

Table S1 The results of 20, 40,...,380,400 of features by the 20 step length by jackknife.

Number of features	SN	SP	ACC	MCC
20	0.929	0.3721	0.6987	0.3738
20+20	0.7596	0.4103	0.5394	0.1722
40	0.623	0.4879	0.5403	0.1087
40+20	0.4699	0.7371	0.6454	0.2085
60	0.5519	0.625	0.5984	0.1715
60+20	0.5847	0.6022	0.5963	0.1775
80	0.388	0.7835	0.6479	0.1775
80+20	0.6011	0.6454	0.6305	0.2348
100	0.4918	0.6835	0.6185	0.1713
100+20	0.6393	0.6464	0.644	0.2713
120	0.5956	0.6354	0.622	0.2196
120+20	0.6011	0.697	0.6648	0.2869
140	0.4153	0.7753	0.6551	0.1985
140+20	0.6175	0.7041	0.6752	0.3092
160	0.5519	0.6877	0.6423	0.2314
160+20	0.4973	0.7479	0.6642	0.2452
180	0.6284	0.7507	0.7099	0.3691
180+20	0.6995	0.6521	0.6679	0.3324
200	0.6011	0.6959	0.6642	0.2855
200+20	0.6011	0.7397	0.6934	0.3322
220	0.6175	0.6603	0.646	0.2644
220+20	0.6503	0.6822	0.6715	0.3168
240	0.6721	0.6712	0.6715	0.326
240+20	0.6776	0.6575	0.6642	0.3174
260	0.7213	0.6603	0.6807	0.3607
260+20	0.7213	0.7096	0.7135	0.41
280	0.6557	0.7616	0.7263	0.406
280+20	0.7268	0.6959	0.7062	0.4011
300	0.6885	0.7096	0.7026	0.38
300+20	0.8142	0.7644	0.781	0.5514
320	0.7049	0.7562	0.7391	0.4443
320+20	0.7322	0.789	0.7701	0.5052
340	0.8033	0.7096	0.7409	0.4852
340+20	0.7541	0.7205	0.7318	0.4512
360	0.7923	0.7205	0.7445	0.4862
360+20	0.7869	0.7534	0.7646	0.5152
380	0.7978	0.7616	0.7737	0.5337
400	0.7541	0.7562	0.7555	0.4885

Table S2. The prediction results of our method for the training dataset.

Protein Name	Peptide	Class label	Prediction label
A0QNF6	FGEVVDEESQKVVDIASTPT	1	1
A0QP32	DYFAHWINVGKNADESKLPKV	1	1

A0QP90	AGATRIIGVAKAGLDDAGYRN	1	1
A0QPN2	ANADTVTLWSKLALESARARR	1	1
A0QQ65	NMKYADGTPIKASDFTYAIQR	1	1
A0QQH7	LFDEHGAYLAKTGGEVGVTTG	1	1
A0QQU5	AVEKVTETLLKSAKEVETKEQ	1	1
A0QQU5	VAAGANPLGLKRGIEKAVEKV	1	1
A0QS45	SGEPHKTKVAKVTWDQVREIA	1	1
A0QS98	KALEGDPKWVKSVEELMEAVD	1	1
A0QSE0	KRWRLVEILEKAK_____	1	1
A0QSH8	KGTQAEKLSEKLGPQISTGD	1	1
A0QSL6	SGHVGFKGSRKSTPFAAQLAA	1	1
A0QSU4	KIAQVVEVAAKEPEPSAAIRL	1	0
A0QUV7	GRGVGSAENFKIVEELADSLG	1	1
A0QUX7	QSLAVGATEQKDMSRMTIVVS	1	1
A0QUY3	GQTEAAARVDKAVSEHLATRG	1	1
A0QUY9	RVVADVLRGRKVADGVRMLIV	1	1
A0QUZ0	SFILNLSPFDKGSVLVAGPDF	1	1
A0QV10	ITSIASLETGKRLGPDPRTFN	1	1
A0QVB9	ALVEADGDFDKAVELLRIKGA	1	1
A0QVB9	ANDIETLKAAKTGDTTVEQAI	1	1
A0QVB9	IADLSAKIGEKLRLRAAYFD	1	1
A0QVM0	YSFDVDDDGLKNAYYQHREAY	1	1
A0QW25	DVIDEAATFLKQQEDKGVVVR	1	1
A0QWG8	TFYDDPDVLAKVSRGLGEAMV	1	1
A0QWT3	TFGSETVDPKIEKAIGEVFD	1	0
A0QWT3	WEQTNKVDDLKSAI_____	1	1
A0QWV9	GAARRLGVSAREVRGSDRV	1	1
A0QWW2	SVTDLTAEAKSASVEDINAA	1	1
A0QWX9	KTILQAIELWKIVDRPNLLIK	1	1
A0QWX9	VDTEIDARLEKIGSDEALALR	1	1
A0QX20	ELTDAKNAFRKDIHNYVEQNH	1	1
A0QX81	GGVDVDVAVVPKVRPIVDAVAQ	1	1
A0QX93	ATEEEDVLLEKELLADEKERA	1	1
A0QXX7	NSWPDNVSLDKARRLLWPIKQ	1	1
A0QYD4	ARRDDLEVAAKELDIESIVFD	1	1
A0QYS9	DLVARAGVLGKTLSHGIEELG	1	1
A0QZ54	IVYIRTLVTGKSSASRAIDT	1	1
A0QZA1	SVARTLIDASKSAQMVVVGNR	1	1
A0QZE3	IHIEQGRELEKNNVTIGLVDR	1	1
A0R066	ERKIDVDEWQKKAGAGEITEV	1	1
A0R079	KTSDDIFKLIKDENVEYVDIR	1	1
A0R083	LLAAGLRGVEKGYVLGPQAED	1	1
A0R0B0	DHFFGRDPRTKALVADMSDQE	1	1
A0R0B2	VAAGAVAALDKLAEDPPAKAR	1	1
A0R0B3	AVQTEDKYGVKIPDEDLAGLR	1	1
A0R0B3	TVGDVVAYIQKLEENPEAAA	1	1
A0R0B4	IRVLEDEFVTKWDLPVRIGGH	1	1
A0R0B5	VELRRLSYLQKMATVLGRRVW	1	1

A0R0W1	RAQVLVPELEKRLDDINAQLD	1	1
A0R0W4	DVADRIAVLNKGRIEQIGSPT	1	1
A0R1B5	AIEVVYGADVKGGRGIESAAPL	1	1
A0R1V9	LTAVVGGDLISKVDAKQPDDYF	1	1
A0R1V9	PDDYFTRVTSKDYEGKWRIIF	1	1
A0R1V9	VGGDLISKVDAKQPDDYFTRVT	1	1
A0R1Y7	QSHQKAAAANKDGVFADEVVP	1	1
A0R218	DVYVSMNMVRKNGLRRGDAVT	1	1
A0R220	NFDDCLELARKLTADFPTIAL	1	1
A0R2G5	NSLSGAVEVVKRDGTGITLNE	1	1
A0R2V7	NAQALADGFVKRDAGLVTGGT	1	1
A0R2W6	IGRQAIEGFYKNMTAATTDIK	1	1
A0R342	HPDIPAAATVKPGSEFRIECK	1	1
A0R3D2	LTANVRTRTGKGASRQARRDG	1	1
A0R3D6	VVVLGPGSIPKTPSGKLRRAN	1	1
A0R4C9	RDFVDAQQFSKLLSERGIAND	1	1
A0R4D0	TGAGIHEVDVKVA_____	1	1
A0R4Z5	DEGPRTTLEKMAALQPLVEG	1	1
A0R518	EDLAETVELVKGLNRRIVAAE	1	1
A0R566	MPNSNPVAAWKALKDGNARFV	1	1
A0R5E1	SGFRTLEENQKVEFEVGGSPK	1	0
A0R5M8	FDLDAFEHVAKWNDSDEERIEM	1	1
A0R5R5	LSREQATWAQKAIAQEGLTDL	1	1
A0R5R7	EILEDRLGESKIASWTDPKGG	1	1
A0R635	HNETVVLDFFPKRVVREPIPDE	1	1
A0R647	_MTNSGALDTKFHALIQDQIR	1	1
A0R652	HHSKHHATYVKGVNDAIAKLE	1	1
A0R652	WKNLSPNGGDKPTGELAAID	1	1
A0R6E3	PATEAETAQIKDLIAALGG__	1	1
A0R6E3	RAAVVLSGLRKLQGSLEAAS	1	1
A0R6Q0	IKTADVDAAAKEIEATGGAI	1	1
A0R7F9	VIRKDGGTVDKVDIWGRRRLA	1	1
A0R7G6	NFVAAFDVDAKKVGFDLSEAI	1	1
A4ZHR8	ALGGTLTKLSKDQAEYIGVDV	1	1
EG10025	APFAGTVKEIKVNVGDKVSTG	1	1
EG10207	FADYDEARFQKEGFRVPPAA	1	1
EG10251	DVKILDPRVGKEFPLPTYATS	1	1
EG10367	SVVDLTVRLEKAATYEQIKAA	1	0
EG10407	QEIFTREEMIKYFTLNAVSKS	1	1
EG10410	LAMQVVVLRDKLEPYFTEGRY	1	1
EG10416	SAEQVDPRDEKVANLEAQLAE	1	1
EG10416	TRERDGILRVKAEMENLRRRT	1	1
EG10489	_____MESKVVPAPQGKKI	1	1
EG10489	WLKVKNPNTGKEIVIKDVIAD	1	1
EG10492	MNDAFWDELLKVRGEVNKVIE	1	1
EG10762	YLRWAESRGFKTEIIIESEGE	1	1
EG10770	XXXDIVEYLVKQIKG_____	1	1
EG10770	KSFRVQELAEKLYSELRAQGI	1	1

EG10770	QLGTKYSEALKASVQGEDGRN	1	1
EG10803	EGKVFLNIGDKFLLDANLGKG	1	1
EG10803	RADKVREIAAKLGRHVAILGD	1	1
EG10876	ARAAIEAAGGKIEE_____	1	1
EG10903	AALELAEQREKPTWLEVDAGK	1	1
EG10903	REKAKKQSRVKAALAEQRE	1	1
EG10905	YTAAITGAEGKIHRLDWGRR	1	1
EG10954	TYVTNLNNLIKGTAFEGKSLE	1	1
EG11192	GELILNEKLAKQLVTAANWVK	1	1
EG11223	HSWVEGKLIDKVGQLGKKLHT	1	1
EG11415	TQVINSKTPLKSYPLDIHNVQ	1	1
EG11427	AWNEKFAAYAKAYPQEAEEFT	1	1
EG11427	FDAKAKEFIAKLQANPAKIAS	1	1
EG11518	LQLGKDLDRFKNLVLVHAARY	1	1
EG11615	EYALLSRLMLKAGSPVHREIL	1	1
EG11615	LHFLARIRQKKYTLPVLILTA	1	1
EG12204	__MAKIKGQVKWFNESKGFGF	1	1
EG12411	RKAGIPLALNKLNAVPTTAYP	1	0
EG12503	EGVKYLEENAKKEGVNSTESG	1	0
EG12545	PNYLHKEPVIKAAKNKKHVFC	1	1
EG12669	GEIAADFAQDKKSDFDLTPFR	1	1
EG12712	INSNEELALPKEKLQELHI__	1	1
EG12982	_____MQKVVLATGNVGK	1	1
EG13014	LITYGGGSVKKTGVLDQVLDA	1	1
EG13952	AGGIYLFTDEKSALAYLEKHT	1	1
EG13952	AYLEKHTARLKNLGVEEVVAK	1	1
O05598	VVVLGPGTIPKTPSGKLRRAN	1	1
O05814	YSFDIDAAGLKAAYHAHREAY	1	1
O06188	SAVEAAGKLVKIETDIPRGPA	1	1
O06391	IAARMTTAVDKARVRGAGHEV	1	0
O33294	LHSRGFSEDPKALEPAVRKVE	1	1
O33341	EKSLDDLRLFKALVDAASGYA	1	1
O53176	FMRNSIDL YHKQAADTGARIV	1	1
O53204	DKGYDGRALIKDLSFSLPRNG	1	1
O53226	TKTTRLTPGDKAPAFTLPDAD	1	1
O53226	YNVKATGHVAKLRRDLSV____	1	1
O53442	QHVMKGYRAEKYTQVETLVYM	1	1
O53618	GILRPKSGAIKFDEVDITTLQ	1	1
O53665	TALVYLSPDAKPAATGLESTM	1	1
O53665	TQALAPGLAAKGITINAVAPG	1	1
O53871	AEAWSGGYFAKSVVPVRDQNG	1	1
O69687	IGATLSAEQAKWGQKAVEDEG	1	1
O86352	VGLSRGWSLIKSVRLGNAAGA	1	1
P09621	SARDVLAVVSK_____	1	1
P0A508	EWQLRVGAGEKLGFAQNDIEL	1	1
P0A520	AVEKVTETLLKGAKEVETKEQ	1	1
P0A556	PAKEDEEVVRKATTDEPFAAL	1	1
P0A5B7	LPVGADEDDIKATYDKGILTV	1	0

P0A5B7	LTIKAERTEQKDFDGRSEFAY	1	1
P0A5B7	LTVSVAVSEGKPTKEHQIRS	1	1
P0A5B7	RAELPGVDPDKDVDIMVRDGQ	1	1
P0A5F7	QAHQIVEQAHKVALEASSGR	1	1
P0A5H3	LDDATIAKFQKELAAMGFKFQ	1	1
P0A5L2	VARITAPDEPKYDADFAAVRQ	1	1
P0A5U4	ENADVADEIEKKIKEKLGIGA	1	1
P0A5Z4	HVQRLRAKVEKDPENPTVVLT	1	1
P0CG95	SGAGIHEVDVKIT_____	1	1
P0CG99	IPDITFELAKKNEDMYLFSPY	1	1
P0CH36	ADVTVLSQSLKKMEDGLRLGA	1	0
P17670	SRYAAATSQTKGLIFG_____	1	1
P60176	ALGGHLTKLTKEQAEYLGVDV	1	1
P60796	TFFDDPDVLAKVSRGLGEAMV	1	1
P63458	VAAGRLTALEKLAEDPPAKAR	1	1
P63523	KPEVVYFEPDKLSTGSANRCE	1	1
P63568	GLVRRAEVLGKSLRHGIEALG	1	1
P63673	SQKLTEEAADKLTEVIKNFKK	1	1
P65161	ESLAVGATECKDRSRMTIVVS	1	1
P65232	AHPELAEQVAKELDVHVTSQD	1	1
P65277	ITAATVVLPFKIDDHSAWRL	1	0
P65573	DVLARLEVDAKEIIGRYPDRR	1	1
P65880	LFDEHGEYLSKTGREFGVTTG	1	1
P66056	SAEPHKTKVAKVTWDQVREIA	1	1
P66902	NFDDCLELARKMAADFPTISL	1	1
P69440	DGYPRSVEQAKALHEMLERRG	1	1
P71703	KFVAAFDVDAAKKVGFDLSDAI	1	1
P71724	QAVAAAEVLGKRQPLLIVSSD	1	1
P71973	AIIDDASTFFKQQEERGTVVR	1	1
P77899	TFGTETEDPVKIEKAIGEVFD	1	1
P96382	DGKLGAFVEVKNSTIGTGTKV	1	1
P96825	WAEITDLSGAKIAGFKL_____	1	1
Q10504	DHFFGRDPRTKALVENMSDQD	1	1
Q10530	RARIVKEQADKILAKLGGDDS	1	1
Q10682	VVAVGFTFDPKTHIARVITG	1	1
Q50685	DTVVPRASMPKFLSTARGLAA	1	1
Q7D8W0	GAGELVSAAGKALRDWDALMV	1	1
A0QNF6	ATLHTNRGDIKIALFGNHAPK	0	0
A0QNF6	DEFHPELQFDKPYLLAMANAG	0	0
A0QNF6	KIALFGNHAPKTVNNFVGLAQ	0	0
A0QNF6	NGSQFFITVGKTPHLNRRHTI	0	0
A0QNF6	NNFVGLAQGTKDYSTENASGG	0	0
A0QNF6	TGTGRGGPGYKFEDEFHPELQ	0	0
A0QP32	AGTFQKLNPEKQPNSYLALSD	0	0
A0QP32	AHLVEAGTFQKLNPEKQPNSY	0	0
A0QP32	DKLGDDGFFVKALHSIGAPLE	0	0
A0QP32	EGDPQHLIDWKGNDWTPESGE	0	0
A0QP32	FVGEKLPTGLKDEFDALKHRL	0	0

A0QP32	GDDIAWMRFGKDGRLYATNPE	0	0
A0QP32	GKNADESKLPKVFFVNWFRRG	0	0
A0QP32	GSEQTAAAEKGKVGTVRRDPMA	0	0
A0QP32	GWLAEHMLILKLISPENKAYF	0	0
A0QP32	GYGGNALLGKKCYSLRIASAM	0	0
A0QP32	IAAAFPSACGKTNLAMLQPTI	0	0
A0QP32	INVGKNADESKLPKVFFVNWF	0	0
A0QP32	ISAILFGGRRKTTVPLITEAR	0	0
A0QP32	KDVPWPCNDTKYITHFPETRE	0	0
A0QP32	LILKLISPENKAYFIAAAFPS	0	0
A0QP32	LKWAVERIEHKADGKSTPIGI	0	0
A0QP32	MTRMGRAALDKLGDDGFFVKA	0	0
A0QP32	PADVDEALAVKPEEWRAELPL	0	0
A0QP32	PGFGENSRVLKWAVERIEHKA	0	0
A0QP32	SGYGGNALLGKKCYSLRIASA	0	0
A0QP32	TGLKDEFDALKHRLSEEG__	0	0
A0QP32	TNWSSNPNAMKTIAAGNTVFT	0	0
A0QP32	VERIEHKADGKSTPIGIVPTA	0	0
A0QP32	AGNTVFTNVAKTDDGDVWWEG	0	0
A0QP32	CMGPLDAEDPKLGVEITDSEY	0	0
A0QP32	GNDWTPESGEKAAHPNSRYCT	0	0
A0QP32	IEEWFEFVGEKLPTGLKDEFD	0	0
A0QP32	SIGAPLEPGQKDVPWPCNDTK	0	0
A0QP32	TIPGLDTAPTKHQGLLAWVQE	0	0
A0QP90	AGVPFYLRTGKRMSQRFSEIV	0	0
A0QP90	DEAIRLEMTAKEPGSGGRLRP	0	0
A0QP90	HVNRESVRDEKRKVLEALEPL	0	0
A0QP90	NRESVRDEKRKVLEALEPLTA	0	0
A0QP90	QIFRIDHYLGKESVQQLLVTR	0	0
A0QP90	QRFSEIVVQFKPVPLPMFPGI	0	0
A0QP90	VTESSRVVLEKPIGRDLASAQ	0	0
A0QP90	FGGTGDLAARKLLPALYLRRDR	0	0
A0QP90	HSRTETFVAVKAHIRNWRWAG	0	0
A0QPN2	APDVAWDSQAKTAVSSRSLNL	0	0
A0QPN2	ARAGGKFSAHKDATSTGAGLN	0	0
A0QPN2	ARARRSAEGAKARARAASKAK	0	0
A0QPN2	ASRMARDLGLAKNEEGPEPQDF	0	0
A0QPN2	DATFQAAFPLKGKPPNVYGFP	0	0
A0QPN2	DPTTGKNGIVKTLGTARAGGK	0	0
A0QPN2	EAPFTRNDTQKLRGVSNRKPD	0	0
A0QPN2	GAKARARAASKAKGLGTNLSL	0	0
A0QPN2	GLGTNLSLPPKLLPSRESGRG	0	0
A0QPN2	GRGYPGVFEGKEFDPEAPFTR	0	0
A0QPN2	IRVRPDESEKKLHHTLFGGPP	0	0
A0QPN2	KARARAASKAKGLGTNLSLPP	0	0
A0QPN2	KTLGTARAGGKFSAHKDATST	0	0
A0QPN2	LPVDTDPTTGKNGIVKTLGTA	0	0
A0QPN2	PPNVYGFPLNKARAKDEFDAI	0	0

A0QPN2	RTDVTVRRDGKTFQLQSFGRGY	0	0
A0QPN2	SNRRVEVQRNKGLGEMDADDF	0	0
A0QPN2	TFQAAFPLKGKPPNVYGFPLN	0	0
A0QPN2	TQKLRGVSNRKPDHLGTEVRI	0	0
A0QPN2	VIRVRPDESEKKLHHTLFGGP	0	0
A0QPN2	YVTMPPLFVVKAGDERIYCQD	0	0
A0QPN2	CEGDSALGTIKAARDATFQAA	0	0
A0QPN2	GGGSHLTAAIKGLSEALAERA	0	0
A0QPN2	SERDAAVAQLKASSNRRVEVQ	0	0
A0QPN2	YGFPLNKARAKDEFDAIERIL	0	0
A0QQ65	ADEVADAHVDKIIVTQNKSNS	0	0
A0QQ65	DDFFRPLINGKSILPTNGNNF	0	0
A0QQ65	EDMPEVSPDGKTYKLKLRQNM	0	0
A0QQ65	FNQDFTSFALK_____	0	0
A0QQ65	FTLYPGPDMDKAKQLIAEANP	0	0
A0QQ65	HVDKIIVTQNKSNSAQVTDIE	0	0
A0QQ65	IVGANDYAEGKADTITGIQTN	0	0
A0QQ65	LTQLGFNATLKVIAGDVYWTT	0	0
A0QQ65	LYPGPDMDKAKQLIAEANPAD	0	0
A0QQ65	MERNPQFQTVKDAGADEVADA	0	0
A0QQ65	____MIAGRKCLKIASVAAV	0	0
A0QQ65	__MIAGRKCLKIASVAAVAVL	0	0
A0QQ65	PEVSPDGKTYKLKLRQNMKYA	0	0
A0QQ65	SAQVTDIEQNKTDPMHDPDA	0	0
A0QQ65	TYKLKLRQNMKYADGTPIKAS	0	0
A0QQ65	VSPDGKTYKLKLRQNMKYADG	0	0
A0QQ65	YNTYVPLLTYPKHAKGEEGAEV	0	0
A0QQ65	YVPLLTYPKHAKGEEGAEVAPG	0	0
A0QQ65	DFTYAIQRLFKADSGGSVFFG	0	0
A0QQ65	LLTQQLTDETKKGYADLDRAY	0	0
A0QQ65	LTQQLTDETKKGYADLDRAYM	0	0
A0QQ65	PPDADRLPEVKARFGDRFRLE	0	0
A0QQ65	SRVAIPELDAKMNELLTQQLT	0	0
A0QQ65	TVWTDDEPDPRKRIGEYYHDVL	0	0
A0QQH7	AEKIEAALEFKNQVLVKIYNR	0	0
A0QQH7	ALEFKNQVLVKIYNRKALEPA	0	0
A0QQH7	DKVVERWAGSKKIGTTGRGIG	0	0
A0QQH7	KVVERWAGSKKIGTTGRGIGP	0	0
A0QQH7	LLMPYHVAIDKVVERWAGSKK	0	0
A0QQH7	NQVLVKIYNRKALEPAEVLEN	0	0
A0QQH7	PVCVGYTVDGKRVDMPMTQS	0	0
A0QQH7	TRITTVLGILKAYTTRVGS GP	0	0
A0QQH7	VDPGVLLTELKGLDRGVDT S	0	0
A0QQH7	VNGITDYFLTKLDVLSLET V	0	0
A0QQH7	DVLDEQVLAEKIEAALEFKNQ	0	0
A0QQH7	ENLLEQAEGFKHRIADARLL L	0	0
A0QQH7	GAREFEDLPAKARDYVLRLEE	0	0
A0QQU5	AATEVELKERKHRIEDAVRNA	0	0

A0QQU5	AKLAGGVAVIKAGAATEVELK	0	0
A0QQU5	EDPYILLVSSKVSTVKDLLPL	0	0
A0QQU5	ENSDSDYDREKLQERLAKLAG	0	0
A0QQU5	FLTTEAVVADKPEKAAAPAGD	0	0
A0QQU5	IRGTFKSVAVKAPGFGDRRKA	0	0
A0QQU5	IVRVALSAPLKQIALNNGGLEP	0	0
A0QQU5	KAGAATEVELKERKHRIEDAV	0	0
A0QQU5	KEIELEDPYEKIGAELVKEVA	0	0
A0QQU5	LELTEGMRFDKGYISGYFVTD	0	0
A0QQU5	LKRGIEKAVEKVTETLLKSAK	0	0
A0QQU5	LLAAGVADPVKVTRSAQNAA	0	0
A0QQU5	_____MAKTIAAYDEEARR	0	0
A0QQU5	NPLGLKRGIEKAVEKVTETLL	0	0
A0QQU5	PLLEKVIQSGKPLLIIAEDVE	0	0
A0QQU5	TEAVVADKPEKAAAPAGDPTG	0	0
A0QQU5	TITNDGVSIKEIELEDPYEK	0	0
A0QQU5	TVKDLLPLLEKVIQSGKPLLI	0	0
A0QQU5	VKAPGFGDRRKAMLQDMAIT	0	0
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EG10416	TLKSMLDVVRKFGVEVIAETN	0	0
EG10416	IEKAHKFALEKFINELLPVID	0	0
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EG10489	GIKPCSEEGTKRLVRAAIEYA	0	0
EG10489	GTAPKYAGQDKVNP GSILSA	0	0
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EG10489	KFLREEMGVKKIRFPEHCGIG	0	0
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EG10489	LIDGGPWLKVKNPNTGKEIVI	0	0
EG10489	MLKVVDAAVEKAYKGERKISW	0	0
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EG10489	VTLVHKGNIMKFTEGA FKDWG	0	0
EG10489	VVDAAVEKAYKGERKISWMEI	0	0
EG10489	YDFERLMDGAKLLKCSEFGDA	0	0
EG10489	ADSADA EKVIKFLREEMGVKK	0	0
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EG10489	EWKADSADA EKVIKFLREEMG	0	0
EG10489	NPNTGKEIVIKDVIADAF LQQ	0	0
EG10489	SEDIYAGIEWKADSADA EKVI	0	0
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EG10492	CAKAAQEDILKAYEAYDFHEV	0	0
EG10492	CVSNVAGDGEKRKFA_____	0	0
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EG10492	DQKGLRAQSLKEIKGVQWIPD	0	0
EG10492	EKFTAAEFRAKCREYAATQVD	0	0
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EG10492	HGPDDYVIGQKYGLE TANPVG	0	0
EG10492	HIGHSVNKILKDII VKSKGLS	0	0
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EG10492	IGNGHLHKGAKPVHWCVDCRS	0	0

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EG10905	QLAYPINKLHKAHYVLMNVEA	0	0
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EG12669	LPELPVQPVVRKVFAYQADGR	0	0
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EG12669	SGFLRSELAIKTWQLAKEAG	0	0
EG12669	WYQADGRYSVKNKFPAFTGEL	0	0
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Q7D8W0	GGSSKDRIAVKMIEAAEASGQ	0	0
Q7D8W0	GPEIWADTEGKVTHFVAGIGT	0	0
Q7D8W0	GTITGAGRYLKEVSGGRVRIV	0	0
Q7D8W0	GYKCVFVCPDKVSEDKRNVL	0	0
Q7D8W0	IEAAEASGQLKPGGTIVEPTS	0	0
Q7D8W0	LALVAQRRGYKCVFVCPDKVS	0	0
Q7D8W0	LPDGGRGYMSKIFNDWMSSY	0	0
Q7D8W0	RLVRDIDGAWKPDQYANPEGP	0	0
Q7D8W0	SCGMAVVAALKVAEEAGPDAL	0	0
Q7D8W0	VEYLNPGSSKDRIAVKMIEA	0	0
Q7D8W0	WDALMVVEEGKPVGVITRYDL	0	0
Q7D8W0	FVCPDKVSEDKRNVLIAYGAE	0	0
Q7D8W0	LLSAVFEGRAKLADAVSAHMS	0	0
Q7D8W0	QSTVGDVLRKSGALPALVHT	0	0
Q7D8W0	VPDGAGTVAAKVEYLNPGGSS	0	0

Table S3. The prediction results of PUL-PUP for the training dataset.

