

## Supplementary Materials

**Table S1.** Full list of predicted 9-mer CTL epitopes from five different SARS-CoV-2 proteins (ORF1ab, S, E, M, and N) with %Rank less than 1% identified from NetCTLpan 1.1 along with their immunogenicity score. A total of 414 promiscuous peptides (bind to more than one different HLA alleles) out of 1,599 predicted peptides were identified and indicated by green color highlight. A total of 1,299 peptides with positive immunogenicity scores are identified and highlighted by bold-colored text.

Protein	Start Residue	Peptide	HLA Class I Allele	Immunogenicity
ORF1ab	2	SLVPGFNEK	HLA-A*11:01	<b>0.08077</b>
	44	HLKDGTCGL	HLA-A*02:03	<b>0.40234</b>
	64	EQPYVFIKR	HLA-A*33:03	<b>0.07638</b>
	83	VMVELVAEL	HLA-A*02:01, HLA-A*02:03	<b>0.22188</b>
	109	HVGEIPVAY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.24214
	115	VAYRKVLLR	HLA-A*33:03	<b>0.08565</b>
	134	SYGADLKSF	HLA-A*24:02, HLA-A*24:07	<b>0.29037</b>
	140	KSFDLGDEL	HLA-B*58:01	<b>0.10192</b>
	175	ELNGGAYTR	HLA-A*33:03	<b>0.04585</b>
	181	YTRYVDNNF	HLA-B*15:02, HLA-B*15:13, HLA-B*35:05	<b>0.17504</b>
	231	REHEHEIAW	HLA-B*18:01, HLA-B*44:03	-0.01938
	246	KSYELQTPF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*58:01	<b>0.05549</b>
	248	YELQTPFEI	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.05473</b>
	250	LQTPFEIKL	HLA-B*38:02	<b>0.11198</b>
	254	FEIKLAKKF	HLA-B*18:01, HLA-B*44:03	<b>0.01738</b>
	257	KLAKKFDTF	HLA-A*24:02, HLA-A*24:07	-0.05331
	278	SIKTIQPR	HLA-A*33:03, HLA-A*34:01	-0.24371
	281	KTIQPRVEK	HLA-A*11:01	<b>0.21515</b>
	295	FMGRIRSVY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.23703</b>
	312	NQMCLSTLM	HLA-B*15:02, HLA-B*15:21, HLA-B*38:02	<b>0.11957</b>
	313	QMCLSTLMK	HLA-A*11:01	-0.10819
	340	CEFCGTENL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.0585
	350	KEGATTCGY	HLA-B*44:03	-0.03267
	375	SEVGPEHSL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.17836
	388	NESGLKTIL	HLA-B*18:01, HLA-B*38:02	<b>0.04268</b>
	402	TIAFGGCVF	HLA-B*15:02, HLA-B*15:21	-0.29177
	410	FSYVGCHNK	HLA-A*11:01	<b>0.14136</b>
	444	GLNDNLLEI	HLA-A*02:01, HLA-A*02:03	<b>0.2593</b>
	467	KLNEEIAII	HLA-A*02:01, HLA-A*02:03	-0.01088
	471	EIAILASF	HLA-A*34:01	<b>0.15254</b>
	478	SFSASTSAF	HLA-A*02:01, HLA-A*02:03, HLA-B*15:21	<b>0.01528</b>
	482	STSAFVETV	HLA-A*02:03	-0.08747
	483	TSAFVETVK	HLA-A*11:01	<b>0.07779</b>

