



NetCTL-1.2 Server - prediction results

Technical University of Denmark

NetCTL-1.2 predictions using MHC supertype A1. Threshold 0.750000

0.2042	1	ID	NP_705927.1	pep	PISPIETVVP	aff	0.0476	aff_rescale	0.2022	cle	0.0976	tap	-0.2530	COMB
0.4404	2	ID	NP_705927.1	pep	ISPIETVPPV	aff	0.0671	aff_rescale	0.2847	cle	0.9651	tap	0.2180	COMB
0.3901	3	ID	NP_705927.1	pep	SPIETVPPVK	aff	0.0540	aff_rescale	0.2292	cle	0.9755	tap	0.2910	COMB
0.4466	4	ID	NP_705927.1	pep	PIETVPPVKL	aff	0.0646	aff_rescale	0.2744	cle	0.9773	tap	0.5130	COMB
0.3258	5	ID	NP_705927.1	pep	IETVPPVKLK	aff	0.0500	aff_rescale	0.2122	cle	0.7001	tap	0.1710	COMB
0.2736	6	ID	NP_705927.1	pep	ETVPPVKLKP	aff	0.0592	aff_rescale	0.2515	cle	0.1583	tap	-0.0340	COMB
0.1503	7	ID	NP_705927.1	pep	TVPVKLKPG	aff	0.0515	aff_rescale	0.2188	cle	0.0302	tap	-1.4600	COMB
0.3106	8	ID	NP_705927.1	pep	VPVKLKPGM	aff	0.0499	aff_rescale	0.2118	cle	0.6083	tap	0.1500	COMB
0.1028	9	ID	NP_705927.1	pep	PVKLKPGMD	aff	0.0481	aff_rescale	0.2043	cle	0.0270	tap	-2.1120	COMB
0.1617	10	ID	NP_705927.1	pep	VKLKPGMDG	aff	0.0537	aff_rescale	0.2279	cle	0.0289	tap	-1.4110	COMB
0.2506	11	ID	NP_705927.1	pep	KLKPGMDGP	aff	0.0538	aff_rescale	0.2284	cle	0.0561	tap	0.2760	COMB
0.3022	12	ID	NP_705927.1	pep	LKPGMDGPK	aff	0.0592	aff_rescale	0.2515	cle	0.1366	tap	0.6040	COMB
0.3453	13	ID	NP_705927.1	pep	KPGMDGPKV	aff	0.0507	aff_rescale	0.2154	cle	0.8654	tap	0.0020	COMB
0.2943	14	ID	NP_705927.1	pep	PGMDGPKVK	aff	0.0437	aff_rescale	0.1856	cle	0.7636	tap	-0.1160	COMB
0.2604	15	ID	NP_705927.1	pep	GMDGPKVKQ	aff	0.0550	aff_rescale	0.2334	cle	0.3412	tap	-0.4840	COMB
0.3175	16	ID	NP_705927.1	pep	MDGPKVKQW	aff	0.0414	aff_rescale	0.1760	cle	0.7999	tap	0.4310	COMB
0.2007	17	ID	NP_705927.1	pep	DGPKVKQWP	aff	0.0518	aff_rescale	0.2198	cle	0.0250	tap	-0.4570	COMB
0.3595	18	ID	NP_705927.1	pep	GPKVKQWPL	aff	0.0471	aff_rescale	0.1998	cle	0.9545	tap	0.3300	COMB
0.1661	19	ID	NP_705927.1	pep	PKVKQWPLT	aff	0.0508	aff_rescale	0.2155	cle	0.0332	tap	-1.0880	COMB
0.1667	20	ID	NP_705927.1	pep	KVKQWPLTE	aff	0.0555	aff_rescale	0.2355	cle	0.0303	tap	-1.4670	COMB
0.1587	21	ID	NP_705927.1	pep	VKQWPLTEE	aff	0.0524	aff_rescale	0.2225	cle	0.0365	tap	-1.3850	COMB
0.4198	22	ID	NP_705927.1	pep	KQWPLTEEK	aff	0.0584	aff_rescale	0.2481	cle	0.8562	tap	0.8660	COMB
0.2914	23	ID	NP_705927.1	pep	QWPLTEEKI	aff	0.0523	aff_rescale	0.2222	cle	0.1682	tap	0.8800	COMB
0.2868	24	ID	NP_705927.1	pep	WPLTEEKIK	aff	0.0512	aff_rescale	0.2174	cle	0.4282	tap	0.1020	COMB
0.1967	25	ID	NP_705927.1	pep	PLTEEKIKA	aff	0.0527	aff_rescale	0.2239	cle	0.1812	tap	-1.0880	COMB
0.4765	26	ID	NP_705927.1	pep	LTEEKIKAL	aff	0.0895	aff_rescale	0.3802	cle	0.4258	tap	0.6480	COMB
0.4192	27	ID	NP_705927.1	pep	TEEKIKALV	aff	0.0675	aff_rescale	0.2864	cle	0.8645	tap	0.0620	COMB
0.0865	28	ID	NP_705927.1	pep	EEKIKALVE	aff	0.0418	aff_rescale	0.1775	cle	0.0258	tap	-1.8970	COMB
0.4028	29	ID	NP_705927.1	pep	EKIKALVEI	aff	0.0624	aff_rescale	0.2649	cle	0.8257	tap	0.2820	COMB
0.2341	30	ID	NP_705927.1	pep	KIKALVEIC	aff	0.0533	aff_rescale	0.2264	cle	0.0243	tap	0.0810	COMB
0.2081	31	ID	NP_705927.1	pep	IKALVEICT	aff	0.0529	aff_rescale	0.2246	cle	0.0612	tap	-0.5150	COMB
0.1747	32	ID	NP_705927.1	pep	KALVEICTE	aff	0.0559	aff_rescale	0.2375	cle	0.0407	tap	-1.3790	COMB
	33	ID	NP_705927.1	pep	ALVEICTEM	aff	0.0652	aff_rescale	0.2768	cle	0.9751	tap	0.6470	COMB

0.4554													
34	ID	NP_705927.1	pep	LVEICTEME	aff	0.0700	aff_rescale	0.2974	cle	0.0285	tap	-1.4130	COMB
0.2310													
35	ID	NP_705927.1	pep	VEICTEMEK	aff	0.0590	aff_rescale	0.2506	cle	0.5087	tap	0.5080	COMB
0.3523													
36	ID	NP_705927.1	pep	EICTEMEKE	aff	0.0617	aff_rescale	0.2621	cle	0.0228	tap	-1.5850	COMB
0.1862													
37	ID	NP_705927.1	pep	ICTEMEKEG	aff	0.0509	aff_rescale	0.2160	cle	0.0349	tap	-1.5550	COMB
0.1435													
38	ID	NP_705927.1	pep	CTEMEKEGK	aff	0.1000	aff_rescale	0.4247	cle	0.0485	tap	0.2670	COMB
0.4453													
39	ID	NP_705927.1	pep	TEMEKEGKI	aff	0.0580	aff_rescale	0.2462	cle	0.5459	tap	0.4360	COMB
0.3499													
40	ID	NP_705927.1	pep	EMEKEGKIS	aff	0.0572	aff_rescale	0.2430	cle	0.0341	tap	-2.4620	COMB
0.1250													
41	ID	NP_705927.1	pep	MEKEGKISK	aff	0.0532	aff_rescale	0.2257	cle	0.9471	tap	0.2070	COMB
0.3781													
42	ID	NP_705927.1	pep	EKEGKISKI	aff	0.0549	aff_rescale	0.2333	cle	0.5286	tap	0.2720	COMB
0.3262													
43	ID	NP_705927.1	pep	KEGKISKIG	aff	0.0519	aff_rescale	0.2204	cle	0.0432	tap	-1.7540	COMB
0.1392													
44	ID	NP_705927.1	pep	EGKISKIGP	aff	0.0442	aff_rescale	0.1878	cle	0.0283	tap	-0.2670	COMB
0.1787													
45	ID	NP_705927.1	pep	GKISKIGPE	aff	0.0512	aff_rescale	0.2176	cle	0.0238	tap	-1.7930	COMB
0.1315													
46	ID	NP_705927.1	pep	KISKIGPEN	aff	0.0627	aff_rescale	0.2663	cle	0.0263	tap	-1.1140	COMB
0.2145													
47	ID	NP_705927.1	pep	ISKIGPENP	aff	0.0476	aff_rescale	0.2019	cle	0.0315	tap	0.2670	COMB
0.2200													
48	ID	NP_705927.1	pep	SKIGPENPY	aff	0.0579	aff_rescale	0.2460	cle	0.9392	tap	3.1050	COMB
0.5421													
49	ID	NP_705927.1	pep	KIGPENPYN	aff	0.0534	aff_rescale	0.2268	cle	0.0231	tap	-1.1890	COMB
0.1708													
50	ID	NP_705927.1	pep	IGPENPYNT	aff	0.0484	aff_rescale	0.2054	cle	0.0260	tap	-0.8630	COMB
0.1662													
51	ID	NP_705927.1	pep	GPENPYNTP	aff	0.0499	aff_rescale	0.2119	cle	0.2832	tap	-0.5140	COMB
0.2287													
52	ID	NP_705927.1	pep	PENPYNTPV	aff	0.0534	aff_rescale	0.2267	cle	0.9201	tap	-0.4250	COMB
0.3434													
53	ID	NP_705927.1	pep	ENPYNTPVF	aff	0.0427	aff_rescale	0.1814	cle	0.8009	tap	2.0180	COMB
0.4024													
54	ID	NP_705927.1	pep	NPYNTPVFA	aff	0.0504	aff_rescale	0.2139	cle	0.8447	tap	-0.7830	COMB
0.3015													
55	ID	NP_705927.1	pep	PYNTPVFAI	aff	0.0470	aff_rescale	0.1997	cle	0.7492	tap	0.3660	COMB
0.3304													
56	ID	NP_705927.1	pep	YNTPVFAIK	aff	0.0681	aff_rescale	0.2891	cle	0.9373	tap	0.1110	COMB
0.4352													
57	ID	NP_705927.1	pep	NTPVFAIKK	aff	0.0948	aff_rescale	0.4027	cle	0.8731	tap	0.4130	COMB
0.5543													
58	ID	NP_705927.1	pep	TPVFAIKKK	aff	0.0500	aff_rescale	0.2123	cle	0.9582	tap	0.3580	COMB
0.3739													
59	ID	NP_705927.1	pep	PVFAIKKKD	aff	0.0462	aff_rescale	0.1961	cle	0.0415	tap	-2.0350	COMB
0.1005													
60	ID	NP_705927.1	pep	VFAIKKKDS	aff	0.0455	aff_rescale	0.1934	cle	0.0225	tap	-2.1440	COMB
0.0896													
61	ID	NP_705927.1	pep	FAIKKKDST	aff	0.0614	aff_rescale	0.2607	cle	0.0242	tap	-0.6320	COMB
0.2327													
62	ID	NP_705927.1	pep	AIKKKDSTK	aff	0.0590	aff_rescale	0.2506	cle	0.7249	tap	0.6300	COMB
0.3908													
63	ID	NP_705927.1	pep	IKKKDSTKW	aff	0.0434	aff_rescale	0.1842	cle	0.8621	tap	1.1090	COMB
0.3689													
64	ID	NP_705927.1	pep	KKKDSTKWR	aff	0.0428	aff_rescale	0.1816	cle	0.3708	tap	1.6480	COMB
0.3197													
65	ID	NP_705927.1	pep	KKDSTKWRK	aff	0.0709	aff_rescale	0.3012	cle	0.5330	tap	0.5460	COMB
0.4085													
66	ID	NP_705927.1	pep	KDSTKWRKL	aff	0.0518	aff_rescale	0.2201	cle	0.3642	tap	0.8510	COMB
0.3173													
67	ID	NP_705927.1	pep	DSTKWRKLV	aff	0.0702	aff_rescale	0.2981	cle	0.4869	tap	0.1040	COMB
0.3764													
68	ID	NP_705927.1	pep	STKWRKLV	aff	0.0628	aff_rescale	0.2666	cle	0.0363	tap	-1.9250	COMB
0.1758													
69	ID	NP_705927.1	pep	TKWRKLVDF	aff	0.0535	aff_rescale	0.2273	cle	0.6957	tap	2.7890	COMB
0.4711													
70	ID	NP_705927.1	pep	KWRKLVDFR	aff	0.0484	aff_rescale	0.2053	cle	0.0795	tap	1.8970	COMB
0.3121													
71	ID	NP_705927.1	pep	WRKLVDFRE	aff	0.0505	aff_rescale	0.2144	cle	0.0339	tap	-1.2870	COMB
0.1552													
72	ID	NP_705927.1	pep	RKLVDFREL	aff	0.0520	aff_rescale	0.2207	cle	0.7686	tap	1.2100	COMB
0.3965													
73	ID	NP_705927.1	pep	KLVDFRELN	aff	0.0626	aff_rescale	0.2656	cle	0.1827	tap	-0.9790	COMB
0.2441													

