

ATOM	4786	CD2 LEU B 148	21.336	5.125	-49.445	1.00	27.41	C
ATOM	4787	N ASP B 149	20.842	2.840	-54.045	1.00	27.15	N
ATOM	4788	CA ASP B 149	20.692	1.409	-54.264	1.00	27.10	C
ATOM	4789	C ASP B 149	20.833	1.042	-55.754	1.00	27.06	C
ATOM	4790	O ASP B 149	20.360	-0.037	-56.149	1.00	27.06	O
ATOM	4791	CB ASP B 149	19.332	0.950	-53.684	1.00	27.17	C
ATOM	4792	CG ASP B 149	19.469	-0.042	-52.508	1.00	27.18	C
ATOM	4793	OD1 ASP B 149	20.458	-0.796	-52.453	1.00	27.13	O
ATOM	4794	OD2 ASP B 149	18.564	-0.093	-51.655	1.00	27.25	O
ATOM	4795	N ASN B 150	21.457	1.933	-56.569	1.00	27.03	N
ATOM	4796	CA ASN B 150	21.755	1.649	-58.005	1.00	26.99	C
ATOM	4797	C ASN B 150	22.678	0.450	-58.008	1.00	26.97	C
ATOM	4798	O ASN B 150	23.762	0.528	-57.460	1.00	26.97	O
ATOM	4799	CB ASN B 150	22.489	2.800	-58.721	1.00	26.98	C
ATOM	4800	CG ASN B 150	21.562	3.911	-59.245	1.00	26.99	C
ATOM	4801	OD1 ASN B 150	20.646	4.338	-58.560	1.00	27.04	O
ATOM	4802	ND2 ASN B 150	21.850	4.413	-60.458	1.00	26.96	N
ATOM	4803	N GLN B 151	22.260	-0.671	-58.587	1.00	26.97	N
ATOM	4804	CA GLN B 151	23.041	-1.933	-58.453	1.00	26.99	C
ATOM	4805	C GLN B 151	24.070	-2.085	-59.593	1.00	26.98	C
ATOM	4806	O GLN B 151	24.684	-3.137	-59.774	1.00	27.02	O
ATOM	4807	CB GLN B 151	22.116	-3.176	-58.397	1.00	27.04	C
ATOM	4808	CG GLN B 151	21.007	-3.187	-57.287	1.00	27.08	C
ATOM	4809	CD GLN B 151	21.472	-3.554	-55.839	1.00	27.09	C
ATOM	4810	OE1 GLN B 151	20.873	-3.090	-54.864	1.00	27.10	O
ATOM	4811	NE2 GLN B 151	22.494	-4.407	-55.713	1.00	27.09	N
ATOM	4812	N GLU B 152	24.246	-1.028	-60.370	1.00	41.10	N

ATOM	4813	CA	GLU B 152	24.967	-1.133	-61.601	1.00	41.10	C
ATOM	4814	C	GLU B 152	25.490	0.265	-61.922	1.00	41.08	C
ATOM	4815	O	GLU B 152	24.767	1.262	-61.750	1.00	41.06	O
ATOM	4816	CB	GLU B 152	24.005	-1.651	-62.665	1.00	41.10	C
ATOM	4817	CG	GLU B 152	24.545	-2.807	-63.455	1.00	41.15	C
ATOM	4818	CD	GLU B 152	25.659	-2.372	-64.396	1.00	41.16	C
ATOM	4819	OE1	GLU B 152	25.354	-1.699	-65.430	1.00	41.12	O
ATOM	4820	OE2	GLU B 152	26.836	-2.700	-64.099	1.00	41.21	O
ATOM	4821	N	GLY B 153	26.756	0.337	-62.342	1.00	26.97	N
ATOM	4822	CA	GLY B 153	27.411	1.604	-62.652	1.00	26.98	C
ATOM	4823	C	GLY B 153	28.032	2.228	-61.419	1.00	27.02	C
ATOM	4824	O	GLY B 153	28.946	1.642	-60.795	1.00	27.05	O
ATOM	4825	N	GLY B 154	27.543	3.430	-61.102	1.00	51.59	N
ATOM	4826	CA	GLY B 154	27.942	4.166	-59.902	1.00	51.64	C
ATOM	4827	C	GLY B 154	29.330	4.795	-59.904	1.00	51.73	C
ATOM	4828	O	GLY B 154	29.902	5.073	-60.974	1.00	51.76	O
ATOM	4829	N	VAL B 155	29.867	5.006	-58.700	1.00	27.21	N
ATOM	4830	CA	VAL B 155	31.159	5.652	-58.520	1.00	27.31	C
ATOM	4831	C	VAL B 155	32.311	4.656	-58.524	1.00	27.32	C
ATOM	4832	O	VAL B 155	33.446	5.055	-58.365	1.00	27.41	O
ATOM	4833	CB	VAL B 155	31.177	6.430	-57.202	1.00	27.38	C
ATOM	4834	CG1	VAL B 155	29.933	7.321	-57.071	1.00	27.40	C
ATOM	4835	CG2	VAL B 155	31.258	5.471	-56.018	1.00	27.32	C
ATOM	4836	N	CYS B 156	31.998	3.371	-58.660	1.00	36.62	N
ATOM	4837	CA	CYS B 156	32.976	2.309	-58.919	1.00	36.63	C
ATOM	4838	C	CYS B 156	33.490	2.416	-60.375	1.00	36.69	C
ATOM	4839	O	CYS B 156	34.682	2.236	-60.670	1.00	36.78	O