Protein Name	Peptide	Class label	Prediction label
A0QNF6	FGEVVDEESQKVVDIASTPT	1	1
A0QP32	DYFAHWINVGKNADESKLPKV	1	1
A0QP90	AGATRIIGVAKAGLDDAGYRN	1	1

A0QPN2	ANADTVTLWSKLALESARARR	1	1
A0QQ65	NMKYADGTPIKASDFTYAIQR	1	1
A0QQH7	LFDEHGAYLAKTGGEVGVTTG	1	1
A0QQU5	AVEKVTETLLKSAKEVETKEQ	1	1
A0QQU5	VAAGANPLGLKRGIEKAVEKV	1	1
A0QS45	SGEPHKTKVAKVTWDQVREIA	1	0
A0QS98	KALEGDPKWVKSVEELMEAVD	1	1
A0QSE0	KRWRLVEILEKAK_____	1	0
A0QSH8	KGTQAEKLSEKLGIPQISTGD	1	1
A0QSL6	SGHVGFKGSRKSTPFAAQLAA	1	1
A0QSU4	KIAQVVEVAAKEPEPSAAIRL	1	0
A0QUV7	GRGVGSAENFKIVEELADSLG	1	0
A0QUX7	QSLAVGATEQKDMSRMTIVVS	1	1
A0QUY3	GQTEAAARVDKAVSEHLATRG	1	1
A0QUY9	RVVADVLRGRKVADGVRMLIV	1	1
A0QUZ0	SFILNLSPFDKGSVLVAGPDF	1	1
A0QV10	ITSIASLETGKRLGPDPRTFN	1	1
A0QVB9	ALVEADGDFDKAVELLRIKGA	1	1
A0QVB9	ANDIETLKA AKTGDTTVEQAI	1	1
A0QVB9	IADLSAKIGEKLELRRAA YFD	1	1
A0QVM0	YSFDVDDDGLKNAYYQHREAY	1	1
A0QW25	DVIDEAATFLKQQEDKGVVVR	1	0
A0QWG8	TFYDDPDVLAKVSRGLGEAMV	1	0
A0QWT3	TFGSETVDPKIEKAIGE VFD	1	0
A0QWT3	WEQTNKVDDLKSAI_____	1	1
A0QWV9	GAARRLGVS AKAREVRGSDRV	1	1
A0QWW2	SVTDLTAELAKSASVEDINAA	1	0
A0QWX9	KTILQAIELWKIVDRPNLLIK	1	1
A0QWX9	VDTEIDARLEKIGSDEALALR	1	1
A0QX20	ELTDAKNAFRKDIHNYVEQNH	1	1
A0QX81	GGVDVDVAVVPKVRPIVDAVAQ	1	1
A0QX93	ATEEEDVLLEKELLADEKERA	1	1
A0QXX7	NSWPDNVSLDKARRLLWPIKQ	1	1
A0QYD4	ARRDDLEVA AKELDIESIVFD	1	1
A0QYS9	DLVARAGVLGKTL SHGIEELG	1	1
A0QZ54	IVYIRTLVTGKSSSASRAIDT	1	1
A0QZA1	SVARTLIDASKSAQM VVVGNR	1	1
A0QZE3	IHIEQGRELEKNNVTIGLVDR	1	1
A0R066	ERKIDVDEWQKKAGAGEITEV	1	1
A0R079	KTSDDIFKLIKDENVEYVDIR	1	1
A0R083	LLAAGLRGVEKGYVLGPQAED	1	0
A0R0B0	DHFFGRDPRTKALVADMSDQE	1	1
A0R0B2	VAAGAVAALDKLAEDPPAKAR	1	1
A0R0B3	AVQTEDKYGVKIPDEDLA GLR	1	1
A0R0B3	TVGDVVAYIQKLEENPEAAA	1	1
A0R0B4	IRVLEDEFVTKWDLPV RIGGH	1	1
A0R0B5	VELRRLSYLQKMATVLGRRVW	1	1
A0R0W1	RAQVLVPELEKRLDDINAQLD	1	0

A0R0W4	DVADRIAVLNKGRIEQIGSPT	1	1
A0R1B5	AIEVVYGADVKGRIESAAPL	1	1
A0R1V9	LTAVVGGDLSKVDAKQPDDYF	1	1
A0R1V9	PDDYFTRVTSKDYEGKWRIIF	1	1
A0R1V9	VGGDLSKVDAKQPDDYFTRVT	1	1
A0R1Y7	QSHQKAAAANKDGVFADEVVP	1	1
A0R218	DVYVSMNMVRKNGLRRGDAVT	1	1
A0R220	NFDDCLELARKLTADFPTIAL	1	1
A0R2G5	NSLSGAVEVVKRDGTGITLNE	1	1
A0R2V7	NAQALADGFVKRDAGLVTGGT	1	1
A0R2W6	IGRQAIEGFYKNMTAATTDIK	1	1
A0R342	HPDIPAAATVKPGSEFRIECK	1	1
A0R3D2	LTANVRTRTGKGASRQARRDG	1	1
A0R3D6	VVVLGPGSIPKTPSGKLRRAN	1	1
A0R4C9	RDFVDAQQFSKLLSERGIAND	1	1
A0R4D0	TGAGIHEVDVKVA_____	1	1
A0R4Z5	DEGPRETTLEKMAALQPLVEG	1	1
A0R518	EDLAETVELVKGLNRRIVAE	1	1
A0R566	MPNSNPVAAWKALKDGNARFV	1	1
A0R5E1	SGFRTLEENQKVEFEVQSPK	1	0
A0R5M8	FDLDAFEHVAKWNSDEERIE	1	1
A0R5R5	LSREQATWAQKAIAQEGLTDL	1	1
A0R5R7	EILEDRLGESKIASWTDPKGG	1	1
A0R635	HNETVVLDFFPKRVVREPIPE	1	1
A0R647	_MTNSGALDTKFHALIQDQIR	1	1
A0R652	HHSKHHATYVKGVNDAIAKLE	1	1
A0R652	WKNLSPNGGDKPTGELAAID	1	1
A0R6E3	PATEAETAQIKDLIAALGG__	1	1
A0R6E3	RAAVVLSGLRKLQGSIAEAA	1	0
A0R6Q0	IKTADVDAAAKEIEATGGAI	1	1
A0R7F9	VIRKDGGTVDKVDIWGRRRLA	1	1
A0R7G6	NFVAAFDVDAKKVGFDLSEAI	1	1
A4ZHR8	ALGGTLTKLSKDQAEYIGVDV	1	1
EG10025	APFAGTVKEIKVNVGDKVSTG	1	1
EG10207	FADYDEARFQKEGFRVVPAA	1	0
EG10251	DVKILDPRVGKEFPLPTYATS	1	1
EG10367	SVVDLTVRLEKAATYEQIKAA	1	0
EG10407	QEIFTREEMIKYFTLNAVSKS	1	1
EG10410	LAMQVVVLRDKLEPYFTEGRY	1	1
EG10416	SAEQVDPRDEKVANLEAQLAE	1	1
EG10416	TRERDGILRVKAEMENLRRRT	1	1
EG10489	_____MESKVVPQAQKKI	1	1
EG10489	WLKVKNPNTGKEIVIKDVIAD	1	1
EG10492	MNDAFWDELLKVRGEVNKVIE	1	1
EG10762	YLRWAESRGFKTEIIIESEGE	1	1
EG10770	XXXDIVEYLVKQIKG_____	1	1
EG10770	KSFRVQELAELKLYSELRAQGI	1	1
EG10770	QLGTKYSEALKASVQGEDGRN	1	1

EG10803	EGKVFLNIGDKFLLDANLGKG	1	1
EG10803	RADKVREIAAKLGRHVAILGD	1	1
EG10876	ARAAIEAAGGKIEE_____	1	0
EG10903	AALELAEQREKPTWLEVDAGK	1	1
EG10903	REKAKKQSRVKAALAEQRE	1	1
EG10905	YTAAITGAEGKIHRLEDWGRR	1	1
EG10954	TYVTNLNNLIKGTAFEGKSLE	1	1
EG11192	GELILNEKLAKQLVTAANWVK	1	1
EG11223	HSWVEGKLIDKVGQLGKKLHT	1	0
EG11415	TQVINSKTPLKSYPLDIHNVQ	1	1
EG11427	AWNEKFAAYAKAYPQEAEEFT	1	1
EG11427	FDAKAKEFIAKLQANPAKIAS	1	1
EG11518	LQLGKDLDRFKNLVLVHAARY	1	1
EG11615	EYALLSRLMLKAGSPVHREIL	1	1
EG11615	LHFLARIRQKKYTLPVLILTA	1	1
EG12204	__MAKIKGQVKWVFNESKGFGF	1	1
EG12411	RKAGIPLALNKLNAVPTTAYP	1	0
EG12503	EGVKYLEENAKKEGVNSTESG	1	0
EG12545	PNYLHKEPVIKAAKNKKHVFC	1	0
EG12669	GEIAADFAQDKKSDFDLTPFR	1	1
EG12712	INSNEELALPKEKLQELHI__	1	1
EG12982	_____MQKVVLATGNVGK	1	1
EG13014	LITYGGGSVKKTGVLDQVLDA	1	1
EG13952	AGGIYLFTEKSALAYLEKHT	1	0
EG13952	AYLEKHTARLKNLGVEEVVAK	1	1
O05598	VVVLGPGTIPKTPSGKLRRAN	1	1
O05814	YSFDIDAAGLKAAYHAHREAY	1	1
O06188	SAVEAAGKLVKIETDIPRGPA	1	1
O06391	IAARMTTAVDKARVRGAGHEV	1	0
O33294	LHSRGFSEDPKALEPAVRKVE	1	1
O33341	EKSLDDLRLFKALVDAASGYA	1	1
O53176	FMRNSIDLYHKQAADTGARIV	1	0
O53204	DKGYDGRALIKDLSFSLPRNG	1	1
O53226	TKTTRLTPGDKAPAFSLPDAD	1	1
O53226	YNVKATGHVAKLRRDLSV__	1	1
O53442	QHVMKGYRAEKYTQVETLVYM	1	0
O53618	GILRPKSGAIKFDEVDITTLQ	1	1
O53665	TALVYLSPDAKPAATGLESTM	1	1
O53665	TQALAPGLAAKGITINAVAPG	1	1
O53871	AEAWSGGYFAKSVPVRDQNG	1	0
O69687	IGATLSAEQAKWGQKAVEDEG	1	1
O86352	VGLSRGWSLIKSVRLGNAAGA	1	1
P09621	SARDVLAVVSK_____	1	1
P0A508	EWQLRVGAGEKLGFAQNDEL	1	1
P0A520	AVEKVTETLLKGAKEVETKEQ	1	0
P0A556	PAKEDEEVVRKATTDEPFAAL	1	1
P0A5B7	LPVGADEDDIKATYDKGILTV	1	0
P0A5B7	LTIKAERTEQKDFDGRSEFAY	1	1

P0A5B7	LTVSVAVSEGKPTTEKHIQIRS	1	1
P0A5B7	RAELPGVDPDKDVDIMVRDGO	1	1
P0A5F7	QAHQIVEQAHKVALEASSSGR	1	1
P0A5H3	LDDATIAKFQKELAAAMGFKFQ	1	1
P0A5L2	VARITAPDEPKYDADFPAVRQ	1	1
P0A5U4	ENADVADIEKKIKEKLGIGA	1	1
P0A5Z4	HVQRLRAKVEKDPENPTVVLT	1	1
P0CG95	SGAGIHEVDVKIT_____	1	1
P0CG99	IPDITFELAKKNEDMYLFSPY	1	1
P0CH36	ADVTVLSQSLKKMEDGLRLGA	1	0
P17670	SRYAAATSQTKGLIFG_____	1	0
P60176	ALGGHLLTKLTKEQAEYLGVDV	1	1
P60796	TFFDDPDVLAKVSRGLGEAMV	1	1
P63458	VAAGRLTALEKLAEDPPAKAR	1	1
P63523	KPEVVYFEPDKLSTGSANRCE	1	1
P63568	GLVRRAEVLGKSLRHGIEALG	1	1
P63673	SQKLTEEAADKLTEVIKNFKK	1	1
P65161	ESLAVGATECKDRSRMTIVVS	1	1
P65232	AHPELAEQVAKELDVHVTSQD	1	1
P65277	ITAATVVLPFKIDDHSAWRL	1	0
P65573	DVLARLEVDAKEIIGRYPDRR	1	1
P65880	LFDEHGEYLSKTGREFGVTTG	1	0
P66056	SAEPHKTKVAKVTWDQVREIA	1	1
P66902	NFDDCLELARKMAADFPTISL	1	1
P69440	DGYPRSVEQAKALHEMLERRG	1	1
P71703	KFVAAFDVEDAKKVGFDLSAI	1	1
P71724	QAVAAAEVLGKRQPLLIVSSD	1	1
P71973	AIIDDASTFFKQGEERGTVVR	1	0
P77899	TFGTETEDPVKIEKAIGEVEFD	1	1
P96382	DGKLGAFVEVKNSTIGTGTKV	1	1
P96825	WAEITDLSGAKIAGFKL_____	1	1
Q10504	DHFFGRDPRTKALVENMSDQD	1	1
Q10530	RARIVKEQADKILAKLGGDDS	1	1
Q10682	VVAVGFTFDPKTHIARVITG	1	1
Q50685	DTVVPRASMPKFLSTARGLAA	1	0
Q7D8W0	GAGELVSAAGKALRDWDALMV	1	1
A0QNF6	ATLHTNRGDIKIALFGNHAPK	0	0
A0QNF6	DEFHPELQFDKPYLLAMANAG	0	0
A0QNF6	KIALFGNHAPKTVNNFVGLAQ	0	0
A0QNF6	NGSQFFITVGKTPHLNRRHTI	0	0
A0QNF6	NNFVGLAQGTKDYSTENASGG	0	0
A0QNF6	TGTGRGGPGYKFEDEFHPELQ	0	0
A0QP32	AGTFQKLNPEKQPNSYLALSD	0	0
A0QP32	AHLVEAGTFQKLNPEKQPNSY	0	0
A0QP32	DKLGDDGFFVKALHSIGAPLE	0	0
A0QP32	EGDPQHLIDWKGNDWTPESGE	0	0
A0QP32	FVGEKLPTGLKDEFDALKHRL	0	0
A0QP32	GDDIAWMRFGKDGRLYATNPE	0	0

A0QP32	GKNADESKLPKVVFFVNWFRRG	0	0
A0QP32	GSEQTAAAEKGKVGTVRRDPMA	0	0
A0QP32	GWLAEHMLILKLISPENKAYF	0	0
A0QP32	GYGGNALLGKKCYSLRIASAM	0	0
A0QP32	IAAAFPSACGKTNLAMLQPTI	0	0
A0QP32	INVGKNADESKLPKVVFFVNW	0	0
A0QP32	ISAILFGGRRKTTVPLITEAR	0	0
A0QP32	KDVPWPCNDTKYITHFPETRE	0	0
A0QP32	LILKLISPENKAYFIAAAFPS	0	0
A0QP32	LKWAVERIEHKADGKSTPIGI	0	0
A0QP32	MTRMGRAALDKLGDDGFFVKA	0	0
A0QP32	PADVDEALAVKPEEWRAELPL	0	0
A0QP32	PGFGENSRVLKWAVERIEHKA	0	0
A0QP32	SGYGGNALLGKKCYSLRIASA	0	0
A0QP32	TGLKDEFDALKHRLSEEG____	0	0
A0QP32	TNWSSNPNAMKTIAAGNTVFT	0	0
A0QP32	VERIEHKADGKSTPIGIVPTA	0	0
A0QP32	AGNTVFTNVAKTDDGDVWWEG	0	0
A0QP32	CMGPLDAEDPKLGVEITDSEY	0	0
A0QP32	GNDWTPESGEKAAHPNSRYCT	0	0
A0QP32	IEEWFEFVGEKLPTGLKDEFD	0	0
A0QP32	SIGAPLEPGQKDVPWPCNDTK	0	0
A0QP32	TIPGLDTAPTKHQGLLAWVQE	0	0
A0QP90	AGVPFYLRTGKRMSQRFSEIV	0	0
A0QP90	DEAIRLEMTAKEPGSGGRLRP	0	0
A0QP90	HVNRESVRDEKRKVLEALEPL	0	0
A0QP90	NRESVRDEKRKVLEALEPLTA	0	0
A0QP90	QIFRIDHYLGKESVQQLLVTR	0	0
A0QP90	QRFSEIVVQFKPVPLPMFPGI	0	0
A0QP90	VTSSRVVLEKPIGRDLASAQ	0	0
A0QP90	FGGTGDLAARKLLPALYLDR	0	1
A0QP90	HSRTETFVAVKAHIRNWRWAG	0	0
A0QPN2	APDVAWDSQAKTAVSSRSLNL	0	0
A0QPN2	ARAGGKFSAHKDATSTGAGLN	0	0
A0QPN2	ARARRSAEGAKARARAASKAK	0	0
A0QPN2	ASRMDDLGLAKNEEGPEPQDF	0	0
A0QPN2	DATFQAAFLKKGPPNVYGF	0	0
A0QPN2	DPTTGKNGIVKTLGTARAGGK	0	0
A0QPN2	EAPFTRNDTQKLRGVSNRKP	0	0
A0QPN2	GAKARARAASKAKGLGTNLSL	0	0
A0QPN2	GLGTNLSLPPKLLPSRESGRG	0	0
A0QPN2	GRGYPGVFEGKEFDPEAPFTR	0	0
A0QPN2	IRVRPDESEKKLHHTLFGGPP	0	0
A0QPN2	KARARAASKAKGLGTNLSLPP	0	0
A0QPN2	KTLGTARAGGKFSAHKDATST	0	0
A0QPN2	LPVDTDPTTGKNGIVKTLGTA	0	0
A0QPN2	PPNVYGFPLNKARAKDEFDAI	0	0
A0QPN2	RTDVTVRRDGKTFLQSFGRGY	0	0

A0QPN2	SNRRVEVQRNKGLEMDADDF	0	0
A0QPN2	TFQAAFPLKGKPPNVYGFPLN	0	0
A0QPN2	TQKLRGVSNRKPDHLHGTEVRI	0	0
A0QPN2	VIRVRPDESEKKLHHTLFGGP	0	0
A0QPN2	YVTMPPLFVVKAGDERIYCQD	0	0
A0QPN2	CEGDSALGTIKAARDATFQAA	0	0
A0QPN2	GGGSHLTAAIKGLSEALAERA	0	0
A0QPN2	SERDAAVAQLKASSNRRVEVQ	0	0
A0QPN2	YGFPLNKARAKDEFDAIERIL	0	0
A0QQ65	ADEVADAHVDKIIVTQNKSNS	0	0
A0QQ65	DDFFRPLINGKSILPTNGNNF	0	0
A0QQ65	EDMPEVSPDGKTYKLKLRQNM	0	0
A0QQ65	FNQDFTSFALK_____	0	0
A0QQ65	FTLYPGPDMDKAKQLIAEANP	0	0
A0QQ65	HVDKIIVTQNKSNSAQVTDIE	0	0
A0QQ65	IVGANDY AEGKADTITGIQTN	0	0
A0QQ65	LTQLGFNATLKVIAGDVYWTT	0	0
A0QQ65	LYPGPDMDKAKQLIAEANPAD	0	0
A0QQ65	MERNPQFQTVKDAGADEVADA	0	0
A0QQ65	____MIAGRKCLKIASVAAV	0	0
A0QQ65	__MIAGRKCLKIASVAAVAVL	0	0
A0QQ65	PEVSPDGKTYKLKLRQNMKYA	0	0
A0QQ65	SAQVTDIEQNKTFMHDPPDA	0	0
A0QQ65	TYKLKLRQNMKYADGTPIKAS	0	0
A0QQ65	VSPDGKTYKLKLRQNMKYADG	0	0
A0QQ65	YNTYVPLLTYPKHAKGEEGAEV	0	0
A0QQ65	YVPLLTYPKHAKGEEGAEVAPG	0	0
A0QQ65	DFTYAIQRLFKADSGGSVFFG	0	0
A0QQ65	LLTQQLTDETKKGYADLDRAY	0	1
A0QQ65	LTQQLTDETKKGYADLDRAYM	0	1
A0QQ65	PPDADRLPEVKARFGDRFRLE	0	0
A0QQ65	SRVAIPELDAKMNELLTQQLT	0	0
A0QQ65	TVWTDDEPDRKRIGEYYHDVL	0	0
A0QQH7	AEKIEAALEFKNQVLVKIYNR	0	0
A0QQH7	ALEFKNQVLVKIYNRKALEPA	0	0
A0QQH7	DKVVERWAGSKKIGTTGRGIG	0	0
A0QQH7	KVVERWAGSKKIGTTGRGIGP	0	0
A0QQH7	LLMPYHVAIDKVVERWAGSKK	0	0
A0QQH7	NQVLVKIYNRKALEPAEVLEN	0	0
A0QQH7	PVCVGYTVDGKRVDEMPMTQS	0	0
A0QQH7	TRITTVLGILKAYTTRVGSGP	0	0
A0QQH7	VDPGVLLTELKGLEDRGVDT	0	0
A0QQH7	VNGITDYFLTKLDVLSSLET	0	0
A0QQH7	DVLDEQVLAEKIEAALEFKNQ	0	1
A0QQH7	ENLLEQAEGFKHRIADARLLL	0	1
A0QQH7	GAREFEDLPAKARDYVLRLEE	0	0
A0QQU5	AATEVELKERKHRIEDAVRNA	0	0
A0QQU5	AKLAGGVAVIKAGAATEVELK	0	0

A0QQU5	EDPYILLVSSKVSTVKDLLPL	0	0
A0QQU5	ENSDDYDREKLQERLAKLAG	0	0
A0QQU5	FLTTEAVVADKPEKAAAPAGD	0	0
A0QQU5	IRGTFKSVAVKAPGFGDRRKA	0	0
A0QQU5	IVRVALSAPLKQIALNGGLEP	0	0
A0QQU5	KAGAATEVELKERKHRIEDAV	0	0
A0QQU5	KEIELEDPYEKIGAELVKEVA	0	0
A0QQU5	LELTEGMRFDKGYISGYFVTD	0	0
A0QQU5	LKRGIEKAVEKVTETLLKSAK	0	0
A0QQU5	LLAAGVADPVKVTRSALQNAA	0	0
A0QQU5	_____MAKTIAAYDEEARR	0	0
A0QQU5	NPLGLKRGIEKAVEKVTETLL	0	0
A0QQU5	PLLEKVIQSGKPLLI AEDVE	0	0
A0QQU5	TEAVVADKPEKAAAPAGDPTG	0	0
A0QQU5	TITNDGVSI AKEIELEDPYEK	0	0
A0QQU5	TVKDLLPLLEKVIQSGKPLLI	0	0
A0QQU5	VKAPGFGDRRKAMLQDMAILT	0	0
A0QQU5	ADAVKVTLGPKGRNVVLEKKW	0	1
A0QQU5	ADVSLLGKARKVVVTKDETTI	0	1
A0QQU5	DREKLQERLAKLAGGVAVIKA	0	1
A0QQU5	GAELVKEVAKKTDDVAGDGTT	0	0
A0QQU5	GEALSTLVVNKIRGTFKSVAV	0	0
A0QQU5	GGLEPGVVAEKVSNLPAGHGL	0	0
A0QQU5	GPKGRNVVLEKKWGAPTITND	0	0
A0QQU5	HRIEDAVRNAKAAVEEGIVAG	0	0
A0QQU5	IGAELVKEVAKKTDDVAGDGT	0	0
A0QQU5	IGDLIAEAMDKVNEG VITVE	0	0
A0QQU5	KVTETLLKSAKEVETKEQIAA	0	0
A0QQU5	LETADVSLLGKARKVVVTKDE	0	0
A0QQU5	LGKARKVVVTKDETTIVEGAG	0	0
A0QQU5	LLKSAKEVETKEQIAATAGIS	0	0
A0QQU5	LLVSSKVSTVKDLLPLEKVI	0	0
A0QQU5	LVVNKIRGTFKSVAVKAPGFG	0	0
A0QQU5	PKGRNVVLEKKWGAPTITNDG	0	0
A0QQU5	PYEKIGAELVKEVAKKTDDVA	0	0
A0QQU5	RGLNSLADAVKVTLGPKGRNV	0	0
A0QS45	APKKKVAGLIKLIQAGQANP	0	0
A0QS45	DQVREIAETKKADLNANDIDA	0	0
A0QS45	GVQKGS GEPHKTKVAKVTWDQ	0	0
A0QS45	KLLLKAAGVQKGS GEPHKTKV	0	0
A0QS45	KTPPAKLLLKAAGVQKGS GE	0	0
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EG10489	VTLVHKGNIMKFTEGA FKDWG	0	0
EG10489	VVDAAVEKAYKGERKISWMEI	0	0
EG10489	YDFERLMDGAKLLKCSEFGDA	0	0
EG10489	ADSADAEKVIKFLREEMGVKK	0	1
EG10489	ESKVVPVPAQGKKITLQNGKLN	0	0
EG10489	EWKADSADAEKVIKFLREEMG	0	0
EG10489	NPNTGKEIVIKDVIADAF LQQ	0	0
EG10489	SEDIYAGIEWKADSADAEKVI	0	0
EG10489	SKVVPVPAQGKKITLQNGKLV	0	1
EG10492	AFQAVDQDALKAKFAVSNVNG	0	1
EG10492	AQQSEVLKGLKVALSKAEGEK	0	1
EG10492	CAKAAQEDILKAYEAYDFHEV	0	0
EG10492	CVSNVAGDGEKRKFA_____	0	0
EG10492	DDL YGIIRAAKKGKKT FILHD	0	0
EG10492	DI IKDRQYTAKADSVARRSCQ	0	0
EG10492	DLYGIIRAAKKGKKT FILHDG	0	0
EG10492	DQKGLRAQSLKEIKGVQWIPD	0	0
EG10492	EKFTAAEFRAKCREYAATQVD	0	0
EG10492	ELLKVRGEVNKVIEQARADKK	0	0
EG10492	EMGSFYLDI IKDRQYTAKADS	0	0
EG10492	GIIRAAKKGKKT FILHDGPPY	0	0
EG10492	GIQAWWDLDAKEILGDEADQY	0	0
EG10492	GKIIGNGHLHKGAKPVHWCVD	0	0
EG10492	GLRAQSLKEIKGVQWIPDWGQ	0	0
EG10492	GSIHIGHSVNKILKDIIVKSK	0	0
EG10492	HGFTVDGQGRKMSK SIGNTVS	0	0
EG10492	HGPDDYVIGQKYGLETANPVG	0	0
EG10492	HIGHSVNKILKDIIVKSKGLS	0	0
EG10492	IELKVEQEYGKPG EKFTAAEF	0	0
EG10492	IGNGHLHKGAKPVHWCVDCRS	0	0
EG10492	ILGDEADQYVKVPDTLDVWFD	0	0

