Table S1. Identified proteins by PepBDB research.

PDB ID	Peptide Seq identity %	Type of protein when human
1APM	50	No human
1AVG	35.7	No human
1BB1	71.4	No human
1CDK	50	No human
1CTP	50	No human
1DUM	45.5	No human
1ETR	35.7	No human
1JBP	50	No human
1JGN	45.5	poly(A)-binding protein (PABC)
1Q62	50	No human
1RDQ	50	No human
1SMH	50	No human
1STC	50	No human
1SVH	50	No human
1TBR	35.7	No human
1TGG	50	No human
1UCY	35.7	No human
1VF5	62.5	No human
1YDR	50	No human
2E74	62.5	No human
2EQ8	46.2	No human
2GNG	50	No human
2GNJ	50	No human
2GU8	50	Inhibitors for AKT
2JO4	35.7	No human
2JO5	35.7	No human
2KIX	50	No human
2L9U	55.6	No human
2LGF	71.4	Ca2+/calmodulin
2M04	50	BCL-xL in complex with PUMA BH3 peptide
2ODY	35.7	No human
2QUR	50	No human
2RQH	45.5	No human
2VOF	50	No human
2YJ1	50	BCL-xL in complex with PUMA BH3 peptide
3AMA	50	PKA
3B8E	50	sodium-potassium pump
3C59	46.2	GLP1
3C5T	46.2	GLP1
3DNE	50	No human
3FJQ	50	No human
3IOL	92.3	GLP1
3KDP	50	sodium-potassium pump
3L9M	50	PKAB3
3N23	50	sodium-potassium pump
3NX8	50	cAMP dependent protein kinase

3OOG	50	cAMP dependent protein kinase
3POO	50	cAMP dependent protein kinase
3QAL	50	cAMP dependent protein kinase
3QAM	50	cAMP dependent protein kinase
3R46	66.7	No human
3R47	66.7	No human
3R48	66.7	No human
3ZO4	50	No human
3ZY0	50	No human
4AXA	50	No human
4C33	50	No human
4C38	50	No human
4CZ5	50	No human
4CZ6	41.7	No human
4CZ7	45.5	No human
4D1L	45.5	No human
4D1L	45.5	No human
4D1L	45.5	No human
4D1M	50	No human
4D1M	50	No human
4DFX	50	No human
4DG3	50	No human
4DH7	50	No human
4H44	62.5	No human
4H7R	50	No human
4H8M	66.7	No human
4HNJ	50	PUMA BH3 peptide
4HPU	50	No human
4KVT	66.7	No human
4OGQ	62.5	No human
4OXM	50	No human
4PNA	50	No human
4PNB	41.7	No human
4Q5U	42.9	calmodulin bound to its recognition site from calcineurin
4QOY	38.5	No human
4R8T	62.5	No human
4RS9	35.7	No human
4S1X	50	No human
4WB6	50	cAMP-dependent protein kinase A
4WB7	50	cAMP-dependent protein kinase A
4WB8	50	cAMP-dependent protein kinase A
4XW6	50	No human
4YJ4	50	Bcl-xL No human
4YK9	50	Bcl-xL No human
4YWC	35.7	No human
4Z84	50	No human
4ZGM	100	GLP1
5CGO	45.5	No human
5EOJ	83.3	No human
5EON	77.8	No human
5EZ8	66.7	No human
5EZ9	50	No human

5LCQ	50	cAMP-dependent Protein Kinase (PKA)
5M0B	50	cAMP-dependent Protein Kinase (PKA)
5M6Y	50	cAMP-dependent Protein Kinase (PKA)
5N23	50	Protein kinase A mutants
5NNM	45.5	human cathelicidin
5NNT	45.5	Antimicrobial peptides
5OK3	50	No human
%OTT	46.2	Glp1
5OTU	92.3	Glp1
5OTV	92.3	Glp1
5OTX	92.3	Glp1
5OUC	50	Protein kinase A
5UUK	41.7	PUMA
5UUL	50	PUMA
5UUM	41.7	PUMA
5VAI	93.3	Glp1
5VHB	50	Protein kinase A
5XVW	55.6	No human
6B3J	46.2	Glp1
6EIK	50	No human
6EIK	50	No human
6EIZ	41.7	No human
6EIZ	41.7	No human
6EM7	50	Protein kinase A
6ERU	50	Protein kinase A
6FBX	45.5	No human
6G65	50	No human
6G66	41.7	No human
6G67	50	No human
6G6A	41.7	No human
6G6E	66.7	No human
6G6F	50	No human
6G6G	54.5	No human
6GB1	61.5	GLP1
6I2A	50	PKA
6I2B	50	PKA
6Q53	45.5	No human
6Q5H	66.7	No human
6Q5I	66.7	No human
6Q5J	66.7	No human
6Q5K	66.7	No human
6Q5L	66.7	No human
6Q5M	66.7	No human
6Q5N	66.7	No human
6Q5P	50	No human
6QFM	50	No human
6QG8	50	PUMA

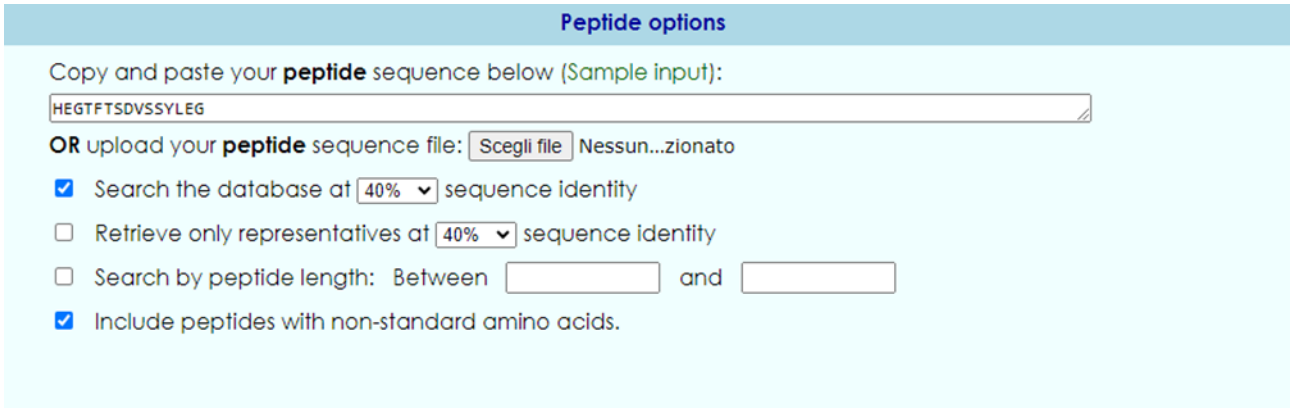

Figure S1. Input parameters used in PepBDB.