ATOM	4840	CB	CYS B 156	32.265	0.955	-58.665	1.00	36.55	C
ATOM	4841	SG	CYS B 156	33.012	-0.698	-59.139	1.00	36.58	S
ATOM	4842	N	GLN B 157	32.568	2.750	-61.274	1.00	50.23	N
ATOM	4843	CA	GLN B 157	32.764	2.660	-62.710	1.00	50.26	C
ATOM	4844	C	GLN B 157	32.935	4.025	-63.367	1.00	50.31	C
ATOM	4845	O	GLN B 157	32.888	4.135	-64.581	1.00	50.32	O
ATOM	4846	CB	GLN B 157	31.516	2.003	-63.307	1.00	50.16	C
ATOM	4847	CG	GLN B 157	31.690	1.443	-64.713	1.00	50.18	C
ATOM	4848	CD	GLN B 157	30.377	1.300	-65.511	1.00	50.10	C
ATOM	4849	OE1	GLN B 157	29.399	0.719	-65.030	1.00	50.04	O
ATOM	4850	NE2	GLN B 157	30.382	1.792	-66.756	1.00	50.10	N
ATOM	4851	N	THR B 158	33.119	5.085	-62.594	1.00	27.41	N
ATOM	4852	CA	THR B 158	33.163	6.423	-63.206	1.00	27.48	C
ATOM	4853	C	THR B 158	34.036	7.332	-62.348	1.00	27.62	C
ATOM	4854	O	THR B 158	34.845	8.103	-62.892	1.00	27.75	O
ATOM	4855	CB	THR B 158	31.766	6.944	-63.470	1.00	27.40	C
ATOM	4856	OG1	THR B 158	31.063	6.995	-62.229	1.00	27.36	O
ATOM	4857	CG2	THR B 158	31.021	6.010	-64.452	1.00	27.28	C
ATOM	4858	N	ARG B 159	33.911	7.213	-61.020	1.00	27.60	N
ATOM	4859	CA	ARG B 159	35.115	7.324	-60.186	1.00	27.71	C
ATOM	4860	C	ARG B 159	35.516	5.858	-59.979	1.00	27.63	C
ATOM	4861	O	ARG B 159	34.706	4.951	-60.235	1.00	27.51	O
ATOM	4862	CB	ARG B 159	34.893	8.071	-58.866	1.00	27.76	C
ATOM	4863	CG	ARG B 159	35.938	9.168	-58.618	1.00	27.96	C
ATOM	4864	CD	ARG B 159	35.629	9.970	-57.351	1.00	28.03	C
ATOM	4865	NE	ARG B 159	34.849	11.193	-57.589	1.00	28.12	N
ATOM	4866	CZ	ARG B 159	35.365	12.396	-57.849	1.00	28.32	C