EG10492	KILKDIIVKS KGLSGYDSPYV	0	1
EG10492	KVALSKAEGEK CPCRWHYTQD	0	1
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EG10492	LAEAEVEYYDKTSPSIDVAFQ	0	0
EG10492	LANLNGFDPAKDMVKPEEMVV	0	0
EG10492	_____MSDYKSTLNL PETGF	0	0
EG10492	MSSLMISTAMKGKAPYRQVLT	0	0
EG10492	NGFDPAKDMVKPEEMVVLDRW	0	0
EG10492	NKVIEQARADKKV GGSLEAAV	0	0
EG10492	NTVSPQDVMNKL GADILRLWV	0	0
EG10492	PADAQQSEVLKGLKVALSKAE	0	0
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EG10492	QEKGALLHVEKMQHSYPCCWR	0	0
EG10492	QHSYPCCWRHKTPIIFRATPQ	0	0
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EG10492	RTLELMEEVAKRVEVDGIQAW	0	0
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EG10492	TVDGQGRKMSK SIGNTVSPQD	0	0
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EG10492	VLDRWAVGCAKAAQEDILKAY	0	0
EG10492	VLKGLKVALSKAEGEK CPCRW	0	0
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EG10492	VTDYTILGTVKGAELELLRFT	0	0
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EG10492	WDCHGLPIELKVEQEYGKPGE	0	0
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EG10762	TETGVHRLVRKSPFDSGGRRH	0	0
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EG10762	VLRGYLDYDAKKERLEEVAE	0	0
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EG10762	NEPERAQALGKERSSLEAVVD	0	0
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EG10770	GVMRSREFLMKDAYSFHTSQE	0	0
EG10770	IEYKYRRNGEKQLIKTG DIVE	0	0
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EG10770	QVAILPMNMHKSFRVQELAEK	0	0
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EG10803	GGLSAEALTEKDKADIKTAAL	0	0
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EG10903	LSDYGVQLREKQKVRRYGVL	0	0
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EG10905	HAVTEASPMVKAKDERRERRD	0	0
EG10905	QLAYPINKLHKAHYVLMNVEA	0	0
EG10905	VTEASPMVKAKDERRERRDDF	0	0
EG10954	AASFGSFADFKAQFTDAAIKN	0	0
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EG11192	AHVKETYNILKKKEAVGRRLD	0	0
EG11192	EELDRLEAHVKETYNILKKKE	0	0
EG11192	ERIRSRLTRGKVECTLRYPD	0	0
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EG11192	KQLVTAANWVKMQSDEGEINP	0	0
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EG11192	SMTAYARREIKGEWGSATWEM	0	0
EG11192	VARETEGQALKALIEQRLEGV	0	0
EG11192	VKETYNILKKKEAVGRRLDFM	0	0
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EG11192	SAQGELILNEKLAKQLVTAAN	0	0
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EG11223	EAVVEAIRQGKPLEDLPLSEL	0	0
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EG11223	LAYNKDMQEDKEGLFDALDTW	0	0
EG11223	LIDKVGQLGKKLHTGRSRNDQ	0	0
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EG11223	QVATDLKLWCKDTVSELLTAN	0	0
EG11223	RDESLQDALKRLDVSPGCG	0	0
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EG11223	TSGSSLMPQKKNPDALELIRG	0	0
EG11223	VTSGSSLMPQKKNPDALELIR	0	0
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EG11415	_MSTAKLVKSKATNLLYTRND	0	0
EG11415	NDVRKAIGEAKDDDTADILTA	0	0
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EG11427	FTVDNVVAKAKELL_____	0	0
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EG11427	AYEKLTAEGVKARVVSMPSD	0	1
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EG11518	QLLKETRQMTKHLRRRPGHMT	0	0
EG11518	QMVRDTQQLKETRQMTKHLR	0	0
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EG11615	GLHFLARIRQKKYTL PVLILT	0	0
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EG12204	_____MAKIKGQVKWFNESK	0	0
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EG12545	AKNKKHVFCEKPIALSYEDCV	0	0
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EG12545	TLRSQDRKVKISEIHKHTSV	0	0
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EG12669	SGFLRSELAIKTWIQLAKEAG	0	0
EG12669	WYQADGRYSVKNKFPAFTGEL	0	0
EG12669	YGFPAENDALKIGHNGGQVI	0	0
EG12669	EIAADFAQDKKSDFDLTPFRL	0	1
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EG12982	EDATDQKNLQKLETMKDVPD	0	0
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EG12982	KTAAELTREETSAISHRGQAL	0	0
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EG12982	SAISHRGQALKLLLDALRNG_	0	0
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EG12982	KVVLATGNVGKVRELASLLSD	0	1
EG12982	NAILKARHAAKVITALPAIADD	0	1
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P0CG99	VNKAQIYAWRKGIKTLYYIRL	0	0
P0CG99	VPFADVSVTEKYEMVDDARI	0	0
P0CG99	YDADGKIQFEKDREAAKQYFL	0	0
P0CG99	YEMVDDARIRKTKINAREFFQ	0	0
P0CG99	AMLNLYDADGKIQFEKDREAA	0	1
P0CG99	DKYTDQVWEPKTDKVRRLFAD	0	1
P0CG99	KSLLDRAYAKKFRFPTFLGA	0	1
P0CG99	KSLLDRAYAKKFRFPTFLGAF	0	0
P0CG99	LAAGDTELAEKLVD EIIDGRF	0	0
P0CG99	PATPTFLNSGKKQRGEPVSCF	0	0
P0CG99	RENADEKIRIKTSLSLGVVIPD	0	0
P0CG99	VIPDITFELAKKNEDMYL FSP	0	0
P0CG99	VLDQYSRDFIKSLLDRAYAKK	0	0
P0CG99	VL FHALRASNKIAIERGTHFK	0	0
P0CG99	YQDAYEIGYEKIIDTYAAATQ	0	0
P0CH36	GICHSDIHTVKA EWGVPNYPV	0	0
P0CH36	GLGGLGHVAVKLAKAMGADVT	0	0
P0CH36	LDLGAYLGLLKLDGALVELGL	0	0
P0CH36	LRHWNAGPGKKVAVIGLGGLG	0	0
P0CH36	PLRHWNAGPGKKVAVIGLGGL	0	0
P0CH36	TEVGSEVTKYKVGDRVGVGCF	0	0
P0CH36	VDS CRECDNCKAGLEQYCTGT	0	0
P0CH36	VVTEVGSEVTKYKVGDRVGVG	0	0
P0CH36	YATSDPETFDKLAGSFDLILN	0	0
P0CH36	AATSATEPLTKTTITRRAVGP	0	1
P0CH36	DVTVLSQSLKKMEDGLRLGAS	0	0
P0CH36	GLGHVAVKLAKAMGADVTVLS	0	0
P17670	AGHVNHTIWWKNLSPNGGDKP	0	0

P17670	AIADAFGSFDKFRAQFHAAAT	0	0
P17670	AVAKLEEARAKEDHSAILLNE	0	0
P17670	EDHSAILLNEKNLAFNLAGHV	0	0
P17670	HAFYLQYKNVKVDFAKAFWNV	0	0
P17670	MWEHAFYLQYKNVKVDFAKAF	0	0
P17670	QYKNVKVDFAKAFWNVNWAD	0	0
P17670	YVKGANDAVAKLEEARAKEDH	0	0
P17670	AALGWDTLGNKLLIFQVYDHQ	0	0
P17670	HHSKHHATYVKGANDAVAKLE	0	0
P17670	SGQINELHHSKHHATYVKGAN	0	0
P17670	WKNLSPNGGDKPTGELAAIA	0	0
P60176	ADIVVTATGNKDIIIMLEHIKA	0	0
P60176	ADLSLADFGRKELRIAEHEMP	0	0
P60176	DKWTKIAESVKGVTETTTGV	0	0
P60176	DVGKGCAEAMKGQGARVSVTE	0	0
P60176	EPKGVVPVFAWKGETLEEYWWA	0	0
P60176	EQMLTWPDPAKDPANMILDDGG	0	0
P60176	ERSGATRVNVKPQVDLWTFGD	0	0
P60176	EYDNEVYRLPKHLDEKVARIH	0	0
P60176	HVEALGGHLTKLTKEQAEYLG	0	0
P60176	IIMLEHIKAMKDHAILGNIGH	0	0
P60176	LRTRFETDKDKWTKIAESVKG	0	0
P60176	MLVLRGMQYEKAGVPPAEED	0	0
P60176	___MTGNLVTKNSLTPDVRNG	0	0
P60176	NKDIIMLEHIKAMKDHAILGN	0	0
P60176	NLLRTRFETDKDKWTKIAESV	0	0
P60176	NRGTDALIGGKKVLICGYGDV	0	0
P60176	PAEEDDPAEWKVFLNLLRTRF	0	0
P60176	RFETDKDKWTKIAESVKGVT	0	0
P60176	RGTDALIGGKKVLICGYGDVG	0	0
P60176	RREYAEVQPLKGARISGSLHM	0	0
P60176	VGPHGTPDEPKGVVPVFAWKGE	0	0
P60176	VLICGYGDVGKGCAEAMKGQG	0	0
P60176	VYRLPKHLDEKVARIHVEALG	0	0
P60176	YLGVDVEGPYKPDHYRY___	0	0
P60176	QTIAQIELWTKNDEYDNEVYR	0	1
P60176	TPDVRNGIDFKIADLSLADFG	0	1
P60796	EGVFVGSIFKSGAPEHRAAA	0	0
P60796	GNPATGTARVKGMAEMLKGG	0	0
P60796	IAAVTIPVMAKVRIGHFVEAQ	0	0
P60796	ISEGAAMIRSKGEAGTGDVSN	0	0
P60796	MSEDELFAAKELQAPYELVA	0	0
P60796	TPADYAHHIDKWNFTVPFVCG	0	0
P60796	APEHRAAAIVKATTFDDPDV	0	1
P60796	ELVAEVARAGKLPVTLFTAGG	0	0
P63345	AKAVANSLAKKMAEVRGDDAH	0	0
P63345	ARNSKLMETLKEARQQLLALR	0	0
P63345	CSPNIDAASLKKGQTVRLNEA	0	0

P63345	DAEAAQDIYSKYLTEFLPVHA	0	0
P63345	DTV DVFTSGRKMRLTCSPNID	0	0
P63345	EFDGDRSACIKAMIEKVVD RM	0	0
P63345	EVRGDDAHEAKSYFLNIKGPE	0	0
P63345	HEAKSYFLNIKGPELLNKFVG	0	0
P63345	LYREYSLRPPKGVLLYGPPGC	0	0
P63345	RDAVELPFLHKELYREYSLRP	0	0
P63345	RIDSLAARNSKLMETLKEARQ	0	0
P63345	RSACIKAMIEKVVD RMYAEID	0	0
P63345	SPNIDAASLKKGQTVRLNEAL	0	0
P63345	AMIQNVVDRAKKNAIKSVLET	0	1
P63345	EALNDDTRPRKL R PGDSL LVD	0	0
P63345	MIQNVVDRAKKNAIKSVLETG	0	0
P63345	VVDRAKKNAIKSVLETGQPGL	0	0
P63458	ELARRCVLAGKDVIVAGHSVG	0	0
P63458	ELRGVPARAVKSPADLDELAN	0	0
P63458	LAATRGAEMAKACATEPTGMS	0	0
P63458	PPAGTLSGIAKREL RGV PARA	0	0
P63458	TATLLSNRDGKPVTSAAAAMD	0	0
P63458	GAADQIAAWSKAADLDLARLG	0	1
P63458	LEKLAEDPPAKARVRALGVAG	0	0
P63523	AISVPVDHTEKLVTVIELKLL	0	0
P63523	EDEMFI VGRMKDMLIVYGRNH	0	0
P63523	GDNV AEGYWNKPDETRHTFGA	0	0
P63523	GEAMDELDVIKNNVTAAISRS	0	0
P63523	LTGNSPSFRVKDLPSAAYLQY	0	0
P63523	PAGTIGEIWVKGDNV AEGYWN	0	0
P63523	PGSIPTTTS GKIRRAACVEQY	0	0
P63523	TEKLVTVIELKLLGDSAGEAM	0	0
P63523	LYVASRNSGDKPEVVYFEPDK	0	0
P63523	PNFAFELAVRKTTDADIEGLD	0	1
P63523	STGSANRCEPKGTPLLSYGM	0	1
P63568	FKLSRLTGRTKLVA AHDAFHG	0	0
P63568	GITPDVVTLAKGLGGGLPIGA	0	0
P63568	GSLALTGQPAKQTPFAPLP GD	0	0
P63568	LGIALTAPHAKDAEATARDAG	0	0
P63568	SGAEANEAAFKLSRLTGRTKL	0	0
P63673	AIAQHWMYEGKHVLIIFDDL T	0	0
P63673	AVKVKKPAPKKKK_____	0	0
P63673	DEDKLAKEAVKVKKPAPKKKK	0	0
P63673	DEHVEALDEDKLAKEAVKVKK	0	0
P63673	DKLAKEAVKVKKPAPKKKK__	0	0
P63673	EAVKVKKPAPKKKK_____	0	0
P63673	ERGARLV ELLKQPQS QPMPVE	0	0
P63673	FENIEEGQQVKRTGEVLSVPV	0	0
P63673	GQRQLIIGDRKTGKTAVCVDT	0	0
P63673	HVLIIFDDLTKQAEAYRAISL	0	0
P63673	KLAKEAVKVKKPAPKKKK__	0	0

P63673	KVKKPAPKKKK_____	0	0
P63673	LHSRLLERCAKLSDDLGGGSL	0	0
P63673	QLIIGDRKTGKTAVCVDILN	0	0
P63673	QRQNWESGDPKKQVRCVYVAI	0	0
P63673	RQNWESGDPKKQVRCVYVAIG	0	0
P63673	SLTGLPIIETKANDISAYIPT	0	0
P63673	VEALDEDKLAKEAVKVKKPAP	0	0
P63673	VGGAAQIKAMKEVAGSLRLDL	0	0
P63673	VKVKKPAPKKKK_____	0	0
P63673	VSRVGGAAQIKAMKEVAGSLR	0	0
P63673	AAAASESAGFKWLAPYTGSAI	0	1
P63673	AFASDLDAASKAQLERGARLV	0	1
P63673	APSVVHRQGVKEPLQTGIKAI	0	0
P63673	DKLTEVIKNFKKGFAATGGGS	0	0
P63673	EAADKLTEVIKNFKKGFAATG	0	0
P63673	EILTEIRDSQKLTEEAADKLT	0	0
P63673	GVKEPLQTGIKAIDAMTPIGR	0	0
P63673	KLTEVIKNFKKGFAATGGGSV	0	0
P63673	VRCVYVAIGQKGTIAAVRRT	0	0
P64245	AVTNQWVNSYKRLVQGGEAPT	0	0
P64245	DDPLQLSEVGKSFIAGILEHA	0	0
P64245	DNVMTFRYVIKEVALEEGARA	0	0
P64245	EEGARASFMPKPFQHPGSAM	0	0
P64245	EHVFDFFLRNKRTEWANYRSH	0	0
P64245	LVRVPMYTPHKTSSRRVEVRS	0	0
P64245	LWFTDVLGFLKSVAIAPAELE	0	0
P64245	VHPEIEFFLLKPGPEDGSVPV	0	0
P64245	PRHVLRRQLTKAGELGFSCYV	0	1
P65161	KQLNKLINVIKIVEQDDEHSV	0	0
P65161	LTVEATGNRGKLEALLRVLEP	0	0
P65161	SRGPRGIGTAK_____	0	0
P65161	THTLSVLVEDKPGVLARVAAL	0	0
P65161	AEDTPLEQITKQLNKLINVIK	0	1
P65161	HSVSRELALIKVQADAGSRSQ	0	1
P65161	_____MSPKTHTLSVLVED	0	1
P65232	ISARLIADLLKTAGADRIVTV	0	0
P65232	LGGVPLAFIHKTRDPRVPNQV	0	0
P65232	MIDALKRGS AKRITAVMPFYP	0	0
P65232	MPFYPYARQDKKHRGREPISA	0	0
P65232	_MSHDWTDNRKNLMLFAGRAH	0	0
P65232	PDSGRVRIA EKWADALGGVPL	0	0
P65232	PFYPYARQDKKHRGREPISAR	0	0
P65232	MEQLIMIDALKRGS AKRITAV	0	1
P65232	VTNTLPIGEDKRFPQLTVLSI	0	1
P65277	EAFEGACAYWKPRTL PAP____	0	0
P65277	GLDDIALTLRKLDEIEAFEGA	0	0
P65277	TDQIIPAVFLKRVTRTGFEDG	0	0
P65277	FGDIFRGNAGKAGLLAAEVAQ	0	0

P65277	VAQDDVELLWKLIEQSPGLEI	0	0
P65573	LVDSLRS DTPKAPTRGAPLCG	0	0
P65573	MGGDAIFDRLKEHLGVGHDET	0	0
P65573	PTLAGLQVARKNDMQAPPTPG	0	0
P65880	ACEFKNQVLVKIYNRKALDPA	0	0
P65880	DKVTERYMGSKKIGTTGRGIG	0	0
P65880	DVLDPEQLTHKVEAAACEFKNQ	0	0
P65880	GAQWGDEGKGKATDLLGGRVQ	0	0
P65880	GLQDRGVDTAKLLISADAHLL	0	0
P65880	GRGIGPCYQDKIARIGIRVAD	0	0
P65880	KVTERYMGSKKIGTTGRGIGP	0	0
P65880	LIGAQWGDEGKGKATDLLGGR	0	0
P65880	LLMPYHIAIDKVTERYMGSKK	0	0
P65880	PMTQRDL CRAKPVYEELPGWW	0	0
P65880	THKVEAAACEFKNQVLVKIYNR	0	0
P65880	TRIGTVLGILKAYTTRVGSGP	0	0
P65880	VNGITDYFLT KLDVLSSLESV	0	0
P65880	DALLEQAEGFKHRIADTRLLL	0	0
P65880	GAREFDDLPAKARDYVLRLEQ	0	0
P65880	NQVLVKIYNRKALDPAQVVDA	0	0
P66056	APKKKVAGLIKLQIVAGQANP	0	0
P66056	DQVREIAETKKTDLNANDVDA	0	0
P66056	GVAKGS AEPHKTKVAKVTWDQ	0	0
P66056	KLLLKAAGVAKGS AEPHKTKV	0	0
P66056	KTPPAKLLLKAAGVAKGSAE	0	0
P66056	LNANDVDAAAKIIAGTARSMG	0	0
P66056	_____MAPKKKVAGLIKLQ	0	0
P66056	_____MAPKKKVAGLIKLQI	0	0
P66056	_____MAPKKKVAGLIKLQIV	0	0
P66056	QHGVNIMEFCKAYNAATENQR	0	0
P66056	TFTLKTPPAKLLLKAAGVAK	0	0
P66056	WDQVREIAETKKTDLNANDVD	0	0
P66056	YEDRSFTFTLKTPPAKLLLK	0	0
P66056	AKGS AEPHKTKVAKVTWDQVR	0	0
P66902	GNAGNITAYWKGYTEYHQLGL	0	0
P66902	KLAQAVMHGAKIIQIDGNFDD	0	0
P66902	NGLKDPDTALKDMPSVSPVPV	0	0
P66902	SKQTGCTIHLKVEGLNPTGSF	0	0
P66902	SVNPVRIEGQKTA AFEIVDVL	0	0
P66902	TSAVEAQQQSKGRFLAASDEE	0	0
P66902	VEGLNPTGSFKDRGMTMAVTD	0	0
P66902	VVCTVTGNGLKDPDTALKDMP	0	0
P66902	ASAASIAGLLKAIDDGWVARG	0	0
P66902	TEYHQLGLIDKLPRMLGTQAA	0	0
P66902	TPLIAATNLSKQTGCTIHLKV	0	0
P66902	VPVDPVAVVEKLGLA_____	0	0
P69440	DTDDVILNRMKVYRDETAPLL	0	0
P69440	EEGTKLGVEAKRYLDAGDLVP	0	0

P69440	LFRRNIEEGTKLGVEAKRYLD	0	0
P69440	PLLEYRDQLKTVDAVGTMD	0	0
P69440	VLLGPPGAGKGTQAVKLA	0	0
P69440	VSEEVLLERLKGRGRADDD	0	0
P69440	KGTQAVKLAEKLGPQIST	0	0
P69440	PGAGKGTQAVKLAEKLGP	0	0
P69440	VFARALRALGK_____	0	0
P71703	AIFASENNTIKIADVAPT	0	0
P71703	ARVPIVGDDIKSQVGATIT	0	0
P71703	AVTSNLKREFKTKDVHIG	0	0
P71703	FGDVPLNLEYKLEVWDSP	0	0
P71703	FIASDPVWAKKFTDARVPI	0	0
P71703	GATITHRVLAKLFEDRGVQ	0	0
P71703	IDAVRAAKIAKDRGIGGP	0	0
P71703	MLERERLESKKISKTA	0	0
P71703	NMLERERLESKKISKTA	0	0
P71703	PVIPASAYLMKSPPEQLP	0	0
P71703	QRGPTLDGIGKYYADTIEL	0	0
P71703	RERLESKKISKTA	0	0
P71703	RFGPYHVRDVKFVA	0	0
P71703	SDHVGWLD	0	0
P71703	SKTQAVTSNLKREFKTKDV	0	0
P71703	TSNLKREFKTKDVHIGPS	0	0
P71703	VDVVQALKEAKVDVLSYLP	0	0
P71703	VFIASDPVWAKKFTDARVPI	0	0
P71703	AEPVDVVQALKEAKVDVLSY	0	1
P71703	FVA	0	0
P71703	GVIIDAVRAAKIAKDRGIG	0	0
P71703	YLPVGSEEADKFYAQCAID	0	0
P71724	LIAALSAALLKLPVANWP	0	0
P71724	DLRRAYDTAVKLGERTGLV	0	1
P71973	AEHGMAARGYKDVRANTVP	0	0
P71973	VGLHRPAEFNKSHIPAF	0	0
P77899	GVLPLYLRPDGKTQVTIAY	0	0
P77899	ILEIGYDSSDKGFDGATCG	0	0
P77899	_____MSEKGRLFTSES	0	0
P77899	RLSRRLTEVRKNGVLPYLR	0	0
P77899	TQHAADIDLEKTLDPDIRE	0	0
P77899	TVRVLVNPTGKFVLGGPMG	0	0
P77899	DVELPWEQLDKVDDLKRAI	0	1
P77899	EKTLDPDIREKVLNTVLD	0	0
P77899	HVVGEVTTSAKEAFADIT	0	0
P77899	TETEDPVKIEKAIGE	0	1
P77899	WEQLDKVDDLKRAI_____	0	1
P96382	PGTRMRS	0	0
P96382	QRNIENWVQKRPGSPAAQ	0	0
P96382	RPGSPAAQASKRASEMACQ	0	0
P96382	SVFVNYDGT	0	0

P96382	MLSHVLHAIAKLAPQRLIVVL	0	1
P96382	RPGTALGADGKLGAFFEVEKNS	0	0
P96382	VKNSTIGTGTKVPHLTYVGDA	0	0
P96825	AGILRDGTFHKMSFENWDAVL	0	0
P96825	ATEDGAANIITKALDEFGAVH	0	0
P96825	LFGNDGANFDKPPSVQDVAAR	0	0
P96825	LINTLALEGAKYNIHANALAP	0	0
P96825	MSFENWDAVLKVHLYGGYHVL	0	0
P96825	NASVYVVGGGKVQRVALFGND	0	0
P96825	NFGQTNYGAAKLGLVGLINTL	0	0
P96825	QDILPPEVLEKLTPEFVAPVV	0	0
P96825	ADEVVAEIRDKGGRVANYDS	0	0
P96825	DLSGAKIAGFKL_____	0	0
Q10504	AKTIKGYALGKHFEGRNATHQ	0	0
Q10504	ATTMATVRTFKEVLRDKQIGP	0	0
Q10504	AVDADMLLAYKESEVGQILHE	0	0
Q10504	EGRNATHQMKKLTLEDLKEFR	0	0
Q10504	EVGFNHFFRGKSHPGGGDQVF	0	0
Q10504	FEGRNATHQMKKLTLEDLKEF	0	0
Q10504	FNHYLHDRGIKDTSDQHVVCF	0	0
Q10504	GFVPERRTKSKALTLPRDIY	0	0
Q10504	HKGQPTVILAKTIKGYALGKH	0	0
Q10504	LGGFVPERRTKSKALTLPRD	0	0
Q10504	LPGRDIYAPLKKGSGHQEVAT	0	0
Q10504	NLKRGGHDYRKVYAAYRAAVD	0	0
Q10504	NMSDQDIWNLKRGGHDYRKVY	0	0
Q10504	NRDGVAIETEKLRHPDRPAGV	0	0
Q10504	PGRDIYAPLKKGSGHQEVATT	0	0
Q10504	QMKKLTLEDLKEFRDTQRIPV	0	0
Q10504	QPTVILAKTIKGYALGKHFE	0	0
Q10504	TTPDGDYQTYKANDGGYVRDH	0	0
Q10504	VRTFKEVLRDKQIGPRIVPII	0	0
Q10504	YAAAYRAAVDHKGQPTVILAKT	0	0
Q10504	YHAATEQRTNKAQILASGVAM	0	0
Q10504	FFRGAGWNVIKVVWGREWDAL	0	1
Q10530	ALTDYFIERKLYPNVDFYTG	0	0
Q10530	DDVSEFVRKVKNREAGVKLMG	0	0
Q10530	GGDDSLGIAKELEEAAALTDD	0	0
Q10530	KLMGFGHRVYKKNYDPRARIVK	0	0
Q10530	KLPTIAAYAYKKSVMGPFLYP	0	0
Q10530	LPTIAAYAYKKSVMGPFLYPD	0	0
Q10530	QRHTMLHEDLKRFFDGFPRNA	0	0
Q10530	RGYPIDQLAEKSTFIEVCYLL	0	0
Q10530	RKVKNREAGVKLMGFGHRVYK	0	0
Q10530	VELSTIRLLAKLPTIAAYAYK	0	0
Q10530	VKEQADKILAKLGGDDSLGI	0	0
Q10530	WREMHDEGDSKIGRPRQIYTG	0	0
Q10530	DGIALGPLLAKTGHTTFDVG	0	0

Q10530	DVG FANTAAAKSSITYIDGDA	0	0
Q10530	KNYDPRARIVKEQADKILAKL	0	0
Q10530	SGDDVSEFVRKVKNREAGVKL	0	0
Q10682	ARVITTGGSQKAVNADRSGLA	0	0
Q50685	AIACKDPEKKKKLMTDIFALA	0	0
Q50685	AYVLEGG SARKLIEAREKAFW	0	0
Q50685	DFDQVMAAVPKILASGLAPDI	0	0
Q50685	DGNVHMAIACKDPEKKKKLMT	0	0
Q50685	EAREKAFWAAKALGADDIIDT	0	0
Q50685	GLLISFDRMNKVLEVDTANQV	0	0
Q50685	GPPQKPAYAAKPATPEEVAQL	0	0
Q50685	GTNAGGMRAVKYGVARHNVLG	0	0
Q50685	GYFLELED PVKISLMRRIKQS	0	0
Q50685	HDEELTGPPQKPAYAAKPATP	0	0
Q50685	HMAIACKDPEKKKKLMTDIFA	0	0
Q50685	IACKDPEKKKKLMTDIFALAM	0	0
Q50685	ISGEHGVGRAKTGYFLELEDP	0	0
Q50685	MAIACKDPEKKKKLMTDIFAL	0	0
Q50685	PVKISLMRRIKQSFD PAGILN	0	0
Q50685	ATPEEVAQLLKAASENGVPVT	0	1
Q50685	EIIRTGGRMAKVSTGYDLTQL	0	0
Q50685	SARKLIEAREKAFWAAKALGA	0	0
Q50685	TLALVTEVIVKLHPRLDHNAS	0	0
Q7D8W0	GGSSKDRIAVKMIEAAEASGQ	0	0
Q7D8W0	GPEIWADTEGKVTHFVAGIGT	0	0
Q7D8W0	GTITGAGRYLKEVSGGRVRIV	0	0
Q7D8W0	GYKCVFVCPDKVSEDKRNVLI	0	0
Q7D8W0	IEAAEASGQLKPGGTIVEPTS	0	0
Q7D8W0	LALVAQRRGYKCVFVCPDKVS	0	0
Q7D8W0	LPDGGRGYMSKIFNDAWMSSY	0	0
Q7D8W0	RLVRDIDGAWKPDQYANPEGP	0	0
Q7D8W0	SCGMAVVAALKVAEEAGPDAL	0	0
Q7D8W0	VEYLNPGGSSKDRIAVKMIEA	0	0
Q7D8W0	WDALMVVEEGKPVGVITRYDL	0	0
Q7D8W0	FVCPDKVSEDKRNVLIAYGAE	0	0
Q7D8W0	LLSAVFEGRAKLADAVSAHMS	0	0
Q7D8W0	QSTVGDVLRKSGALPALVHT	0	0
Q7D8W0	VPDGAGTVAAKVEYLNPGGSS	0	0

Table S4. The 10-fold cross-validation prediction results of PSoL on the training dataset.

