

Table S1. Proteins that were significantly regulated in only one of the groups (Y50, Y500, A50 or A500) compared to controls. In total 42, 380, 168 and 168 proteins were identified in the Y50, Y500, A50 and A500 groups respectively fc stands for fold change

Y50		Y500				A50		A500	
Protein	fc	Protein	fc	Protein	fc	Protein	fc	Protein	fc
LYRM1	-0.66	CYP2U1	-1.8	SH3GL2	-0.7	MYHC	-1.58	KCNJ16	-1.55
SIRT3	-0.66	ECI3	-1.68	PAF1	-0.7	RHD	-1.5	PERM1	-1.51
PSPH	-0.66	ADH1	-1.65	RAB13	-0.7	TANC2	-1.49	CAP2	-1.31
STAU1	-0.65	AFMID	-1.6	DENND5B	-0.7	PKIA	-1.34	RPS6KA1	-1.2
MRPS34	-0.64	LOC100911564	-1.39	SHISA4	-0.7	Uncharacterized protein	-1.29	AG2	-1.2
ERI1	-0.64	HOGA1	-1.34	LOC100912534	-0.7		Glyceraldehyde-3-phosphate dehydrogenase	-1.16	
PJA2	-0.64	HSD11B1	-1.33	ELMO2	-0.7		AK9	-1.12	
FBXL20	-0.64	BTBD1	-1.29	CDK4	-0.7	HIF1AN	-1.12	GPR108	-1.06
REXO4	-0.64	SPCS3	-1.27	TDRKH	-0.7	RPL3L	-1.08	PRKCQ	-1.01
SNX11	-0.64	BLVRA	-1.25	CHD1	0.69	SMPX	-1.05	PI16	-0.96
SCAF8	-0.63	Uncharacterized protein	-1.18	MANBAL	-	DMTN	-1.02	MSH2	-0.93
BCR	-0.63	PIGN	-1.12	TACO1	-	KNG1	-1.02	SLC7A8	-0.91
ABHD17B	-0.63	SLC49A4	-1.12	ATG5	-	PCBP4	-0.99	PALLDL1	-0.91
SLC27A3	-0.63	AOX1	-1.1	APH1A	-	LYRM4	-0.99	OCLN	-0.9
CEP57	-0.62	PIBF1	-1.1	CLDND1	-	CAMK2G	-0.95	UTP20	-0.9
AGPAT4	-0.62	HYKK	-1.1	WASHC1	-	KCNIP3	-0.95	FBXW8	-0.89
ARL6	-0.62	GSTA1	-1.08	ATG2B	-	STAP2	-0.95	VSTM2B	-0.89
TMCO4	-0.62	PRR15	-1.07	UBE4A	-	FOXK1	-0.92	ATP10B	-0.86
THNSL1	-0.61	44445	-1.05	ANAPC2	-	MLF1	-0.92	FMOD	-0.86
DA1	-0.61	PDGFRA	-1.05	STK17B	-	HBA1	-0.92	BOD1	-0.86
SESN3	-0.61	CNOT11	-1.04	MRPS24	-	RGD1559909	-0.9	EMILIN2	-0.86
SUDS3	-0.61	NOVA2	-1.04	CIAO2B	-	CRYBG1	-0.89	ATP11C	-0.86
RGD1308601	-0.6	TUT1	-1.02	RABIF	-	ARPP19	-0.89	GGNBP2	-0.85
DUOX1	-0.6	SLC7A7	-1.02	EIF2B2	-	EDC3	-0.88	TMCO6	-0.84
YRDC	-0.59	IDUA	-1.01	LDLRAP1	-	DMAC2	-0.87	FCHSD2	-0.82
XAF1	-0.58	ECI1	-1	GORASP1	-	DPCD	-0.87	PSMG3	-0.82
RNF11L1	-0.58	ANGPTL8	-1	JAGN1	-	PRKCE	-0.87	LOC100910678	-0.82

NUDCD2	-0.58	PICK1	-1	MRPS17	-	BAHD1	-0.87	THOC6	-0.81
GCC2	-0.58	NRSN1	-0.99	TMEM87B	-	CARS2	-0.86	HMGCS2	-0.81