0.5156	74	ID	NP_705927.1	pep	LVDFRELNK	aff	0.0909	aff_rescale	0.3859	cle	0.6873	tap	0.5320	COMB
0.3306	75	ID	NP_705927.1	pep	VDFRELNKR	aff	0.0513	aff_rescale	0.2176	cle	0.2869	tap	1.3990	COMB
0.1643	76	ID	NP_705927.1	pep	DFRELNKRT	aff	0.0466	aff_rescale	0.1979	cle	0.0288	tap	-0.7580	COMB
0.2078	77	ID	NP_705927.1	pep	FRELNKRTQ	aff	0.0500	aff_rescale	0.2122	cle	0.0627	tap	-0.2770	COMB
0.1403	78	ID	NP_705927.1	pep	RELNKRTQD	aff	0.0522	aff_rescale	0.2216	cle	0.0559	tap	-1.7940	COMB
0.5419	79	ID	NP_705927.1	pep	ELNKRTQDF	aff	0.0685	aff_rescale	0.2907	cle	0.8788	tap	2.3880	COMB
0.2523	80	ID	NP_705927.1	pep	LNKRTQDFW	aff	0.0445	aff_rescale	0.1890	cle	0.2328	tap	0.5670	COMB
0.1383	81	ID	NP_705927.1	pep	NKRTQDFWE	aff	0.0480	aff_rescale	0.2040	cle	0.0230	tap	-1.3820	COMB
0.4487	82	ID	NP_705927.1	pep	KRTQDFWEV	aff	0.0625	aff_rescale	0.2655	cle	0.9765	tap	0.7330	COMB
0.4337	83	ID	NP_705927.1	pep	RTQDFWEVQ	aff	0.0970	aff_rescale	0.4120	cle	0.0827	tap	0.1860	COMB
0.5015	84	ID	NP_705927.1	pep	TQDFWEVQL	aff	0.0724	aff_rescale	0.3073	cle	0.9730	tap	0.9650	COMB
0.1523	85	ID	NP_705927.1	pep	QDFWEVQLG	aff	0.0531	aff_rescale	0.2253	cle	0.0354	tap	-1.5680	COMB
0.3766	86	ID	NP_705927.1	pep	DFWEVQLGI	aff	0.0546	aff_rescale	0.2320	cle	0.7941	tap	0.5090	COMB
0.2347	87	ID	NP_705927.1	pep	FWEVQLGIP	aff	0.0548	aff_rescale	0.2326	cle	0.0229	tap	-0.0270	COMB
0.1958	88	ID	NP_705927.1	pep	WEVQLGIPH	aff	0.0535	aff_rescale	0.2273	cle	0.0313	tap	-0.7250	COMB
0.2569	89	ID	NP_705927.1	pep	EVQLGIPHP	aff	0.0554	aff_rescale	0.2353	cle	0.1602	tap	-0.0490	COMB
0.2921	90	ID	NP_705927.1	pep	VQLGIPHPA	aff	0.0520	aff_rescale	0.2207	cle	0.6584	tap	-0.5470	COMB
0.1661	91	ID	NP_705927.1	pep	QLGIPHPAG	aff	0.0524	aff_rescale	0.2224	cle	0.1172	tap	-1.4790	COMB
0.3555	92	ID	NP_705927.1	pep	LGIPHPAGL	aff	0.0499	aff_rescale	0.2120	cle	0.7193	tap	0.7120	COMB
0.3734	93	ID	NP_705927.1	pep	GIPHPAGLK	aff	0.0561	aff_rescale	0.2383	cle	0.7516	tap	0.4470	COMB
0.4013	94	ID	NP_705927.1	pep	IPHPAGLKK	aff	0.0583	aff_rescale	0.2475	cle	0.9640	tap	0.1830	COMB
0.3169	95	ID	NP_705927.1	pep	PHPAGLKKK	aff	0.0458	aff_rescale	0.1945	cle	0.8207	tap	-0.0140	COMB
0.3490	96	ID	NP_705927.1	pep	HPAGLKKKK	aff	0.0545	aff_rescale	0.2316	cle	0.8028	tap	-0.0590	COMB
0.0588	97	ID	NP_705927.1	pep	PAGLKKKKK	aff	0.0466	aff_rescale	0.1977	cle	0.0268	tap	-2.8590	COMB
0.2463	98	ID	NP_705927.1	pep	AGLKKKKSV	aff	0.0515	aff_rescale	0.2188	cle	0.1615	tap	0.0650	COMB
0.1828	99	ID	NP_705927.1	pep	GLKKKKSVT	aff	0.0484	aff_rescale	0.2056	cle	0.0857	tap	-0.7130	COMB
0.3795	100	ID	NP_705927.1	pep	LKKKKSVTV	aff	0.0560	aff_rescale	0.2379	cle	0.8322	tap	0.3360	COMB
0.4105	101	ID	NP_705927.1	pep	KKKKSVTVL	aff	0.0506	aff_rescale	0.2149	cle	0.9184	tap	1.1570	COMB
0.1599	102	ID	NP_705927.1	pep	KKKSVTVLD	aff	0.0545	aff_rescale	0.2313	cle	0.0438	tap	-1.5600	COMB
0.4375	103	ID	NP_705927.1	pep	KKSVTVLDV	aff	0.0695	aff_rescale	0.2949	cle	0.7607	tap	0.5680	COMB
0.1947	104	ID	NP_705927.1	pep	KSVTVLDVG	aff	0.0575	aff_rescale	0.2440	cle	0.0273	tap	-1.0690	COMB
0.1714	105	ID	NP_705927.1	pep	SVTVLDVGD	aff	0.0578	aff_rescale	0.2454	cle	0.0259	tap	-1.5590	COMB
0.2734	106	ID	NP_705927.1	pep	VTVLDVGD	aff	0.0628	aff_rescale	0.2664	cle	0.1673	tap	-0.3630	COMB
0.9893	107	ID	NP_705927.1	pep	TVLDVGD	aff	0.1640	aff_rescale	0.6962	cle	0.9187	tap	3.1070	COMB
0.8208	108	ID	NP_705927.1	pep	VLDVGD	aff	0.1304	aff_rescale	0.5536	cle	0.9643	tap	2.4500	COMB
0.0868	109	ID	NP_705927.1	pep	LDVGD	aff	0.0481	aff_rescale	0.2042	cle	0.0254	tap	-2.4240	COMB
0.4212	110	ID	NP_705927.1	pep	DVGD	aff	0.0669	aff_rescale	0.2839	cle	0.9076	tap	0.0220	COMB
0.2516	111	ID	NP_705927.1	pep	VGD	aff	0.0631	aff_rescale	0.2679	cle	0.0297	tap	-0.4150	COMB
0.3862	112	ID	NP_705927.1	pep	GDAY	aff	0.0523	aff_rescale	0.2221	cle	0.9166	tap	0.5320	COMB
0.1322	113	ID	NP_705927.1	pep	DAY	aff	0.0526	aff_rescale	0.2232	cle	0.0337	tap	-1.9220	COMB
	114	ID	NP_705927.1	pep	AY	aff	0.0486	aff_rescale	0.2063	cle	0.0522	tap	-1.1840	COMB

0.1549													
115	ID	NP_705927.1	pep	YFSVPLDED	aff	0.0597	aff_rescale	0.2535	cle	0.0277	tap	-1.5180	COMB
0.1818													
116	ID	NP_705927.1	pep	FVSVPLDEDF	aff	0.1007	aff_rescale	0.4275	cle	0.1857	tap	2.5060	COMB
0.5807													
117	ID	NP_705927.1	pep	SVPLDEDFR	aff	0.0550	aff_rescale	0.2337	cle	0.0868	tap	1.5560	COMB
0.3245													
118	ID	NP_705927.1	pep	VPLDEDFRK	aff	0.0564	aff_rescale	0.2395	cle	0.9368	tap	0.2940	COMB
0.3947													
119	ID	NP_705927.1	pep	PLDEDFRKY	aff	0.2161	aff_rescale	0.9177	cle	0.9705	tap	2.3350	COMB
1.1800	<-E												
120	ID	NP_705927.1	pep	LDEDFRKYT	aff	0.0467	aff_rescale	0.1982	cle	0.0566	tap	-1.2980	COMB
0.1418													
121	ID	NP_705927.1	pep	DEDFRKYTA	aff	0.0502	aff_rescale	0.2130	cle	0.2793	tap	-1.1150	COMB
0.1991													
122	ID	NP_705927.1	pep	EDFRKYTAF	aff	0.0454	aff_rescale	0.1926	cle	0.6985	tap	1.9960	COMB
0.3972													
123	ID	NP_705927.1	pep	DFRKYTAFT	aff	0.0499	aff_rescale	0.2118	cle	0.0278	tap	-0.9720	COMB
0.1674													
124	ID	NP_705927.1	pep	FRKYTAFTI	aff	0.0563	aff_rescale	0.2391	cle	0.6340	tap	0.5050	COMB
0.3594													
125	ID	NP_705927.1	pep	RKYTAFTIP	aff	0.0583	aff_rescale	0.2477	cle	0.1465	tap	0.4800	COMB
0.2937													
126	ID	NP_705927.1	pep	KYTAFTIPS	aff	0.0523	aff_rescale	0.2222	cle	0.1411	tap	-1.7780	COMB
0.1544													
127	ID	NP_705927.1	pep	YTAFTIPSI	aff	0.1027	aff_rescale	0.4362	cle	0.8396	tap	0.6110	COMB
0.5927													
128	ID	NP_705927.1	pep	TAFTIPSIN	aff	0.0599	aff_rescale	0.2544	cle	0.0489	tap	-1.2240	COMB
0.2005													
129	ID	NP_705927.1	pep	AFTIPSINN	aff	0.0463	aff_rescale	0.1968	cle	0.0703	tap	-1.0300	COMB
0.1558													
130	ID	NP_705927.1	pep	FTIPSINNE	aff	0.0726	aff_rescale	0.3080	cle	0.0251	tap	-1.4590	COMB
0.2389													
131	ID	NP_705927.1	pep	TIPSINNET	aff	0.0716	aff_rescale	0.3040	cle	0.0332	tap	-0.7180	COMB
0.2731													
132	ID	NP_705927.1	pep	IPSINNETP	aff	0.0524	aff_rescale	0.2225	cle	0.1760	tap	-0.1710	COMB
0.2403													
133	ID	NP_705927.1	pep	PSINNETPG	aff	0.0527	aff_rescale	0.2236	cle	0.0277	tap	-1.7570	COMB
0.1399													
134	ID	NP_705927.1	pep	SINNETPGI	aff	0.0633	aff_rescale	0.2690	cle	0.5149	tap	0.4770	COMB
0.3700													
135	ID	NP_705927.1	pep	INNETPGIR	aff	0.0506	aff_rescale	0.2149	cle	0.0653	tap	1.3150	COMB
0.2905													
136	ID	NP_705927.1	pep	NNETPGIRY	aff	0.1157	aff_rescale	0.4913	cle	0.7881	tap	2.6740	COMB
0.7432													
137	ID	NP_705927.1	pep	NETPGIRYQ	aff	0.0447	aff_rescale	0.1897	cle	0.1412	tap	-0.0990	COMB
0.2060													
138	ID	NP_705927.1	pep	ETPGIRYQY	aff	0.1729	aff_rescale	0.7342	cle	0.9751	tap	2.8250	COMB
1.0217	<-E												
139	ID	NP_705927.1	pep	TPGIRYQYN	aff	0.0504	aff_rescale	0.2141	cle	0.0665	tap	-1.9710	COMB
0.1256													
140	ID	NP_705927.1	pep	PGIRYQYNV	aff	0.0534	aff_rescale	0.2268	cle	0.3928	tap	-0.3530	COMB
0.2681													
141	ID	NP_705927.1	pep	GIRYQYNVL	aff	0.0477	aff_rescale	0.2025	cle	0.8575	tap	0.8080	COMB
0.3715													
142	ID	NP_705927.1	pep	IRYQYNVLP	aff	0.0592	aff_rescale	0.2514	cle	0.7673	tap	0.4910	COMB
0.3910													
143	ID	NP_705927.1	pep	RYQYNVLPQ	aff	0.0493	aff_rescale	0.2095	cle	0.0576	tap	0.3800	COMB
0.2371													
144	ID	NP_705927.1	pep	YQYNVLPQG	aff	0.0631	aff_rescale	0.2679	cle	0.1126	tap	-1.0210	COMB
0.2337													
145	ID	NP_705927.1	pep	QYNVLPQGW	aff	0.0428	aff_rescale	0.1818	cle	0.7922	tap	1.0160	COMB
0.3514													
146	ID	NP_705927.1	pep	YNVLPQGWK	aff	0.0616	aff_rescale	0.2613	cle	0.2524	tap	0.3210	COMB
0.3152													
147	ID	NP_705927.1	pep	NVLPQGWKG	aff	0.0574	aff_rescale	0.2439	cle	0.0863	tap	-1.2540	COMB
0.1942													
148	ID	NP_705927.1	pep	VLPQGWKGS	aff	0.0537	aff_rescale	0.2278	cle	0.0252	tap	-2.0380	COMB
0.1297													
149	ID	NP_705927.1	pep	LPQGWKGSP	aff	0.0526	aff_rescale	0.2234	cle	0.1903	tap	-0.1810	COMB
0.2429													
150	ID	NP_705927.1	pep	PQGWKGSPA	aff	0.0518	aff_rescale	0.2200	cle	0.0483	tap	-1.0550	COMB
0.1745													
151	ID	NP_705927.1	pep	QGWKGSPAIF	aff	0.0538	aff_rescale	0.2283	cle	0.8251	tap	0.3080	COMB
0.3675													
152	ID	NP_705927.1	pep	GWKGSPAIF	aff	0.0403	aff_rescale	0.1710	cle	0.7884	tap	2.5510	COMB
0.4168													
153	ID	NP_705927.1	pep	WKGSPAIFQ	aff	0.0563	aff_rescale	0.2391	cle	0.0234	tap	-0.2760	COMB
0.2288													
154	ID	NP_705927.1	pep	KGSPAIFQS	aff	0.0534	aff_rescale	0.2269	cle	0.3375	tap	-2.4650	COMB
0.1543													