Protein Name	Peptide	Class label	Prediction label
A0QNF6	FGEVVDEESQKVVDIASTPT	1	0
A0QP32	DYFAHWINVGKNADESKLPKV	1	1
A0QP90	AGATRIIGVAKAGLDDAGYRN	1	0
A0QPN2	ANADTVTLWSKLALESARARR	1	1
A0QQ65	NMKYADGTPIKASDFTYAIQR	1	0
A0QQH7	LFDEHGAYLAKTGGEVGVTTG	1	0

A0QQU5	AVEKVTETLLKSAKEVETKEQ	1	1
A0QQU5	VAAGANPLGLKRGIEKA VEKV	1	0
A0QS45	SGEPHKTKVAKVTWDQVREIA	1	0
A0QS98	KALEGDPKWVKSVEELMEAVD	1	0
A0QSE0	KRWRLVEILEKAK_____	1	0
A0QSH8	KGTQAEKLSEKLGIPQISTGD	1	1
A0QSL6	SGHVGFKGSRKSTPFAAQLAA	1	1
A0QSU4	KIAQVVEVAAKEPEPSAAIRL	1	1
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EG10492	KVALSKAEGEKCPRCWHYTQD	0	0
EG10492	KVIEQARADKKVGGSLAAVT	0	0

EG10492	LAEAEVEYYDKTSPSIDVAFQ	0	0
EG10492	LANLNGFDPKDMVKPEEMVV	0	0
EG10492	_____MSDYKSTLNLPETGF	0	0
EG10492	MSSLMISTAMKGKAPYRQVLT	0	0
EG10492	NGFDPKDMVKPEEMVVLDRW	0	0
EG10492	NKVIEQARADKKVGGSLAAV	0	0
EG10492	NTVSPQDVMNKLGAIDLRLWV	0	0
EG10492	PADAQQSEVLKGLKVALSKAE	0	0
EG10492	QAVDQDALKAKFAVSNVNGPI	0	0
EG10492	QEKGALLHVEKMQHSYPCCWR	0	1
EG10492	QHSYPCCWRHKTPIIFRATPQ	0	0
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EG10492	RTLELMEEVAKRVEVDGIQAW	0	0
EG10492	SLMISTAMKGKAPYRQVLTHG	0	0
EG10492	SNVAGDGEKRKFA_____	0	0
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EG10492	TGFPMRGDLAKREPGMLARWT	0	0
EG10492	TPQWFVSMDQKGLRAQSLKEI	0	0
EG10492	TVDGQGRKMSKSGINTVSPQD	0	0
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EG10492	VLDRWAVGCAKAAQEDILKAY	0	0
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EG10492	VNKILKDIIVKSGLSGYDSP	0	0
EG10492	VTDYTILGTVKGAELELLRFT	0	0
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EG10492	WGVPMSLFVHKDTEELHPRTL	0	0
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EG10492	YPTLDGVNVFKANDIVVALLQ	0	0
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EG10492	NDIVVALLQEKGALLHVEKMQ	0	1
EG10492	QIDGQAVILAKDLVESVMQRI	0	1
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EG10492	YAATQVDGQRKDFIRLGVLGD	0	1
EG10762	AKLYELEMQKKNAEKQAMEDN	0	0
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EG10762	EVAGIKSVTIKISGDYAYGWL	0	0
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EG10762	KNKDQAMKQMKAKLYELEMQK	0	0
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EG10762	RSYVLDDSRKDLRTGVETR	0	0
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EG10762	VLRGYLDYDAKKERLEEVNAE	0	0
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EG10762	NEPERAQALGKERSSLEAVVD	0	1
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EG10770	GVMRSREFLMKDAYSFHTSQE	0	0
EG10770	IEYKYRRNGEKQLIKTGDIVE	0	0
EG10770	LPLNFYQIQTKFRDEVPRFG	0	0
EG10770	NIELAEAIAPKEPRAAATQEM	0	0
EG10770	QGIEVLLDDRKERPGVMFADM	0	0
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EG10803	SPEDHKMRADKVREIAAKLGR	0	1
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EG10903	LSDYGVQLREKQKVRRYGV	0	0
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EG10903	SPNDVVSIREKAKKQSRVKA	0	1
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EG10905	HAVTEASPMVKAKDERRERRD	0	0
EG10905	QLAYPINKLHKAHYVLMNVEA	0	0
EG10905	VTEASPMVKAKDERRERRDDF	0	0
EG10954	AASFGSFADFKAQFTDAAIKN	0	0
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EG11192	EELDRLEAHVKETYNILKKKE	0	0
EG11192	ERIRSRLTRGKVECTLRYPED	0	0
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EG11192	VKETYNILKKKEAVGRRLDFM	0	0
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EG11223	LIDKVGQLGKKLHTGRSRNDQ	0	0
EG11223	LQSCLDKRAAKGGVSPQQVAQ	0	0
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EG11223	QVATDLKLWCKDTVSELLTAN	0	0
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EG11223	TSGSSLMPQKKNPDALELIRG	0	0
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EG11415	LDIHNVDHDLKELADRYAIVA	0	0
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EG11427	CDQVESAVAWKYGVERQDGPT	0	0
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O05598	DTLLWAKLIDKYQGTMTAAPN	0	1
O05598	FLVAIPILEQKGMQVLTVADL	0	1
O05598	PGTIPKTPSGKLRANSVTLV	0	1
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O05814	FTADVLGEDGKPVRLTMGSYG	0	0
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O05814	GRTVTAADTLKNVLIKVRQPG	0	0
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P17670	EDHSAILLNEKNLAFNLAGHV	0	0

P17670	HAFYLQYKNVKVDFAKAFWNV	0	0
P17670	MWEHAFYLQYKNVKVDFAKAF	0	0
P17670	QYKNVKVDFAKAFWNVVNWAD	0	0
P17670	YVKGANDAVAKLEEARAKEDH	0	0
P17670	AALGWDTLGNKLLIFQVYDHQ	0	1
P17670	HHSKHHATYVKGANDAVAKLE	0	1
P17670	SGQINELHHSKHHATYVKGAN	0	1
P17670	WKNLSPNGGDKPTGELAAAIA	0	1
P60176	ADIVVTATGNKDIIIMLEHIKA	0	0
P60176	ADLSLADFGRKELRIAEHEMP	0	0
P60176	DKWTKIAESVKGVTETTTGV	0	0
P60176	DVGKGCAEAMKGQGARVSVTE	0	0
P60176	EPKGVVPFAWKGETLEEYWWA	0	0
P60176	EQMLTWPDPKPANMILDDGG	0	0
P60176	ERSGATRVNVKPQVDLWTFGD	0	0
P60176	EYDNEVYRLPKHLDEKVARIH	0	0
P60176	HVEALGGHLTKLTKEQAEYLG	0	0
P60176	IIMLEHIKAMKDHAILGNIGH	0	0
P60176	LRTRFETDKDKWTKIAESVKG	0	0
P60176	MLVLRGMQYEKAGVPPAEED	0	0
P60176	___MTGNLVTKNSLTPDVRNG	0	0
P60176	NKDIIIMLEHIKAMKDHAILGN	0	0
P60176	NLLRTRFETDKDKWTKIAESV	0	0
P60176	NRGTDALIGGKKVLICGYGDV	0	1
P60176	PAEEDDPAEWKVFLNLLRTRF	0	0
P60176	RFETDKDKWTKIAESVKGVT	0	0
P60176	RGTDALIGGKKVLICGYGDVG	0	0
P60176	RREYAEVQPLKGARISGSLHM	0	0
P60176	VGPHGTPDEPKGVPVFAWKGE	0	0
P60176	VLICGYGDVGKGCAEAMKGQG	0	0
P60176	VYRLPKHLDEKVARIHVEALG	0	0
P60176	YLGVDVEGPYKPDHYRY___	0	0
P60176	QTIAQIELWTKNDEYDNEVYR	0	1
P60176	TPDVRNGIDFKIADLSLADFG	0	1
P60796	EGVFVGS GIFKSGAPEHRAAA	0	0
P60796	GNPATGTARVKGMAEMLKGG	0	0
P60796	IAAVTIPVMAKVRIGHFVEAQ	0	0
P60796	ISEGAAMIRSKGEAGTGDVSN	0	0
P60796	MSEDEL FVA AKELQAPYELVA	0	0
P60796	TPADYAHHIDKWNFTVPFVCG	0	0
P60796	APEHRAAAIVKATTFDDPDV	0	1
P60796	ELVAEVARAGKLPVTLFTAGG	0	1
P63345	AKAVANSLAKKMAEVRGDDAH	0	0
P63345	ARNSKLMETLKEARQQLALR	0	0
P63345	CSPNIDAASLKKGQTVRLNEA	0	0
P63345	DAEAAQDIYSKYLTEFLPVHA	0	0
P63345	DTVVDVFTSGRKMRLTCSPNID	0	1
P63345	EFDGDRSACIKAMIEKVVDRM	0	0

P63345	EVRGDDAHEAKSYFLNIKGPE	0	0
P63345	HEAKSYFLNIKGPELLNKFVG	0	0
P63345	LYREYSLRPPKGVLLYGPPGC	0	0
P63345	RDVELPFLHKELYREYSLRP	0	0
P63345	RIDSLAARNSKLMETLKEARQ	0	0
P63345	RSACIKAMIEKVVDRLMYAEID	0	0
P63345	SPNIDAASLKKGQTVRLNEAL	0	0
P63345	AMIQNVVDRAKKNAIKSVLET	0	1
P63345	EALNDDTRPRKLRLPGDSSLVD	0	1
P63345	MIQNVVDRAKKNAIKSVLETG	0	1
P63345	VVDRAKKNAIKSVLETGQPGL	0	1
P63458	ELARRCVLAGKDVIVAGHSVG	0	0
P63458	ELRGVPARAVKSPADLDELAN	0	0
P63458	LAATRGAEAMAKACATEPTGMS	0	0
P63458	PPAGTLSGIAKRELRGVPARA	0	0
P63458	TATLLSNRDGKPVTSAAAAMD	0	0
P63458	GAADQIAAWSKAADLDLARG	0	1
P63458	LEKLAEDPPAKARVRALGVAG	0	1
P63523	AISVPVDHTEKLVTVIELKLL	0	0
P63523	EDEMFIIVGRMKDMLIVYGRNH	0	0
P63523	GDNVAEGYWNKPDETRHTFGA	0	0
P63523	GEAMDELVDIKNNVTAAISRS	0	0
P63523	LTGNSPSFRVKDLPSAAYLQY	0	0
P63523	PAGTIGEIWVKGDNVAEGYWN	0	0
P63523	PGSIPTTTSKGIRRAACVEQY	0	0
P63523	TEKLVTVIELKLLGDSAGEAM	0	0
P63523	LYVASRNSGDKPEVVYFEPDK	0	1
P63523	PNFAFELAVRKTDDADIEGLD	0	1
P63523	STGSANRCEPKGTPLLSYGM	0	1
P63568	FKLSRLTGRTKLVAAHDAFHG	0	0
P63568	GITPDVVTAKGLGGGLPIGA	0	0
P63568	GSLALTGQPAKQTPFAPLPGD	0	0
P63568	LGIALTAPHAKDAEATARDAG	0	1
P63568	SGAEANEAAFKLSRLTGRTKL	0	1
P63673	AIAQHWMYEGKHVLIIFDDLT	0	0
P63673	AVKVKKPAPKKKK_____	0	0
P63673	DEDKLAKEAVKVKKPAPKKKK	0	0
P63673	DEHVEALDEDKLAKEAVKVKK	0	0
P63673	DKLAKEAVKVKKPAPKKKK__	0	0
P63673	EAVKVKKPAPKKKK_____	0	0
P63673	ERGARLVELLKQPQSQPMPVE	0	0
P63673	FENIEEGQQVKRTGEVLSVPV	0	0
P63673	GQRQLIGDRKTGKTAVCVDLT	0	0
P63673	HVLIIFDDLTQAEAYRAISL	0	0
P63673	KLAKEAVKVKKPAPKKKK__	0	0
P63673	KVKKKPAPKKKK_____	0	0
P63673	LHSRLLERCAKLSDDLGGGSL	0	0
P63673	QLIGDRKTGKTAVCVDLTILN	0	0

P63673	QRQNWESGDPKKQVRCVYVAI	0	0
P63673	RQNWESGDPKKQVRCVYVAIG	0	0
P63673	SLTGLPIIETKANDISAYIPT	0	0
P63673	VEALDEDKLAKEAVKVKKPAP	0	0
P63673	VGGAAQIKAMKEVAGSLRLDL	0	0
P63673	VKVKKPAPKKKK_____	0	0
P63673	VSRVGGAAQIKAMKEVAGSLR	0	0
P63673	AAAASESAGFKWLAPYTGSAI	0	1
P63673	AFASDLDAASKAQLERGARLV	0	1
P63673	APSVVHRQGVKEPLQTGIKAI	0	1
P63673	DKLTEVIKNFKKGFAATGGGS	0	1
P63673	EAADKLTEVIKNFKKGFAATG	0	1
P63673	EILTEIRDSQKLTEEAADKLT	0	1
P63673	GVKEPLQTGIKAIDAMTPIGR	0	1
P63673	KLTEVIKNFKKGFAATGGGSV	0	1
P63673	VRCVYVAIGQKGTIAAVRRT	0	1
P64245	AVTNQWVNSYKRLVQGGAPT	0	0
P64245	DDPLQLSEVGKSFIAGILEHA	0	0
P64245	DNVMTFRYVIKEVALEEGARA	0	0
P64245	EEGARASFMPKPFQHPGSAM	0	0
P64245	EHVFDFFLRNKRTEWANYRSH	0	1
P64245	LVRVPMYTPHKTSSRRVEVRS	0	0
P64245	LWFTDVLGFLKSVAIAPAELE	0	0
P64245	VHPEIEFFLLKPGPEDGSVPV	0	0
P64245	PRHVLRRQLTKAGELGFSCYV	0	1
P65161	KQLNKLINVIKIVEQDDEHSV	0	0
P65161	LTVEATGNRGKLEALLRVLEP	0	0
P65161	SRGPRGIGTAK_____	0	0
P65161	THTLSVLVEDKPGVLARVAAL	0	0
P65161	AEDTPLEQITKQLNKLINVIK	0	1
P65161	HSVSRELALIKVQADAGSRSQ	0	1
P65161	_____MSPKTHTLSVLVED	0	1
P65232	ISARLIADLLKTAGADRIVTV	0	0
P65232	LGGVPLAFIHKTRDPRVPNQV	0	0
P65232	MIDALKRGSAKRITAVMPFYP	0	0
P65232	MPFYYPYARQDKKHREGPISA	0	0
P65232	_MSHDWTDNRKNLMLFAGRAH	0	0
P65232	PDSGRVRIAEEKWADALGGVPL	0	0
P65232	PFYYPYARQDKKHREGPISAR	0	0
P65232	MEQLIMIDALKRGSAKRITAV	0	1
P65232	VTNTLPIGEDKRFPQLTVLSI	0	1
P65277	EAFEGACAYWKPRTLAP____	0	0
P65277	GLDDIALTLRKLDEIEAFEGA	0	0
P65277	TDQIIPAVFLKRVTRTGFEDG	0	0
P65277	FGDIFRGNAGKAGLLAAEVAQ	0	1
P65277	VAQDDVELLWKLIEQSPGLEI	0	1
P65573	LVDSLRSDBPKAPTRGAPLCG	0	0
P65573	MGGDAIFDRLKEHLGVGHDET	0	0

P65573	PTLAGLQVARKNDMQAPPTPG	0	0
P65880	ACEFKNQVLVKIYNRKALDPA	0	0
P65880	DKVTERYMGSKKIGTTGRGIG	0	0
P65880	DVLDPEQLTHKVEAAACEFKNQ	0	0
P65880	GAQWGDEGKGKATDLLGGRVQ	0	0
P65880	GLQDRGVDTAKLLISADAHLL	0	0
P65880	GRGIGPCYQDKIARIGIRVAD	0	0
P65880	KVTERYMGSKKIGTTGRGIGP	0	0
P65880	LIGAQWGDEGKGKATDLLGGR	0	0
P65880	LLMPYHIAIDKVTERYMGSKK	0	0
P65880	PMTQRDLCKRAKPVYEELPGWW	0	0
P65880	THKVEAAACEFKNQVLVKIYNR	0	0
P65880	TRIGTVLGILKAYTTRVGSGP	0	0
P65880	VNGITDYFLTKLDVLSSLESV	0	0
P65880	DALLEQAEGFKHRIADTRLLL	0	1
P65880	GAREFDDLPAKARDYVLRLEQ	0	1
P65880	NQVLVKIYNRKALDPAQVVD	0	1
P66056	APKKKVAGLIKQIVAGQANP	0	1
P66056	DQVREIAETKKTDLNANDVDA	0	1
P66056	GVAKGSAPHKTKVAKVTWDQ	0	0
P66056	KLLLKAAGVAKGSAPHKTKV	0	0
P66056	KTPPAKLLLKAAGVAKGSAE	0	0
P66056	LNANDVDAAAKIIAGTARSMG	0	0
P66056	_____MAPKKKVAGLIKQ	0	0
P66056	_____MAPKKKVAGLIKQI	0	0
P66056	_____MAPKKKVAGLIKQIV	0	0
P66056	QHGVNIMEFCKAYNAATENQR	0	0
P66056	TFTLKTPPAKLLLKAAGVAK	0	0
P66056	WDQVREIAETKKTDLNANDVD	0	0
P66056	YEDRSFTFTLKTPPAKLLLK	0	0
P66056	AKGSAPHKTKVAKVTWDQVR	0	1
P66902	GNAGNITAYWKGYTEYHQLGL	0	0
P66902	KLAQAVMHGAKIIQIDGNFDD	0	0
P66902	NGLKDPDTALKDMPSVSPVPV	0	0
P66902	SKQTGCTIHLKVEGLNPTGSF	0	1
P66902	SVNPVRIEGQKTAAFEIVDVL	0	1
P66902	TSAVEAQQQSKGRFLAASDEE	0	1
P66902	VEGLNPTGSFKDRGMTMAVTD	0	0
P66902	VVCTVTGNGLKDPDTALKDMP	0	0
P66902	ASAASIAGLLKAIDDGWVARG	0	1
P66902	TEYHQLGLIDKLPRMLGTQAA	0	1
P66902	TPLIAATNLSKQTGCTIHLKV	0	1
P66902	VPVDPVAVVEKLGLA_____	0	1
P69440	DTDDVILNRMKVYRDETAPLL	0	0
P69440	EEGKLGVEAKRYLDAGDLVP	0	0
P69440	LFRRNIEEGTKLGVEAKRYLD	0	0
P69440	PLLEYRDQLKTVDVAVGTMD	0	0
P69440	VLLGPPGAGKGTQAVKLAEK	0	0

P69440	VSEEVLLERLKGRGRADDTDD	0	0
P69440	KGTQAVKLAEKLGPQISTGE	0	1
P69440	PGAGKGTQAVKLAEKLGPQI	0	1
P69440	VFARALRALGK_____	0	1
P71703	AIFASENNTIKIADVAPTNI	0	0
P71703	ARVPIVGDDIKSQVGATITHR	0	0
P71703	AVTSNLKREFKTKDVHIGPSD	0	0
P71703	FGDVPLNLEYKLEVWDSPNSA	0	0
P71703	FIASDPVWAKKFTDARVPIVG	0	0
P71703	GATITHRVLAKLFEDRGVQLD	0	0
P71703	IDAVRAAKIAKDRGIGGPVIP	0	0
P71703	MLERERLESKKISKTQAVTSN	0	0
P71703	NMLERERLESKKISKTQAVTS	0	0
P71703	PVIPASAYLMKSPPEQLPDDI	0	0
P71703	QRGPTLDGIGKYYADTIELSD	0	1
P71703	RERLESKKISKTQAVTSNLKR	0	1
P71703	RFGPYHVRDVKFVAAFDVDAK	0	0
P71703	SDHVGWLDDRWAYVVRLEGRA	0	0
P71703	SKTQAVTSNLKREFKTKDVHI	0	1
P71703	TSNLKREFKTKDVHIGPSDHV	0	1
P71703	VDVVQALKEAKVDVLVSYLPV	0	1
P71703	VFIASDPVWAKKFTDARVPIV	0	0
P71703	AEPVDVVQALKEAKVDVLVSY	0	1
P71703	FVAAFDVDAKKVGFDLSDAIF	0	1
P71703	GVIIDAVRAAKIAKDRGIGGP	0	1
P71703	YLPVGSEEADKFYAQCAIDAG	0	1
P71724	LIAALSAALLKLPVANWPAALG	0	0
P71724	DLRRAYDTAVKLGERTGLVVR	0	1
P71973	AEHGMAARGYKDVRANTVPAF	0	0
P71973	VGLHRPAEFNKSHIPAFAGE	0	0
P77899	GVLPLYLRPDGKTQVTIAYEDN	0	0
P77899	ILEIGYDSSDKGFDGATCGVN	0	0
P77899	_____MSEKGRLFTSESVT	0	0
P77899	RLSRRLTEVRKNGVLPYLRPD	0	0
P77899	TQHAADIDLEKTLDPDIREKV	0	0
P77899	TVRVLVNPTGKFVLGGPMGDA	0	0
P77899	DVELPWEQLDKVDDLKRAI__	0	1
P77899	EKTLDPDIREKVLNTVLDDLA	0	1
P77899	HVVGEVTTSAKEAFADITNTV	0	1
P77899	TETEDPVKIEKAIGEVDLRP	0	1
P77899	WEQLDKVDDLKRAI_____	0	1
P96382	PGTRMRSDTPKVLHTLAGRSM	0	0
P96382	QRNIENWVQRKRPGSPAAS	0	0
P96382	RPGSPAASQASKRASEMACQP	0	0
P96382	SVFVNYDGTSKRRTTVGSHVR	0	0
P96382	MLSHVLHAIKAPQRLIVVL	0	1
P96382	RPGTALGADGKLGAFFVEVKNS	0	1
P96382	VKNSTIGTGTKVPHLTYVGDA	0	1

