

Online Supporting Information S1. The positive dataset S_{Hyp}^+ and negative dataset S_{Hyp}^- contain 636 hydroxyproline peptide fragments and 2699 non-hydroxyproline peptide fragments, respectively. See the text of the paper for further explanation.

Positive dataset

UniProt ID	Site	Sequence
P08427	63	PGPMGPPGGMPGL
P02457	848	AGZVGA PGPKGAR
P02457	245	QGARGL PGTAGLP
Q93WP8	151	RKPLSP PSPKPAD
Q7M1I4	8	HYSYSS P P P P P V V
Q15848	76	DPGLIG PKGDIGE
P02457	464	RGARGE PG P A G L P
P02457	572	AGVMGF PG PK G A A
Q9BPB2	54	CPDYTD P C S H A H E
Q05707	1520	QGMPPM PG E K G E K
P05997	919	SAGRVG PG P A G A
P30754	429	PGKNGA PG E P G A H
P30754	416	LQGRAG PG G A R G E
P84698	21	ECCKGY P C V N K A C
Q24940	196	ETESSY P Y T A V E G
P02457	332	TGPAGP PG F P G A A
P01523	57	RDCCTP P K K C K D R
P30754	285	KGSSGP PG D V G A P
B4YSU8	51	GDSCNE P A G E L C C
P58782	13	PNAACH P C G C K V G
P23805	96	NGFVGE PG P K G D T
P02820	60	DHWLGA P A P Y P D P
P0C8S5	28	LPPNLR P K F K E @ @
P02457	692	RGANGA P G N D G A K
P85154	503	PGEFGL PG P A G P R
P50982	46	LTARRD P C C Y H P T
P30754	984	RGSQGP PG K D G Q P
P81755	63	WCCTAA P L T G R @ @
P02457	197	QGPPGE PG E P G A S
P0C1X1	70	CTYSCP P K R K P G R
Q9LYF6	29	QSEAPA P S P T S G S
Q9ZT16	34	PTATPP P A T P P P V
Q24940	109	ANNRAV P D K I D W R
Q25460	89	PTYKPK P S Y P P T Y
P15502	360	VPGAGI P G A A V P G
Q05707	1735	PGPPGS PG P R G P P
P30754	381	PGSDGR PG K D G R P
P02457	962	RGERGF P G L P G P S
P30754	966	SGPPGA PG P R G A R
Q7XAD0	55	RTPYKT P P P P T S S
P01522	55	PGSSCS P T S Y N C C
P0C1X1	69	MCTYSC P P K R K P G
P0CG45	15	KKHCPA P A C K Y K P
P01522	66	CCRSCN P Y T K R C Y
Q16665	564	DLEMLA P Y I P M D D

P02457	998	PGLAGP	PGEAGRE
P30754	603	RGENGL	PGPSGLA
P56633	49	STRCRI	PNQKCFQ
P0C1W5	70	LNRVCG	PMCCPAS
P15502	427	PGVGGV	PGVGGVP
P0C2W8	323	TGLPGP	PGERGGP
Q05707	1704	KGEKGN	PGVGTQG
P30754	339	SGAMGI	PGEKGPS
P0CG45	21	PACKYK	PCKKS@@
P02745	73	KGDQGE	PGPSGNP
P85065	14	TPGCTS	PGGGSNC
P85009	6	@GCCSD	PRCKHQC
P82439	6	@NYQYS	PPPPKK
P30754	816	KGDGGP	PGPSGDR
P30754	128	GPGPAG	PSGPIGP
P0C349	18	SSRECR	PQHCC@@
P23805	171	PGETGA	PGRAGVT
P0CH20	5	@@YGNF	PTCSETG
Q05707	1662	PGEPR	PGSPGAP
Q7XAD0	82	VLPPPS	PKTDPII
Q93WP8	49	PSPASS	PPSKEVS
P85154	902	HGNRGE	PGPAGSV
Q6PSU2	67	GRDPYS	PSQDPYS
P07550	395	GHQGTV	PSDNIDS
Q05707	1580	PGTPGV	PGITGSM
P02457	497	AGPKGP	PGERGSP
Q05707	1756	QGPSGQ	PGYCDPS
P02457	971	PGPSGE	PGKQGPS
P02457	1178	PGPPGP	PGPPSGG
Q05707	1656	RTVQGP	PGEPGRP
P15502	190	GAFAGI	PGVGPFG
Q7M1I4	20	VSSPPP	PPYYYYSP
P0C1N5	55	AVRDCC	PLPACPF
Q05707	1538	PGPQGI	PGGVGSP
P02457	704	KGDAGA	PGAPGNE
Q4ZJN1	64	PGHPGG	PGKDGIR
P08252	69	CPGGPT	PTPPTPP
P08427	57	KGDPGP	PGPMGPP
C3VVN6	55	ECQVDT	PGSSWGK
P29602	133	PPVMP	PPSPS@@
P58925	67	RSRQCK	PHRCCGR
Q9M0S4	32	PAPTRS	PLPSPAQ
P58913	57	KEACYA	PGTFCGI
P30754	708	QGEIGL	PGSPGQP
P02745	39	KGEAGR	PGRRGRP
P58923	10	GRDSRC	PPVCCMG
P01523	67	KDRQCK	PQRCCAG
P02457	440	TGAKGE	PGPAGVQ
P30754	216	AGENGH	PGMPGMD
Q02388	2167	AGPEGK	PGLQGPR
P29602	116	ATVSM	PPSSSPP
P60245	14	GSCRPF	PGCYNAL
P86289	60	PGPAGA	PGDKGEA