155	ID	NP_705927.1	pep	GSPAIFQSS	aff	0.0591	aff_rescale	0.2509	cle	0.0727	tap	-2.2980	COMB
0.1469													
156	ID	NP_705927.1	pep	SPAIFQSSM	aff	0.0576	aff_rescale	0.2445	cle	0.9501	tap	0.0400	COMB
0.3890													
157	ID	NP_705927.1	pep	PAIFQSSMT	aff	0.0534	aff_rescale	0.2265	cle	0.0440	tap	-1.0100	COMB
0.1826													
158	ID	NP_705927.1	pep	AIFQSSMTK	aff	0.0637	aff_rescale	0.2706	cle	0.9145	tap	0.7040	COMB
0.4430													
159	ID	NP_705927.1	pep	IFQSSMTKI	aff	0.0576	aff_rescale	0.2446	cle	0.4455	tap	0.8470	COMB
0.3537													
160	ID	NP_705927.1	pep	FQSSMTKIL	aff	0.0671	aff_rescale	0.2847	cle	0.6670	tap	0.9400	COMB
0.4318													
161	ID	NP_705927.1	pep	QSSMTKILE	aff	0.0947	aff_rescale	0.4022	cle	0.0231	tap	-1.6210	COMB
0.3246													
162	ID	NP_705927.1	pep	SSMTKILEP	aff	0.0973	aff_rescale	0.4130	cle	0.2989	tap	0.2140	COMB
0.4686													
163	ID	NP_705927.1	pep	SMTKILEPF	aff	0.0736	aff_rescale	0.3125	cle	0.9309	tap	2.7270	COMB
0.5885													
164	ID	NP_705927.1	pep	MTKILEPFR	aff	0.0599	aff_rescale	0.2542	cle	0.1160	tap	1.5620	COMB
0.3497													
165	ID	NP_705927.1	pep	TKILEPFRK	aff	0.0567	aff_rescale	0.2406	cle	0.4666	tap	0.5980	COMB
0.3405													
166	ID	NP_705927.1	pep	KILEPFRKQ	aff	0.0496	aff_rescale	0.2104	cle	0.0755	tap	0.1580	COMB
0.2296													
167	ID	NP_705927.1	pep	ILEPFRKQN	aff	0.0526	aff_rescale	0.2235	cle	0.0240	tap	-1.3160	COMB
0.1613													
168	ID	NP_705927.1	pep	LEPFRKQNP	aff	0.0480	aff_rescale	0.2039	cle	0.0252	tap	-0.0330	COMB
0.2060													
169	ID	NP_705927.1	pep	EPFRKQNPD	aff	0.0471	aff_rescale	0.1998	cle	0.0398	tap	-2.1640	COMB
0.0976													
170	ID	NP_705927.1	pep	PFRKQNPD	aff	0.0456	aff_rescale	0.1936	cle	0.0608	tap	0.1040	COMB
0.2080													
171	ID	NP_705927.1	pep	FRKQNPDIV	aff	0.0527	aff_rescale	0.2237	cle	0.1372	tap	0.2790	COMB
0.2583													
172	ID	NP_705927.1	pep	RKQNPDIVI	aff	0.0580	aff_rescale	0.2461	cle	0.5258	tap	0.6910	COMB
0.3595													
173	ID	NP_705927.1	pep	KQNPDIVIY	aff	0.0898	aff_rescale	0.3812	cle	0.9617	tap	3.1450	COMB
0.6827													
174	ID	NP_705927.1	pep	QNPDIVIYQ	aff	0.0566	aff_rescale	0.2402	cle	0.0892	tap	-0.1590	COMB
0.2457													
175	ID	NP_705927.1	pep	NPDIVIYQY	aff	0.1193	aff_rescale	0.5064	cle	0.9772	tap	2.4320	COMB
0.7746	<-E												
176	ID	NP_705927.1	pep	PDIVIYQYM	aff	0.0499	aff_rescale	0.2118	cle	0.1518	tap	-0.2730	COMB
0.2209													
177	ID	NP_705927.1	pep	DIVIYQYMD	aff	0.0549	aff_rescale	0.2331	cle	0.0624	tap	-2.0700	COMB
0.1389													
178	ID	NP_705927.1	pep	IVIYQYMD	aff	0.0537	aff_rescale	0.2281	cle	0.0241	tap	-1.7240	COMB
0.1455													
179	ID	NP_705927.1	pep	VIYQYMDL	aff	0.0701	aff_rescale	0.2976	cle	0.8010	tap	1.3410	COMB
0.4848													
180	ID	NP_705927.1	pep	IYQYMDLY	aff	0.1035	aff_rescale	0.4394	cle	0.4044	tap	3.2270	COMB
0.6614													
181	ID	NP_705927.1	pep	YQYMDLYV	aff	0.0745	aff_rescale	0.3162	cle	0.7614	tap	0.5660	COMB
0.4587													
182	ID	NP_705927.1	pep	QYMDLYVG	aff	0.0452	aff_rescale	0.1919	cle	0.1430	tap	-1.1050	COMB
0.1581													
183	ID	NP_705927.1	pep	YMDDLYVGS	aff	0.1367	aff_rescale	0.5804	cle	0.0870	tap	-2.3690	COMB
0.4750													
184	ID	NP_705927.1	pep	MDDLYVGS	aff	0.0644	aff_rescale	0.2735	cle	0.0334	tap	-2.3040	COMB
0.1633													
185	ID	NP_705927.1	pep	DDLYVGS	aff	0.0498	aff_rescale	0.2113	cle	0.8614	tap	0.3850	COMB
0.3597													
186	ID	NP_705927.1	pep	DLYVGS	aff	0.0561	aff_rescale	0.2383	cle	0.0577	tap	-1.8140	COMB
0.1562													
187	ID	NP_705927.1	pep	LYVGS	aff	0.0563	aff_rescale	0.2391	cle	0.5669	tap	0.7420	COMB
0.3612													
188	ID	NP_705927.1	pep	YVGS	aff	0.0652	aff_rescale	0.2767	cle	0.0277	tap	-1.3920	COMB
0.2113													
189	ID	NP_705927.1	pep	VGS	aff	0.0482	aff_rescale	0.2047	cle	0.0574	tap	-0.3660	COMB
0.1950													
190	ID	NP_705927.1	pep	GSDLEIG	aff	0.1675	aff_rescale	0.7112	cle	0.3332	tap	-0.8030	COMB
0.7211													
191	ID	NP_705927.1	pep	SDLEIG	aff	0.0540	aff_rescale	0.2291	cle	0.2099	tap	1.2180	COMB
0.3215													
192	ID	NP_705927.1	pep	DLEIG	aff	0.0638	aff_rescale	0.2710	cle	0.3384	tap	-1.0920	COMB
0.2672													
193	ID	NP_705927.1	pep	LEIG	aff	0.0569	aff_rescale	0.2417	cle	0.8057	tap	0.2630	COMB
0.3757													
194	ID	NP_705927.1	pep	EIG	aff	0.0571	aff_rescale	0.2426	cle	0.6500	tap	0.3440	COMB
0.3573													
195	ID	NP_705927.1	pep	IG	aff	0.0396	aff_rescale	0.1681	cle	0.0260	tap	-2.0080	COMB