P96825	AGILRDGTFHKMSFENWDAVL	0	0
P96825	ATEDGAANIIKTALDEFGAVH	0	0
P96825	LFGNDGANFDKPPSVQDVAAR	0	0
P96825	LINTLALEGAKYNIHANALAP	0	0
P96825	MSFENWDAVLKVHLYGGYHVL	0	0
P96825	NASVYVVGGGKVQRVALFGND	0	0
P96825	NFGQTNYGAAKLGLVGLINTL	0	0
P96825	QDILPPEVLEKLTPEFVAPVV	0	0
P96825	ADEVVAEIRDKGGRAVANYDS	0	1
P96825	DLSGAKIAGFKL_____	0	1
Q10504	AKTIKGYALGKHFEGRNATHQ	0	0
Q10504	ATTMATVRTFKEVLRDKQIGP	0	0
Q10504	AVDADLMLAYKESEVGQILHE	0	0
Q10504	EGRNATHQMKKLTLEDLKEFR	0	0
Q10504	EVGFNHFFRGKSHPGGGDQVF	0	0
Q10504	FEGRNATHQMKKLTLEDLKEF	0	0
Q10504	FNHYLHDRGIKDTSDQHVWCF	0	0
Q10504	GFVPERRTKSKALTLPGRDIY	0	0
Q10504	HKGQPTVILAKTIKGYALGKH	0	0
Q10504	LGGFVPERRTKSKALTLPGRD	0	0
Q10504	LPGRDIYAPLKKGSGHQEVAT	0	1
Q10504	NLKRGGHDYRKVYAAAYRAAVD	0	0
Q10504	NMSDQDIWNLKRGGHDYRKVY	0	0
Q10504	NRDGVAIETEKLRHPDRPAGV	0	0
Q10504	PGRDIYAPLKKGSGHQEVATT	0	0
Q10504	QMKKLTLEDLKEFRDTQRIPV	0	0
Q10504	QPTVILAKTIKGYALGKHFEF	0	0
Q10504	TTPDGDYQTYKANDGGYVRDH	0	0
Q10504	VRTFKEVLRDKQIGPRIVPII	0	0
Q10504	YAAAYRAAVDHKGQPTVILAKT	0	0
Q10504	YHAATEQRTNKAQILASGVAM	0	0
Q10504	FFRGAGWNVIKVWGREWDAL	0	1
Q10530	ALTDDYFIERKLYPNVDFYTG	0	0
Q10530	DDVSEFVRKVKNREAGVKLMG	0	0
Q10530	GGDDSSLGIAKELEEAAALTD	0	0
Q10530	KLMGFGRVYKNYDPRARIVK	0	0
Q10530	KLPTIAAYAYKKSQGPFLYP	0	0
Q10530	LPTIAAYAYKKSQGPFLYPD	0	0
Q10530	QRHTMLHEDLKRFFDGFPRNA	0	0
Q10530	RGYPIDQLAEKSTFIEVCYLL	0	0
Q10530	RKVKNREAGVKLMGFGRVYK	0	0
Q10530	VELSTIRLLAKLPTIAAYAYK	0	0
Q10530	VKEQADKILAKLGGDDSLGI	0	0
Q10530	WREMHDEGDSKIGRPRQIYTG	0	0
Q10530	DGIALGPLLAKTGHTTFDVG	0	1
Q10530	DVGFANTAAAKSSITYIDGDA	0	1
Q10530	KNYDPRARIVKEQADKILAKL	0	1
Q10530	SGDDVSEFVRKVKNREAGVKL	0	1

Q10682	ARVITTGGSQKAVNADRSLA	0	1
Q50685	AIACKDPEKKKKLMTDIFALA	0	0
Q50685	AYVLEGGSARKLIEAREKAFW	0	0
Q50685	DFDQVMAAVPKILASGLAPDI	0	0
Q50685	DGNVHMAIACKDPEKKKKLMT	0	0
Q50685	EAREKAFWAAKALGADDIIDT	0	0
Q50685	GLLISFDRMNKVLEVDTANQV	0	0
Q50685	GPPQKPAYAAKPATPEEVAQL	0	0
Q50685	GTNAGGMRAVKYGVARHNVLG	0	0
Q50685	GYFLELEDPVKISLMRRIKQS	0	0
Q50685	HDEELTGPPQKPAYAAKPATP	0	0
Q50685	HMAIACKDPEKKKKLMTDIFA	0	0
Q50685	IACKDPEKKKKLMTDIFALAM	0	0
Q50685	ISGEHGVGRAKTGYFLELEDP	0	1
Q50685	MAIACKDPEKKKKLMTDIFAL	0	0
Q50685	PVKISLMRRIKQSFDPAGILN	0	0
Q50685	ATPEEVAQLLKAASENGVPVT	0	1
Q50685	EIIRTGGRMAKVSTGYDLTQL	0	1
Q50685	SARKLIEAREKAFWAAKALGA	0	1
Q50685	TLALVTEVIVKLHPRLDHNAS	0	1
Q7D8W0	GGSSKDRIAVKMIEAAEASGQ	0	0
Q7D8W0	GPEIWADTEGKVTHFVAGIGT	0	0
Q7D8W0	GTITGAGRYLKEVSGGRVRIV	0	0
Q7D8W0	GYKCVFVCPDKVSEDKRNVLI	0	0
Q7D8W0	IEAAEASGQLKPGGTIVEPTS	0	0
Q7D8W0	LALVAQRRGYKCVFVCPDKVS	0	0
Q7D8W0	LPDGGRGYMSKIFNDAWMSSY	0	0
Q7D8W0	RLVRDIDGAWKPDQYANPEGP	0	0
Q7D8W0	SCGMAVVAALKVAEEAGPDAL	0	0
Q7D8W0	VEYLNPGGSSKDRIAVKMIEA	0	0
Q7D8W0	WDALMVVEEGKPVGVITRYDL	0	0
Q7D8W0	FVCPDKVSEDKRNVLIAYGAE	0	1
Q7D8W0	LLSAVFEGRAKLADAVSAHMS	0	1
Q7D8W0	QSTVGDLVLRKSGALPALVHT	0	1
Q7D8W0	VPDGAGTVAAKVEYLNPGGSS	0	1

Table S5. The 10-fold cross-validation prediction results of SVM balance on the training dataset.

Protein Name	Peptide	Class label	Prediction label
A0QNF6	FGEVVDEESQKVVDIASTPT	1	1
A0QP32	DYFAHWINVGNNADESKLPKV	1	1
A0QP90	AGATRIIGVAKAGLDDAGYRN	1	1
A0QPN2	ANADTVTLWSKLALASARR	1	1
A0QQ65	NMKYADGTPIKASDFTYAIQR	1	1
A0QQH7	LFDEHGAYLAKTGGEVGVTTG	1	1
A0QQU5	AVEKVTETLLKSAKEVETKEQ	1	1
A0QQU5	VAAGANPLGLKRGIEKAVEKV	1	0
A0QS45	SGEPHKTKVAKVTWDQVREIA	1	1

A0QS98	KALEGDPKWVKSVEELMEAVD	1	1
A0QSE0	KRWRLVEILEKAK_____	1	1
A0QSH8	KGTQAEKLSEKLGIPQISTGD	1	1
A0QSL6	SGHVGFKGSRKSTPFAAQLAA	1	1
A0QSU4	KIAQVVEVAAKEPEPSAAIRL	1	1
A0QUV7	GRGVGSAENFKIVEELADSLG	1	1
A0QUX7	QSLAVGATEQKDMSRMTIVVS	1	1
A0QUY3	GQTEAAARVDKAVSEHLATRG	1	0
A0QUY9	RVVADVLRGRKVADGVRMLIV	1	0
A0QUZ0	SFILNLSPDFKGSVLVAGPDF	1	0
A0QV10	ITSIASLETGKRLGPDPRTFN	1	1
A0QVB9	ALVEADGDFDKAVELLRIKGA	1	1
A0QVB9	ANDIETLKAAKTGDTTVEQAI	1	0
A0QVB9	IADLSAKIGEKLELRRAAYFD	1	0
A0QVM0	YSFDVDDDGLKNAYYQHREAY	1	1
A0QW25	DVIDEAATFLKQQEDKGVVVR	1	1
A0QWG8	TFYDDPDVLAKVSRGLGEAMV	1	1
A0QWT3	TFGSETVDPKIEKAIGEVD	1	1
A0QWT3	WEQTNKVDDLKSAI_____	1	1
A0QWV9	GAARRLGVSAAKAREVRGSDRV	1	1
A0QWW2	SVTDLTAELAKSASVEDINAA	1	1
A0QWX9	KTILQAIELWKIVDRPNLLIK	1	1
A0QWX9	VDTEIDARLEKIGSDEALALR	1	1
A0QX20	ELTDAKNAFRKDIHNYVEQNH	1	0
A0QX81	GGVDVDVAVVPKVRPIVDAVAQ	1	1
A0QX93	ATEEEDVLEKELLADEKERA	1	1
A0QXX7	NSWPDNVSLDKARRLLWPIKQ	1	0
A0QYD4	ARRDDLEVAAKELDIESIVFD	1	1
A0QYS9	DLVARAGVLGKTLSHGIEELG	1	1
A0QZ54	IVYIRTLVTGKSSSASRAIDT	1	1
A0QZA1	SVARTLIDASKSAQMVVVGNR	1	0
A0QZE3	IHIEQGRELEKNNVTIGLVDR	1	1
A0R066	ERKIDVDEWQKKAGAGEITEV	1	1
A0R079	KTSDDIFKLIKDENVEYVDIR	1	1
A0R083	LLAAGLRGVEKGYVLGPQAED	1	1
A0R0B0	DHFFGRDPRTKALVADMSDQE	1	1
A0R0B2	VAAGAVAALDKLAEDPPAKAR	1	1
A0R0B3	AVQTEDKYGVKIPDEDLAGLR	1	0
A0R0B3	TVGDVVAYIQKLEENPEAAA	1	1
A0R0B4	IRVLEDEFVTKWDLPVRIIGH	1	0
A0R0B5	VELRRLSYLQKMATVLGRRVW	1	1
A0R0W1	RAQVLVPELEKRLDDINAQLD	1	1
A0R0W4	DVADRIAVLNKGRIEQIGSPT	1	1
A0R1B5	AIEVVYGADVKGGRGIESAAPL	1	1
A0R1V9	LTAVVGGDLSKVDAKQPDDYF	1	1
A0R1V9	PDDYFTRVTSKDYEGKWRIIF	1	1
A0R1V9	VGGDLSKVDAKQPDDYFTRVT	1	1
A0R1Y7	QSHQKAAAANKDGVFADEVVP	1	0

A0R218	DVYVSMNMVRKNGLRRGDAVT	1	0
A0R220	NFDDCLELARKLTADFPTIAL	1	1
A0R2G5	NSLSGAVEVVKRDGTGITLNE	1	1
A0R2V7	NAQALADGFVKRDAGLVTGGT	1	1
A0R2W6	IGRQAIEGFYKNMTAATTDIK	1	0
A0R342	HPDIPAAATVKPGSEFRIECK	1	1
A0R3D2	LTANVRTRTGKGASRQARRDG	1	1
A0R3D6	VVVLGPGSIPKTPSGKLRRAN	1	0
A0R4C9	RDFVDAQQFSKLLSERGIAND	1	1
A0R4D0	TGAGIHEVDVKVA_____	1	1
A0R4Z5	DEGPRTTLEKMAALQPLVEG	1	1
A0R518	EDLAETVELVKGLNRRIVAEE	1	1
A0R566	MPNSNPVAAWKALKDGNARFV	1	1
A0R5E1	SGFRTLEENQKVEFEVGQSPK	1	1
A0R5M8	FDLDAFEHVAKWNSDEERIE	1	1
A0R5R5	LSREQATWAQKAIAQEGLTDL	1	0
A0R5R7	EILEDRLGESKIASWTDPKGG	1	1
A0R635	HNETVVLD FPKRVVREPIPDE	1	1
A0R647	_MTNSGALDTKFHALIQDQIR	1	1
A0R652	HHSKHHATYVKGVNDAIAKLE	1	1
A0R652	WKNLSPNGGDKPTGELAAID	1	1
A0R6E3	PATEAETAQIKDLIAALGG__	1	0
A0R6E3	RAAVVLSGLRKLQGS LAE AAS	1	1
A0R6Q0	IKTADVDAAAKEIEATGGAI	1	1
A0R7F9	VIRKDGGTVDKVDIWGRRRLA	1	1
A0R7G6	NFVAAFDVDAKKVGF DLSEAI	1	1
A4ZHR8	ALGGTLTKLSKDQAEYIGVDV	1	1
EG10025	APFAGTVKEIKVNVGDKVSTG	1	0
EG10207	FADYDEARFQKEGFRVPPAA	1	1
EG10251	DVKILDPRVGKEFPLPTYATS	1	0
EG10367	SVVDLTVRLEKAATYEQIKAA	1	1
EG10407	QEIFTREEMIKYFTLNAVSKS	1	1
EG10410	LAMQVVVLRDKLEPYFTEGRY	1	1
EG10416	SAEQVDPREKVANLEAQLAE	1	1
EG10416	TRERDGILRVKAEMENLRRRT	1	1
EG10489	_____MESKVVVPAQGKKI	1	1
EG10489	WLKVKNPNTGKEIVIKDVIAD	1	1
EG10492	MNDAFWDELLKVRGEVNKVIE	1	1
EG10762	YLRWAESRGFKTEIIIESEGE	1	0
EG10770	DIVEYLVKQIKG_____	1	0
EG10770	KSFRVQELAEKLYSELRAQGI	1	1
EG10770	QLGTKYSEALKASVQGEDGRN	1	0
EG10803	EGKVFLNIGDKFLLDANLGKG	1	1
EG10803	RADKVREIAAKLGRHVAILGD	1	1
EG10876	ARAAIEAAGGKIEE_____	1	1
EG10903	AALELAEQREKPTWLEVDAGK	1	1
EG10903	REKAKKQSRVKA ALELAEQRE	1	1
EG10905	YTAAITGAEGKIHRL EDWGRR	1	1

EG10954	TYVTNLNNLIKGTAFEGKSLE	1	1
EG11192	GELILNEKLAKQLVTAANWVK	1	0
EG11223	HSWVEGKLIDKVGQLGKKLHT	1	1
EG11415	TQVINSKTPLKSYPLDIHNVQ	1	1
EG11427	AWNEKFAAYAKAYPQEAAEFT	1	1
EG11427	FDAKAKEFIAKLQANPAKIAS	1	0
EG11518	LQLGKDLDRFKNLVLVHAARY	1	1
EG11615	EYALLSRLMLKAGSPVHREIL	1	0
EG11615	LHFLARIRQKKYTLPVLILTA	1	1
EG12204	__MAKIKGQVKWFNESKGFGF	1	0
EG12411	RKAGIPLALNKLNAVPTTAYP	1	0
EG12503	EGVKYLEENAKKEGVNSTESG	1	1
EG12545	PNYLHKEPVIKAAKNKKHVFC	1	1
EG12669	GEIAADFAQDKKSDFDLTPFR	1	0
EG12712	INSNEELALPKEKLQELHI__	1	1
EG12982	_____MQKVVLATGNVGK	1	1
EG13014	LITYGGGSVKKTGVLDQVLDA	1	1
EG13952	AGGIYLTDEKSALAYLEKHT	1	1
EG13952	AYLEKHTARLKNLGVEEVVAK	1	0
O05598	VVVLGPGTIPKTPSGKLRRAN	1	1
O05814	YSFDIDAAGLKAAYHAHREAY	1	1
O06188	SAVEAAGKLVKIETDIPRGPA	1	0
O06391	IAARMTTAVDKARVRGAGHEV	1	1
O33294	LHSRGFSEDPKALEPAVRKVE	1	1
O33341	EKSLDDLRLFKALVDAASGYA	1	0
O53176	FMRNSIDLYHKQAADTGARIV	1	1
O53204	DKGYDGRALIKDLSFSLPRNG	1	0
O53226	TKTTRLTPGDKAPAFTLPDAD	1	1
O53226	YNVKATGHVAKLRRDLSV__	1	1
O53442	QHVMKGYRAEKYTQVETLVYM	1	1
O53618	GILRPKSGAIKFDEVDITTLQ	1	0
O53665	TALVYLSPDAKPAATGLESTM	1	1
O53665	TQALAPGLAAKGITINAVAPG	1	1
O53871	AEAWSGGYFAKSVVPVRDQNG	1	0
O69687	IGATLSAEQAKWQGKAVEDEG	1	0
O86352	VGLSRGWSLIKSVRLGNAAGA	1	1
P09621	SARDVLAVVSK_____	1	1
P0A508	EWQLRVGAGEKLGFAQNDEL	1	1
P0A520	AVEKVTETLLKGAKVETKEQ	1	1
P0A556	PAKEDEEVVRKATTDEPFAAL	1	0
P0A5B7	LPVGADEDDIKATYDKGILTV	1	1
P0A5B7	LTIKAERTEQKDFDGRSEFAY	1	0
P0A5B7	LTVSVAVSEGKPTKHIQIRS	1	1
P0A5B7	RAELPGVDPDKDVDIMVRDGG	1	1
P0A5F7	QAHQIVEQAHKVALEASSSGR	1	1
P0A5H3	LDDATIAKFQKELAAMGFKFQ	1	1
P0A5L2	VARITAPDEPKYDADFAAVRQ	1	1
P0A5U4	ENADVADIEKKIKEKLGIGA	1	1

P0A5Z4	HVQRLRAKVEKDPENPTVVLT	1	1
P0CG95	SGAGIHEVDVKIT_____	1	0
P0CG99	IPDITFELAKKNEDMYLFSPY	1	1
P0CH36	ADVTVLSQSLKKMEDGLRLGA	1	1
P17670	SRYAAATSQTKGLIFG_____	1	1
P60176	ALGGHLTKLTKEQAEYLGVDV	1	1
P60796	TFFDDPDVLAKVSRGLGEAMV	1	1
P63458	VAAGRLTALEKLAEDPPAKAR	1	1
P63523	KPEVVYFEPDKLSTGSANRCE	1	0
P63568	GLVRRAEVLGKSLRHGIEALG	1	1
P63673	SQKLTEEAADKLTEVIKNFKK	1	1
P65161	ESLAVGATECKDRSRMTIVVS	1	1
P65232	AHPELAEQVAKELDVHVTSD	1	1
P65277	ITAATVVLPFKIDDHSAWRLL	1	1
P65573	DVLARLEVDAKEIIGRYPDRR	1	0
P65880	LFDEHGEYLSKTGREFGVTTG	1	1
P66056	SAEPHKTKVAKVTWDQVREIA	1	1
P66902	NFDDCLELARKMAADFTISL	1	1
P69440	DGYPRSVEQAKALHEMLERRG	1	1
P71703	KFVAAFDVEDAKKVGFDLSAI	1	0
P71724	QAVAAAEVLGKRQPLLIVSSD	1	1
P71973	AIIDDASTFFKQQEERGTVVR	1	1
P77899	TFGTETEDPVKIEKAIGEVFD	1	1
P96382	DGKLGAFFVEVKNSTIGTGKV	1	0
P96825	WAEITDLGAKIAGFKL_____	1	1
Q10504	DHFFGRDPRTKALVENMSDQD	1	0
Q10530	RARIVKEQADKILAKLGDDSD	1	1
Q10682	VVAVGFTFDPKTHIARVITG	1	1
Q50685	DTVVPRASMPKFLSTARGLAA	1	1
Q7D8W0	GAGELVSAAGKALRDWDALMV	1	1
A0QNF6	ATLHTNRGDIKIALFGNHAPK	0	1
A0QNF6	DEFHPELQFDKPYLLAMANAG	0	0
A0QNF6	KIALFGNHAPKTVNNFVGLAQ	0	1
A0QNF6	NGSQFFITVGKTPHLNRRHTI	0	0
A0QNF6	NNFVGLAQGTKDYSTENASGG	0	1
A0QNF6	TGTGRGGPGYKFEDEFHPELQ	0	1
A0QP32	AGNTVFTNVAKTDDGDVWWEG	0	0
A0QP32	AGTFQKLNPEKQPNSYLALSD	0	0
A0QP32	AHLVEAGTFQKLNPEKQPNSY	0	0
A0QP32	CMGPLDAEDPKLGVEITDSEY	0	1
A0QP32	DKLGDDGFFVKALHSIGAPLE	0	1
A0QP32	EGDPQHLIDWKGNDWTPESGE	0	0
A0QP32	FVGEKLPTGLKDEFDALKHRL	0	0
A0QP32	GDDIAWMRFGKDGRLYATNPE	0	0
A0QP32	GKNADESKLPKVFFVNWFRRG	0	1
A0QP32	GNDWTPESGEKAAHPNSRYCT	0	1
A0QP32	GSEQTAAAEKGKVGTVRRDPMA	0	1
A0QP32	GWLAEHMLILKLISPENKAYF	0	1

A0QP32	GYGGNALLGKKCYSLRIASAM	0	0
A0QP32	IAAAFPSACGKTNLAMLQPTI	0	0
A0QP32	IEEWFEFVGEKLPTGLKDEFD	0	0
A0QP32	INVGKNADESKLPKVVFFVNW	0	0
A0QP32	ISAILFGGRRKTTVPLITEAR	0	1
A0QP32	KDVPWPCNDTKYITHFPETRE	0	0
A0QP32	LILKLISPENKAYFIAAAFPS	0	0
A0QP32	LKWAVERIEHKADGKSTPIGI	0	0
A0QP32	MTRMGRAALDKLGDDGFFVKA	0	1
A0QP32	PADVDEALAVKPEEWRAELPL	0	1
A0QP32	PGFGENSRVLKWAVERIEHKA	0	0
A0QP32	SGYGGNALLGKKCYSLRIASA	0	1
A0QP32	SIGAPLEPGQKDVPWPCNDTK	0	0
A0QP32	TGLKDEFDALKHRLSEEG__	0	1
A0QP32	TIPGLDTAPTKHQGLLAWVQE	0	0
A0QP32	TNWSSNPNAMKTIAAGNTVFT	0	0
A0QP32	VERIEHKADGKSTPIGIVPTA	0	0
A0QP90	AGVPFYLR TGKRMSQRFSEIV	0	0
A0QP90	DEAIRLEMTAKEPGSGGRLRP	0	0
A0QP90	FGGTGDLAARKLLPALYLRDR	0	1
A0QP90	HSRTETFVA VKAHIRNWRWAG	0	1
A0QP90	HVNRESVRDEKRKVLEALEPL	0	1
A0QP90	NRESVRDEKRKVLEALEPLTA	0	1
A0QP90	QIFRIDHYLGKESVQQLLVTR	0	1
A0QP90	QRFSEIVVQFKPVPLPMFPGI	0	0
A0QP90	VTSSRVVLEKPIGRDLASAQ	0	1
A0QPN2	APDVAWDSQAKTAVSSRSLNL	0	0
A0QPN2	ARAGGKFSAHKDATSTGAGLN	0	0
A0QPN2	ARARRSAEGAKARARAASKAK	0	1
A0QPN2	ASRMRDGLAKNEEGPEPQDF	0	0
A0QPN2	CEGDSALGTIKAARDATFQAA	0	0
A0QPN2	DATFQAAFPLKGKPPNVYGFP	0	0
EG10025	DAAPAQAEKKEAAPAAAPAA	0	0
EG10025	DEVEITEILVKVGDKVEAEQS	0	1
EG10025	DEVEVTEILVKVGDKVEAEQS	0	1
EG10025	DEVEVTEVMVKVGDKVAAEQS	0	0
EG10025	DVQAYVKEAIKRAEAAPAATG	0	1
EG10025	EEAAKRKLDVKITPVVFIMKA	0	0
EG10025	EGAAPAAAPAKQEAAPAPAA	0	0
EG10025	ELKVNVDGDKVKTGSLIMIFEV	0	0
EG10025	ELSRELMTISKKARDGKLTAG	0	0
EG10025	EQSLITVEGDKASMEVPAPFA	0	0
EG10025	EQSLITVEGDKASMEVPSPQA	0	0
EG10025	EVPAPFAGTVKEIKVNVGDKV	0	1
EG10025	EVPAPFAGVVKELKVNVDGKV	0	1
EG10025	EVSPQAGIVKEIKVSVGDKT	0	0
EG10025	FRKQQNEEAARKLDVKITPV	0	0
EG10025	GEAGAAAPAAKQEAAPAAAPA	0	0

EG10025	GGIPGMLPWPVKVDFSKFGEIE	0	0
EG10025	IEEVELGRIQKISGANLSRNW	0	1
EG10025	ILREDVQAYVKEAIKRAE AAP	0	0
EG10025	ITEILVKVGDKVEAEQSLITV	0	1
EG10025	KQQNEEAAKRKLDVKITPVVF	0	0
EG10025	KSAMEPVWNGKEFVPRMLPI	0	0
EG10025	LAREFGVNLA KVKG TGRKGRI	0	0
EG10025	LSEDGQRLTLKKYINIGVAVD	0	0
EG10025	LSRELMTISKKARDGKL TAGE	0	1
EG10025	LVVPVFKDVNKKGIIELSREL	0	0
EG10025	_____MAIEIKVPDIGADEVE	0	0
EG10025	MLPWPVKVDFSKFGEIEEVELG	0	0
EG10025	MTISKKARDGKL TAGE MQGC	0	1
EG10025	NLAKVKGTGRKGRI LREDVQA	0	1
EG10025	PAAAPAAAAAKDVNVPDIGSD	0	1
EG10025	QEAAAPAPAAKAEAPAAAPAA	0	1
EG10025	REFGVNLA KVKG TGRKGRI LR	0	1
EG10025	SEDGQRLTLKKYINIGVAVDT	0	0
EG10025	SPQAGIVKEIKVSVGDKTQTG	0	0
EG10025	TDITELEAFRKQQNEEAAKRK	0	1
EG10025	TPNGLVVPVFKDVNKKGIIEL	0	0
EG10025	VKEIKVNVGDKVSTGSLIMVF	0	0
EG10025	VKEIKVSVGDKTQTGALIMIF	0	0
EG10025	VKELKVNVDKVKTGSLIMIF	0	0
EG10025	VKITPVVFIMKAVAAA LEQMP	0	1
EG10025	VMIPHVTHFDKTDITELEAFR	0	1
EG10025	VTEILVKVGDKVEAEQSLITV	0	1
EG10025	VTEVMVKVGDKVAAEQSLITV	0	1
EG10025	VVPVFKDVNKKGIIELSREL	0	1
EG10207	ATVGSCAQIGKNVHLSGGVGI	0	0
EG10207	CAVIVKKVDAKTRGKVGINEL	0	0
EG10207	DGQWVTHQWLKKAVLLSFRIN	0	1
EG10207	ESRYFDK VPMKFADYDEARFQ	0	1
EG10207	GQWVTHQWLKKAVLLSFRIND	0	0
P63458	TATLLSNRDGKPVTSAAAAMD	0	0
P63523	AISVPVDHTEKLVTVIELKLL	0	0
P63523	EDEMFI VGRMKDMLIVYGRNH	0	0
P63523	GDNVAEGYWNKPDETRHTFGA	0	0
P63523	GEAMDELDVIKNNVTAAISRS	0	1
P63523	LTGNSPSFRVKDLPSAAYLQY	0	1
P63523	LYVASRNSGDKPEVVYFEPDK	0	1
P63523	PAGTIGEIWVKGDNVAEGYWN	0	0
P63523	PGSIPTTTSKIRRAACVEQY	0	0
P63523	PNFAFELAVRKT TDADIEGLD	0	1
P63523	STGSANRCEPKTGTPLLSYGM	0	0
P63523	TEKLVTVIELKLLGDSAGEAM	0	1
P63568	FKLSRLTGRTKLVA AHDAFHG	0	0
P63568	GITPDVVTLAKGLGGGLPIGA	0	0