ATOM	4867	NH1	ARG	B 159	36.672	12.581	-57.928	1.00	28.47	N
ATOM	4868	NH2	ARG	B 159	34.569	13.431	-58.042	1.00	28.40	N
ATOM	4869	N	ALA	B 160	36.763	5.627	-59.574	1.00	27.72	N
ATOM	4870	CA	ALA	B 160	37.261	4.286	-59.269	1.00	27.67	C
ATOM	4871	C	ALA	B 160	37.138	4.006	-57.764	1.00	27.61	C
ATOM	4872	O	ALA	B 160	38.081	3.553	-57.122	1.00	27.64	O
ATOM	4873	CB	ALA	B 160	38.703	4.149	-59.745	1.00	27.81	C
ATOM	4874	N	MET	B 161	35.964	4.310	-57.214	1.00	27.53	N
ATOM	4875	CA	MET	B 161	35.635	3.992	-55.835	1.00	27.46	C
ATOM	4876	C	MET	B 161	35.528	2.478	-55.669	1.00	27.35	C
ATOM	4877	O	MET	B 161	34.439	1.897	-55.848	1.00	27.27	O
ATOM	4878	CB	MET	B 161	34.298	4.617	-55.437	1.00	27.41	C
ATOM	4879	CG	MET	B 161	34.371	6.054	-54.992	1.00	27.53	C
ATOM	4880	SD	MET	B 161	33.560	6.095	-53.391	1.00	27.48	S
ATOM	4881	CE	MET	B 161	34.649	7.195	-52.527	1.00	27.64	C
ATOM	4882	N	LYS	B 162	36.674	1.868	-55.338	1.00	37.41	N
ATOM	4883	CA	LYS	B 162	36.831	0.405	-55.218	1.00	37.35	C
ATOM	4884	C	LYS	B 162	38.155	0.083	-54.510	1.00	37.40	C
ATOM	4885	O	LYS	B 162	39.235	0.446	-54.995	1.00	37.52	O
ATOM	4886	CB	LYS	B 162	36.778	-0.287	-56.613	1.00	37.38	C
ATOM	4887	CG	LYS	B 162	37.892	0.135	-57.571	1.00	37.51	C
ATOM	4888	CD	LYS	B 162	37.432	0.220	-58.993	1.00	37.53	C
ATOM	4889	CE	LYS	B 162	37.721	-1.055	-59.763	1.00	37.57	C
ATOM	4890	NZ	LYS	B 162	37.441	-0.872	-61.218	1.00	37.61	N1+
ATOM	4891	N	ILE	B 163	38.094	-0.592	-53.371	1.00	27.30	N
ATOM	4892	CA	ILE	B 163	39.331	-0.981	-52.711	1.00	27.34	C
ATOM	4893	C	ILE	B 163	39.722	-2.349	-53.247	1.00	27.35	C

ATOM	4894	O	ILE B 163	38.879	-3.240	-53.323	1.00	27.29	O
ATOM	4895	CB	ILE B 163	39.200	-0.965	-51.157	1.00	27.25	C
ATOM	4896	CG1	ILE B 163	38.616	0.354	-50.694	1.00	27.25	C
ATOM	4897	CG2	ILE B 163	40.540	-1.141	-50.480	1.00	27.29	C
ATOM	4898	CD1	ILE B 163	38.809	0.589	-49.249	1.00	27.21	C
ATOM	4899	N	LEU B 164	40.976	-2.493	-53.673	1.00	30.73	N
ATOM	4900	CA	LEU B 164	41.593	-3.829	-53.848	1.00	30.77	C
ATOM	4901	C	LEU B 164	42.534	-4.156	-52.643	1.00	30.76	C
ATOM	4902	O	LEU B 164	43.562	-3.485	-52.405	1.00	30.84	O
ATOM	4903	CB	LEU B 164	42.344	-3.979	-55.185	1.00	30.93	C
ATOM	4904	CG	LEU B 164	43.205	-5.256	-55.369	1.00	31.03	C
ATOM	4905	CD1	LEU B 164	42.532	-6.568	-54.955	1.00	30.96	C
ATOM	4906	CD2	LEU B 164	43.648	-5.355	-56.807	1.00	31.20	C
ATOM	4907	N	MET B 165	42.168	-5.196	-51.894	1.00	27.40	N
ATOM	4908	CA	MET B 165	42.939	-5.617	-50.750	1.00	27.36	C
ATOM	4909	C	MET B 165	43.815	-6.776	-51.176	1.00	27.47	C
ATOM	4910	O	MET B 165	43.306	-7.884	-51.313	1.00	27.46	O
ATOM	4911	CB	MET B 165	41.993	-6.085	-49.643	1.00	27.20	C
ATOM	4912	CG	MET B 165	41.354	-4.981	-48.797	1.00	27.11	C
ATOM	4913	SD	MET B 165	40.278	-5.619	-47.476	1.00	26.94	S
ATOM	4914	CE	MET B 165	38.761	-5.882	-48.377	1.00	26.94	C
ATOM	4915	N	LYS B 166	45.113	-6.536	-51.390	1.00	27.60	N
ATOM	4916	CA	LYS B 166	46.080	-7.617	-51.729	1.00	27.73	C
ATOM	4917	C	LYS B 166	46.539	-8.292	-50.445	1.00	27.64	C
ATOM	4918	O	LYS B 166	47.482	-7.838	-49.797	1.00	27.65	O
ATOM	4919	CB	LYS B 166	47.325	-7.078	-52.446	1.00	27.92	C
ATOM	4920	CG	LYS B 166	47.082	-6.255	-53.729	1.00	28.02	C