0.0716											
196 ID NP_705927.1 pep	QGHRTKIEE	aff	0.0508	aff_rescale	0.2158	cle	0.0251	tap	-1.6300	COMB	
0.1381											
197 ID NP_705927.1 pep	QHRTKIEEL	aff	0.0559	aff_rescale	0.2375	cle	0.8652	tap	0.9940	COMB	
0.4170											
198 ID NP_705927.1 pep	HRTKIEELR	aff	0.0602	aff_rescale	0.2558	cle	0.6625	tap	1.5150	COMB	
0.4309											
199 ID NP_705927.1 pep	RTKIEELRQ	aff	0.0662	aff_rescale	0.2810	cle	0.0410	tap	0.0920	COMB	
0.2917											
200 ID NP_705927.1 pep	TKIEELRQH	aff	0.0523	aff_rescale	0.2220	cle	0.0472	tap	-0.3060	COMB	
0.2138											
201 ID NP_705927.1 pep	KIEELRQHL	aff	0.0622	aff_rescale	0.2643	cle	0.9360	tap	1.0560	COMB	
0.4575											
202 ID NP_705927.1 pep	IEELRQHLL	aff	0.0566	aff_rescale	0.2405	cle	0.9291	tap	0.7990	COMB	
0.4198											
203 ID NP_705927.1 pep	EELRQHLLR	aff	0.0573	aff_rescale	0.2431	cle	0.3740	tap	1.1720	COMB	
0.3578											
204 ID NP_705927.1 pep	ELRQHLLRW	aff	0.0540	aff_rescale	0.2294	cle	0.9606	tap	0.5820	COMB	
0.4026											
205 ID NP_705927.1 pep	LRQHLLRWG	aff	0.0461	aff_rescale	0.1958	cle	0.0348	tap	-1.3840	COMB	
0.1319											
206 ID NP_705927.1 pep	RQHLLRWGL	aff	0.0616	aff_rescale	0.2617	cle	0.6620	tap	1.3520	COMB	
0.4286											
207 ID NP_705927.1 pep	QHLLRWGLT	aff	0.0552	aff_rescale	0.2344	cle	0.0322	tap	-0.5350	COMB	
0.2125											
208 ID NP_705927.1 pep	HLLRWGLTT	aff	0.0764	aff_rescale	0.3245	cle	0.0797	tap	-0.8080	COMB	
0.2961											
209 ID NP_705927.1 pep	LLRWGLTTP	aff	0.0573	aff_rescale	0.2433	cle	0.7999	tap	0.1540	COMB	
0.3710											
210 ID NP_705927.1 pep	LRWGLTTPD	aff	0.0508	aff_rescale	0.2156	cle	0.8215	tap	-1.3850	COMB	
0.2696											
211 ID NP_705927.1 pep	RWGLTTPDK	aff	0.0544	aff_rescale	0.2311	cle	0.8643	tap	0.8400	COMB	
0.4027											
212 ID NP_705927.1 pep	WGLTTPDKK	aff	0.0586	aff_rescale	0.2490	cle	0.3768	tap	0.3210	COMB	
0.3216											
213 ID NP_705927.1 pep	GLTTPDKKH	aff	0.0514	aff_rescale	0.2183	cle	0.5419	tap	-0.7870	COMB	
0.2602											
214 ID NP_705927.1 pep	LTPDKKHQ	aff	0.0491	aff_rescale	0.2083	cle	0.1775	tap	-0.1890	COMB	
0.2255											
215 ID NP_705927.1 pep	TTPDKKHQK	aff	0.0723	aff_rescale	0.3070	cle	0.9024	tap	0.4550	COMB	
0.4651											
216 ID NP_705927.1 pep	TPDKKHQKE	aff	0.0511	aff_rescale	0.2169	cle	0.1052	tap	-2.0570	COMB	
0.1298											
217 ID NP_705927.1 pep	PDKKHQKEP	aff	0.0440	aff_rescale	0.1867	cle	0.0244	tap	-0.6750	COMB	
0.1566											
218 ID NP_705927.1 pep	DKKHQKEPP	aff	0.0418	aff_rescale	0.1775	cle	0.0250	tap	-0.3090	COMB	
0.1658											
219 ID NP_705927.1 pep	KKHQKEPPF	aff	0.0449	aff_rescale	0.1908	cle	0.0858	tap	2.5820	COMB	
0.3328											
220 ID NP_705927.1 pep	KHQKEPPFL	aff	0.0480	aff_rescale	0.2037	cle	0.6001	tap	1.1380	COMB	
0.3506											
221 ID NP_705927.1 pep	HQKEPPFLW	aff	0.0527	aff_rescale	0.2237	cle	0.9621	tap	0.9680	COMB	
0.4164											
222 ID NP_705927.1 pep	QKEPPFLWM	aff	0.0596	aff_rescale	0.2529	cle	0.7740	tap	0.2000	COMB	
0.3790											
223 ID NP_705927.1 pep	KEPPFLWVG	aff	0.0591	aff_rescale	0.2508	cle	0.2404	tap	-1.4880	COMB	
0.2124											
224 ID NP_705927.1 pep	EPPFLWVG	aff	0.0522	aff_rescale	0.2218	cle	0.9743	tap	2.5020	COMB	
0.4930											
225 ID NP_705927.1 pep	PPFLWVG	aff	0.0491	aff_rescale	0.2084	cle	0.0933	tap	-2.4050	COMB	
0.1022											
226 ID NP_705927.1 pep	PFLWVG	aff	0.0528	aff_rescale	0.2241	cle	0.9233	tap	0.5150	COMB	
0.3884											
227 ID NP_705927.1 pep	FLWVG	aff	0.0687	aff_rescale	0.2918	cle	0.0649	tap	-0.5840	COMB	
0.2723											
228 ID NP_705927.1 pep	LWVG	aff	0.0566	aff_rescale	0.2404	cle	0.0394	tap	0.3150	COMB	
0.2621											
229 ID NP_705927.1 pep	WVG	aff	0.0568	aff_rescale	0.2411	cle	0.0234	tap	-1.8360	COMB	
0.1528											
230 ID NP_705927.1 pep	MG	aff	0.0582	aff_rescale	0.2469	cle	0.6007	tap	0.3760	COMB	
0.3558											
231 ID NP_705927.1 pep	YG	aff	0.0414	aff_rescale	0.1759	cle	0.7754	tap	0.8620	COMB	
0.3353											
232 ID NP_705927.1 pep	YELHPDKWT	aff	0.0509	aff_rescale	0.2162	cle	0.0239	tap	-0.8730	COMB	
0.1762											
233 ID NP_705927.1 pep	ELHPDKWTV	aff	0.0671	aff_rescale	0.2847	cle	0.9016	tap	0.1080	COMB	
0.4253											
234 ID NP_705927.1 pep	LHPDKWTVQ	aff	0.0449	aff_rescale	0.1908	cle	0.2226	tap	-0.2760	COMB	
0.2104											
235 ID NP_705927.1 pep	HPDKWTVQP	aff	0.0666	aff_rescale	0.2826	cle	0.4903	tap	-0.4190	COMB	
0.3352											

236	ID	NP_705927.1	pep	PKDQTVQPI	aff	0.0440	aff_rescale	0.1869	cle	0.4106	tap	-0.2780	COMB
0.2346													
237	ID	NP_705927.1	pep	DKQTVQPIV	aff	0.0558	aff_rescale	0.2371	cle	0.9255	tap	0.0750	COMB
0.3797													
238	ID	NP_705927.1	pep	KQTVQPIVL	aff	0.0481	aff_rescale	0.2042	cle	0.7234	tap	1.1330	COMB
0.3694													
239	ID	NP_705927.1	pep	QTVQPIVLP	aff	0.0641	aff_rescale	0.2720	cle	0.1467	tap	0.2350	COMB
0.3058													
240	ID	NP_705927.1	pep	TVQPIVLP	aff	0.0615	aff_rescale	0.2613	cle	0.0304	tap	-1.5360	COMB
0.1891													
241	ID	NP_705927.1	pep	VQPIVLP	aff	0.0579	aff_rescale	0.2458	cle	0.8106	tap	0.5970	COMB
0.3972													
242	ID	NP_705927.1	pep	QPIVLP	aff	0.0507	aff_rescale	0.2153	cle	0.0369	tap	-1.9910	COMB
0.1213													
243	ID	NP_705927.1	pep	PIVLP	aff	0.0457	aff_rescale	0.1938	cle	0.0255	tap	-2.5680	COMB
0.0693													
244	ID	NP_705927.1	pep	IVLP	aff	0.0483	aff_rescale	0.2052	cle	0.4913	tap	0.9190	COMB
0.3249													
245	ID	NP_705927.1	pep	VLPEKDS	aff	0.0593	aff_rescale	0.2520	cle	0.0293	tap	-0.6300	COMB
0.2249													
246	ID	NP_705927.1	pep	LPEKDS	aff	0.0687	aff_rescale	0.2916	cle	0.9455	tap	-0.0830	COMB
0.4292													
247	ID	NP_705927.1	pep	PEKDS	aff	0.0401	aff_rescale	0.1701	cle	0.0562	tap	-1.8850	COMB
0.0843													
248	ID	NP_705927.1	pep	EKDS	aff	0.0567	aff_rescale	0.2406	cle	0.0305	tap	-2.2910	COMB
0.1306													
249	ID	NP_705927.1	pep	KDS	aff	0.0569	aff_rescale	0.2414	cle	0.5731	tap	0.1630	COMB
0.3355													
250	ID	NP_705927.1	pep	DS	aff	0.0654	aff_rescale	0.2776	cle	0.0504	tap	-0.1080	COMB
0.2798													
251	ID	NP_705927.1	pep	SW	aff	0.0551	aff_rescale	0.2339	cle	0.3741	tap	0.5890	COMB
0.3194													
252	ID	NP_705927.1	pep	W	aff	0.0739	aff_rescale	0.3139	cle	0.8263	tap	1.0380	COMB
0.4897													
253	ID	NP_705927.1	pep	TV	aff	0.0728	aff_rescale	0.3090	cle	0.3919	tap	0.2820	COMB
0.3819													
254	ID	NP_705927.1	pep	V	aff	0.0535	aff_rescale	0.2273	cle	0.0412	tap	-1.6520	COMB
0.1508													
255	ID	NP_705927.1	pep	ND	aff	0.0524	aff_rescale	0.2224	cle	0.1024	tap	0.3100	COMB
0.2533													
256	ID	NP_705927.1	pep	DI	aff	0.0644	aff_rescale	0.2736	cle	0.9051	tap	0.8760	COMB
0.4532													
257	ID	NP_705927.1	pep	I	aff	0.0487	aff_rescale	0.2067	cle	0.0406	tap	-1.3580	COMB
0.1448													
258	ID	NP_705927.1	pep	Q	aff	0.0502	aff_rescale	0.2133	cle	0.6144	tap	0.9740	COMB
0.3542													
259	ID	NP_705927.1	pep	K	aff	0.0563	aff_rescale	0.2389	cle	0.1382	tap	-0.3800	COMB
0.2406													
260	ID	NP_705927.1	pep	L	aff	0.0793	aff_rescale	0.3367	cle	0.0428	tap	-2.1650	COMB
0.2349													
261	ID	NP_705927.1	pep	V	aff	0.0432	aff_rescale	0.1832	cle	0.0289	tap	-0.2640	COMB
0.1744													
262	ID	NP_705927.1	pep	G	aff	0.0555	aff_rescale	0.2355	cle	0.1264	tap	0.4700	COMB
0.2780													
263	ID	NP_705927.1	pep	K	aff	0.1768	aff_rescale	0.7508	cle	0.8307	tap	2.9270	COMB
1.0217	<-E												
264	ID	NP_705927.1	pep	L	aff	0.0542	aff_rescale	0.2301	cle	0.0299	tap	0.2290	COMB
0.2461													
265	ID	NP_705927.1	pep	N	aff	0.0553	aff_rescale	0.2348	cle	0.0257	tap	-1.0470	COMB
0.1863													
266	ID	NP_705927.1	pep	W	aff	0.0684	aff_rescale	0.2904	cle	0.2603	tap	0.6970	COMB
0.3643													
267	ID	NP_705927.1	pep	A	aff	0.0878	aff_rescale	0.3730	cle	0.2303	tap	0.5610	COMB
0.4356													
268	ID	NP_705927.1	pep	S	aff	0.0594	aff_rescale	0.2521	cle	0.5113	tap	0.6660	COMB
0.3621													
269	ID	NP_705927.1	pep	Q	aff	0.0532	aff_rescale	0.2257	cle	0.9599	tap	1.8670	COMB
0.4630													
270	ID	NP_705927.1	pep	I	aff	0.0464	aff_rescale	0.1970	cle	0.6029	tap	0.1180	COMB
0.2933													
271	ID	NP_705927.1	pep	Y	aff	0.0559	aff_rescale	0.2372	cle	0.9689	tap	0.4760	COMB
0.4063													
272	ID	NP_705927.1	pep	P	aff	0.0534	aff_rescale	0.2269	cle	0.0283	tap	-0.7150	COMB
0.1953													
273	ID	NP_705927.1	pep	G	aff	0.0533	aff_rescale	0.2262	cle	0.6729	tap	0.2670	COMB
0.3404													
274	ID	NP_705927.1	pep	I	aff	0.0551	aff_rescale	0.2341	cle	0.8337	tap	1.0750	COMB
0.4129													
275	ID	NP_705927.1	pep	K	aff	0.0516	aff_rescale	0.2190	cle	0.8401	tap	1.2580	COMB
0.4079													
276	ID	NP_705927.1	pep	V	aff	0.0590	aff_rescale	0.2504	cle	0.1698	tap	1.8220	COMB