P63568	GSLALTGQPAKQTPFAPLPGD	0	1
P63568	LGIALTAPHAKDAEATARDAG	0	0
P63568	SGAEANEAAFKLSRLTGRTKL	0	0
P63673	AAAASESAGFKWLAPYTGSAI	0	0
P63673	AFASDLDAASKAQLERGARLV	0	1
P63673	AIAQHWMYEGKHVLIIFDDLT	0	0
P63673	APSVVHRQGVKEPLQTGIKAI	0	0
P63673	AVKVKKPAPKKKK_____	0	0
P63673	DEDKLAKEAVKVKKPAPKKKK	0	0
P63673	DEHVEALDEDKLAKEAVKVKK	0	0
P63673	DKLAKEAVKVKKPAPKKKK__	0	1
P63673	DKLTEVIKNFKKGFAATGGGS	0	0
P63673	EAADKLTEVIKNFKKGFAATG	0	1
P63673	EAVKVKKPAPKKKK_____	0	1
P63673	EILTEIRDSQKLTEEAADKLT	0	1
P63673	ERGARLVELLKQPQSQMPVE	0	0
P63673	FENIEEGQQVKRTGEVLSVPV	0	1
P63673	GQRQLIIGDRKTGKTAVCVD	0	0
P63673	GVKEPLQTGIKAIDAMTPIGR	0	1
P63673	HVLIIFDDLTQAEAYRAISL	0	0
P63673	KLAKEAVKVKKPAPKKKK__	0	0
P63673	KLTEVIKNFKKGFAATGGGSV	0	1
P63673	KVKKPAPKKKK_____	0	0
P63673	LHSRLLERCAKLSDDLGGGSL	0	0
P63673	QLIIGDRKTGKTAVCVDILN	0	0
P63673	QRQNWESGDPKKQVRCVYVAI	0	1
P63673	RQNWESGDPKKQVRCVYVAIG	0	0
P63673	SLTGLPIETKANDISAYIPT	0	0
P63673	VEALDEDKLAKEAVKVKKPAP	0	1
P63673	VGGAAQIKAMKEVAGSLRDL	0	0
P63673	VKVKKPAPKKKK_____	0	0
P63673	VRCVYVAIGQKGTIAAVRRT	0	0
P63673	VSRVGGAAQIKAMKEVAGSLR	0	1
P64245	AVTNQWVNSYKRLVQGGEAPT	0	0
P64245	DDPLQLSEVGKSFIAGILEHA	0	0
P64245	DNVMTFRYVIKEVALEEGARA	0	1
Q50685	ATPEEVAQLLKAASENGVPVT	0	0
Q50685	AYVLEGGSAKRLIEAREKAFW	0	0
Q50685	DFDQVMAAVPKILASGLAPDI	0	1
Q50685	DGNVHMAIACKDPEKKKKLMT	0	0
Q50685	EAREKAFWAAKALGADDIIDT	0	1
Q50685	EIIRTGGRMAKVSTGYDLTQL	0	0
Q50685	GLLISFDRMNKVLEVDTANQV	0	0
Q50685	GPPQKPAYAAKPATPEEVAQL	0	0
Q50685	GTNAGGMRAVKYGVARHNVLG	0	0
Q50685	GYFLELEDPVKISLMRRIKQS	0	0
Q50685	HDEELTGPPQKPAYAAKPATP	0	0
Q50685	HMAIACKDPEKKKKLMTDIFA	0	0

Q50685	IACKDPEK KKKLMTDIFALAM	0	0
Q50685	ISGEHGVGRAKTGYFLELEDP	0	1
Q50685	MAIACKDPEK KKKLMTDIFAL	0	0
Q50685	PVKISLMRRIKQSFDPA GILN	0	0
Q50685	SARKLIEAREKAFWAAKALGA	0	0
Q50685	TLALVTEVIVKLHPRLDHNAS	0	0
Q7D8W0	FVCPDKVSEDKRNVLIAYGAE	0	0
Q7D8W0	GGSSKDRIAVKMIEAAEASGQ	0	1
Q7D8W0	GPEIWADTEGKVTHFVAGIGT	0	0
Q7D8W0	GTITGAGRYLKEVSGGRVRIV	0	0
Q7D8W0	GYKCVFVCPDKVSEDKRNVL	0	0
Q7D8W0	IEAAEASGQLKPGGTIVEPTS	0	0
Q7D8W0	LALVAQRRGYKCVFVCPDKVS	0	0
Q7D8W0	LLSAVFEGRAKLADAVSAHMS	0	0
Q7D8W0	LPDGGRGYMSKIFNDAWMSSY	0	0
Q7D8W0	QSTVGDVLRKSGALPALVHT	0	1
Q7D8W0	RLVRDIDGAWKPDQYANPEGP	0	0
Q7D8W0	SCGMAVVAALKVAEEAGPDAL	0	0
Q7D8W0	VEYLNPGGSSKDRIAVKMIEA	0	0
Q7D8W0	VPDGAGTVAAKVEYLNPGGSS	0	0
Q7D8W0	WDALMVVEEGKPVGVITRYDL	0	0

Table S6. The prediction results of our method for the test dataset.

Protein Name	Peptide	Class label	Prediction results
EG10032	AAVKS GSELGKQAKDIMDAGK	1	1
EG10032	HAPSGRVYHV KFNPPKVEGKD	1	1
EG10032	KSGSELGKQAKDIMDAGKLV T	1	1
EG10032	RVYHV KFNPPKVEGKDDVTGE	1	1
EG10241	DVVDAEFEEVKDKK_____	1	1
EG10241	VDAEFEEVKDKK_____	1	1
EG10420	ADAIFIEELRKADLYDKV SQA	1	1
EG10518	YRGPGL EEGMKIFQELKQTFG	1	1
EG10599	KATLEDLGQAKRVVINKDTT T	1	1
EG10599	SVAREIELEDKFENMGAQMVK	1	1
EG10599	VGKLIAEAMDKVGKEGVITVE	1	1
EG10758	IQGGGFEPGMKQKATKEPIKN	1	1
EG10789	TPSETAQLNLKKVLGFI TDAG	1	1
EG10885	NKFP AIIYGGKEAPLAIELDH	1	1
EG10906	ALETLAQRSGKSELEAFEVAL	1	1
EG10906	ANELSDAAENKGTAVKKREDV	1	1
EG11005	NGCTVRNVYIKEAFDTGV RYD	1	1
EG11073	NLQNYLETELKRDNPVLIMGD	1	1
EG11137	VRDALEAAGLKADSAEVSMIP	1	1
EG11835	DDDEEEEEDEKQEDMMRLLRG	1	1
EG12316	FLAAIAKGEAKSPLLTPEKAI	1	1
EG13261	DLTAADGQTRKTFQEILAALG	1	1

EG13261	NRSEDAEAVLKTIPLQDQDTR	1	1
EG13433	CDMILVCNNRKGAVSVLDNLS	1	1
EG13723	GYGTADVPEKVDMDVFRNS	1	1
EG14074	ALEPQRNTIKTQNYQTRDPQ	1	1
EG20151	HSTKAFDASKKLTPEQAEQIK	1	1
EG20151	SRAAVAFAPGKPLEIVEIDVA	1	1
EG50010	STEEGKARVAKSAAGNYVFNE	1	1
EG10032	DVTGEELTTRKDDQEETVRKR	0	1
EG10032	EAEAGNTKYAKVDGTPVAEV	0	0
EG10032	IILLGAPGAGKGTQAQFIMEK	0	0
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EG10032	KQAKDIMDAGKLVTDDELVIAL	0	0
EG10032	MTAPLIGYYSKEAEAGNTKYA	0	1
EG10032	NTKYAKVDGTPVAEVRADLE	0	0
EG10032	PRTIPQADAMKEAGINVDYVL	0	0
EG10032	PVAEVRADLEKILG_____	0	0
EG10032	RKDDQEETVRKRLVEYHQMTA	0	0
EG10032	STGDMLRAAVKSGSELGKQAK	0	0
EG10032	VKFNPPKVEGKDDVTGEELTT	0	0
EG10032	VTDELVIALVKERIAQEDCRN	0	0
EG10032	YSKEAEAGNTKYAKVDGTPV	0	0
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EG10241	AGADASANNAKDDDVDAEFE	0	0
EG10241	AKDKNSGKEQKITIKASSGLN	0	0
EG10241	ALETALKGEDKAAIEAKMQEL	0	0
EG10241	AMQRLKEAAEKAKIELSSAQQ	0	0
EG10241	APPQISAEVLKKMKKTAEDYL	0	0
EG10241	DADGILHVSAKDKNSGKEQKI	0	0
EG10241	DAEANAADRKFEEVLQTRNQ	0	0
EG10241	DAEFEEVKDKK_____	0	0
EG10241	DAGRIAGLEVKRIINEPTAAA	0	0
EG10241	DATGPKHMNIKVTRAKLES LV	0	0
EG10241	DGETLVGQPAKRQAVTNPQNT	0	0
EG10241	DGILHVSAKDKNSGKEQKITI	0	0
EG10241	DLVNRSIEPLKVALQDAGLSV	0	0
EG10241	EAGDKLPADDKTAIESALTAL	0	1
EG10241	GDAWVEVKGQKMAPPQISAEV	0	0
EG10241	GGQTRMPMVQKKVAEFFGKEP	0	0
EG10241	GQTRMPMVQKKVAEFFGKEP_	0	0
EG10241	HVSAKDKNSGKEQKITIKASS	0	0
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EG10241	ISAEVLKKMKKTAEDYLGEPV	0	0
EG10241	KGEDKAAIEAKMQELAQVSQK	0	0
EG10241	KHMNIKVTRAKLES LVEDLVN	0	0
EG10241	KMQELAQVSQKLMEIAQQQHA	0	0
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EG10241	LINYLVVEEFKKDQGIDLRNDP	0	0
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EG10241	PYITADATGPKHMKVTRAK	0	0
EG10241	QGDHLLHSTRKQVEEAGDKLP	0	0
EG10241	QGERKRAADNKS LGQFNLDGI	0	0
EG10241	QISAEVLKKMKKTAEDYLGEPI	0	0
EG10241	QRLKEAAEKAKIELSSAQQTD	0	1
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EG10420	CQCEALWTPAKIIDDAVARIR	0	0
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EG10420	GIEDALTADGKPLLDVWMSHG	0	0
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EG10420	GLVEPLKELFKDEV RKIGLEL	0	0
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EG10420	ISRVVYDISGKPPATIEWE__	0	0
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EG10420	LGVRVLGEVKKEYCDLLRRAD	0	0
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EG10420	LLDVWMSHGDKVTAIPSDFIT	0	0
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EG10518	IPYVFKASFDKANRSSIHSYR	0	0
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EG10518	LPLAKLEPFLKQMKAIDDLVK	0	0
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EG10518	VKGFEELDTSK_____	0	0
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EG12316	ESDRGFSLAQKMVGRACGVKG	0	0
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EG12316	IKQGLLTVEKKGKKNIFSGRI	0	0
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EG14074	EGDKTVVYAVKTGKEAAEAIH	0	0
EG14074	FAAGDIVEGDKTVVYAVKTGK	0	0
EG14074	FIRSIYFRNFKGAAETIRENN	0	0
EG14074	GFTPVAVEGNKVTFKHVRLSG	0	1
EG14074	IYQPGTKTLGKVAIIGAGPAG	0	1
EG14074	KTVVYAVKTGKEAAEAIHHYL	0	1
EG14074	LSGELTMAADKIILAVGQHAR	0	0
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EG14074	TGMEIYQPGTKTLGKVAIIGA	0	0
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EG20151	AAGNYVFNERKMLDASHVVVF	0	0
EG20151	AAILDAEFLKEKGYTSLVVV	0	0
EG20151	ADGRFATPEAKAANDKGRKFF	0	0
EG20151	AKTAMDDVWLKLVVDQEDADG	0	0

EG20151	ATPEAKAANDKGRKFFADMHR	0	0
EG20151	DASHVVVFCAKTAMDDVWLKL	0	0
EG20151	DLHDDAEWMAKQVYLVGNFL	0	0
EG20151	EAKAANDKGRKFFADMHRKDL	0	0
EG20151	GRKFFADMHRKDLHDDAEWMA	0	0
EG20151	HFIVASTEKGKARVAKSAAGN	0	0
EG20151	ILDAEFLKEKGYTSLVVVPV	0	0
EG20151	ISVALKRHSTKAFDASKKLTP	0	0
EG20151	KLTPEQAEQIKTLLQYSPSST	0	0
EG20151	__MDIISVALKRHSTKAFDAS	0	0
EG20151	RHSTKAFDASKKLTPAEQI	0	0
EG20151	SVEDFNATLPKSRLPQNITLT	0	0
EG50010	APPKKGEVLIKVTHTGVCHTD	0	0
EG50010	CGECEFCRSGKTNLCVAVRET	0	0
EG50010	EIVEIDVAPPKKGEVLIKVTH	0	1
EG50010	GRIIAIDTNPKKFDLARRFGA	0	0
EG50010	INPNDYDKPIKDVLLDINKWG	0	1
EG50010	IVEIDVAPPKKGEVLIKVTHT	0	0
EG50010	LAVVQGARQAKAGRIIAIDTN	0	1
EG50010	LCVAVRETQGKGLMPDGTTRF	0	0
EG50010	_____MKSRAAVAFAPG	0	0
EG50010	NDAFDLMHEGKSIRTVIRY__	0	0
EG50010	PFQLVTGRVWKGSAFGGVKGR	0	0
EG50010	PIKDVLLDINKWGIDHTFECI	0	0
EG50010	QLPGMVEDAMKGDIDLEPFVT	0	0
EG50010	RIIAIDTNPKKFDLARRFGAT	0	0
EG50010	TDCINPNDYDKPIKDVLLDIN	0	0
EG50010	TGIGAVHNTAKVQPGDSVAVF	0	0
EG50010	VEVGEGVTSVKPGDHVIPLYT	0	0
EG50010	VWKGSAFGGVKGRSQLPGMVE	0	0
EG50010	YTVVAEVS LAKINPEANHEHV	0	0

Table S7. The prediction results of PUL-PUP for the test dataset.

Protein Name	Peptide	Class label	Prediction results
EG10032	AAVKSGSELGKQAKDIMDAGK	1	1
EG10032	HAPSGRVYHVKNPPKVEGKD	1	0
EG10032	KSGSELGKQAKDIMDAGKLV	1	1
EG10032	RVYHVKNPPKVEGKDDVTGE	1	1
EG10241	DVVDAEFEEVKDKK_____	1	1
EG10241	VDAEFEEVKDKK_____	1	0
EG10420	ADAIFIEELRKADLYDKVSQA	1	0
EG10518	YRGPGLEEGMKIFQELKQTFG	1	1
EG10599	KATLEDLGQAKRVVINKDTT	1	0
EG10599	SVAREIELEDKFENMGAQMV	1	0
EG10599	VGKLIAEAMDKVGKEGVITVE	1	1
EG10758	IQGGGFEPGMKQKATKEPIK	1	1
EG10789	TPSETAQLNLKKVLGFITDAG	1	1

EG10885	NKFPaiIYGGKEAPLAIELDH	1	1
EG10906	ALETLAQRSGKSELEAFEVAL	1	1
EG10906	ANELSDAAENKGTAVKKREDV	1	1
EG11005	NGCTVRNVYIKEAFDTGVRYD	1	1
EG11073	NLQNYLETELKRDNPVLMGD	1	0
EG11137	VRDALEAAGLKADSAEVSMIP	1	1
EG11835	DDDEEEEEDEKQEDMMRLLRG	1	1
EG12316	FLAAIAKGEAKSPLLTPEKAI	1	1
EG13261	DLTAADGQTRKTFQEILAAALG	1	1
EG13261	NRSEDAEAVLKTiplQDQDTR	1	1
EG13433	CDMILVCNNRKGAVSVLDNLS	1	0
EG13723	GYGTLADVPEKVDMVDVFRNS	1	0
EG14074	AELEPQRNTIKTQNYQTRDPQ	1	0
EG20151	HSTKAFDASKKLTPEQAEQIK	1	1
EG20151	SRAAVAFAPGKPLEIVEIDVA	1	1
EG50010	STEEGKARVAKSAAGNYVFNE	1	1
EG10032	DVTGEELTTRKDDQEETVRKR	0	1
EG10032	EAEAGNTKYAKVDGTPVAEV	0	0
EG10032	IILLGAPGAGKGTQAQFIMEK	0	0
EG10032	KGTQAQFIMEK_____	0	0
EG10032	KQAKDIMDAGKLVDELVIAL	0	0
EG10032	MTAPLIGYYSKEAEAGNTKYA	0	1
EG10032	NTKYAKVDGTPVAEVRADLE	0	0
EG10032	PRTIPQADAMKEAGINVDYVL	0	0
EG10032	PVAEVRADLEKILG_____	0	0
EG10032	RKDDQEETVRKRLVEYHQMTA	0	0
EG10032	STGDMLRAAVKSGSELGKQAK	0	0
EG10032	VKFNPPKVEGKDDVTGEELTT	0	0
EG10032	VTDELVIALVKERIAQEDCRN	0	0
EG10032	YSKEAEAGNTKYAKVDGTPV	0	0
EG10241	ADNGDAWVEVKGQKMAPPQIS	0	0
EG10241	AGADASANNAKDDDVVDAEFE	0	0
EG10241	AKDKNSGKEQKITIKASSGLN	0	0
EG10241	ALETALKGEDKAAIEAKMQEL	0	1
EG10241	AMQRLKEAAEKAKIELSSAQQ	0	0
EG10241	APPQISAEVLKKMKKTAEDYL	0	0
EG10241	DADGILHVSADKNSGKEQKI	0	0
EG10241	DAEANAeADRKFEELVQTRNQ	0	0
EG10241	DAEFEEVKDKK_____	0	0
EG10241	DAGRIAGLEVKRIINEPTAAA	0	0
EG10241	DATGPKHMNIKVTRAKLESLV	0	0
EG10241	DGETLVGQPAKRQAVTNPQNT	0	0
EG10241	DGILHVSADKNSGKEQKITI	0	0
EG10241	DLVNRSIEPLKVALQDAGLSV	0	0
EG10241	EAGDKLPADDKTAIESALTAL	0	1
EG10241	GDAWVEVKGQKMAPPQISAEV	0	0
EG10241	GGQTRMPMVQKKVAEFFGKEP	0	0
EG10241	GQTRMPMVQKKVAEFFGKEP_	0	0

EG10241	HVSAKDKNSGKEQKITIKASS	0	0
EG10241	IIEIDEVDGEKTFEVLATNGD	0	0
EG10241	ISAEVLKKMKKTAEDYLGEPV	0	0
EG10241	KGEDKAAIEAKMQELAQVSQK	0	0
EG10241	KHMNIKVTRAKLESLEDLVN	0	0
EG10241	KMQELAQVSQKLMEIAQQQHA	0	0
EG10241	LIAKNTTIPTKHSQVFSTAED	0	0
EG10241	LINYLVEEFKKDQGIDLRNDP	0	0
EG10241	MGGVMTTLIAKNTTIPTKHSQ	0	0
EG10241	_____MGKIIGIDLGTN	0	0
EG10241	NSGKEQKITIKASSGLNEDEI	0	0
EG10241	PPQISAEVLKKMKKTAEDYLG	0	0
EG10241	PYITADATGPKHMNIKVTRAK	0	0
EG10241	QGDHLLHSTRKQVEEAGDKLP	0	0
EG10241	QGERKRAADNKS LGQFNLDGI	0	0
EG10241	QISAEVLKKMKKTAEDYLGEV	0	0
EG10241	QRLKEAAEKAKIELSSAQQTD	0	1
EG10241	RLINYLVEEFKKDQGIDLRND	0	1
EG10241	RNDPLAMQRLKEAAEKAKIEL	0	1
EG10241	SALTALETALKGEDKAAIEAK	0	1
EG10241	SSGLNEDEIQKMVRDAEANA	0	0
EG10241	TAAALAYGLDKGTGNRTIAVY	0	0
EG10241	TNPQNTLFAIKRLIGRRFQDE	0	0
EG10241	TRKQVEEAGDKLPADDKTAIE	0	0
EG10241	VAEFFGKEPRKDVNPDEAVAI	0	0
EG10241	VQGGVLTGDVKDVL LLDVTPL	0	0
EG10241	VQKKVAEFFGKEPRKDVNPDE	0	1
EG10241	VQRDVSIMPFKIIAADNGDAW	0	0
EG10241	VTIHVLQGERKRAADNKS LGQ	0	1
EG10241	YFNDAQRQATKDAGRIAGLEV	0	1
EG10420	AGENDPEAKRKIIIGRVFVEVF	0	0
EG10420	ALAGENDPEAKRKIIIGRVFVE	0	0
EG10420	ARIREQVGDDKVILGLSGGVD	0	0
EG10420	ASATGKAHVIKSHHNVGGLPK	0	0
EG10420	CPFAIMANEEKRFYGVQFHPE	0	0
EG10420	CQCEALWTPAKIIDDAVARIR	0	0
EG10420	DEEALKLEDVKWLAQGTIYPD	0	0
EG10420	EELRKADLYDKVSQAFTVFLP	0	0
EG10420	EMKMGLVEPLKELFKDEV RKI	0	0
EG10420	FVEVFDEEALKLEDVKWLAQG	0	1
EG10420	GIEDALTADGKPLLDVWMSHG	0	1
EG10420	GLGVRVLGEVKKEYCDLLRRA	0	0
EG10420	GLVEPLKELFKDEV RKIGLEL	0	1
EG10420	HNVGGLPKEMKMGLVEPLKEL	0	0
EG10420	ISRVVYDISGKPPATIEWE__	0	0
EG10420	KSHHNVGGLPKEMKMGLVEPL	0	0
EG10420	LGVRVLGEVKKEYCDLLRRAD	0	0
EG10420	LKELFKDEV RKIGLELGLPYD	0	0

EG10420	LLDVWMSHGDKVTAIPSDFIT	0	0
EG10420	____MTENIHKHRILILDFGS	0	0
EG10420	RSVGVMGDGRKYDWVVSRAV	0	0
EG10420	TAMLLHRAIGKNLTCVFVDNG	0	0
EG10420	VIESAASATGKAHVIKSHHN	0	0
EG10518	AKLEPFLKQMKAIDDLKGF	0	1
EG10518	AKTGAVINVKKPQFVSPGQMG	0	1
EG10518	CDGPSALPLAKLEPFLKQMK	0	1
EG10518	EEGMKIFQELKQTFGVKIITD	0	0
EG10518	FQELKQTFGVKIITDVHEPSQ	0	0
EG10518	GQMGNIVDKFKEGGNEKVILC	0	0
EG10518	ICEHYVTVTQKLGIPIYVFKAS	0	0
EG10518	IEAHPDPEHAKCDGPSALPLA	0	1
EG10518	IPYVFKASFDKANRSSIHSYR	0	0
EG10518	KQMKAIDDLKGFEEELDTSK_	0	1
EG10518	LPLAKLEPFLKQMKAIDDLK	0	1
EG10518	MAKTGAVINVKKPQFVSPGQM	0	0
EG10518	_____MKQKVVSIGDIN	0	0
EG10518	_____MKQKVVSIGDINVA	0	0
EG10518	RQTDLVEAMAKTGAVINVKKP	0	0
EG10518	SPGQMGNIVDKFKEGGNEKVI	0	1
EG10518	TQKLGIPIYVFKASFDKANRSS	0	0
EG10518	VDKFKEGGNEKVILCDRGANF	0	0
EG10518	_VDMLGFSIMKKVSGNSPVIF	0	0
EG10518	VKGFEELDTSK_____	0	0
EG10518	VVDMLGFSIMKKVSGNSPVIF	0	1
EG10599	AATEVEMKEKKARVEDALHAT	0	1
EG10599	ADAVKVTLGPKGRNVVLDSF	0	1
EG10599	AKLAGGVAVIKVGAATEVEMK	0	1
EG10599	DKSFGAPTITKDGVSVAREIE	0	0
EG10599	DREKLQERVAKLAGGVAVIKV	0	0
EG10599	DVKFGNDARVKMLRGVNVLAD	0	0
EG10599	EEATSDYDREKLQERVAKLAG	0	0
EG10599	EEPSVVANTVKGGDGNYGNA	0	0
EG10599	EMLPVLEAVAKAGKPLLIIE	0	0
EG10599	ESPFILLADKKISNIREMLPV	0	0
EG10599	GAATEVEMKEKKARVEDALHA	0	0
EG10599	GAQMVKEVASKANDAAGDGTT	0	1
EG10599	GGVALIRVASKLADLRGQNE	0	1
EG10599	GPKGRNVVLDSFGAPTITKD	0	0
EG10599	GQNEQNVGIKVALRAMEAPL	0	1
EG10599	ISANSETVGKLIIEAMDKVG	0	1
EG10599	ISEEIGMELEKATLEDLGQAK	0	1
EG10599	KALSVPCSDSKAIAQVGTISA	0	1
EG10599	KAVTAAVEELKALSVPCSDSK	0	1
EG10599	KFENMGAQMVKEVASKANDAA	0	0
EG10599	KVGAATEVEMKEKKARVEDAL	0	1
EG10599	LAQAIITEGLKAVAAGMNPMD	0	1

EG10599	LESPFILLADKKISNIREMLP	0	1
EG10599	LGQAKRVVINKDTTTIIDGVG	0	1
EG10599	LIAEAMDKVGKEGVITVEDGT	0	0
EG10599	LVVNTMRGIVKVAAVKAPGFG	0	0
EG10599	_____MAAKDVKFGNDARV	0	0
EG10599	____MAAKDVKFGNDARVKML	0	0
EG10599	MIDMGILDPTKVTRSALQYAA	0	0
EG10599	MRGIVKVAAVKAPGFGDRRKA	0	1
EG10599	NPMDLKRIGDKAVTAAVEELK	0	0
EG10599	PVLEAVAKAGKPLLIAEDVE	0	0
EG10599	RGVNVLADAVKVTLGPKGRNV	0	0
EG10599	RGYLSPYFINKPETGAVELES	0	1
EG10599	TTECMVTDLPKNDAAADLGAAG	0	1
EG10599	VAAGMNPMDLKRIGDKAVTAA	0	1
EG10599	VKAPGFGDRRKAMLQDIATLT	0	1
EG10758	EVVDGMDVVDKIKGVATGRSG	0	0
EG10758	FEPGMKQKATKEPIKNEANNG	0	0
EG10758	FHTNHGDIVIKTFDDKAPETV	0	0
EG10758	GDIVIKTFDDKAPETVKNFLD	0	0
EG10758	GGGFEPGMKQKATKEPIKNEA	0	1
EG10758	GRSGMHQDVPKEDVIESVTV	0	0
EG10758	MKQKATKEPIKNEANGLKNT	0	0
EG10758	PIKNEANGLKNTRGTLAMAR	0	0
EG10758	TFDDKAPETVKNFLDYCREGF	0	0
EG10758	VDGMDVVDKIKGVATGRSGMH	0	0
EG10789	AAATIAARHLAKEVDFFSIGTN	0	1
EG10789	AKASAQLETIKTKAGETFGEE	0	1
EG10789	ALEELDDEYLKERAADVRDIG	0	1
EG10789	ASAQLETIKTKAGETFGEEKE	0	0
EG10789	ASEKAELAKLKDLPAITLDGH	0	1
EG10789	DKELPYMNFPEENPFLGWRA	0	0
EG10789	ELEQEIALIKDKHMTADAAA	0	0
EG10789	EQEIALIKDKHMTADAAAHE	0	0
EG10789	ERAADVRDIGKRLLRNILGLK	0	0
EG10789	EVERFLSGRAKASAQLETIKT	0	0
EG10789	GIAFGKALLLKEDEIVDRKK	0	0
EG10789	IIRNTNFEDAKVLAEQALAQP	0	0
EG10789	ILASPGIAFGKALLLKEDEIV	0	0
EG10789	ISVEEVRALRKEIEIYKQELR	0	0
EG10789	IVRTMDIGGDKELPYMNFPE	0	0
EG10789	IYKQELRDEGKAFDESIEIGV	0	1
EG10789	_KEDEIVDRKKISADQVDQE	0	1
EG10789	KRLLRNILGLKIIDLSAIQDE	0	1
EG10789	LKEDEIVDRKKISADQVDQE	0	1
EG10789	MSAISIPRIKKIIRNTNFEDA	0	0
EG10789	MTLVNKFIEEKTIC_____	0	1
EG10789	PMSPSVLNLIKQVIDASHAEG	0	0
EG10789	PSETAQLNLKKVLGFITDAGG	0	1