HBA-A2	0.59	SLC38A7	-0.99	ST14	-	PITHD1	-0.86	OTUD7B	-0.81
EFEMP1	0.59	COX18	-0.99	KDM3B	-	LBP	-0.86	VASH2	-0.8
ANKS1A	0.59	NADK2	-0.98	TMEM179B	-	GOLM1	-0.84	SMIM13	-0.8
WFDC2	0.6	MTHFSD	-0.97	NEO1	-	PTCD2	-0.84	TBL3	-0.79
B2M	0.6	TRIM65	-0.97	PRPF4B	-	OS9	-0.84	LOC691143	-0.79
Hemoglobin subunit beta-2	0.6	PIGR	-0.96	VCPIP1	-	KRT17	-0.83	RPAP1	-0.79
PRPF40B	0.61	FDFT1	-0.96	EPB41L4B	-	NUDT12	-0.82	ANKRD2	-0.78
GNL3L	0.61	ACOX3	-0.96	WIPI2	-	RIN2	-0.81	EPB41L5	-0.78
LRPPRC	0.61	SFTPD	-0.95	GPR107	-	PHACTR2	-0.81	DCAF11	-0.78
TUBB4B	0.63	PDE4DIP	-0.95	CRYZL1	-	OGFR	-0.81	EXTL3	-0.77
AIF1L	0.65	PRX	-0.95	GIGYF2	-	MAP4K5	-0.8	UNK	-0.77
FRYL	0.66	MEST	-0.94	DDX55	-	HECTD3	-0.8	OGFOD3	-0.77
Ig gamma-2C chain C region	0.66	CTNND2	-0.94	TUBGCP4	-	PLXNB1	-0.79	TRIP4	-0.77
		LPGAT1	-0.94	TMEM102	-	CPNE2	-0.79	INSR	-0.76
		LYRM2	-0.93	GNB4	-	GLND1	-0.79	LSR	-0.76
		PCCA	-0.92	EIF2B1	-	MAD2L1BP	-0.79	DNAJC16	-0.76
		ARVCF	-0.92	BID	-	TUSC3	-0.78	VCAN	-0.76
		LMBRD1	-0.92	CWC27	-	TERF2IP	-0.78	ENDOG	-0.76
		ALG14	-0.91	SPOCK2	-	RIPK1	-0.77	POLR2C	-0.75
		TFEB	-0.91	RNPS1	-	OSMR	-0.76	FNTB	-0.75
		DERL1	-0.91	GLRX	-	MTMR12	-0.75	ARHGEF5	-0.74
		ITPRID2	-0.91	RAB43	-	AP1S2	-0.75	GFRA3	-0.74
		Uncharacterized protein MGC108823	-0.9	PCTP	-	NMI	-0.74	CEP131	-0.74
			-0.9	IRF2BP1	-	SH2B1	-0.74	KLHL29	-0.74
		SHPK	-0.9	NOM1	-	LPIN1	-0.73	XIRP2	-0.74
		PPP1CC	-0.9	MAP4K4	-	REEP1	-0.73	CMTR1	-0.74
		Guanylyl cyclase alpha 1 subunit	-0.9	RPL30L1	-	BRD1	-0.73	OXA1L	-0.74

PDCL	-0.9	TAF15	-	POLD3	-0.73	MYO9B	-0.73
NEWGEN			-				
E_1586233	-0.9	IFT20	0.65	ADNP	-0.72	RCC1L	-0.73
			-				
ATP9B	-0.9	PLXDC2	0.65	RHOB	-0.71	DNAJB14	-0.73
			-	Uncharacteriz			
GHITM	-0.9	SEC11C	0.65	ed protein	-0.71	PLP1	-0.73
			-			Uncharacterized	
GFAP	-0.89	CNPY1	0.65	JAK2	-0.7	protein	-0.73
			-			(Fragment)	
LAMA1	-0.89	RCN3	0.65	KIDINS220	-0.7	MSRB3	-0.72
			-	Uncharacteriz			
BCL2L11	-0.89	F8A1	0.65	ed protein	-0.69	SLC5A5	-0.72
			-				
FIG4	-0.89	NDUFC1	0.65	MPZL1	-0.69	MYH7	-0.72
RALGAP			-			NEWGENE_158	
A2	-0.88	GALT	0.65	WNT4	-0.69	2994	-0.72