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0.3669
277 ID NP_705927.1 pep RQLCKLLRG aff 0.0583 aff_rescale 0.2475 cle 0.0401 tap -1.0110 COMB
0.2029
278 ID NP_705927.1 pep QLCKLLRGT aff 0.0604 aff_rescale 0.2566 cle 0.0296 tap -0.5320 COMB
0.2344
279 ID NP_705927.1 pep LCKLLRGTK aff 0.0545 aff_rescale 0.2314 cle 0.2862 tap 0.4380 COMB
0.2962
280 ID NP_705927.1 pep CKLLRGTKA aff 0.0545 aff_rescale 0.2315 cle 0.1117 tap -0.4610 COMB
0.2252
281 ID NP_705927.1 pep KLLRGTKAL aff 0.0554 aff_rescale 0.2354 cle 0.9288 tap 1.0920 COMB
0.4293
282 ID NP_705927.1 pep LLRGTKALT aff 0.0548 aff_rescale 0.2325 cle 0.0630 tap -0.5320 COMB
0.2153
283 ID NP_705927.1 pep LRGTKALTE aff 0.0596 aff_rescale 0.2530 cle 0.0543 tap -1.4700 COMB
0.1877
284 ID NP_705927.1 pep RGTKALTEV aff 0.0652 aff_rescale 0.2769 cle 0.5286 tap 0.3040 COMB
0.3714
285 ID NP_705927.1 pep GTKALTEVI aff 0.0605 aff_rescale 0.2567 cle 0.6079 tap 0.4640 COMB
0.3711
286 ID NP_705927.1 pep TKALTEVIP aff 0.0540 aff_rescale 0.2294 cle 0.0237 tap 0.1200 COMB
0.2390
287 ID NP_705927.1 pep KALTEVIPL aff 0.0653 aff_rescale 0.2772 cle 0.9162 tap 1.1420 COMB
0.4718
288 ID NP_705927.1 pep ALTEVIPLT aff 0.0653 aff_rescale 0.2770 cle 0.7962 tap -0.4770 COMB
0.3726
289 ID NP_705927.1 pep LTEVIPLTE aff 0.1517 aff_rescale 0.6441 cle 0.0668 tap -1.5730 COMB
0.5755
290 ID NP_705927.1 pep TEVIPLTEE aff 0.0478 aff_rescale 0.2028 cle 0.0864 tap -1.5960 COMB
0.1359
291 ID NP_705927.1 pep EVIPLTEEA aff 0.0604 aff_rescale 0.2565 cle 0.8803 tap -0.5220 COMB
0.3624
292 ID NP_705927.1 pep VIPLTEEA aff 0.0506 aff_rescale 0.2148 cle 0.0226 tap -1.5570 COMB
0.1404
293 ID NP_705927.1 pep IPLTEEAEL aff 0.0566 aff_rescale 0.2403 cle 0.9752 tap 0.7380 COMB
0.4235
294 ID NP_705927.1 pep PLTEEAELE aff 0.0561 aff_rescale 0.2383 cle 0.0259 tap -2.0530 COMB
0.1396
295 ID NP_705927.1 pep LTEEALELE aff 0.2052 aff_rescale 0.8714 cle 0.9369 tap 0.6480 COMB
1.0443 <-E
296 ID NP_705927.1 pep TEEAELELA aff 0.0591 aff_rescale 0.2509 cle 0.0542 tap -0.7880 COMB
0.2196
297 ID NP_705927.1 pep EEAELELAE aff 0.0508 aff_rescale 0.2156 cle 0.0243 tap -1.8780 COMB
0.1253
298 ID NP_705927.1 pep EAELELAEN aff 0.0596 aff_rescale 0.2529 cle 0.0343 tap -1.7780 COMB
0.1692
299 ID NP_705927.1 pep AELELAENR aff 0.0535 aff_rescale 0.2271 cle 0.2377 tap 1.3440 COMB
0.3300
300 ID NP_705927.1 pep ELELAENRE aff 0.0555 aff_rescale 0.2358 cle 0.0342 tap -1.7400 COMB
0.1539
301 ID NP_705927.1 pep LELAENREI aff 0.0574 aff_rescale 0.2437 cle 0.3185 tap 0.2540 COMB
0.3042
302 ID NP_705927.1 pep ELAENREIL aff 0.0616 aff_rescale 0.2614 cle 0.7352 tap 0.8350 COMB
0.4134
303 ID NP_705927.1 pep LAENREILK aff 0.0843 aff_rescale 0.3579 cle 0.4173 tap 0.2100 COMB
0.4310
304 ID NP_705927.1 pep AENREILKE aff 0.0565 aff_rescale 0.2400 cle 0.0241 tap -1.6030 COMB
0.1635
305 ID NP_705927.1 pep ENREILKEP aff 0.0468 aff_rescale 0.1985 cle 0.0278 tap -0.0490 COMB
0.2003
306 ID NP_705927.1 pep NREILKEPV aff 0.0512 aff_rescale 0.2173 cle 0.3490 tap 0.2470 COMB
0.2820
307 ID NP_705927.1 pep REILKEPVH aff 0.0492 aff_rescale 0.2088 cle 0.0434 tap -0.2170 COMB
0.2045
308 ID NP_705927.1 pep EILKEPVHG aff 0.0531 aff_rescale 0.2256 cle 0.0407 tap -1.3210 COMB
0.1656
309 ID NP_705927.1 pep ILKEPVHGV aff 0.0540 aff_rescale 0.2292 cle 0.9748 tap 0.1880 COMB
0.3848
310 ID NP_705927.1 pep LKEPVHGVY aff 0.1764 aff_rescale 0.7489 cle 0.9734 tap 2.8430 COMB
1.0371 <-E
311 ID NP_705927.1 pep KEPVHGVYY aff 0.0566 aff_rescale 0.2405 cle 0.9717 tap 2.9290 COMB
0.5327
312 ID NP_705927.1 pep EPVHGVYYD aff 0.0443 aff_rescale 0.1881 cle 0.0993 tap -2.1450 COMB
0.0957
313 ID NP_705927.1 pep PVHGVYYDP aff 0.0541 aff_rescale 0.2295 cle 0.3723 tap -0.3740 COMB
0.2667
314 ID NP_705927.1 pep VHGVYYDPS aff 0.0524 aff_rescale 0.2226 cle 0.0227 tap -2.4840 COMB
0.1018
315 ID NP_705927.1 pep HGVYYDPSK aff 0.0564 aff_rescale 0.2395 cle 0.1488 tap 0.2320 COMB
0.2734
316 ID NP_705927.1 pep GVYYDPSKD aff 0.0474 aff_rescale 0.2013 cle 0.0376 tap -1.6920 COMB
0.1224
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317	ID	NP_705927.1	pep	VYYDPSKDL	aff	0.0442	aff_rescale	0.1877	cle	0.9627	tap	1.4380	COMB
0.4040													
318	ID	NP_705927.1	pep	YYDPSKDLI	aff	0.0877	aff_rescale	0.3726	cle	0.6202	tap	0.6500	COMB
0.4981													
319	ID	NP_705927.1	pep	YDPSKDLIA	aff	0.0669	aff_rescale	0.2842	cle	0.4307	tap	-0.9300	COMB
0.3023													
320	ID	NP_705927.1	pep	DPSKDLIAE	aff	0.0470	aff_rescale	0.1994	cle	0.0639	tap	-2.2420	COMB
0.0969													
321	ID	NP_705927.1	pep	PSKDLIAEI	aff	0.0555	aff_rescale	0.2355	cle	0.9364	tap	-0.0460	COMB
0.3736													
322	ID	NP_705927.1	pep	SKDLIAEIQ	aff	0.0638	aff_rescale	0.2708	cle	0.0478	tap	-0.3240	COMB
0.2618													
323	ID	NP_705927.1	pep	KDLIAEIQK	aff	0.0510	aff_rescale	0.2166	cle	0.8267	tap	0.3360	COMB
0.3574													
324	ID	NP_705927.1	pep	DLIAEIQKQ	aff	0.0585	aff_rescale	0.2483	cle	0.1188	tap	-0.2320	COMB
0.2546													
325	ID	NP_705927.1	pep	LIAEIQKQG	aff	0.0554	aff_rescale	0.2352	cle	0.0476	tap	-1.3850	COMB
0.1731													
326	ID	NP_705927.1	pep	IAEIQKQGQ	aff	0.0502	aff_rescale	0.2130	cle	0.0238	tap	-0.1260	COMB
0.2103													
327	ID	NP_705927.1	pep	AEIQKQGQG	aff	0.0558	aff_rescale	0.2370	cle	0.0299	tap	-1.3090	COMB
0.1760													
328	ID	NP_705927.1	pep	EIQKQGQGQ	aff	0.0527	aff_rescale	0.2240	cle	0.0258	tap	-0.0590	COMB
0.2249													
329	ID	NP_705927.1	pep	IQKQGQGW	aff	0.0447	aff_rescale	0.1900	cle	0.7177	tap	0.8140	COMB
0.3383													
330	ID	NP_705927.1	pep	QKQGQGW	aff	0.0536	aff_rescale	0.2276	cle	0.0242	tap	-0.6660	COMB
0.1979													
331	ID	NP_705927.1	pep	KQGQGW	aff	0.1539	aff_rescale	0.6532	cle	0.9745	tap	2.8950	COMB
0.9442	<-E												
332	ID	NP_705927.1	pep	QGQGW	aff	0.0511	aff_rescale	0.2168	cle	0.0327	tap	-0.2900	COMB
0.2072													
333	ID	NP_705927.1	pep	GQGW	aff	0.0559	aff_rescale	0.2375	cle	0.7888	tap	0.2190	COMB
0.3668													
334	ID	NP_705927.1	pep	QGWT	aff	0.0698	aff_rescale	0.2965	cle	0.8141	tap	2.6090	COMB
0.5490													
335	ID	NP_705927.1	pep	QWT	aff	0.0569	aff_rescale	0.2416	cle	0.1976	tap	-0.0860	COMB
0.2669													
336	ID	NP_705927.1	pep	QWT	aff	0.0447	aff_rescale	0.1897	cle	0.0237	tap	-1.3720	COMB
0.1247													
337	ID	NP_705927.1	pep	WT	aff	0.0740	aff_rescale	0.3143	cle	0.0671	tap	0.1940	COMB
0.3340													
338	ID	NP_705927.1	pep	TY	aff	0.0503	aff_rescale	0.2135	cle	0.5997	tap	2.6900	COMB
0.4380													
339	ID	NP_705927.1	pep	YQ	aff	0.0602	aff_rescale	0.2557	cle	0.1033	tap	0.5990	COMB
0.3012													
340	ID	NP_705927.1	pep	QI	aff	0.0562	aff_rescale	0.2385	cle	0.0338	tap	-1.0390	COMB
0.1917													
341	ID	NP_705927.1	pep	IY	aff	0.0415	aff_rescale	0.1761	cle	0.9480	tap	1.1610	COMB
0.3764													
342	ID	NP_705927.1	pep	YQ	aff	0.1033	aff_rescale	0.4386	cle	0.5852	tap	0.3850	COMB
0.5456													
343	ID	NP_705927.1	pep	Q	aff	0.0578	aff_rescale	0.2452	cle	0.0455	tap	-0.8950	COMB
0.2073													
344	ID	NP_705927.1	pep	EP	aff	0.0482	aff_rescale	0.2049	cle	0.4849	tap	-1.8410	COMB
0.1855													
345	ID	NP_705927.1	pep	PF	aff	0.0451	aff_rescale	0.1916	cle	0.6043	tap	-0.0170	COMB
0.2814													
346	ID	NP_705927.1	pep	FK	aff	0.1228	aff_rescale	0.5214	cle	0.9361	tap	2.6400	COMB
0.7938	<-E												
347	ID	NP_705927.1	pep	KN	aff	0.0504	aff_rescale	0.2139	cle	0.1413	tap	-0.6680	COMB
0.2017													
348	ID	NP_705927.1	pep	NL	aff	0.0540	aff_rescale	0.2291	cle	0.4671	tap	1.6400	COMB
0.3812													
349	ID	NP_705927.1	pep	LK	aff	0.0536	aff_rescale	0.2274	cle	0.9359	tap	0.4630	COMB
0.3909													
350	ID	NP_705927.1	pep	KT	aff	0.0666	aff_rescale	0.2830	cle	0.0988	tap	1.4550	COMB
0.3705													
351	ID	NP_705927.1	pep	TG	aff	0.0483	aff_rescale	0.2050	cle	0.0258	tap	-1.5840	COMB
0.1297													
352	ID	NP_705927.1	pep	GK	aff	0.0511	aff_rescale	0.2171	cle	0.0509	tap	-0.4680	COMB
0.2013													
353	ID	NP_705927.1	pep	KY	aff	0.0524	aff_rescale	0.2226	cle	0.0263	tap	-0.1770	COMB
0.2177													
354	ID	NP_705927.1	pep	YA	aff	0.0612	aff_rescale	0.2597	cle	0.0263	tap	-0.5230	COMB
0.2375													
355	ID	NP_705927.1	pep	AR	aff	0.0568	aff_rescale	0.2414	cle	0.3012	tap	-0.9520	COMB
0.2390													
356	ID	NP_705927.1	pep	RM	aff	0.0558	aff_rescale	0.2371	cle	0.0538	tap	-1.2470	COMB
0.1828													
357	ID	NP_705927.1	pep	MR	aff	0.0680	aff_rescale	0.2889	cle	0.8197	tap	0.5370	COMB