	487	VETVKGLDY	HLA-B*18:01, HLA-B*44:03	5.00E-05
	488	ETVKGLDYK	HLA-A*34:01	-0.25068
	527	SILSPLYAF	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.12032
	528	ILSPLYAFA	HLA-A*02:01, HLA-A*02:03	-0.04988
	533	YAFASEAAR	HLA-A*33:03	-0.02103
	541	RVVRSIFSR	HLA-A*11:01, HLA-A*33:03	<b>0.29466</b>
	552	ETAQNSVRV	HLA-A*34:01	-0.12893
	567	TILDGISQY	HLA-A*34:01, HLA-B*15:21	<b>0.12336</b>
	603	GVVQLTSQW	HLA-B*58:01	<b>0.09967</b>
	611	WLTNIFGTV	HLA-A*02:01, HLA-A*02:03	<b>0.10481</b>
	612	LTNIFGTVY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.13401</b>
	614	NIFGTVYEK	HLA-A*11:01, HLA-A*34:01	<b>0.08228</b>
	615	IFGTVYEKL	HLA-A*24:02, HLA-A*24:07	-0.09755
	618	TVYEKLKPV	HLA-A*34:01	-0.27795
	622	KLKPVLDWL	HLA-A*02:01, HLA-A*02:03	-0.0704
	640	FLRDGWEIV	HLA-A*02:03	<b>0.0312</b>
	669	EIKESVQTF	HLA-B*15:02, HLA-B*15:21	<b>0.00679</b>
	675	QTFKLVNK	HLA-A*11:01, HLA-A*33:03	<b>0.03596</b>
	676	TFFKLVNKF	HLA-A*24:02, HLA-A*24:07	-0.24674
	679	KLVNKLAL	HLA-A*02:01, HLA-A*02:03	-0.12198
	700	KALNLGETF	HLA-B*58:01	<b>0.26806</b>
	701	ALNLGETFV	HLA-A*02:01, HLA-A*02:03	<b>0.11952</b>
	708	FVTHSKGLY	HLA-A*34:01	<b>0.05558</b>
	709	VTHSKGLYR	HLA-A*33:03	<b>0.18902</b>
	724	EETGLLMPL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.2193</b>
	728	LLMPLKAPK	HLA-A*11:01	-0.22846
	743	GETLPTEVL	HLA-B*44:03	<b>0.01803</b>
	765	LEQPTSEAV	HLA-B*44:03	-0.19814
	790	LEIKDEKY	HLA-B*18:01, HLA-B*44:03	<b>0.16486</b>
	804	NMMVTNNTF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.23433</b>
	806	MVTNNTFTL	HLA-A*34:01	<b>0.11013</b>
	807	VTNNTFTLK	HLA-A*11:01	<b>0.177</b>
	828	TVIEVQGYK	HLA-A*11:01, HLA-A*34:01	<b>0.33203</b>
	834	GYKSVNITF	HLA-A*24:02, HLA-A*24:07	-0.01928
	836	KSVNITFEL	HLA-B*58:01	<b>0.08112</b>
	847	RIDKVLNEK	HLA-A*11:01	<b>0.08112</b>
	851	VLNEKCSAY	HLA-B*15:02, HLA-B*15:21	-0.0521
	853	NEKCSAYTV	HLA-B*18:01	<b>0.29543</b>
	859	YTVELGTEV	HLA-A*34:01	-0.06319
	866	EVNEFACVV	HLA-A*34:01	<b>0.20722</b>

	877	AVIKTLQPV	HLA-A*02:01, HLA-A*02:03	<b>0.10025</b>
	880	KTLQPVSEL	HLA-B*58:01	-0.02077
	886	SELLTPLGI	HLA-B*44:03	-0.18359
	897	DEWSMATYY	HLA-B*18:01, HLA-B*44:03	-0.15173
	899	WSMATYYLF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05, HLA-B*58:01	<b>0.00742</b>
	905	YLFDESGEF	HLA-A*02:01, HLA-A*02:03, HLA-B*35:05	<b>0.14296</b>
	911	GEFKLASHM	HLA-B*18:01, HLA-B*44:03	-0.11053
	915	LASHMYCSF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.12588
	916	ASHMYCSFY	HLA-A*11:01	-0.1748
	938	EEFEPSTQY	HLA-B*44:03	-0.01086
	940	FEPSTQYFY	HLA-B*18:01, HLA-B*44:03	-0.29837
	946	YFYGTEDDY	HLA-B*18:01, HLA-B*44:03	<b>0.13906</b>
	953	DYQKGPLEF	HLA-A*24:02, HLA-A*24:07	<b>0.06337</b>
	959	LEFGATSAA	HLA-B*18:01	-0.17982
	999	TTIQTIVEV	HLA-A*34:01	-0.28092
	1005	VEVQPQLEM	HLA-B*18:01, HLA-B*44:03	<b>0.13404</b>
	1011	LEMELTPVV	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.0627
	1022	IEVNSFSGY	HLA-B*18:01, HLA-B*44:03	-0.02539
	1023	EVNSFSGYL	HLA-A*34:01	-0.12922
	1030	YLKLTENVY	HLA-B*15:02, HLA-B*15:21	-0.15837
	1032	KLTENVYIK	HLA-A*11:01	<b>0.19528</b>
	1054	TVVVNAANV	HLA-A*34:01	<b>0.32162</b>
	1055	VVVNAANVY	HLA-B*15:02, HLA-B*15:21	<b>0.20214</b>
	1103	VLSGHNLAH	HLA-A*11:01	-0.16657
	1108	NLAHCLHV	HLA-A*02:03	-0.00438
	1115	HVVGPVNVK	HLA-A*11:01	<b>0.12139</b>
	1134	YENFNQHEV	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.05026</b>
	1140	HEVLLAPLL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.17137</b>
	1145	APLLSAGIF	HLA-B*35:05	<b>0.1294</b>
	1147	LLSAGIFGA	HLA-A*02:01	-0.18658
	1169	RTNVYLAVF	HLA-B*58:01	-0.20081
	1171	NVYLAVFDK	HLA-A*11:01	-0.32885
	1181	LYDKLVSSF	HLA-A*24:02, HLA-A*24:07	<b>0.02993</b>
	1184	KLVSSFLEM	HLA-B*15:02, HLA-B*15:21	-0.1653
	1185	LVSSFLEMK	HLA-A*11:01	<b>0.02089</b>
	1205	IPKEEVKPF	HLA-B*35:05	<b>0.08438</b>
	1213	FITESKPSV	HLA-A*02:03	-0.06827
	1216	ESKPSVEQR	HLA-A*33:03	<b>0.25781</b>