EG10789	PTEEEQFAAYKAVAEACGSQA	0	0
EG10789	QVASEKAELAKLKDLPAILTD	0	0
EG10789	QVIDASHAEGKWTGMCGELAG	0	1
EG10789	RAILRASAFGKLRIMFPMIIS	0	0
EG10789	RALRKEIEIYKQELRDEGKAF	0	1
EG10789	RAVQEQVASEKAELAKLKDLP	0	1
EG10789	SMSAISIPRIKKIIRNTNFED	0	1
EG10789	TKAGETFGEEKEAIFEGHIML	0	0
EG10789	TTDELMTLVNKFIEEKTIC__	0	0
EG10789	VGTGSVTSQVKNDDYLILDAV	0	0
EG10789	YVNPTNEVIDKMRAVQEQVAS	0	0
EG10885	APLAIELDHDKVMNMQAKAEF	0	0
EG10885	DHDKVMNMQAKAEFYSEVLT	0	0
EG10885	GASRRLRAANKFPAILIYGKE	0	1
EG10885	INAEVRKEQKGASRRLRAAN	0	1
EG10885	IVVDGKEIKVKAQDVQRHPYK	0	1
EG10885	KAQDVQRHPYKPKLQHIDFVR	0	0
EG10885	LTIVVDGKEIKVKAQDVQRHP	0	1
EG10885	_MFTINAEVRKEQKGASRRL	0	1
EG10885	QDVQRHPYKPKLQHIDFVRA_	0	0
EG10885	SEVLTIVVDGKEIKVKAQDVQ	0	1
EG10906	AAENKGTAVKKREDVHRMAEA	0	0
EG10906	AMRWIVEAARKRGDKSMALRL	0	0
EG10906	DAAENKGTAVKKREDVHRMAE	0	0
EG10906	DPKFGSELLAKFVNILMVDGK	0	0
EG10906	EDVHRMAEANKAFAHYRWLSL	0	0
EG10906	FVNILMVDGKKSTAESIVYSA	0	0
EG10906	IGQRKILPDPKFGSELLAKFV	0	1
EG10906	IVEAARKRGDKSMALRLANEL	0	1
EG10906	KFVNILMVDGKKSTAESIVYS	0	0
EG10906	LENVRPTVEVKSRRVGGSTYQ	0	0
EG10906	MPRRRVIGQRKILPDPKFGSE	0	0
EG10906	SFSHQAGASSKQPALGYLN__	0	0
EG11005	AEQIYIPVLIKKREQEKGGLDR	0	0
EG11005	AFDTGVRYDFKGNFDLEGLER	0	0
EG11005	ANLKAMYSIAKKYDIPVVMDS	0	0
EG11005	ARFAENAYFIKQREAEYKDWT	0	1
EG11005	DFIIEAFKHVKENAANIKGLT	0	0
EG11005	EPKVLRHFTAKLKEV_____	0	0
EG11005	_EQIYIPVLIKKREQEKGGLDR	0	0
EG11005	FLLGRDPKTGKQLPCPAELLR	0	0
EG11005	GGHAAFVDAGKLLPHIPADQF	0	0
EG11005	GGQPVSLANLKAMYSIAKKYD	0	0
EG11005	IGSFLLGRDPKTGKQLPCPAE	0	0
EG11005	IKGLTFTYEPKVLRHFTAKLK	0	0
EG11005	KHVKENAANIKGLTFTYEPKV	0	1
EG11005	KVLRHFTAKLKEV_____	0	1
EG11005	KYADMLAMSAKKDAMVPMGGL	0	1

EG11005	_____MENFKHLPEPFRIRV	0	0
EG11005	MVPMGGLLCMKDDSFVDVYTE	0	0
EG11005	NLKAMYSIAKKYDIPVVMDSA	0	0
EG11005	PAQALACELYKVAGIRAVEIG	0	0
EG11005	PFRIRVIEPVKRTTRAYREEA	0	1
EG11005	PVLIKKREQEKGLDRSKMVAF	0	1
EG11005	REQEKGLDRSKMVAFSNYFFD	0	1
EG11005	RSYYALAESVKNIFGYQYTIP	0	0
EG11005	THMDFIIEAFKHVKENAANIK	0	1
EG11005	TIEQITRETYKYADMLAMSAK	0	1
EG11005	TRAYREEAIKSGMNPFLDS	0	0
EG11005	YADMLAMSAKKDAMVPMGGLL	0	0
EG11005	YFIKQREAEYKDWTIEQITRE	0	0
EG11073	DDMFPLEEVAKLGYNVFYHGQ	0	0
EG11073	DRFSWFDYRSKGFDDNRGLRI	0	0
EG11073	ENRKRWLRTGKCSFLPEEREW	0	0
EG11073	GIDYEIRSMEKPSDHAPVWAT	0	0
EG11073	KGHYGVALLTKETPIAVRRGF	0	0
EG11073	LDIGIGEENRKRWLRTGKCSF	0	0
EG11073	LGYNVIFYHGQKGHYGVALLTK	0	1
EG11073	_____MKFVSFNINGLR	0	0
EG11073	PQGESRDHPIKFPAKAQFYQN	0	0
EG11073	QPDVIGLQETKVHDDMFPLEE	0	0
EG11073	RPHQLEAIVEKHQPDVIGLQE	0	1
EG11073	SRDHPIKFPAKAQFYQNLQNY	0	0
EG11137	ANPRLRAAVDKALSNNMTRDT	0	0
EG11137	DGSVAYLFSKKGVISFEKGDE	0	0
EG11137	DVYTAWEEMGKVRDALEAAGL	0	0
EG11137	FSKKGVISFEKGDEDTIMEAA	0	1
EG11137	HSKWANTRHRKAAQDAKRGKI	0	1
EG11137	KADMDAETAPKLMRLIDMLED	0	0
EG11137	KIIRELVTAACKLGGGDPDANP	0	1
EG11137	_____MAGHSKWANTRHRKAA	0	0
EG11137	QDAKRGKIFTKIIRELVTAACK	0	1
EG11137	RKAAQDAKRGKIFTKIIRELV	0	1
EG11137	SAEVSMIPSTKADMDAETAPK	0	1
EG11137	TDGSVAYLFSKKGVISFEKGD	0	0
EG11137	TRHRKAAQDAKRGKIFTKIIR	0	0
EG11137	TVAEVRHAFSKCGGNLGTDGS	0	0
EG11835	AAGGNTTSGSKGQNAPKDPRI	0	0
EG11835	DQEARDRKRQKKRRGHAPGSR	0	0
EG11835	EELDQEARDRKRQKKRRGHAP	0	0
EG11835	GVTEKVTQHKPKSEKPMMLSP	0	1
EG11835	IPLGVTEKVTQHKPKSEKPM	0	1
EG11835	KLDRIDELMQKLGLSYDDDEE	0	0
EG11835	KTPIPLGVTEKVTQHKPKSE	0	1
EG11835	_____MKPSSSNSRSKG	0	1
EG11835	MKPSSSNSRSKGHAKARRKTR	0	0

EG11835	NAPKDPRIGSKTPIPLGVTEK	0	0
EG11835	QEARDRKRQKKRRGHAPGSRA	0	0
EG11835	RSKGHAKARRKTREELDQEAR	0	0
EG11835	SAEEQSWVDAKLDRIDELMQK	0	0
EG11835	SSNSRSKGHAKARRKTREELD	0	0
EG11835	TEKVTQHKPKSEKPMSPQA	0	1
EG11835	TSGSKGQNAPKDPRIGSKTPI	0	0
EG11835	VTQHKPKSEKPMSPQAELE	0	0
EG12316	AERAAEGIAPKPLDANQMAAL	0	0
EG12316	AERSAAGCTIKLNKEPIIEYL	0	1
EG12316	AIKQGLLTVEKKGKKNIFSGR	0	1
EG12316	ARPLSAVQGEKIDEVFIGSCM	0	0
EG12316	AVIDIDLADIKEPILCAPNDP	0	0
EG12316	DDAKLAPIAAKALSHTLLMFD	0	0
EG12316	DIPLHALAMLKNAREGIEPDQ	0	1
EG12316	DMPEVLVRFKGKMQPGITLR	0	0
EG12316	DNFYDVEEKAKAGNEYAKQVM	0	1
EG12316	EAKSPLLTPEKAIELLGTMQG	0	1
EG12316	EKAKAGNEYAKQVMQSWADAE	0	0
EG12316	ELAAVAALIGKLPTPEEYQTY	0	0
EG12316	ESDRGFSLAQKMVGRACGVKG	0	0
EG12316	EYLSNIVLLKWMIAEGYGDR	0	0
EG12316	EYQTYVAQVDKTAVDTRYRLN	0	1
EG12316	GDVVGTGSSRKSATNSVLWFM	0	0
EG12316	GIRPGAYCEPKMTSVGSQDTT	0	0
EG12316	GLLTVEKKGKKNIFSGRILEI	0	0
EG12316	HPLIDALDDAKLAPIAAKALS	0	0
EG12316	IKQGLLTVEKKGKKNIFSGRI	0	0
EG12316	ILEIEGLPDLKVEQAFELTDA	0	0
EG12316	KRGGGLCLGGKIAPIFFNTME	0	0
EG12316	LAEKLTVTVFVKTGETNTDDL	0	1
EG12316	LPHSDVFRQAKDVAESDRGFS	0	1
EG12316	LVHAIPLYAIKQGLLTVEKKG	0	0
EG12316	MFDNFYDVEEKAKAGNEYAKQ	0	0
EG12316	MGDDIPHVPNKRGGGLCLGGK	0	0
EG12316	MGDVIDVYPYKGEVRNHETGE	0	0
EG12316	___MLEEYRKHVAERAAEGI	0	1
EG12316	NFNQLSQYTEKADGVIFQTAV	0	0
EG12316	NQMAALVELLKNPPAGEEEFL	0	1
EG12316	PDQPGVVGPIKQIEALQQKGF	0	1
EG12316	PESVLVRFKGKMQPGITLRDL	0	0
EG12316	PIKQIEALQQKGFPLAYVGDV	0	0
EG12316	PLIIGRGLTTKAREALGLPHS	0	0
EG12316	PPGVDEAAYVKAGFLAAIAKG	0	0
EG12316	QGLLTVEKKGKKNIFSGRILE	0	0
EG12316	QKMVGRACGVKGIRPGAYCEP	0	0
EG12316	QSFCHTAAYPKPVDVNTHTL	0	0
EG12316	RAAGKLLDAHKGQLPTRLWVA	0	0

EG12316	SAAGCTIKLNKEPIIEYLNSN	0	0
EG12316	TEEGYYSVFGKSGARIEIPGC	0	1
EG12316	TGELLATFELKTDVLIDEVRA	0	0
EG12316	TLERRIQGMEKWLANPELLEA	0	0
EG12316	TNIGHFRAAGKLLDAHKGQLP	0	1
EG12316	TTGPMTRDELKDLACLGF SAD	0	0
EG12316	VKAGFLAAIAKGEAKSPLLTP	0	1
EG12316	WFLNRPALAEKLTVTVFKVTG	0	0
EG13261	ALELLFGHLRKDLTAADGQTR	0	1
EG13261	ALGTGDALASKYRRQLYALLY	0	1
EG13261	AQYNGQFILAKLDCDAEQMIA	0	0
EG13261	DKVLPREEELKAQQAMQLMQE	0	0
EG13261	PEEAIRALLDKVLPREEELKA	0	0
EG13261	QGLVAQIELLKQAADTPEIQQ	0	0
EG13261	SNYTDALPLLKDAWQLSNQNG	0	0
EG13433	AALSGMEEGGKLAQEAGWLMA	0	0
EG13433	DPRPQAEIRAKDMSVFSSLIR	0	1
EG13433	FIDGMHEAGMKTTGKHFP GHG	0	0
EG13433	GERSYHADPQKALAIASRFID	0	1
EG13433	GHGAVTADSHKETPCDPRPQA	0	0
EG13433	KAERVTRLYHKG SFSRQELMD	0	0
EG13433	MHEAGMKTTGKHFP GHGAVTA	0	0
EG13433	NQLHERWQEEKAGH_____	0	0
EG13433	RPASGSPYWLKTVLRQELGFD	0	0
EG13433	RQELMDSARWKAISTRNLNQLH	0	0
EG13433	SVFSSLIRENKLD AIMP AHVI	0	0
EG13433	VSVLDNLSPIKAERVTRLYHK	0	0
EG13723	AIEIPRLGLAK_____	0	0
EG13723	HTIALVGASDKPDRPSYRVMK	0	0
EG13723	KPDRPSYRVMKYLLDQGYHVI	0	1
EG13723	KVAGKTLLGQKGYGTLADVPE	0	1
EG13723	_____MKETDIAGILTS	0	1
EG13723	QGYHVIPVSPKVAGKTLLGQK	0	1
EG13723	VAQEAI AIGAKTLWMQLGVIN	0	1
EG13723	VIPVSPKVAGKTLLGQKGYGT	0	0
EG14074	ARIEKMGVTIKCNNEVGNTLT	0	0
EG14074	AVCARVCPTEKLCQSGCTRAG	0	0
EG14074	DVAMDVASTLKVLGCQAVTCV	0	0
EG14074	EELDEFPASEKEFTSARELGV	0	0
EG14074	EGDKTVVYAVKTGKEAAEAIH	0	0
EG14074	FAAGDIVEGDKTVVYAVKTGK	0	0
EG14074	FIRSIYFRNFKGAAETIRENN	0	0
EG14074	GFTPVAVEGNKVTFKHVRLSG	0	1
EG14074	IYQPGTKTLGKVAIIGAGPAG	0	1
EG14074	KTVVYAVKTGKEAAEAIHHYL	0	1
EG14074	LSGELTMAADKIILAVGQHAR	0	0
EG14074	NQGYDVTIYEKEAHPGGWLRN	0	0
EG14074	QACPAQTDPGKFIRSIYFRNF	0	0

EG14074	TGMEIYQPGTKTLGKVAIIGA	0	0
EG14074	TPAFTSLLAIKEASRCLLCHD	0	0
EG14074	VAVEGNKVTFKHVRLSGELTM	0	1
EG14074	VGNTLTLEQLKAENRAVLTV	0	0
EG14074	VLDAEIARIEKMGVTIKCNE	0	0
EG20151	AAGNYVFNERKMLDASHVVVF	0	0
EG20151	AAILDAEFLKEKGYTSLVVV	0	0
EG20151	ADGRFATPEAKAANDKGRKFF	0	0
EG20151	AKTAMDDVWLKLVVDQEDADG	0	0
EG20151	ATPEAKAANDKGRKFFADMHR	0	1
EG20151	DASHVVVFCAKTAMDDVWLKL	0	1
EG20151	DLHDDAEWMAKQVYLVGNFL	0	0
EG20151	EAKAANDKGRKFFADMHRKDL	0	0
EG20151	GRKFFADMHRKDLHDDAEWMA	0	0
EG20151	HFIVASTEKGKARVAKSAAGN	0	1
EG20151	ILDAEFLKEKGYTSLVVVPV	0	0
EG20151	ISVALKRHSTKAFDASKKLT	0	0
EG20151	KLTPEQAEQIKTLLQYSPSST	0	0
EG20151	__MDIISVALKRHSTKAFDAS	0	0
EG20151	RHSTKAFDASKKLTPEQAEQI	0	0
EG20151	SVEDFNATLPKSRLPQNITLT	0	0
EG50010	APPKKGEVLIKVTHTGVCHTD	0	0
EG50010	CGECEFCRSGKTNLCVAVRET	0	0
EG50010	EIVEIDVAPPKKGEVLIKVTH	0	1
EG50010	GRIIAIDTNPKKFDLARRFGA	0	0
EG50010	INPNDYDKPIKDVLLDINKWG	0	1
EG50010	IVEIDVAPPKKGEVLIKVTHT	0	0
EG50010	LAVVQGARQAKAGRIIAIDTN	0	1
EG50010	LCVAVRETQGKGLMPDGTTRF	0	0
EG50010	_____MKSRAAVAFAPG	0	0
EG50010	NDAFDLMHEGKSIRTIVIRY__	0	0
EG50010	PFQLVTGRVWKGSAFGGVKGR	0	0
EG50010	PIKDVLLDINKWGIDHTFECI	0	0
EG50010	QLPGMVEDAMKGDIDLEPFVT	0	0
EG50010	RIIAIDTNPKKFDLARRFGAT	0	0
EG50010	TDCINPNDYDKPIKDVLLDIN	0	0
EG50010	TGIGAVHNTAKVQPGDSVAVF	0	0
EG50010	VEVGEGVTSVKPGDHVIPLYT	0	0
EG50010	VWKGSAFGGVKGRSQLPGMVE	0	0
EG50010	YTVVAEVSLAKINPEANHEHV	0	0

Table S8. The prediction results of PSoL for the test dataset.

Protein Name	Peptide	Class label	Prediction label
EG10032	AAVKSGSELGKQAKDIMDAGK	1	0
EG10032	HAPSGRVYHVKNPPKVEGKD	1	1
EG10032	KSGSELGKQAKDIMDAGKLV	1	0
EG10032	RVYHVKNPPKVEGKDDVTGE	1	1

EG10241	DVVDAEFEEVKDKK_____	1	1
EG10241	VDAEFEEVKDKK_____	1	0
EG10420	ADAIFIEELRKADLYDKVSQA	1	0
EG10518	YRGPGLEEGMKIFQELKQTFG	1	1
EG10599	KATLEDLGQAKRVVINKDTTT	1	1
EG10599	SVAREIELEDKFENMGAQMVK	1	0
EG10599	VGKLIAEAMDKVGKEGVITVE	1	1
EG10758	IQGGGFEPGMKQKATKEPIKN	1	0
EG10789	TPSETAQLNLKKVLGFITDAG	1	1
EG10885	NKFPPIIYGGKEAPLAIELDH	1	0
EG10906	ALETLAQRSGKSELEAFEVAL	1	0
EG10906	ANELSDAAENKGTAVKKREDV	1	1
EG11005	NGCTVRNVYIKEAFDTGVRYP	1	0
EG11073	NLQNYLETELKRDNPVLMGD	1	1
EG11137	VRDALEAAGLKADSAEVSMIP	1	1
EG11835	DDDEEEEEDEKQEDMMRLLRG	1	0
EG12316	FLAAIAKGEAKSPLLTPEKAI	1	0
EG13261	DLTAADGQTRKTFQEILALG	1	0
EG13261	NRSEDAEAVLKTIPLQDQDTR	1	1
EG13433	CDMILVCNNRKGAVSVLDNLS	1	1
EG13723	GYGTLADVPEKVDMVDVFRNS	1	1
EG14074	ALEPQRNTIKTQNYQTRDPQ	1	0
EG20151	HSTKAFDASKKLTPEQAEQIK	1	1
EG20151	SRAAVAFAPGKPLEIVEIDVA	1	0
EG50010	STEEGKARVAKSAAGNYVFNE	1	1
EG10032	DVTGEELTTRKDDQEETVRKR	0	0
EG10032	EAEAGNTKYAKVDGTPVAEV	0	0
EG10032	IILLGAPGAGKGTQAQFIMEK	0	0
EG10032	KGTQAQFIMEK_____	0	0
EG10032	KQAKDIMDAGKLVTDLVIAL	0	0
EG10032	MTAPLIGYYSKEAEAGNTKYA	0	0
EG10032	NTKYAKVDGTPVAEVRADLE	0	1
EG10032	PRTIPQADAMKEAGINVDYVL	0	0
EG10032	PVAEVRADLEKILG_____	0	1
EG10032	RKDDQEETVRKRLVEYHQMTA	0	0
EG10032	STGDMLRAAVKSGSELGKQAK	0	0
EG10032	VKFNPPKVEGKDDVTGEELTT	0	1
EG10032	VTDELVIALVKERIAQEDCRN	0	1
EG10032	YSKEAEAGNTKYAKVDGTPV	0	0
EG10241	ADNGDAWVEVKGQKMAPPQIS	0	0
EG10241	AGADASANNAKDDDVVDAEFE	0	1
EG10241	AKDKNSGKEQKITIKASSGLN	0	0
EG10241	ALETALKGEDKAAIEAKMQEL	0	0
EG10241	AMQRLKEAAEKAKIELSSAQQ	0	1
EG10241	APPQISAEVLKKMKKTAEDYL	0	1
EG10241	DADGILHVSADKNSGKEQKI	0	1
EG10241	DAEANAADRKFEELVQTRNQ	0	1
EG10241	DAEFEEVKDKK_____	0	1

EG10241	DAGRIAGLEVKRIINEPTAAA	0	1
EG10241	DATGPKHMNIKVTRAKLES LV	0	0
EG10241	DGETLVGQPAKRQAVTNPQNT	0	0
EG10241	DGILHVSAKDKNKGKEQKITI	0	0
EG10241	DLVNRSIEPLKVALQDAGLSV	0	0
EG10241	EAGDKLPADDKTAIESALTAL	0	1
EG10241	GDAWVEVKGQKMAPPQISAEV	0	0
EG10241	GGQTRMPMVQKKVAEFFGKEP	0	0
EG10241	GQTRMPMVQKKVAEFFGKEP_	0	0
EG10241	HVSAKDKNKGKEQKITIKASS	0	0
EG10241	IIEIDEVDGEKTFEVLATNGD	0	0
EG10241	ISAEVLKKMKKTAEDYLGEPV	0	0
EG10241	KGEDKAAIEAKMQELAQVSQK	0	0
EG10241	KHMNIKVTRAKLES LVEDLVN	0	0
EG10241	KMQELAQVSQKLMEIAQQQHA	0	0
EG10241	LIAKNTTIPTKHSQVFSTAED	0	1
EG10241	LINYLVVEEFKKDQGIDLRNDP	0	1
EG10241	MGGVMTTLIAKNTTIPTKHSQ	0	1
EG10241	_____MGKIIIDLGTTN	0	1
EG10241	NSGKEQKITIKASSGLNEDEI	0	0
EG10241	PPQISAEVLKKMKKTAEDYLG	0	0
EG10241	PYITADATGPKHMNIKVTRAK	0	0
EG10241	QGDHLLHSTRKQVEEAGDKLP	0	0
EG10241	QGERKRAADNKS LGQFNLDGI	0	1
EG10241	QISAEVLKKMKKTAEDYLGEP	0	0
EG10241	QRLKEAAEKAKIELSSAQQTD	0	1
EG10241	RLINYLVVEEFKKDQGIDLRND	0	1
EG10241	RNDPLAMQRLKEAAEKAKIEL	0	0
EG10241	SALTALETALKGEDKAAIEAK	0	1
EG10241	SSGLNEDEIQKMVRDAEANA E	0	0
EG10241	TAAALAYGLDKGTGNRTIAVY	0	1
EG10241	TNPQNTLFAIKRLIGRRFQDE	0	0
EG10241	TRKQVEEAGDKLPADDKTAIE	0	0
EG10241	VAEFFGKEPRKDVNPDEAVAI	0	1
EG10241	VQGGVLTGDVKDVL LLDVTPL	0	0
EG10241	VQKKVAEFFGKEPRKDVNPDE	0	1
EG10241	VQRDVSIMPFKIIAADNGDAW	0	0
EG10241	VTIHVLQGERKRAADNKS LGQ	0	1
EG10241	YFNDAQRQATKDAGRIAGLEV	0	1
EG10420	AGENDPEAKRKIIIGRVFVEVF	0	0
EG10420	ALAGENDPEAKRKIIIGRVFVE	0	0
EG10420	ARIREQVGDDKVILGLSGGVD	0	1
EG10420	ASATGKAHVIKSHHNVGGLPK	0	0
EG10420	CPFAIMANEEKRFYGVQFHPE	0	0
EG10420	CQCEALWTPAKIIDDAVARIR	0	0
EG10420	DEEALKLEDVKWLAQGTIYPD	0	0
EG10420	EELRKADLYDKVSQAFTVFLP	0	1
EG10420	EMKMGLVEPLKELFKDEV RKI	0	1