0.4387													
358	ID	NP_705927.1	pep	GAHTNDVK	aff	0.0547	aff_rescale	0.2322	cle	0.1930	tap	0.4950	COMB
0.2859													
359	ID	NP_705927.1	pep	GAHTNDVKQ	aff	0.0576	aff_rescale	0.2447	cle	0.0836	tap	-0.0700	COMB
0.2537													
360	ID	NP_705927.1	pep	AHTNDVKQL	aff	0.0466	aff_rescale	0.1980	cle	0.8916	tap	1.0400	COMB
0.3837													
361	ID	NP_705927.1	pep	HTNDVKQLT	aff	0.1167	aff_rescale	0.4957	cle	0.1755	tap	-0.7580	COMB
0.4841													
362	ID	NP_705927.1	pep	TNDVKQLTE	aff	0.0642	aff_rescale	0.2727	cle	0.0332	tap	-1.9380	COMB
0.1808													
363	ID	NP_705927.1	pep	NDVKQLTEA	aff	0.0541	aff_rescale	0.2296	cle	0.1600	tap	-0.7180	COMB
0.2177													
364	ID	NP_705927.1	pep	DVKQLTEAV	aff	0.0569	aff_rescale	0.2418	cle	0.4487	tap	0.2760	COMB
0.3229													
365	ID	NP_705927.1	pep	VKQLTEAVQ	aff	0.0472	aff_rescale	0.2005	cle	0.0534	tap	-0.1650	COMB
0.2002													
366	ID	NP_705927.1	pep	KQLTEAVQK	aff	0.0603	aff_rescale	0.2559	cle	0.2935	tap	0.7120	COMB
0.3355													
367	ID	NP_705927.1	pep	QLTEAVQKI	aff	0.0667	aff_rescale	0.2832	cle	0.6914	tap	0.6320	COMB
0.4185													
368	ID	NP_705927.1	pep	LTEAVQKIT	aff	0.0880	aff_rescale	0.3738	cle	0.0257	tap	-0.9160	COMB
0.3318													
369	ID	NP_705927.1	pep	TEAVQKITT	aff	0.0570	aff_rescale	0.2419	cle	0.0276	tap	-0.7970	COMB
0.2061													
370	ID	NP_705927.1	pep	EAVQKITTE	aff	0.0540	aff_rescale	0.2291	cle	0.0525	tap	-1.6290	COMB
0.1555													
371	ID	NP_705927.1	pep	AVQKITTES	aff	0.0701	aff_rescale	0.2976	cle	0.0468	tap	-2.1620	COMB
0.1965													
372	ID	NP_705927.1	pep	VQKITTESI	aff	0.0488	aff_rescale	0.2072	cle	0.4841	tap	0.8240	COMB
0.3211													
373	ID	NP_705927.1	pep	QKITTESIV	aff	0.0613	aff_rescale	0.2602	cle	0.0784	tap	0.4930	COMB
0.2966													
374	ID	NP_705927.1	pep	KITTESIVI	aff	0.0648	aff_rescale	0.2752	cle	0.5715	tap	0.6850	COMB
0.3952													
375	ID	NP_705927.1	pep	ITTESIVIW	aff	0.0777	aff_rescale	0.3298	cle	0.9528	tap	0.9510	COMB
0.5202													
376	ID	NP_705927.1	pep	TTESIVIWG	aff	0.0984	aff_rescale	0.4178	cle	0.0422	tap	-1.5730	COMB
0.3455													
377	ID	NP_705927.1	pep	TESIVIWGK	aff	0.0660	aff_rescale	0.2802	cle	0.7464	tap	0.3140	COMB
0.4078													
378	ID	NP_705927.1	pep	ESIVIWGKT	aff	0.0676	aff_rescale	0.2870	cle	0.0264	tap	-0.7900	COMB
0.2515													
379	ID	NP_705927.1	pep	SIVIWGKTP	aff	0.0545	aff_rescale	0.2315	cle	0.1138	tap	0.1970	COMB
0.2584													
380	ID	NP_705927.1	pep	IVIWGKTPK	aff	0.0588	aff_rescale	0.2495	cle	0.7534	tap	0.7490	COMB
0.4000													
381	ID	NP_705927.1	pep	VIWGKTPKF	aff	0.0563	aff_rescale	0.2389	cle	0.9758	tap	2.9060	COMB
0.5306													
382	ID	NP_705927.1	pep	IWGKTPKFK	aff	0.0497	aff_rescale	0.2110	cle	0.0646	tap	0.6180	COMB
0.2516													
383	ID	NP_705927.1	pep	WGKTPKFKL	aff	0.0510	aff_rescale	0.2165	cle	0.6864	tap	0.6680	COMB
0.3528													
384	ID	NP_705927.1	pep	GKTPKFKLP	aff	0.0460	aff_rescale	0.1953	cle	0.0409	tap	-0.1170	COMB
0.1955													
385	ID	NP_705927.1	pep	KTPKFKLPI	aff	0.0971	aff_rescale	0.4124	cle	0.7045	tap	0.5750	COMB
0.5469													
386	ID	NP_705927.1	pep	TPKFKLPIQ	aff	0.0410	aff_rescale	0.1740	cle	0.1230	tap	-0.3320	COMB
0.1759													
387	ID	NP_705927.1	pep	PKFKLPIQK	aff	0.0499	aff_rescale	0.2117	cle	0.7754	tap	0.1560	COMB
0.3358													
388	ID	NP_705927.1	pep	KFKLPIQKE	aff	0.0437	aff_rescale	0.1855	cle	0.0417	tap	-1.4380	COMB
0.1198													
389	ID	NP_705927.1	pep	FKLPIQKET	aff	0.0554	aff_rescale	0.2352	cle	0.0548	tap	-0.6320	COMB
0.2118													
390	ID	NP_705927.1	pep	KLPIQKETW	aff	0.0500	aff_rescale	0.2123	cle	0.8341	tap	0.8910	COMB
0.3820													
391	ID	NP_705927.1	pep	LPIQKETWE	aff	0.0479	aff_rescale	0.2033	cle	0.0272	tap	-1.6960	COMB
0.1226													
392	ID	NP_705927.1	pep	PIQKETWET	aff	0.0662	aff_rescale	0.2812	cle	0.0324	tap	-1.0410	COMB
0.2340													
393	ID	NP_705927.1	pep	IQKETWETW	aff	0.0461	aff_rescale	0.1957	cle	0.7543	tap	0.8360	COMB
0.3506													
394	ID	NP_705927.1	pep	QKETWETWW	aff	0.0558	aff_rescale	0.2368	cle	0.1246	tap	0.8120	COMB
0.2961													
395	ID	NP_705927.1	pep	KETWETWWT	aff	0.0584	aff_rescale	0.2479	cle	0.0525	tap	-0.8190	COMB
0.2149													
396	ID	NP_705927.1	pep	ETWETWWTE	aff	0.0663	aff_rescale	0.2814	cle	0.0496	tap	-1.5180	COMB
0.2130													
397	ID	NP_705927.1	pep	TWETWWTEY	aff	0.2370	aff_rescale	1.0062	cle	0.9082	tap	2.8390	COMB
1.2844	<-E												