			-				
NEMP1	-0.88	PARP9	0.65	POLB	-0.69	TACC1	-0.72
			-				
JCAD	-0.88	NPDC1	0.65	ITGB2	-0.69	RGD1565323	-0.72
			-				
AKAP17A	-0.87	PPP1R8	0.65	EBPL	-0.69	GALNT16	-0.71
			-				
SLC15A4	-0.86	NUP85	0.65	XXYL1	-0.69	MCM2	-0.71
			-				
TM7SF3	-0.86	MINDY3	0.65	IRF3	-0.69	ADGRE5	-0.71
			-				
MED22	-0.86	COL4A3	0.65	DARS2	-0.68	ZFYVE1	-0.71
			-	Uncharacteriz			
PIGK	-0.86	CDH11	0.65	ed protein	-0.68	COL1A1	-0.71
LOC69117			-				
0	-0.86	WDR6	0.65	NOL11	-0.67	PARD3	-0.71
		Uncharacte	-				
PDLIM2	-0.85	rized	0.65	SYTL1	-0.67	DNAJB9	-0.71
		protein	-				
NPHP3	-0.85	BOD1L1	0.65	EXOSC3	-0.67	MVB12A	-0.71
			-				
ANAPC1	-0.84	DAXX	0.64	Dermcidin	-0.66	RPS29	-0.71
			-				
HACD2	-0.84	C1S	0.64	TRIP6	-0.66	PROB1	-0.7
			-				
NEBL	-0.84	FOXP1	0.64	MEIS1	-0.66	FAR1	-0.7
			-				
ASCC3	-0.84	WNK2	0.64	RTN2	-0.65	BRAT1	-0.69
			-				
NQO2	-0.84	MRPL40	0.64	PSMG1	-0.65	RIPOR1	-0.69
			-				
PPIP5K2	-0.84	HMGN2	0.64	CTSS	-0.64	ZMYM3	-0.69
			-	Uncharacteriz			
HOOK2	-0.84	SNRNP35	0.64	ed protein	-0.64	MYL2	-0.68
			-				
2	-0.84	RPRD2	0.64	CEACAM1	-0.64	RGN	-0.68
ADAMTS			-				
L4	-0.84	PHYH	0.64	DHX58	-0.64	OTUD6B	-0.68
			-				
TEX264	-0.83	SRC	0.64	MBP	-0.64	MED12	-0.68
			-	Uncharacteriz			
MAP7	-0.83	GIGYF2	0.64	ed protein			
			-	KIAA0930			
			-	homolog	-0.64	CASQ2	-0.68

SLC39A10	-0.82	PCK1	-	0.64	ENPP5	-0.63	FMNL3	-0.68
PLEKHA5	-0.82	TPMT	-	0.64	PLSCR4	-0.63	UBTD1	-0.67
CRLS1	-0.82	PECR	-	0.64	ARHGAP10	-0.63	RRP12	-0.67
SARAF	-0.82	VPS33A	-	0.64	IGH-6	-0.63	AIDA	-0.67
EXD2	-0.81	TMEM107	-	0.64	IFT81	-0.62	TNC	-0.67
TAF6	-0.81	NR3C1	-	0.64	RGD1310429	-0.62	LRRC58	-0.67
TPM1	-0.81	RYBP	-	0.64	CHMP1B	-0.62	NAA25	-0.67
PARL	-0.81	FAH	-	0.64	JTB	-0.61	SNX4	-0.67
TADA3	-0.8	MFAP1A	-	0.63	MAP1LC3A	-0.61	SESTD1	-0.67
HAX1	-0.8	CNPY4	-	0.63	TXLNG	-0.61	MRC2	-0.66
CD300LG	-0.8	PIGW	-	0.63	PLEK	-0.61	GXYLT1	-0.66
SLC39A11	-0.8	DHX57	-	0.63	NTPCR	-0.6	LDAH	-0.66
MMAB	-0.8	POM121	-	0.63	SLC43A1	-0.6	ATXN3	-0.66
OLR1515	-0.79	RAP2A	-	0.63	TUBGCP3	-0.6	SMNDC1	-0.66
LOXL1	-0.79	GNA11	-	0.63	EIF4EBP1	-0.6	CSMD2	-0.66