P00877	104	IAYVAYPIDLFEE
P29602	117	TVSMPPPSSSPPS
P30754	711	IGLPGSPGQPGLP
P02457	746	KGADGAPGKDGLR
P30754	375	AGLPGNPGSDGRP
P02747	99	PGMPGVPGPMGIP
Q4ZJN1	58	KGDAGEPGHPGGP
Q93WP8	50	SPASSPPSKEVSN
Q7Z096	65	LGGICKPSTSWIG
P30754	536	ATGPAGPTGSPGV
Q9ZT16	24	SALAQAPAPTPTA
P0C1W5	55	DCQVSTPGSKWGR
P02457	524	PGEAGLPGAKGLT
Q15848	91	VPGAEGPRGFPGI
P30754	291	PGDVGAPGHAGEA
P02457	659	PGNAGAPGPAGAR
P82439	8	YQYSPPPDKKKY
P30754	39	QGLRGEPGDSGPM
P30754	1013	RSGPPGPPGPPGP
P02457	581	KGAAGEPGKPGER
P0C8V5	65	TFCGIKPGGCCSA
P86289	39	KGVOGPPGPPQGR
P02457	986	SGERGPPGPMGPP
P30754	366	QGNQGTPGIAGLP
Q9SJY7	24	SCLAQAPAPAPTT
B2KPN7	64	YHAHPKPNFRTL
Q05707	1497	RGEIGLPGPPQPP
P82439	7	NYQYSPPPDKKK
Q25460	437	AKPSYPPSYKAKP
Q0VKG8	56	ERRDRPPSWIPK@
P30754	894	PGAAGPPGDRGER
P30754	306	RGSPGSPGPAGSP
P86289	84	RGSAGPPGATGFP
Q7XAD0	63	PPTSSSPTHQEIV
P29602	115	NATVSMPPSSSSP
Q7M1I4	17	PPVVSSPPPPYYY
Q7M1I4	19	VVSSPPPPYYYYS
P19999	67	PGKLGP PGSVGAP
Q25460	867	AKTSYPPAYKPTN
P85154	806	RGERGLPGVAGAV
P30754	945	KGWTGLPGLQLQ
P86289	107	AGPAGPPGPAGAR
P30754	162	DGLAGPPGPPGPI
P02747	93	NGPMGPPGMPGVP
Q9ZT16	28	QAPAPTPTATPPP
O82337	31	GAQSLAPAPPTS
D2Y171	62	EGPGRDPAPCCQH
Q93WP8	150	NRKPLSPSPKPA
Q9M0S4	24	SAIAQAPGPAPTR
Q93WP8	153	PLSPPSPKPADGQ
P86289	6	@GATGAPGIAGAP
P08252	74	TPTPPTPPGGDDL
P55963	7	GCCGSYPNAACHP