398	ID	NP_705927.1	pep	WETWWTEYW	aff	0.0570	aff_rescale	0.2419	cle	0.9069	tap	0.6960	COMB
0.4127													
399	ID	NP_705927.1	pep	ETWWTEYWQ	aff	0.0574	aff_rescale	0.2437	cle	0.0555	tap	-0.2150	COMB
0.2413													
400	ID	NP_705927.1	pep	TWWTEYWQA	aff	0.0579	aff_rescale	0.2459	cle	0.0916	tap	-0.3050	COMB
0.2444													
401	ID	NP_705927.1	pep	WWTEYWQAT	aff	0.0534	aff_rescale	0.2268	cle	0.0334	tap	-0.5120	COMB
0.2062													
402	ID	NP_705927.1	pep	WTEYWQATW	aff	0.2403	aff_rescale	1.0205	cle	0.3541	tap	0.6360	COMB
1.1054	<-E												
403	ID	NP_705927.1	pep	TEYWQATWI	aff	0.0580	aff_rescale	0.2462	cle	0.1058	tap	0.5090	COMB
0.2875													
404	ID	NP_705927.1	pep	EYWQATWIP	aff	0.0501	aff_rescale	0.2125	cle	0.1393	tap	0.3470	COMB
0.2508													
405	ID	NP_705927.1	pep	YWQATWIPE	aff	0.0595	aff_rescale	0.2525	cle	0.0242	tap	-1.5380	COMB
0.1793													
406	ID	NP_705927.1	pep	WQATWIPEW	aff	0.0735	aff_rescale	0.3122	cle	0.9452	tap	0.8980	COMB
0.4989													
407	ID	NP_705927.1	pep	QATWIPEWE	aff	0.0564	aff_rescale	0.2395	cle	0.0239	tap	-1.5920	COMB
0.1635													
408	ID	NP_705927.1	pep	ATWIPEWEF	aff	0.0792	aff_rescale	0.3363	cle	0.9449	tap	2.7800	COMB
0.6170													
409	ID	NP_705927.1	pep	TWIPEWEFV	aff	0.0570	aff_rescale	0.2419	cle	0.1340	tap	0.7630	COMB
0.3001													
410	ID	NP_705927.1	pep	WIPEWEFVN	aff	0.0588	aff_rescale	0.2495	cle	0.0242	tap	-1.2190	COMB
0.1922													
411	ID	NP_705927.1	pep	IPEWEFVNT	aff	0.0512	aff_rescale	0.2175	cle	0.0353	tap	-1.1870	COMB
0.1634													
412	ID	NP_705927.1	pep	PEWEFVNTP	aff	0.0523	aff_rescale	0.2220	cle	0.2561	tap	-0.3300	COMB
0.2439													
413	ID	NP_705927.1	pep	EWEFVNTPP	aff	0.0502	aff_rescale	0.2130	cle	0.0322	tap	-0.1420	COMB
0.2108													
414	ID	NP_705927.1	pep	WEFVNTPPL	aff	0.0493	aff_rescale	0.2095	cle	0.4538	tap	0.7370	COMB
0.3144													
415	ID	NP_705927.1	pep	EFVNTPPLV	aff	0.0518	aff_rescale	0.2199	cle	0.8083	tap	0.3000	COMB
0.3561													
416	ID	NP_705927.1	pep	FVNTPPLVK	aff	0.0743	aff_rescale	0.3155	cle	0.6600	tap	0.2470	COMB
0.4269													
417	ID	NP_705927.1	pep	VNTPPLVKL	aff	0.0495	aff_rescale	0.2103	cle	0.9711	tap	0.7230	COMB
0.3921													
418	ID	NP_705927.1	pep	NTPPLVKLW	aff	0.0640	aff_rescale	0.2717	cle	0.9183	tap	0.9320	COMB
0.4560													
419	ID	NP_705927.1	pep	TPPLVKLWY	aff	0.0730	aff_rescale	0.3101	cle	0.9752	tap	2.7250	COMB
0.5926													
420	ID	NP_705927.1	pep	PPLVKLWYQ	aff	0.0472	aff_rescale	0.2005	cle	0.1456	tap	-0.8620	COMB
0.1793													
421	ID	NP_705927.1	pep	PLVKLWYQL	aff	0.0582	aff_rescale	0.2473	cle	0.9737	tap	0.4270	COMB
0.4147													
422	ID	NP_705927.1	pep	LVKLWYQLE	aff	0.0568	aff_rescale	0.2412	cle	0.0329	tap	-1.5700	COMB
0.1676													
423	ID	NP_705927.1	pep	VKLWYQLEK	aff	0.0705	aff_rescale	0.2994	cle	0.6248	tap	0.6420	COMB
0.4253													
424	ID	NP_705927.1	pep	KLWYQLEKE	aff	0.0498	aff_rescale	0.2113	cle	0.0289	tap	-1.2200	COMB
0.1547													
425	ID	NP_705927.1	pep	LWYQLEKEP	aff	0.0498	aff_rescale	0.2114	cle	0.0242	tap	0.6430	COMB
0.2472													
426	ID	NP_705927.1	pep	WYQLEKEPI	aff	0.0470	aff_rescale	0.1994	cle	0.0797	tap	0.7880	COMB
0.2508													
427	ID	NP_705927.1	pep	YQLEKEPIV	aff	0.0622	aff_rescale	0.2640	cle	0.1347	tap	0.3320	COMB
0.3008													
428	ID	NP_705927.1	pep	QLEKEPIVG	aff	0.0618	aff_rescale	0.2624	cle	0.0344	tap	-1.5590	COMB
0.1896													
429	ID	NP_705927.1	pep	LEKEPIVGA	aff	0.0476	aff_rescale	0.2023	cle	0.8624	tap	-0.7180	COMB
0.2957													
430	ID	NP_705927.1	pep	EKEPIVGAE	aff	0.0486	aff_rescale	0.2063	cle	0.0274	tap	-1.8160	COMB
0.1196													
431	ID	NP_705927.1	pep	KEPIVGAET	aff	0.0568	aff_rescale	0.2410	cle	0.1426	tap	-0.9160	COMB
0.2166													
432	ID	NP_705927.1	pep	EPIVGAETF	aff	0.0520	aff_rescale	0.2209	cle	0.9425	tap	2.1960	COMB
0.4721													
433	ID	NP_705927.1	pep	PIVGAETFY	aff	0.0757	aff_rescale	0.3216	cle	0.3165	tap	2.4840	COMB
0.4933													
434	ID	NP_705927.1	pep	IVGAETFYV	aff	0.0697	aff_rescale	0.2961	cle	0.8419	tap	0.1680	COMB
0.4308													
435	ID	NP_705927.1	pep	VGAETFYVD	aff	0.0533	aff_rescale	0.2265	cle	0.0583	tap	-1.9940	COMB
0.1355													
436	ID	NP_705927.1	pep	GAETFYVDG	aff	0.0695	aff_rescale	0.2951	cle	0.0920	tap	-1.6190	COMB
0.2279													
437	ID	NP_705927.1	pep	AETFYVDGA	aff	0.0524	aff_rescale	0.2225	cle	0.1476	tap	-0.5930	COMB
0.2150													
438	ID	NP_705927.1	pep	ETFYVDGAA	aff	0.0659	aff_rescale	0.2796	cle	0.1914	tap	-0.4950	COMB

0.2836	439	ID	NP_705927.1	pep	TFYVDGAAN	aff	0.0492	aff_rescale	0.2087	cle	0.0508	tap	-1.1490	COMB	
0.1589	440	ID	NP_705927.1	pep	FYVDGAANR	aff	0.0492	aff_rescale	0.2089	cle	0.9307	tap	1.7420	COMB	
0.4356	441	ID	NP_705927.1	pep	YVDGAANRE	aff	0.1220	aff_rescale	0.5180	cle	0.0491	tap	-1.7280	COMB	
0.4389	442	ID	NP_705927.1	pep	VDGAANRET	aff	0.0572	aff_rescale	0.2427	cle	0.0318	tap	-1.1660	COMB	
0.1891	443	ID	NP_705927.1	pep	DGAANRETK	aff	0.0575	aff_rescale	0.2443	cle	0.1206	tap	-0.0540	COMB	
0.2596	444	ID	NP_705927.1	pep	GAANRETKL	aff	0.0626	aff_rescale	0.2659	cle	0.8316	tap	0.7060	COMB	
0.4259	445	ID	NP_705927.1	pep	AANRETKLG	aff	0.0553	aff_rescale	0.2350	cle	0.0274	tap	-1.3230	COMB	
0.1729	446	ID	NP_705927.1	pep	ANRETKLGK	aff	0.0516	aff_rescale	0.2190	cle	0.0922	tap	0.6590	COMB	
0.2658	447	ID	NP_705927.1	pep	NRETKLGKA	aff	0.0579	aff_rescale	0.2456	cle	0.2822	tap	-0.2820	COMB	
0.2739	448	ID	NP_705927.1	pep	RETKLGKAG	aff	0.0504	aff_rescale	0.2141	cle	0.0262	tap	-1.1820	COMB	
0.1589	449	ID	NP_705927.1	pep	ETKLGKAGY	aff	0.1182	aff_rescale	0.5020	cle	0.8804	tap	2.8290	COMB	
0.7755	<-E	450	ID	NP_705927.1	pep	TKLGKAGYV	aff	0.0607	aff_rescale	0.2579	cle	0.4055	tap	0.1940	COMB
0.3284	451	ID	NP_705927.1	pep	KLKAGYVVT	aff	0.0601	aff_rescale	0.2552	cle	0.1705	tap	-0.7320	COMB	
0.2442	452	ID	NP_705927.1	pep	LGKAGYVTN	aff	0.0498	aff_rescale	0.2115	cle	0.0563	tap	-1.4790	COMB	
0.1460	453	ID	NP_705927.1	pep	GKAGYVTNR	aff	0.0538	aff_rescale	0.2284	cle	0.3194	tap	1.4200	COMB	
0.3473	454	ID	NP_705927.1	pep	KAGYVTNRG	aff	0.0577	aff_rescale	0.2449	cle	0.0324	tap	-1.4290	COMB	
0.1783	455	ID	NP_705927.1	pep	AGYVTNRGR	aff	0.0509	aff_rescale	0.2161	cle	0.0583	tap	1.6500	COMB	
0.3073	456	ID	NP_705927.1	pep	GYVTNRGRQ	aff	0.0474	aff_rescale	0.2011	cle	0.0486	tap	0.2120	COMB	
0.2190	457	ID	NP_705927.1	pep	YVTNRGRQK	aff	0.0723	aff_rescale	0.3069	cle	0.5167	tap	0.5170	COMB	
0.4103	458	ID	NP_705927.1	pep	VTNRGRQKV	aff	0.0732	aff_rescale	0.3106	cle	0.6704	tap	0.2090	COMB	
0.4216	459	ID	NP_705927.1	pep	TNRGRQKVV	aff	0.0471	aff_rescale	0.1999	cle	0.2721	tap	0.2370	COMB	
0.2525	460	ID	NP_705927.1	pep	NRGRQKVVT	aff	0.0509	aff_rescale	0.2163	cle	0.0554	tap	-0.6150	COMB	
0.1939	461	ID	NP_705927.1	pep	RGRQKVVTL	aff	0.0525	aff_rescale	0.2229	cle	0.9189	tap	1.1220	COMB	
0.4169	462	ID	NP_705927.1	pep	GRQKVVTLT	aff	0.0577	aff_rescale	0.2449	cle	0.4733	tap	-0.5780	COMB	
0.2870	463	ID	NP_705927.1	pep	RQKVVTLTD	aff	0.0566	aff_rescale	0.2402	cle	0.1688	tap	-1.5280	COMB	
0.1891	464	ID	NP_705927.1	pep	QKVVTLTDT	aff	0.0543	aff_rescale	0.2304	cle	0.0287	tap	-0.4330	COMB	
0.2130	465	ID	NP_705927.1	pep	KVVTLTDTT	aff	0.0643	aff_rescale	0.2728	cle	0.0889	tap	-0.4310	COMB	
0.2646	466	ID	NP_705927.1	pep	VVTLTDTTN	aff	0.0587	aff_rescale	0.2493	cle	0.1558	tap	-1.0500	COMB	
0.2202	467	ID	NP_705927.1	pep	VTLTDTTNQ	aff	0.0692	aff_rescale	0.2939	cle	0.1428	tap	-0.0000	COMB	
0.3153	468	ID	NP_705927.1	pep	TLTDTTNQK	aff	0.0688	aff_rescale	0.2920	cle	0.9634	tap	0.4740	COMB	
0.4603	469	ID	NP_705927.1	pep	LTDTTNQKT	aff	0.3374	aff_rescale	1.4323	cle	0.1252	tap	-0.8890	COMB	
1.4067	<-E	470	ID	NP_705927.1	pep	TDTTNQKTE	aff	0.0460	aff_rescale	0.1953	cle	0.0243	tap	-1.8820	COMB
0.1048	471	ID	NP_705927.1	pep	DTTNQKTEL	aff	0.0819	aff_rescale	0.3479	cle	0.8451	tap	0.5910	COMB	
0.5042	472	ID	NP_705927.1	pep	TTNQKTELQ	aff	0.1251	aff_rescale	0.5311	cle	0.0290	tap	-0.3810	COMB	
0.5164	473	ID	NP_705927.1	pep	TNQKTELQA	aff	0.0568	aff_rescale	0.2414	cle	0.0379	tap	-0.7310	COMB	
0.2105	474	ID	NP_705927.1	pep	NQKTELQAI	aff	0.0533	aff_rescale	0.2262	cle	0.4205	tap	0.6550	COMB	
0.3220	475	ID	NP_705927.1	pep	QKTELQAIY	aff	0.0824	aff_rescale	0.3500	cle	0.9701	tap	3.0920	COMB	
0.6501	476	ID	NP_705927.1	pep	KTELQAIYL	aff	0.1499	aff_rescale	0.6366	cle	0.9336	tap	0.8470	COMB	
0.8189	<-E	477	ID	NP_705927.1	pep	TELQAIYLA	aff	0.0607	aff_rescale	0.2576	cle	0.7668	tap	-0.5730	COMB
0.3440	478	ID	NP_705927.1	pep	ELQAIYLAL	aff	0.0768	aff_rescale	0.3262	cle	0.9692	tap	0.7480	COMB	
0.5090															