TXNDC15	-0.79	USP48	-	0.63	NCK2	-0.59	MAP2K1	-0.66
RPP38	-0.79	FERMT1	-	0.63	GLMP	-0.59	SLC43A2	-0.66
SLC25A42	-0.79	PDE5A1	-	0.63	SPINT2	-0.59	MRPL13	-0.66
PDP2	-0.79	RABL3	-	0.63	BASP1	-0.59	SYNC	-0.66
RGD15651	-0.78	ZFP787	-	0.63	PLCD3	-0.59	LSM6	-0.65
66	-0.78	TCP11L1	-	0.63	RAB3IP	-0.59	CAMK1	-0.65
STXBP4	-0.78	ROR2	-	0.63	NUP62	-0.59	SYNGR3	-0.65
GNAI1	-0.78	ATP6V1G1	-	0.63	CD93	-0.59	RSRP1	-0.65
SMARCB1	-0.78	EIF3M	-	0.63	PTPRJ	-0.59	SIRPA	-0.64
SEMA4D	-0.78	YIPF6	-	0.62	RRP15	-0.59	DOK1	-0.64
MCRS1	-0.78	RABL6	-	0.62	TBC1D20	-0.58	TBC1D2	-0.63
BIN2	-0.78	ZER1	-	0.62	CBL	-0.58	MAN2A2	-0.63
DNAJC9	-0.78	TAF10	-	0.62	IGHMBP2	-0.58	RGD1308350	-0.63
KDF1	-0.78	BMS1	-	0.62	S100A1	-0.58	ATP5F1E	-0.63
UBE2L6	-0.77	RAB8B	-	0.62	SF3B4	0.58	FN3K	-0.63
EHHADH	-0.77		-		Bcl-2-interacting death suppressor	0.58	ATM	-0.63
TMEM115	-0.77	SNX16	-	0.62				

CMTM3	-0.77	DDX56	-	0.62	RALB	0.59	RING1	-0.63
BLES03	-0.77	GTF3C2	-	0.62	MB	0.59	CPB2	-0.63
RGD13084	-0.77	GABPB1L	-	0.62	MYOT	0.59	ATRAID	-0.63
28	-0.77	ASPSR1	-	0.62	ATP2A1	0.6	TTC19	-0.63
HM13	-0.77	AKR1C9	-	0.62	ALPK3	0.6	EXOSC9	-0.62
MYCT1	-0.77	DHRS1	-	0.62	MPP2	0.6	RGD1308134	-0.62
HRCT1	-0.77	PRMT9	-	0.62	JPH1	0.6	ERCC3	-0.62
PEX6	-0.77	UBE2D2	-	0.61	SMYD1	0.61	MAP2K4	-0.62
POLR2D	-0.76	OXLD1	-	0.61	METAP1	0.61	UBE2I	-0.62
NIPBL	-0.76	SMAD1	-	0.61	CRYBA2	0.61	COL5A2	-0.61
TIMM8A	-0.76	NF1X	-	0.61	MYL1	0.61	SSPN	-0.61
STX6	-0.76	FAM98A	-	0.61	MYPN	0.62	ABCC3	-0.61
NAT8L	-0.76	ARHGEF37	-	0.61	RNF213	0.63	DHRX	-0.6
SLCO3A1	-0.76	TSC22D1	-	0.61	TNNI1	0.63	TERF1	-0.6
LBH	-0.76	P3H3	-	0.61	SIRT5	0.64	CREG1	-0.6
CALCA	-0.76	MARK3	-	0.61	DUT	0.64	YIPF4	-0.6
HMGA1	-0.75	ZMIZ1	-	0.61	RAN	0.64	BRK1	-0.6
DPY19L1	-0.75				Cardiac titin			
					N2BA isoform			
DTNB	-0.75	BCL2L1	-0.6		(Fragment)	0.64	TRIQQ	-0.6
HMGCS1	-0.75	ANAPC5	-0.6		MPV17	0.65	EVI5L	-0.6
TAF6L	-0.75	SREK1	-0.6		TOM1L1	0.66	NOP16	-0.6
SEC14L3	-0.75	E2F4	-0.6		XRN1	0.66	PPFIA1	-0.59
GALNT5	-0.74	OSBPL11	-0.6		ACTA1	0.66	ACP5	-0.59
RPS6KA4	-0.74	MINDY1	-0.6		MYOZ3	0.66	SEC14L2	-0.59
ATG16L1	-0.74	GRIFIN	-0.6		SMTNL2	0.67	EFNA4	-0.59
					LOC10091259			