P0CG45	13	PPKKHC	PAPACKY
Q9ZT16	32	PTPTAT	PPPATPP
P86290	6	@GSNGE	PGSAGPP
P80762	8	MYLPPV	PPPPVVP
P12108	158	PGKPGP	PGHIQGV
P0C2W8	869	PGRDGS	PGPKGDR
P30754	432	NGAPGE	PGAHGEQ
P12111	2319	RGFPGY	PGPKGNP
P29602	127	PPSSVM	PPVMPP
P12111	2206	FGRRGP	PGAKGNK
P02457	179	AGPRGL	PGPPGAP
P02457	428	SGEPGA	PGNKGDT
P30754	423	PGARGE	PGKNGAP
P0CH13	14	NCDVFR	PYRCCSG
P85153	420	PGANGN	PGPAGPP
B2CS62	8	RVENKC	PHTVCCD
Q05707	1677	QGPPGT	PGFPGNA
P02457	1040	PGAPGA	PGAPGPV
Q4ZJN1	31	QGHSGI	PGNPGHN
P30754	648	QGQPGP	PGDAGPA
Q9SJY7	26	LAQAPA	PAPTTVT
P02457	593	RGAPGP	PGAVGAA
P02457	194	QGFQGP	PGEPGEP
Q3Y5Z3	39	GWMAGI	PGHPGHN
Q9LVC0	36	DAPAPS	PTSDASS
P30754	93	GGMPGM	PGPKGHR
Q9C5S0	26	GQAPTS	PPTATPA
P58916	7	CKGKGA	CTRLMY
P02457	1109	SGLQGP	PGPPGAP
P15502	347	VPGVGV	PGAGIPV
P02457	1013	PGAEGA	PGRDGAA
P14618	403	ELRRLA	PITSDPT
Q02388	2664	KGEMGE	PGVPGQS
P86289	30	QGPSGA	PGPKGVQ
D2Y171	50	DAADVK	PVARTNE
Q7M1I4	18	PVVSSP	PPPYYYY
Q9M0S4	36	RSPLPS	PAQPRT
P85154	176	IGSAGP	PGFPGAP
P30754	123	QGPDGG	PGPAGPS
A1X158	73	TAWKAP	PPAWTAW
P02457	992	PGPMGP	PGLAGPP
P30754	54	IGKRGP	PGPAGIA
P02457	776	KGEAGP	PGPAGPT
P02821	9	APGLGA	PAPYPDP
Q05707	1470	AGPPGG	PGLRGPK
P0C8V5	57	RDECFS	PGTFCGI
Q9SJY7	35	TTVTTP	PPTALPPV
P30754	645	QGIQQQ	PGPPGDA
P30754	243	PGPSGF	PGPRGMP
P02467	439	NGDAGR	PGEPGLM
Q05707	1659	QGPPGE	PGRPGSP
P02457	323	PGAAGP	PGPTGPA
P08427	30	DVCAGS	PGIPGAP

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P85886	55	RTCCSRPTCRMEY
Q05707	1532	KGDTGLPGPQGI P
P30754	714	PGSPGQ PGLPGPS
P85154	497	PGERGI PGEFGLP
Q05707	1665	PGRPGS PGAPGEQ
P02457	737	KGDRGD PGPKGAD
Q05707	1726	PSGESR PGSPGPP
Q7M1I4	12	SSPPPP PVVSSPP
Q9ZT16	38	PPPATP PPVATPP
P84900	54	ESPD RP GFSPFR
P30754	417	QGRAGP PGARGE P
P23805	195	SGARGP PGLKGDR
Q05707	1574	PGPIGI PGTPGV P
Q7Z096	38	RVKNRGP SFCKAD
P30754	888	MGQRGL PGAAGPP
P02457	335	AGPPGF PGAAGAK
P12111	2239	AGPAGP PGLIGE Q
Q9C5S0	33	PTATPA PPTPTTP
P58923	11	RDSRCP PVCCMGL
Q05707	1643	AILNQI PSHSSSI
Q941C7	63	KHDPGV PPSATGQ
Q9BPB2	49	QQKRLC PDYTDPC
P0C1X1	55	NCCGYN PMTICPP
Q9C5S0	27	QAPTSP PTATPAP
P85020	15	IQLRAC PCCPN@@
P05482	17	KDRRCK PLKCCA@
Q05707	1689	AGVPGT PGERGLT
O82337	33	QSLAPA PAPTSDG
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P85153	648	TGLQGL PGPPGTS
Q8LG54	26	LAQAPAS PTTTV
Q05707	1747	PGHLGV PGPOGPS
P02745	85	PGKVGYPGPSGPL
Q9ZT16	37	TPPPAT PPVATP
P30754	237	SGESGL PGPSGFP
P15502	286	AGVPGV PGAI PGI
P69746	5	@@CCGV PNAACHP
Q9UKV8	700	LEKDYQ PGITFIV
P30754	276	QGRPGA PGVKGSS
P80762	10	LPPVPP PPVPTF
P02457	536	TGSPGS PGPDGKT
P69765	49	RCCPGK PCCRIG@
P85154	479	PGFQGL PGPSGTA
P0C2W8	764	PGEVGP PGPPGPA
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P14618	408	APITSD PTEATAV
D2Y168	57	SSNKCS PGFPG@@
Q7XAD0	120	DYVASP PPPKPQD
P30754	723	PGPSGQ PGPSGPA
P58922	61	LTTCLAP SECCSE
P15502	415	VGVGGI PGVAGVP