479	ID	NP_705927.1	pep	LQAIYLALQ	aff	0.0684	aff_rescale	0.2905	cle	0.0511	tap	-0.1760	COMB
0.2894													
480	ID	NP_705927.1	pep	QAIYLALQD	aff	0.0592	aff_rescale	0.2514	cle	0.0242	tap	-1.6330	COMB
0.1734													
481	ID	NP_705927.1	pep	AIYLALQDS	aff	0.0594	aff_rescale	0.2521	cle	0.0267	tap	-1.8350	COMB
0.1644													
482	ID	NP_705927.1	pep	IYLALQDSG	aff	0.0478	aff_rescale	0.2029	cle	0.0259	tap	-0.9360	COMB
0.1600													
483	ID	NP_705927.1	pep	YLALQDSGL	aff	0.0843	aff_rescale	0.3578	cle	0.7759	tap	0.9800	COMB
0.5232													
484	ID	NP_705927.1	pep	LALQDSGLE	aff	0.0582	aff_rescale	0.2473	cle	0.0229	tap	-1.5430	COMB
0.1736													
485	ID	NP_705927.1	pep	ALQDSGLEV	aff	0.1058	aff_rescale	0.4494	cle	0.9619	tap	0.4940	COMB
0.6184													
486	ID	NP_705927.1	pep	LQDSGLEVN	aff	0.0604	aff_rescale	0.2563	cle	0.0276	tap	-1.2580	COMB
0.1975													
487	ID	NP_705927.1	pep	QDSGLEVNI	aff	0.0522	aff_rescale	0.2218	cle	0.2688	tap	0.2840	COMB
0.2763													
488	ID	NP_705927.1	pep	DSGLEVNIV	aff	0.0805	aff_rescale	0.3419	cle	0.2789	tap	-0.1730	COMB
0.3751													
489	ID	NP_705927.1	pep	SGLEVNIVT	aff	0.0582	aff_rescale	0.2473	cle	0.1326	tap	-1.0400	COMB
0.2152													
490	ID	NP_705927.1	pep	GLEVNIVTD	aff	0.0598	aff_rescale	0.2540	cle	0.1471	tap	-2.0650	COMB
0.1728													
491	ID	NP_705927.1	pep	LEVNIVTDS	aff	0.0572	aff_rescale	0.2428	cle	0.0980	tap	-2.3290	COMB
0.1410													
492	ID	NP_705927.1	pep	EVNIVTDSQ	aff	0.0542	aff_rescale	0.2300	cle	0.0446	tap	-0.2170	COMB
0.2258													
493	ID	NP_705927.1	pep	VNIVTDSQY	aff	0.0593	aff_rescale	0.2520	cle	0.6817	tap	2.7360	COMB
0.4910													
494	ID	NP_705927.1	pep	NIVTDSQYA	aff	0.0574	aff_rescale	0.2435	cle	0.1375	tap	-0.2450	COMB
0.2519													
495	ID	NP_705927.1	pep	IVTDSQYAL	aff	0.0615	aff_rescale	0.2610	cle	0.9472	tap	1.2210	COMB
0.4641													
496	ID	NP_705927.1	pep	VTDSQYALG	aff	0.1823	aff_rescale	0.7741	cle	0.0368	tap	-1.5220	COMB
0.7035													
497	ID	NP_705927.1	pep	TDSQYALGI	aff	0.0627	aff_rescale	0.2663	cle	0.4500	tap	0.2490	COMB
0.3462													
498	ID	NP_705927.1	pep	DSQYALGII	aff	0.0730	aff_rescale	0.3099	cle	0.3828	tap	0.2370	COMB
0.3791													
499	ID	NP_705927.1	pep	SQYALGIIQ	aff	0.0586	aff_rescale	0.2490	cle	0.1547	tap	0.0710	COMB
0.2758													
500	ID	NP_705927.1	pep	QYALGIIQA	aff	0.0548	aff_rescale	0.2326	cle	0.9484	tap	-0.1870	COMB
0.3655													
501	ID	NP_705927.1	pep	YALGIIQAQ	aff	0.0702	aff_rescale	0.2980	cle	0.1784	tap	-0.1040	COMB
0.3196													
502	ID	NP_705927.1	pep	ALGIIQAQP	aff	0.0592	aff_rescale	0.2513	cle	0.1967	tap	0.0530	COMB
0.2835													
503	ID	NP_705927.1	pep	LGIIQAQPD	aff	0.0513	aff_rescale	0.2179	cle	0.0403	tap	-1.8550	COMB
0.1312													
504	ID	NP_705927.1	pep	GIIQAQPDQ	aff	0.0524	aff_rescale	0.2224	cle	0.0396	tap	-0.0390	COMB
0.2264													
505	ID	NP_705927.1	pep	IIQAQPDQS	aff	0.0539	aff_rescale	0.2288	cle	0.0261	tap	-2.1560	COMB
0.1249													
506	ID	NP_705927.1	pep	IQAQPDQSE	aff	0.0485	aff_rescale	0.2057	cle	0.0294	tap	-1.4410	COMB
0.1381													
507	ID	NP_705927.1	pep	QAQPDQSES	aff	0.0605	aff_rescale	0.2571	cle	0.0418	tap	-2.2030	COMB
0.1532													
508	ID	NP_705927.1	pep	AQPDQSESE	aff	0.0488	aff_rescale	0.2073	cle	0.0426	tap	-1.4100	COMB
0.1432													
509	ID	NP_705927.1	pep	QPDQSESEL	aff	0.0589	aff_rescale	0.2501	cle	0.9132	tap	0.6410	COMB
0.4191													
510	ID	NP_705927.1	pep	PDQSESELV	aff	0.0536	aff_rescale	0.2277	cle	0.1061	tap	-0.5540	COMB
0.2159													
511	ID	NP_705927.1	pep	DQSESELVN	aff	0.0524	aff_rescale	0.2227	cle	0.0269	tap	-1.7050	COMB
0.1415													
512	ID	NP_705927.1	pep	QSESELVNQ	aff	0.0840	aff_rescale	0.3567	cle	0.0247	tap	-0.3350	COMB
0.3436													
513	ID	NP_705927.1	pep	SESELVNQI	aff	0.0597	aff_rescale	0.2536	cle	0.6766	tap	0.3990	COMB
0.3750													
514	ID	NP_705927.1	pep	ESELVNQII	aff	0.1167	aff_rescale	0.4956	cle	0.2402	tap	0.2810	COMB
0.5457													
515	ID	NP_705927.1	pep	SELVNQIIE	aff	0.0503	aff_rescale	0.2134	cle	0.0301	tap	-1.7970	COMB
0.1281													
516	ID	NP_705927.1	pep	ELVNQIIEQ	aff	0.0645	aff_rescale	0.2738	cle	0.3589	tap	-0.1580	COMB
0.3197													
517	ID	NP_705927.1	pep	LVNQIIEQL	aff	0.0659	aff_rescale	0.2798	cle	0.6962	tap	0.8360	COMB
0.4260													
518	ID	NP_705927.1	pep	VNQIIEQLI	aff	0.0524	aff_rescale	0.2226	cle	0.0911	tap	0.4600	COMB
0.2593													
519	ID	NP_705927.1	pep	NQIIEQLIK	aff	0.0619	aff_rescale	0.2628	cle	0.0935	tap	0.6930	COMB

0.3114	520	ID	NP_705927.1	pep	QIIEQLIKK	aff	0.0655	aff_rescale	0.2780	cle	0.7375	tap	0.8160	COMB
0.4294	521	ID	NP_705927.1	pep	IIEQLIKKE	aff	0.0507	aff_rescale	0.2151	cle	0.0291	tap	-1.6070	COMB
0.1391	522	ID	NP_705927.1	pep	IEQLIKKEK	aff	0.0515	aff_rescale	0.2187	cle	0.1241	tap	0.3290	COMB
0.2537	523	ID	NP_705927.1	pep	EQLIKKEKV	aff	0.0514	aff_rescale	0.2181	cle	0.2641	tap	0.2130	COMB
0.2684	524	ID	NP_705927.1	pep	QLIKKEKVY	aff	0.0636	aff_rescale	0.2701	cle	0.8376	tap	2.8590	COMB
0.5387	525	ID	NP_705927.1	pep	LIKKEKVYL	aff	0.0546	aff_rescale	0.2320	cle	0.7059	tap	1.0360	COMB
0.3897	526	ID	NP_705927.1	pep	IKKEKVYLA	aff	0.0492	aff_rescale	0.2089	cle	0.2160	tap	-0.4170	COMB
0.2205	527	ID	NP_705927.1	pep	KKEKVYLAW	aff	0.0644	aff_rescale	0.2733	cle	0.7925	tap	0.9060	COMB
0.4374	528	ID	NP_705927.1	pep	KEKVYLAWV	aff	0.0538	aff_rescale	0.2286	cle	0.4926	tap	0.3850	COMB
0.3217	529	ID	NP_705927.1	pep	EKVYLAWVP	aff	0.0505	aff_rescale	0.2145	cle	0.0297	tap	0.1290	COMB
0.2254	530	ID	NP_705927.1	pep	KVYLAWVPA	aff	0.0605	aff_rescale	0.2568	cle	0.4954	tap	-0.2700	COMB
0.3176	531	ID	NP_705927.1	pep	VYLAWVPAH	aff	0.0483	aff_rescale	0.2050	cle	0.1287	tap	-0.0900	COMB
0.2198	532	ID	NP_705927.1	pep	YLAWVPAHK	aff	0.0906	aff_rescale	0.3847	cle	0.9673	tap	0.5280	COMB
0.5562	533	ID	NP_705927.1	pep	LAWVPAHKG	aff	0.0543	aff_rescale	0.2305	cle	0.2431	tap	-1.2190	COMB
0.2060	534	ID	NP_705927.1	pep	AWVPAHKG I	aff	0.0469	aff_rescale	0.1991	cle	0.5654	tap	1.0510	COMB
0.3365	535	ID	NP_705927.1	pep	WVPAHKGIG	aff	0.0605	aff_rescale	0.2568	cle	0.0244	tap	-1.1450	COMB
0.2032	536	ID	NP_705927.1	pep	VPAHKGIGG	aff	0.0524	aff_rescale	0.2227	cle	0.0589	tap	-1.6770	COMB
0.1476	537	ID	NP_705927.1	pep	PAHKGIGGN	aff	0.0553	aff_rescale	0.2348	cle	0.0432	tap	-1.6660	COMB
0.1580	538	ID	NP_705927.1	pep	AHKGIGGNE	aff	0.0436	aff_rescale	0.1853	cle	0.0280	tap	-1.5610	COMB
0.1114	539	ID	NP_705927.1	pep	HKGIGGNEQ	aff	0.0602	aff_rescale	0.2555	cle	0.0385	tap	-0.1560	COMB
0.2535	540	ID	NP_705927.1	pep	KGIGGNEQV	aff	0.0586	aff_rescale	0.2488	cle	0.6076	tap	0.2010	COMB
0.3500	541	ID	NP_705927.1	pep	GIGGNEQVD	aff	0.0491	aff_rescale	0.2086	cle	0.0534	tap	-1.9280	COMB
0.1202	542	ID	NP_705927.1	pep	IGGNEQVDK	aff	0.0576	aff_rescale	0.2445	cle	0.1480	tap	0.0280	COMB
0.2681	543	ID	NP_705927.1	pep	GGNEQVDKL	aff	0.0490	aff_rescale	0.2081	cle	0.6510	tap	0.4240	COMB
0.3270	544	ID	NP_705927.1	pep	GNEQVDKLV	aff	0.0554	aff_rescale	0.2351	cle	0.1934	tap	-0.1910	COMB
0.2545	545	ID	NP_705927.1	pep	NEQVDKLVS	aff	0.0482	aff_rescale	0.2048	cle	0.0234	tap	-2.4060	COMB
0.0880	546	ID	NP_705927.1	pep	EQVDKLVSA	aff	0.0496	aff_rescale	0.2105	cle	0.4299	tap	-0.4450	COMB
0.2528	547	ID	NP_705927.1	pep	QVDKLVSAG	aff	0.0817	aff_rescale	0.3471	cle	0.0330	tap	-1.5870	COMB
0.2727	548	ID	NP_705927.1	pep	VDKLVSAGI	aff	0.0494	aff_rescale	0.2097	cle	0.7427	tap	0.2380	COMB
0.3330	549	ID	NP_705927.1	pep	DKLVSAGIR	aff	0.0525	aff_rescale	0.2230	cle	0.1471	tap	1.2830	COMB
0.3093	550	ID	NP_705927.1	pep	KLVSAGIRK	aff	0.0694	aff_rescale	0.2945	cle	0.8812	tap	0.5300	COMB
0.4532	551	ID	NP_705927.1	pep	LVSAGIRKV	aff	0.0668	aff_rescale	0.2835	cle	0.9185	tap	0.5540	COMB
0.4490	552	ID	NP_705927.1	pep	VSAGIRKVL	aff	0.0578	aff_rescale	0.2455	cle	0.8789	tap	1.1220	COMB
0.4335														

Number of MHC ligands 15 identified. Number of peptides 552. Protein name NP_705927.1

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