IL18	-0.74	MADD	-0.6		9	0.67	CD38	-0.59
BLOC1S2	-0.74	ASPH	-0.6		SUPT16H	0.67	HPS4	-0.59
FAS	-0.74	COG2	-0.6		DUPD1	0.69	ARL2	-0.59
NUDT1	-0.74	PDE5A	-0.6		ADSSL1	0.7	VKORC1	-0.58
			-					
ARL2BP	-0.74	PPOX	0.59		CYB561	0.7	RAP1GAP2	-0.58
			-					
QRICH1	-0.74	TMC4	0.59		SLC9A6	0.7	FBXO3	0.58
			-					
ABCF3	-0.74	FAM174B	0.59		FBP2	0.72	SULT5A1	0.58
			-		Uncharacteriz			
ELOVL1	-0.74	MRPL9	0.59		ed protein	0.72	FGG	0.58
MAPK8IP	-0.74	JADE2	0.59		MYBPC1	0.74	SFTPA1	0.58
1	-0.74		-					
CPNE7	-0.74	BLOC1S1	0.59		CCDC88C	0.74	CPE	0.59

OTULIN	-0.74	TGFB3R3	- 0.59	NAT1	0.75	FGB	0.59
METTL15	-0.74	PEAK1	- 0.59	TRDN	0.75	CADPS2	0.61
UQCC2	-0.74	WDR33	- 0.59	AKR1B8	0.8	CDKN2AIP	0.63
DDAH1	-0.73	PCBD1	- 0.59	SH3BGRL3	0.81	GCH1	0.63
FOXEl	-0.73	CTDNEP1	- 0.59	HSPB6	0.81	C4BPA	0.64
ARMH3	-0.73	RNF170	- 0.59	LOC10369490	0.82	CBR4	0.69
PLP2	-0.73	PLTP	- 0.59	LOC10036108	0.83	P3H1	0.7
NUP50	-0.73	PRSS8	- 0.59	SLC25A46	0.84	SRSF4	0.7
CHCHD4	-0.73	NDUFAF7	- 0.58	PPP1R1A	0.85	PTGDS	0.75
MCF2L	-0.73	MRPL30	- 0.58	WDFY2	0.85	TIE1	0.76
ACE2	-0.73	COMMD6	- 0.58	GLRX5	0.95	CPT2	0.81
CAPN7	-0.73	CLSTN1	- 0.58	SMPD1	0.98	S100A9	0.86
UPRT	-0.73	CAVIN4	0.58	KDSR	1.01	ORM1	1.01
PNISR	-0.72	RBKS	0.6	ASPH	1.02	PRKAG3	1.06
PPIE	-0.72	HDAC3	0.6	HSPB3	1.02	KNG2	1.24
DAPK2	-0.72	BIN1	0.6	BAG5	1.15	MYO18B	1.53
POGLUT1	-0.72	HSPB8	0.6	MRPL39	1.18	KNG1	1.72
SEC14L1	-0.72	ENO3	0.61				
TRIM36	-0.72	ARMT1	0.62				
MON1A	-0.72	HRC	0.62				
CMTM7	-0.72	VHL	0.63				
BBS4	-0.72	CILP	0.66				
ESRP2	-0.72	MCM3AP	0.66				
SPRYD4	-0.72	PHKG1	0.68				
COPZ2	-0.71	BLVRA	0.73				
ZFP36L1	-0.71	MYH3	0.74				
ACTR5	-0.71	ALDH3A1	0.75				
CCDC88B	-0.71	CNN1	0.77				
MYO19	-0.71	A1I3	0.91				
TRPV4	-0.71	TNNT3	0.91				
GAS1	-0.71	KRT5	0.94				
HECTD4	-0.71	SFN	0.97				
PRRC2B	-0.7	DSG1	1.07				
		MHC class I					
		RT1.Aw3					
RARS2	-0.7	protein	1.13				
LOC10369							
0070	-0.7	SERPINB5	1.31				
FAM126A	-0.7	ADA	1.56				
YIF1B	-0.7	HRNR	1.7				
ELOA	-0.7	MYH8	3.12				

Uncharacterized protein	-0.7	RPTN	4.27	
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