P30754	915	QGPVGA	PGSQGPA
P01522	49	STRCKS	PGSSCSP
P52285	143	IKNDFT	PEEEEQI
P85154	410	AGARGE	PGNIGFP
Q7Z094	29	LSGICA	PSTNWIL
P02457	788	TGARGA	PGDRGEP
Q15848	71	KGEKGD	PGLIGPK
P15502	116	AGLGGV	PGVGGLG
P0C1X1	74	CPPKRK	PGRRND@
Q05707	1544	PGGVGS	PGRDGSP
P02457	296	MGPRGL	PGERGRP
P02457	911	AGRPGE	PGPAGPP
P19999	73	PGSVGA	PGSQGPK
P85153	12	VGPIGP	PGERGAP
P29602	121	PPSSSS	PPSSVMP
P0CH16	18	KSRACK	PSYCC@@
Q9LJD9	34	QTEAPA	PSPTSDA
P85012	8	YCCRPP	PCTLIC@
P05539	839	AAGRVG	PPGSNGN
P15502	342	VPGAGV	PGVGVPG
P02457	635	PGFQGL	PGPAGPP
P02457	545	DGKTGP	PGPAGQD
Q25460	649	AKPSYP	PTYKPKI
P30754	774	RGEDGP	PGVSGPT
P82439	9	QYSPPP	PKKKYY
P30754	855	PGKDGL	PGLAGRP
Q7Z094	11	CKADEK	PCEYHAD
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P02747	63	KGEPGI	PAIPGIR
P02457	560	PGPAGP	PGARGQA
Q05707	1517	LSIQGM	PGMPGEK
Q16665	402	ALTLLA	PAAGDTI
P58928	22	NPGTMC	PSCMCTN
P02457	383	PGADGQ	PGAKGAT
P02457	671	RGERGF	PGERGVQ
P02457	926	PGEKGS	PGADGPI
P30754	621	RGDMGS	PGERGSP
P30754	647	IQQQPG	PGDAGP
P30754	174	IGSTGS	PGFPGTP
Q7Z091	8	CKKDRK	PCTSYHAD
P0C8V9	55	AGNYCG	PCTVMKIC
P00057	79	YDYLLN	PKKYIPG
P55963	20	CCKDRP	PSYCGQ@
Q9LVC0	34	AVDAPA	PSPTSDA
P82439	10	YSPPPP	PKKKYY@
P58804	21	FKTCCG	PPGDWQC
P15502	580	GLGAGI	PGLGVGV
P08427	36	PGIPGA	PGNHGLP
Q7XAD0	58	YKTPPP	PTSSSPT
Q9BPB1	58	WQYCES	PTDCCSW
P58782	21	GCKVGR	PPYCDRP
Q7XAD0	119	HDYVAS	PPPKPQ
Q9SJY7	28	QAPAPA	PTTVTTP