ATOM	4921	CD	LYS B 166	47.596	-6.959	-55.006	1.00	28.22	C
ATOM	4922	CE	LYS B 166	46.466	-7.593	-55.766	1.00	28.19	C
ATOM	4923	NZ	LYS B 166	45.799	-6.560	-56.596	1.00	28.17	N1+
ATOM	4924	N	VAL B 167	45.856	-9.360	-50.048	1.00	65.77	N
ATOM	4925	CA	VAL B 167	46.125	-9.959	-48.729	1.00	65.66	C
ATOM	4926	C	VAL B 167	47.397	-10.805	-48.794	1.00	65.79	C
ATOM	4927	O	VAL B 167	47.704	-11.416	-49.852	1.00	65.97	O
ATOM	4928	CB	VAL B 167	44.918	-10.768	-48.161	1.00	65.53	C
ATOM	4929	CG1	VAL B 167	45.386	-11.958	-47.272	1.00	65.50	C
ATOM	4930	CG2	VAL B 167	44.015	-9.822	-47.379	1.00	65.36	C
ATOM	4931	N	GLY B 168	48.129	-10.808	-47.672	1.00	27.51	N
ATOM	4932	CA	GLY B 168	49.370	-11.557	-47.556	1.00	27.62	C
ATOM	4933	C	GLY B 168	50.449	-10.957	-48.447	1.00	27.83	C
ATOM	4934	O	GLY B 168	50.332	-10.914	-49.686	1.00	27.98	O
TER	4935		GLY B 168						
HETATM	1	C1	LIG d 0	29.947	-20.867	-37.837	0.00	0.00	C
HETATM	2	C2	LIG d 0	29.878	-20.441	-36.398	0.00	0.00	C
HETATM	3	N3	LIG d 0	29.760	-19.068	-36.156	0.00	0.00	N
HETATM	4	C6	LIG d 0	29.949	-19.916	-38.788	0.00	0.00	C
HETATM	5	C9	LIG d 0	29.739	-18.140	-37.185	0.00	0.00	C
HETATM	6	O12	LIG d 0	29.907	-21.282	-35.498	0.00	0.00	O
HETATM	7	C13	LIG d 0	29.848	-18.519	-38.460	0.00	0.00	C
HETATM	8	C7	LIG d 0	29.641	-18.592	-34.774	0.00	0.00	C
HETATM	9	C8	LIG d 0	28.218	-18.722	-34.214	0.00	0.00	C
HETATM	10	N15	LIG d 0	27.295	-19.292	-35.068	0.00	0.00	N
HETATM	11	H7	LIG d 0	27.602	-19.646	-35.967	0.00	0.00	H
HETATM	12	O18	LIG d 0	27.930	-18.365	-33.073	0.00	0.00	O

HETATM	13	C16	LIG	d	0	25.903	-19.491	-34.679	0.00	0.00	C
HETATM	14	C10	LIG	d	0	25.328	-20.923	-34.952	0.00	0.00	C
HETATM	15	C24	LIG	d	0	26.372	-21.704	-35.787	0.00	0.00	C
HETATM	16	C25	LIG	d	0	24.020	-20.805	-35.765	0.00	0.00	C
HETATM	17	C11	LIG	d	0	25.021	-21.711	-33.652	0.00	0.00	C
HETATM	18	C17	LIG	d	0	24.158	-22.826	-33.683	0.00	0.00	C
HETATM	19	C19	LIG	d	0	23.861	-23.542	-32.524	0.00	0.00	C
HETATM	20	F21	LIG	d	0	23.036	-24.597	-32.588	0.00	0.00	F
HETATM	21	C26	LIG	d	0	24.405	-23.176	-31.303	0.00	0.00	C
HETATM	22	C23	LIG	d	0	25.253	-22.077	-31.239	0.00	0.00	C
HETATM	23	C22	LIG	d	0	25.555	-21.354	-32.398	0.00	0.00	C
HETATM	24	C4	LIG	d	0	29.975	-22.289	-38.299	0.00	0.00	C
HETATM	25	N5	LIG	d	0	28.876	-22.721	-39.001	0.00	0.00	N
HETATM	26	H1	LIG	d	0	28.107	-22.064	-39.135	0.00	0.00	H
HETATM	27	O14	LIG	d	0	30.946	-23.015	-38.094	0.00	0.00	O
HETATM	28	C20	LIG	d	0	28.786	-24.045	-39.597	0.00	0.00	C
HETATM	29	C27	LIG	d	0	29.129	-23.985	-41.090	0.00	0.00	C
HETATM	30	C29	LIG	d	0	28.973	-25.348	-41.760	0.00	0.00	C
HETATM	31	C31	LIG	d	0	27.583	-25.933	-41.532	0.00	0.00	C
HETATM	32	C30	LIG	d	0	27.237	-25.996	-40.046	0.00	0.00	C
HETATM	33	C28	LIG	d	0	27.388	-24.633	-39.376	0.00	0.00	C

END