EG10420	FVEVFDEEALKLEDVKWLAQG	0	1
EG10420	GIEDALTADGKPLLDVWMSHG	0	0
EG10420	GLGVRVLGEVKKEYCDLLRRA	0	0
EG10420	GLVEPLKELFKDEV RKIGLEL	0	0
EG10420	HNVGGLPKEMKMGLVEPLKEL	0	0
EG10420	ISRVVYDISGKPPATIEWE__	0	0
EG10420	KSHHNVGGLPKEMKMGLVEPL	0	0
EG10420	LGVRVLGEVKKEYCDLLRRAD	0	0
EG10420	LKELFKDEV RKIGLELGLPYD	0	0
EG10420	LLDVWMSHGDKVTAIPSDFIT	0	0
EG10420	____MTENIHKHRILIDFGS	0	0
EG10420	RSVGVMGDGRKYDWVVSRAV	0	0
EG10420	TAMLLHRAIGKNLTCVFVDNG	0	0
EG10420	VIESAASATGKAHV KSHHNV	0	0
EG10518	AKLEPFLKQMK AIDDLVKGFE	0	1
EG10518	AKTGAVINVKKPQFVSPGQMG	0	1
EG10518	CDGPSALPLAKLEPFLKQMK A	0	0
EG10518	EEGMKIFQELKQTFGVKIITD	0	1
EG10518	FQELKQTFGVKIITDVHEPSQ	0	0
EG10518	GQMGNIVDKFKEGGNEKVILC	0	0
EG10518	ICEHYVTVTQKL GIPYVFKAS	0	0
EG10518	IEAHPDPEHAKCDGPSALPLA	0	0
EG10518	IPYVFKASFDKANRSSIHSYR	0	0
EG10518	KQMK AIDDLVKGFEELDTSK_	0	0
EG10518	LPLAKLEPFLKQMK AIDDLVK	0	1
EG10518	MAKTGAVINVKKPQFVSPGQM	0	0
EG10518	_____MKQKVVSIGDIN	0	0
EG10518	_____MKQKVVSIGDINVA	0	0
EG10518	RQTDLVEAMAKTGAVINVKKP	0	1
EG10518	SPGQMGNIVDKFKEGGNEKVI	0	0
EG10518	TQKL GIPYVFKASFDKANRSS	0	1
EG10518	VDKFKEGGNEKVILCDRGANF	0	0
EG10518	_VDMLGFSIMKKVSGNSPVIF	0	0
EG10518	VKGFEELDTSK_____	0	1
EG10518	VVDMLGFSIMKKVSGNSPVIF	0	0
EG10599	AATEVEMKEKKARVEDALHAT	0	0
EG10599	ADAVKVTLGPKGRNVLDKSF	0	1
EG10599	AKLAGGVAVIKVGAATEVEMK	0	1
EG10599	DKSFGAPTITKDGVSVAREIE	0	0
EG10599	DREKLQERVAKLAGGVAVIKV	0	0
EG10599	DVKFGNDARVKMLRGVNVLAD	0	0
EG10599	EEATSDYDREKLQERVAKLAG	0	0
EG10599	EEPSVVANTVKGGDGNYGYN A	0	0
EG10599	EMLPVLEAVAKAGKPLLIAE	0	0
EG10599	ESPFILLADKKISNIREMLPV	0	0
EG10599	GAATEVEMKEKKARVEDALHA	0	0
EG10599	GAQMVKEVASKANDAAGDGTT	0	0
EG10599	GGVALIRVASKLADLRGQNE D	0	1

EG10599	GPKGRNVVLDKSFGAPTITKD	0	1
EG10599	GQNEDQNVGIKVALRAMEAPL	0	0
EG10599	ISANSDETVGKLI AEAMDKVG	0	0
EG10599	ISEEIGMELEKATLEDLGQAK	0	0
EG10599	KALSVPCSDSKAIAQVGTISA	0	1
EG10599	KAVTAAVEELKALSVPCSDSK	0	0
EG10599	KFENMGAQMVKEVASKANDAA	0	0
EG10599	KVGAATEVEMKEKKARVEDAL	0	0
EG10599	LAQAIITEGLKAVAAGMNPMD	0	0
EG10599	LESPFILLADKKISNIREMLP	0	0
EG10599	LGQAKRVVINKDTTTIIDGVG	0	1
EG10599	LIAEAMDKVGKEGVITVEDGT	0	1
EG10599	LVVNTMRGIVKVA AVKAPGFG	0	1
EG10599	_____MAAKDVKFGNDARV	0	0
EG10599	____MAAKDVKFGNDARVKML	0	0
EG10599	MIDMGILDPTKVTRSALQYAA	0	0
EG10599	MRGIVKVA AVKAPGFGDRRKA	0	1
EG10599	NPMDLKR GIDKAVTAAVEELK	0	0
EG10599	PVLEAVAKAGKPLLIAEDVE	0	1
EG10599	RGVNVLADAVKVTLGPKGRNV	0	0
EG10599	RGYLSPYFINKPETGAVELES	0	1
EG10599	TTECMVTDLPKND AADLGAAG	0	1
EG10599	VAAGMNPMDLKR GIDKAVTAA	0	0
EG10599	VKAPGFGDRRKAMLQDIATLT	0	0
EG10758	EVVDGMDVVDKIKGVATGRSG	0	1
EG10758	FEPGMKQKATKEPIKNEANNG	0	0
EG10758	FHTNHGDIVIKTFDDKAPETV	0	0
EG10758	GDIVIKTFDDKAPETVKNFLD	0	0
EG10758	GGGFEPGMKQKATKEPIKNEA	0	0
EG10758	GRSGMHQDVPKEDVIIESVTV	0	0
EG10758	MKQKATKEPIKNEANGLKNT	0	1
EG10758	PIKNEANGLKNTRGTLAMAR	0	0
EG10758	TFDDKAPETVKNFLDYCREGF	0	0
EG10758	VDGMDVVDKIKGVATGRSGMH	0	0
EG10789	AAAT IARHLAKEVDFFSIGTN	0	1
EG10789	AKASAQLETIKTKAGETFGEE	0	1
EG10789	ALEELDDEY LKERAADVRDIG	0	1
EG10789	ASAQLETIKTKAGETFGEEKE	0	1
EG10789	ASEKAELAKLKDLPAILDGH	0	0
EG10789	DKELPYMNF PKEENPFLGWRA	0	0
EG10789	ELEQEIIALIKDKHMTADAAA	0	0
EG10789	EQEIIALIKDKHMTADAAAHE	0	1
EG10789	ERAADVRDIGKRLLRNILGLK	0	1
EG10789	EVERFLSGRAKASAQLETIKT	0	1
EG10789	GIAFGKALLLKEDEIVDRKK	0	0
EG10789	IIRNTNFEDAKVLAEQALAP	0	0
EG10789	ILASPGIAFGKALLLKEDEIV	0	0
EG10789	ISVEEVRALRKEIEIYKQELR	0	1

EG10789	IVRTMDIGGDKELPYMNFPE	0	0
EG10789	IYKQELRDEGKAFDESIEIGV	0	1
EG10789	_KEDEIVDRKKISADQVDQE	0	0
EG10789	KRLLRNILGLKIIDLSAIQDE	0	0
EG10789	LKEDEIVDRKKISADQVDQE	0	0
EG10789	MSAISIPRIKKIIRNTNFEDA	0	0
EG10789	MTLVNKFIEEKTIC_____	0	0
EG10789	PMSPSVLNLIKQVIDASHAEG	0	0
EG10789	PSETAQLNLKKVLGFITDAGG	0	1
EG10789	PTEEEQFAAYKAVAEACGSQA	0	0
EG10789	QVASEKAELAKLKDLPAITLD	0	0
EG10789	QVIDASHAEGKWTGMCGELAG	0	0
EG10789	RAILRASAFGKLRIIMPMIIS	0	0
EG10789	RALRKEIEIYKQELRDEGKAF	0	1
EG10789	RAVQEQVASEKAELAKLKDLP	0	0
EG10789	SMSAISIPRIKKIIRNTNFED	0	0
EG10789	TKAGETFGEEKEAIFEGHIML	0	1
EG10789	TTDELMTLVNKFIEEKTIC__	0	0
EG10789	VGTSVTSQVKNDLYLILDAV	0	0
EG10789	YVNPTNEVIDKMRAVQEQVAS	0	0
EG10885	APLAIELDHDKVMNMQAKAEF	0	0
EG10885	DHDKVMNMQAKAEFYSEVLT	0	1
EG10885	GASRRLRAANKFPAIHYGGKE	0	1
EG10885	INAEVRKEQGKGASRRLRAAN	0	1
EG10885	IVVDGKEIKVKAQDVQRHPYK	0	0
EG10885	KAQDVQRHPYKPKLQHIDFVR	0	0
EG10885	LTIVVDGKEIKVKAQDVQRHP	0	1
EG10885	_MFTINAEVRKEQGKGASRRL	0	0
EG10885	QDVQRHPYKPKLQHIDFVRA_	0	0
EG10885	SEVLTIVVDGKEIKVKAQDVQ	0	0
EG10906	AAENKGTAVKKREDVHRMAEA	0	0
EG10906	AMRWIVEAARKRGDKSMALRL	0	0
EG10906	DAAENKGTAVKKREDVHRMAE	0	0
EG10906	DPKFGSELLAKFVNILMVDGK	0	1
EG10906	EDVHRMAEANKAFAHYRWLSL	0	0
EG10906	FVNILMVDGKKSTAESIVYSA	0	0
EG10906	IGQRKILPDPKFGSELLAKFV	0	0
EG10906	IVEAARKRGDKSMALRLANEL	0	0
EG10906	KFVNILMVDGKKSTAESIVYS	0	0
EG10906	LENVRPTVEVKSRRVGGSTYQ	0	1
EG10906	MPRRRVIGQRKILPDPKFGSE	0	0
EG10906	SFSHQAGASSKQPALGYLN__	0	0
EG11005	AEQIYIPVLIKKREQEKGGLDR	0	0
EG11005	AFDTGVRYDFKGNFDLEGLER	0	1
EG11005	ANLKAMYSIAKKYDIPVVMDS	0	0
EG11005	ARFAENAYFIKQREAEYKDWT	0	0
EG11005	DFIIEAFKHVKENAANIKGLT	0	0
EG11005	EPKVLRHFTAKLKEV_____	0	1

EG11005	_EQIYIPVLIKKREQEKGGLDR	0	1
EG11005	FLLGRDPKTGKQLPCPAELLR	0	1
EG11005	GGHAAFVDAGKLLPHIPADQF	0	1
EG11005	GGQPVSLANLKAMYSIAKKYD	0	1
EG11005	IGSFLLGRDPKTGKQLPCPAE	0	0
EG11005	IKGLTFTYEPKVL RHFTAKLK	0	0
EG11005	KHVKENAANIKGLTFTYEPKV	0	0
EG11005	KVLRHFTAKLKEV_____	0	1
EG11005	KYADMLAMSAKKDAMVPMGGL	0	0
EG11005	_____MENFKHLPEPFRIRV	0	0
EG11005	MVPMGGLLCMKDDSFVDVYTE	0	0
EG11005	NLKAMYSIAKKYDIPVVMDSA	0	0
EG11005	PAQALACELYKVAGIRAVEIG	0	0
EG11005	PFRIRVIEPVKRTTRAYREEA	0	0
EG11005	PVLIKKREQEKGGLDRSKMVAF	0	1
EG11005	REQEKGGLDRSKMVAFSNYFFD	0	1
EG11005	RSYYALAESVKNIFYGYQYTIP	0	0
EG11005	THMDFIIEAFKHVKENAANIK	0	0
EG11005	TIEQITRETYKYADMLAMSAK	0	0
EG11005	TRAYREEAIKSGMNPFLDS	0	0
EG11005	YADMLAMSAKKDAMVPMGGLL	0	0
EG11005	YFIKQREAEYKDWTIEQITRE	0	1
EG11073	DDMFPLEEVAKLGYNVFYHGQ	0	0
EG11073	DRFSWFDYRSKGFDDNRGLRI	0	0
EG11073	ENRKRWLRTGKCSFLPEEREW	0	0
EG11073	GIDYEIRSMEKPSDHAPVWAT	0	1
EG11073	KGHYGVALLTKETPIAVRRGF	0	0
EG11073	LDIGIGEENRKRWLRTGKCSF	0	0
EG11073	LGYNVIFYHGQKGHYGVALLTK	0	0
EG11073	_____MKFVSFNINGLR	0	0
EG11073	PQGESRDHPIKFPAKAQFYQN	0	0
EG11073	QPDVIGLQETKVHDDMFPLEE	0	0
EG11073	RPHQLEAIVEKHQPDVIGLQE	0	0
EG11073	SRDHPIKFPAKAQFYQNLQNY	0	0
EG11137	ANPRLRAAVDKALSNNMTRDT	0	1
EG11137	DGSVAYLFSKKGVISFEKGDE	0	0
EG11137	DVYTAWEEMGKVRDALEAAGL	0	1
EG11137	FSKKGVISFEKGDEDTIMEAA	0	0
EG11137	HSKWANTRHRKAAQDAKRGKI	0	1
EG11137	KADMDAETAPKLMRLIDMLED	0	0
EG11137	KIIRELVTA AKLG GGPDPANP	0	0
EG11137	_____MAGHSKWANTRHRKAA	0	0
EG11137	QDAKRGKIFTKIIRELVTA AK	0	0
EG11137	RKAAQDAKRGKIFTKIIRELV	0	0
EG11137	SAEVSMIPSTKADMDAETAPK	0	0
EG11137	TDGSVAYLFSKKGVISFEKGD	0	0
EG11137	TRHRKAAQDAKRGKIFTKIIR	0	0
EG11137	TVAEVRHAFSKCGGNLGTDGS	0	1

EG11835	AAGGNTTSGSKGQNAPKDPRI	0	1
EG11835	DQEARDRKRQKKRRGHAPGSR	0	0
EG11835	EELDQEARDRKRQKKRRGHAP	0	0
EG11835	GVTEKVTQHKPKSEKPM	0	0
EG11835	IPLGVTEKVTQHKPKSEKPM	0	0
EG11835	KLDRIDELMQKLGLSYDDDEE	0	1
EG11835	KTIPLGVTEKVTQHKPKSE	0	0
EG11835	_____MKPSSSNSRSKG	0	0
EG11835	MKPSSSNSRSKGHAKARRKTR	0	0
EG11835	NAPKDPRIGSKTIPLGVTEK	0	0
EG11835	QEARDRKRQKKRRGHAPGSRA	0	0
EG11835	RSKGHAKARRKTREELDQEAR	0	0
EG11835	SAEEQSWVDAKLDRIDELMQK	0	0
EG11835	SSNSRSKGHAKARRKTREELD	0	0
EG11835	TEKVTQHKPKSEKPM	0	1
EG11835	TSGSKGQNAPKDPRIGSKTIPI	0	0
EG11835	VTQHKPKSEKPM	0	0
EG12316	AERAAEGIAPKPLDANQMAAL	0	0
EG12316	AERSAAGCTIKLNKEPIIEYL	0	1
EG12316	AIKQGLLTVEKKGKKNIFSGR	0	0
EG12316	ARPLSAVQGEKIDEVFIGSCM	0	0
EG12316	AVIDIDLADIKEPILCAPNDP	0	0
EG12316	DDAKLAPIAAKALSHTLLMFD	0	0
EG12316	DIPLHALAMLKNAREGIEPDQ	0	0
EG12316	DMPESVLVRFKGKM	0	0
EG12316	DNFYDVEEKAKAGNEYAKQVM	0	1
EG12316	EAKSPLLTPEKAIELLTGMQG	0	1
EG12316	EKAKAGNEYAKQVMQSWADAE	0	0
EG12316	ELAAVAALIGKLPTPEEYQTY	0	0
EG12316	ESDRGFSLAQKMGVGRACGVKG	0	0
EG12316	EYLSNIVLLKWMIAEGYGDR	0	0
EG12316	EYQTYVAQVDKTAVDTYRYLN	0	0
EG12316	GDVVGTGSSRKSATNSVLWFM	0	1
EG12316	GIRPGAYCEPKMTSVGSQDIT	0	0
EG12316	GLLTVEKKGKKNIFSGRILEI	0	0
EG12316	HPLIDALDDAKLAPIAAKALS	0	0
EG12316	IKQGLLTVEKKGKKNIFSGRI	0	0
EG12316	ILEIEGLPDLKVEQAFELTDA	0	1
EG12316	KRGGGLCLGGKIAPIFFNTME	0	0
EG12316	LAEKLTVTVFVKVTGETNTDDL	0	1
EG12316	LPHSDVFRQAKDVAESDRGFS	0	0
EG12316	LVHAIPLYAIKQGLLTVEKKG	0	0
EG12316	MFDNFYDVEEKAKAGNEYAKQ	0	1
EG12316	MGDDIPHPNKRGGGLCLGGK	0	0
EG12316	MGDVIDVYPYKGEVRNHETGE	0	0
EG12316	_____MLEEYRKHVAERAAEGI	0	0
EG12316	NFNQLSQYTEKADGVIFQTAV	0	0
EG12316	NQMAALVELLKNPPAGEEEFL	0	0

EG12316	PDQPGVVGPIKQIEALQQKGF	0	0
EG12316	PESVLVRFKGMQPGITLRDL	0	0
EG12316	PIKQIEALQQKGFPLAYVGDV	0	0
EG12316	PLIIGRGLTTKAREALGLPHS	0	0
EG12316	PPGVDEAAYVKAGFLAAIAKG	0	0
EG12316	QGLLTVEKKGKKNIFSGRILE	0	0
EG12316	QKMVGRACGVKGIRPGAYCEP	0	0
EG12316	QSFCHTAAYPKPVDVNTHTL	0	0
EG12316	RAAGKLLDAHKGQLPTRLWVA	0	0
EG12316	SAAGCTIKLNKEPIEYLNSN	0	1
EG12316	TEEGYYSVFGKSGARIEIPGC	0	0
EG12316	TGELLATFELKTDVLIDEVRA	0	0
EG12316	TLERRIQGMEKWLANPELLEA	0	0
EG12316	TNIGHFRAAGKLLDAHKGQLP	0	0
EG12316	TTGPMTRDELKDLACLGFSAD	0	0
EG12316	VKAGFLAAIAKGEAKSPLLTP	0	1
EG12316	WFLNRPALAEKLTVTVFKVTG	0	0
EG13261	ALELLFGHLRKDLTAADGQTR	0	0
EG13261	ALGTGDALASKYRRQLYALLY	0	0
EG13261	AQYNGQFILAKLDCDAEQMIA	0	1
EG13261	DKVLPREEELKAQQAMQLMQE	0	0
EG13261	PEEAIRALLDKVLPREEELKA	0	1
EG13261	QGLVAQIELLKQAADTPEIQQ	0	0
EG13261	SNYTDALPLLKDAWQLSNQNG	0	0
EG13433	AALSGMEEGGKLAQEAGWLMA	0	0
EG13433	DPRPQAEIRAKDMSVFSSLIR	0	0
EG13433	FIDGMHEAGMKTTGKHFPGHG	0	0
EG13433	GERSYHADPQKALAIASRFID	0	0
EG13433	GHGAVTADSHKETPCDPRPQA	0	0
EG13433	KAERVTRLYHKGFSRQELMD	0	0
EG13433	MHEAGMKTTGKHFPGHGAVTA	0	0
EG13433	NQLHERWQEEKAGH_____	0	0
EG13433	RPASGSPYWLKTVLRQELGFD	0	1
EG13433	RQELMDSARWKAISTRNLNQLH	0	0
EG13433	SVFSSLIRENKLDAMPAHVI	0	0
EG13433	VSVLDNLSPIKAERVTRLYHK	0	0
EG13723	AIEIPRLGLAK_____	0	0
EG13723	HTIALVGASDKPDRPSYRVMK	0	0
EG13723	KPDRPSYRVMKYLLDQGYHVI	0	0
EG13723	KVAGKTLLGQKGYGTLADVPE	0	0
EG13723	_____MKETDIAGILTS	0	0
EG13723	QGYHVIPVSPKVAGKTLLGQK	0	0
EG13723	VAQEAIAGAKTLWMQLGVIN	0	0
EG13723	VIPVSPKVAGKTLLGQKGYGT	0	0
EG14074	ARIEKMGVTIKCNNEVGNTLT	0	0
EG14074	AVCARVCPTEKLCQSGCTRAG	0	0
EG14074	DVAMDVASTLKVLGCQAVTCV	0	0
EG14074	EELDEFPASEKEFTSARELGV	0	0

EG14074	EGDKTVVYAVKTGKEAAEAIH	0	1
EG14074	FAAGDIVEGDKTVVYAVKTGK	0	0
EG14074	FIRSIYFRNFKGAAETIRENN	0	0
EG14074	GFTPVAVEGNKVTFKHVRLSG	0	0
EG14074	IYQPGTKTLGKVAIIGAGPAG	0	0
EG14074	KTVVYAVKTGKEAAEAIHHYL	0	0
EG14074	LSGELTMAADKIILAVGQHAR	0	0
EG14074	NQGYDVTIYEKEAHPGGWLRN	0	0
EG14074	QACPAQTDPGKFIRSIYFRNF	0	0
EG14074	TGMEIYQPGTKTLGKVAIIGA	0	0
EG14074	TPAFTSLLAIKEASRCLLCHD	0	0
EG14074	VAVEGNKVTFKHVRLSGELTM	0	0
EG14074	VGNTLTLEQLKAENRAVLTV	0	0
EG14074	VLDAEIIARIEKMGVTIKCNE	0	0
EG20151	AAGNYVFNERKMLDASHVVVF	0	1
EG20151	AAILDAEFLKEKGYTSLVVV	0	0
EG20151	ADGRFATPEAKAANDKGRKFF	0	1
EG20151	AKTAMDDVWLKLVVDQEDADG	0	1
EG20151	ATPEAKAANDKGRKFFADMHR	0	0
EG20151	DASHVVVFCAKTAMDDVWLKL	0	0
EG20151	DLHDDAEWMAKQVYLVGNFL	0	1
EG20151	EAKAANDKGRKFFADMHRKDL	0	0
EG20151	GRKFFADMHRKDLHDDAEWMA	0	1
EG20151	HFIVASTEKGKARVAKSAAGN	0	0
EG20151	ILDAEFLKEKGYTSLVVVPV	0	0
EG20151	ISVALKRHSTKAFDASKKLTP	0	0
EG20151	KLTPEQAEQIKTLLQYSPSST	0	0
EG20151	__MDIISVALKRHSTKAFDAS	0	1
EG20151	RHSTKAFDASKKLTPAEQI	0	1
EG20151	SVEDFNATLPKSRLPNITLT	0	0
EG50010	APPKKGEVLIKVTHTGVCHTD	0	0
EG50010	CGECEFCRSGKTNLCVAVRET	0	0
EG50010	EIVEIDVAPPKKGEVLIKVTH	0	1
EG50010	GRIIAIDTNPKKFDLARRFGA	0	0
EG50010	INPNDYDKPIKDVLLDINKWG	0	0
EG50010	IVEIDVAPPKKGEVLIKVTHT	0	1
EG50010	LAVVQGARQAKAGRIIAIDTN	0	1
EG50010	LCVAVRETQGKGLMPDGTTRF	0	0
EG50010	_____MKSRAAVAFAPG	0	0
EG50010	NDAFDLMHEGKSIRTVIRY__	0	1
EG50010	PFQLVTGRVWKGSAFGGVKGR	0	0
EG50010	PIKDVLLDINKWGIDHTFECI	0	0
EG50010	QLPGMVEDAMKGDIDLEPFVT	0	0
EG50010	RIIAIDTNPKKFDLARRFGAT	0	0
EG50010	TDCINPNDYDKPIKDVLLDIN	0	0
EG50010	TGIGAVHNTAKVQPGDSVAVF	0	0
EG50010	VEVGEGVTSVKPGDHVIPLYT	0	0
EG50010	VWKGSAFGGVKGRSQLPGMVE	0	0

EG50010	YTVVAEVSLAKINPEANHEHV	0	0
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Table S9. The prediction results of SVM_balance for the test dataset.

Protein Name	Peptide	Class label	Prediction result
EG10032	AAVKSGSELGKQAKDIMDAGK	1	0
EG10032	HAPSGRVYHVKNPPKVEGKD	1	1
EG10032	KSGSELGKQAKDIMDAGKLV	1	1
EG10032	RVYHVKNPPKVEGKDDVTGE	1	1
EG10241	DVVDAEFEEVKDKK_____	1	1
EG10241	VDAEFEEVKDKK_____	1	1
EG10420	ADAIFIEELRKADLYDKVSQA	1	0
EG10518	YRGPGLEEGMKIFQELKQTFG	1	0
EG10599	KATLEDLGQAKRVVINKDTT	1	0
EG10599	SVAREIELEDKFENMGAQMV	1	1
EG10599	VGKLIAEAMDKVGKEGVITVE	1	1
EG10758	IQGGGFEPGMKQKATKEPIKN	1	1
EG10789	TPSETAQLNLKKVLGFITDAG	1	0
EG10885	NKFPAIYGGKEAPLAIELDH	1	0
EG10906	ALETLAQRSGKSELEAFEVAL	1	1
EG10906	ANELSDAAENKGTAVKKREDV	1	1
EG11005	NGCTVRNVYIKEAFDTGVRYD	1	1
EG11073	NLQNYLETELKRDNPVLMGD	1	0
EG11137	VRDALEAAGLKADSAEVSMIP	1	1
EG11835	DDDEEEEEDEKQEDMMRLLRG	1	0
EG12316	FLAAIAKGEAKSPLLTPEKAI	1	1
EG13261	DLTAADGQTRKTFQEILALG	1	1
EG13261	NRSEDAEAVLKTIPQLDQDTR	1	0
EG13433	CDMILVCNNRKGAVSVLDNLS	1	0
EG13723	GYGTLADVPEKVDMVDVFRNS	1	0
EG14074	ALEPQRNTIKTQNYQTRDPQ	1	1
EG20151	HSTKAFDASKKLTPEQAEQIK	1	1
EG20151	SRAAVAFAPGKPLEIVEIDVA	1	1
EG50010	STEEGKARVAKSAAGNYVFNE	1	1
EG10518	AKLEPFLKQMKAIDDLVKGFE	0	0
EG10518	AKTGAVINVKKPQFVSPGQMG	0	0
EG10518	CDGPSALPLAKLEPFLKQMKA	0	0
EG10518	EEGMKIFQELKQTFGVKIITD	0	1
EG10518	FQELKQTFGVKIITDVHEPSQ	0	0
EG10518	GQMGNIVDKFKEGGNEKVILC	0	0
EG10518	ICEHYVTVTQKLGIPYVFKAS	0	1
EG10599	AKLAGGVAVIKVGAATEVEMK	0	1
EG10599	DREKLQERVAKLAGGVAVIKV	0	1
EG10599	DVKFGNDARVKMLRGVNVLAD	0	0
EG10599	EEATSDYDREKLQERVAKLAG	0	1
EG10599	EEPSVVANTVKGGDGNYGYNA	0	0
EG10599	EMLPVLEAVAKAGKPLIIAE	0	0

EG10599	ESPFILLADKKISNIREMLPV	0	1
EG10789	DKELPYMNFPEENPFLGWRA	0	0
EG10789	ELEQEIIALIKDKHMTADAAA	0	0
EG10789	EQEIIALIKDKHMTADAAAHE	0	1
EG10789	ERAADVVDIGKRLLRNILGLK	0	0
EG10789	EVERFLSGRAKASAQLETIKT	0	1
EG10789	GIAFGKALLLKEDEIVDRKK	0	0
EG11005	MVPMGGLLCMKDDSFDDVYTE	0	0
EG11005	NLKAMYSIAKKYDIPVVMDSA	0	0
EG11005	PAQALACELYKVAGIRAVEIG	0	0
EG11005	PFRIRVIEPVKRTTRAYREEA	0	0
EG13433	DPRPQAEIRAKDMSVFSSLIR	0	1
EG13433	FIDGMHEAGMKTTGKHFPGHG	0	0
EG50010	VEVGEGVTSVKPGDHVIPLYT	0	0
EG50010	VWKGSFAFGGVKGRSQLPGMVE	0	0
EG50010	YTVVAEVSLAKINPEANHEHV	0	1