P30754	72	DGRDGE	PGPRGGI
P02457	1112	QGPPGP	PGAPGEQ
P02457	518	PGEAGR	PGEAGLP
P58928	17	TCCGYN	PGTMCPS
P86289	12	PGIAGA	PGFPGAR
P02457	653	PGEQGV	PGNAGAP
P80762	6	@NMYLP	PVPPPPV
P30754	525	VGPRGM	PGERGAT
P30754	161	VDGLAG	PGPPGP
Q05707	1577	IGIPGT	PGVPGIT
Q7XAD0	80	DSVLPP	PSPKTD
P02457	887	IGLPGP	PGPAGKZ
Q9SJY7	34	PTTVTP	PPTALPP
P23805	153	PGIQGF	PGPSGLK
Q25460	92	KPKPSY	PPTYKSK
P30754	1014	SGPPGP	PGPPGPP
Q02388	2185	VGGHGD	PGPPGAP
P58841	11	DCLVCI	PCCPN@@
Q7M1I4	10	SYSSPP	PPVVS
P84349	60	YQWLGA	PVPYPDP
P60513	6	@DDCIK	PYGFCSL
P30754	24	RGPPGP	PGSPGQQ
P30754	273	TGEQGR	PGAPGVK
P30754	513	GGERGA	PGDRGNV
Q25460	175	SSYKAK	PSYPPTY
P02457	728	RGAAGL	PGAKGDR
P0C2W8	767	VGPPGP	PGPAGEK
P86289	54	TGPIGP	PGPAGAP
Q25460	595	PSYKAK	PPTYSTY
P05539	1076	LQGLPG	PGPSGD
P0C7W7	6	@@IIGA	PCRRCYH
P0C8W0	68	CETDTG	PCCCKPN
Q4ZJN1	151	LGPKGL	PGPMGPI
P39056	9	INGQGA	PAPYPDP
P19999	61	RGLQGP	PGKLGPP
Q05707	1674	PGEQGP	PGTPGFP
P83184	5	@@YAEV	PSPAAQA
P0C8W0	53	EKRKCD	PTDGCQT
P84698	7	DCPTRC	P TTCANG
Q05707	1680	PGTPGF	PGNAGVP
P02457	278	AGPKGE	PGSPGEN
P0C2W8	290	AGAKGE	PGPIGIQ
P85011	6	@GCCSD	PRCRYRC
P02457	362	QGSRGE	PGPPGPA
P85154	284	SGSKGE	PGSAGPQ
P12111	2316	KGERGF	PGYPGPK
P30754	849	PGQEGA	PGKDGLP
P02457	935	DGPIGA	PGTPGPQ
P56529	52	LLERRH	PPCCMYG
P02457	377	AGPAGN	PGADGQP
P30754	249	PGPRGM	PGTAGSP
Q25460	159	PKPSYP	PSYKTKK
P02745	45	PGRGR	PGLKGEQ

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P30754	792	QGERGM P GMVGLR
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Q93WP8	45	NLPPPS P ASSPPS
Q4ZJN1	34	SGIPGN P GHNGLP
P56529	53	LERRHP P CCTMYGR
P85020	5	@@GCCS P WNCIQL
P30754	990	PGKDGQ P GPSSRV
P05539	1133	ETGPAG P PGNPGP
P85016	10	PPQWCG P DCTSPC
P30754	540	AGPTGS P GVAGAK
P02457	1007	AGREGA P GAEGAP
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Q941C7	64	HDPGV P SATGQR
P23805	111	RGPPGM P GPAGRE
P30754	503	ATGPGS P AGPGGE
P02457	1037	AGPPGA P GAPGAP
P30754	1017	PGPPGP P PGPGNS
P30754	180	PGFPGT P GSKGDR
P69747	55	RGCCSD P RCNYDH
P86289	90	PGATGF P GAAGRG
P23805	147	KGGVGA P GIQGF
P23805	108	TGPRGP P GMGPA
P08252	67	SQCPGG P TPTPT
P12111	2100	KGSRGF P GEKGEV
P02457	215	RGPAG P PGKNGDD
P86290	12	PGSAG P PGPAGLR
P58782	22	CKVGR P PYCDRPS
P30754	717	PGQPGL P GPSSQP
P30754	207	VGLSGQ P GVAGEN
P30754	815	MKGDGG P PGPSGD
P02457	503	PGERGS P GAVGPK
P08427	67	GPPGGM P GPLPGRD
P30754	551	AKGQGG P PGPAGL
P30754	150	DGKSGL P PGLRGVD
P58843	5	@@DQSC P WCGFTC
P58914	7	CKPPGS P PCRVSSY
Q05707	1741	PGPRGP P GHLGVP
P56710	6	@SKCFS P GTFCGI
Q6PSU2	74	SQDPYS P SQDPDR
P30754	53	PIGKRG P PGPAGI
P01523	56	RRDCCT P PKKCKD
P30754	861	PGLAGR P GERGEP
O82337	35	LAPAPA P TSDGTS
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P85154	599	DGARGA P GAVGAP
P08427	42	PGNHGL P GRDGRD
Q25460	115	PTYKAK P SYPSY
P0C2W8	1001	NGLPGP P PGPPGPR
Q4ZJN1	76	RGEKGE P GADGRV
P85154	731	TGPPGP P GGAAGKE
P30754	177	TGSPGF P GTGSK
P02457	182	RGLPGP P GAPGPQ

Q25460	866	KAKTSYPPAYKPT
P30754	228	DGANGEPGASGES
P85016	5	@@GCCPPQWCGPD
P02747	54	DGYDGLPGPKGEP
Q8LG54	28	QAPAPSPTTTTVTP
P30754	327	PGSRGLPGMTGAS
Q2I2Q5	58	RDECCEPQWCDGA
P28880	55	CRSSGSPCGVTSI
Q9U3Z3	53	WGGCGHPCRHPGK
P02457	185	PGPPGAPGPGQGFQ
Q0VTT8	52	KRFEPVPPGFPTF
P85154	824	LGIAGPPGARGPP
P08427	33	AGSPGIPGAPGNH
P02747	81	KGEPGLPGHPGKN
P02457	719	PGLEGMPPERGAA
Q93WP8	43	GANLPPSPASSP
P0C8W0	93	CSCSQPSDCPV@
P30754	1019	PPGPPGPGNSDY
P02457	269	DGAKGQPGPAGPK
P85017	11	RPICTCPCCIGP@
P02457	236	PGQRGPPGPQGAR
P85154	605	PGAVGAPGPAGAT
Q8LG54	36	TTVTPPPVPATPPP
P56529	64	GRCRRYPGCSSAS
P0C1X1	61	PMTICPPCMCTYS
P02457	287	PGENGAPGQMGRP
P80762	9	YLPPVPPPPVVPT
A6YR20	82	TAAWWCPGTKWD@
P02457	707	AGAPGAPGNEGPP
P05483	7	CKSPGTPCSRGMR
P0C8S5	10	IYDAKPPFSCAGL
P80760	11	PPVEKPPVYKPPV
P02457	533	KGLTGSPGSPGPD
Q15848	95	EGPRGFPGIQGRK
Q05707	1550	PGRDGSPGQRGLP
P02457	875	AGRVGPPGPSGNI
P0CG45	8	PPCCTPPKKHCPA
P30754	1020	PGPPGPPGNSDYG
P30754	773	ERGEDGPPGVSGP
P0C8V9	67	CCGFCSPPFSKICM
P30754	303	AGKRGSPGSPGPA
P30754	663	KGDIGFPPERGTR
Q3Y5Z3	86	ITGIEGPRGFPGT
P02457	317	RGNDGAPGAAGPP
Q7Z092	11	CKANGKPPCSYHAD
P15502	283	VGGAGVPGVPGAI
Q4ZJN1	160	MGPIGKPPGPRGEA
P30754	165	AGPPGPPGPIGST
Q05707	1686	PGNAGVPGTPGER
P30754	27	PGPPGSPGQQGYQ
P08252	72	GPTPTPTTPPGGG
P02457	1148	DGLNGLPGPIGPP
Q05707	1467	LGPAGPPGPGPLR

P80760	6	@NYDKP	PVEKPPV
P00877	151	VKTFVG	PPHGIQV
P02745	97	LGARGI	PGIKGTK
P30754	21	IGPRGP	PGPPGSP
P02457	230	AGKPGR	PGQRGPP
Q3Y5Z3	42	AGIPGH	PGHNGTP
Q7XAD0	79	HDSVLP	PPSPKTD
P0C8S5	24	GGCVLP	PNLRPKF
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Negative dataset

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