	1230	KIKACVEEV	HLA-A*02:03	-0.16448
	1254	LYIDINGNL	HLA-A*24:02, HLA-A*24:07	<b>0.2052</b>
	1269	LVSDIDITF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.2281</b>
	1277	FLKKDAPYI	HLA-A*02:03	-0.18386
	1295	LTAVVIPTK	HLA-A*11:01	<b>0.20624</b>
	1311	MLAKALRKV	HLA-A*02:03	<b>0.09181</b>
	1328	YPGQGLNGY	HLA-B*35:05	-0.04849
	1364	QEILGTVSW	HLA-B*18:01, HLA-B*44:03	-0.16397
	1366	ILGTVSWNL	HLA-A*02:01	<b>0.07671</b>
	1373	NLREMLAHA	HLA-A*02:03	<b>0.2227</b>
	1393	ETKAIVSTI	HLA-A*34:01	-0.45577
	1429	TVASLINTL	HLA-A*34:01	<b>0.33479</b>
	1432	SLINTLNDL	HLA-A*02:03	-0.4751
	1441	NETLVTMPL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.1606
	1498	EHFIETISL	HLA-B*38:02	-0.18593
	1502	ETISLAGSY	HLA-A*34:01	-0.02225
	1503	TISLAGSYK	HLA-A*11:01	-0.12476
	1520	TQLGIEFLK	HLA-A*11:01	-0.35677
	1526	FLKRGDKSV	HLA-A*02:03	<b>0.15015</b>
	1535	YYTSNPPTF	HLA-A*24:02, HLA-A*24:07	<b>0.3263</b>
	1537	TSNPPTFHL	HLA-B*58:01	<b>0.24962</b>
	1547	GEVITFDNL	HLA-B*44:03	<b>0.33519</b>
	1548	EVITFDNLK	HLA-A*34:01	-0.22258
	1554	NLKTLLSLR	HLA-A*33:03	-0.24009
	1562	REVRTIKVF	HLA-B*44:03	-0.2427
	1565	RTIKVFTTV	HLA-A*02:03, HLA-A*24:07, HLA-A*34:01	-0.27622
	1581	QVVDMSMTY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.1306
	1585	MSMTYGQQF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.24791
	1612	HEGKTFYVL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.25596</b>
	1625	TLRVEAFEY	HLA-B*15:02, HLA-B*15:21	-0.04828
	1633	YYHTTDPSF	HLA-A*24:02, HLA-A*24:07	<b>0.08212</b>
	1634	YHTTDPSFL	HLA-B*38:02	<b>0.44289</b>
	1641	FLGRYMSAL	HLA-A*02:01, HLA-A*02:03	<b>0.1259</b>
	1645	YMSALNHTK	HLA-A*11:01	<b>0.00668</b>
	1646	MSALNHTKK	HLA-A*11:01	-0.41789
	1647	SALNHTKKW	HLA-B*58:01	<b>0.16197</b>
	1674	YLATALTL	HLA-A*02:01, HLA-A*02:03	<b>0.32837</b>

	1690	NPPALQDAY	HLA-B*35:05	<b>0.12163</b>
	1704	GEAANFCAL	HLA-B*38:02, HLA-B*44:03	<b>0.04611</b>
	1711	ALILAYCNK	HLA-A*11:01	<b>0.08979</b>
	1726	DVRETMSYL	HLA-A*34:01	-0.03442
	1732	SYLFQHANL	HLA-A*24:02, HLA-A*24:07	<b>0.28227</b>
	1765	EAVMYMGTL	HLA-A*34:01	<b>0.19398</b>
	1767	VMYMGTLISY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05, HLA-B*44:03, HLA-B*58:01	-0.03831
	1771	GTLSYEQFK	HLA-A*11:01	<b>0.24003</b>
	1772	TLSYEQFKK	HLA-A*11:01	-0.34814
	1786	CTCGKQATK	HLA-A*11:01	-0.08934
	1795	YLVQQESPF	HLA-B*15:02	<b>0.1401</b>
	1795	YLVQQESPF	HLA-B*15:21	-0.29683
	1805	MMSAPPAQY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.08593</b>
	1812	QYELKHGTF	HLA-A*24:02	-0.06759
	1818	GTFTCASEY	HLA-A*11:01, HLA-B*15:13, HLA-B*58:01	<b>0.32333</b>
	1822	CASEYTGNY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.18319</b>
	1837	HITSKETLY	HLA-A*34:01	<b>0.21142</b>
	1846	CIDGALLTK	HLA-A*11:01	-0.01178
	1864	DVFKYKENS	HLA-A*34:01	<b>0.14035</b>
	1868	KENSYTITI	HLA-B*44:03	-0.10212
	1874	TTIKPVITYK	HLA-A*11:01, HLA-A*34:01	<b>0.15029</b>
	1898	YYKKNDSYF	HLA-A*24:02, HLA-A*24:07	<b>0.13333</b>
	1919	YPNASFDNF	HLA-B*15:13, HLA-B*35:05	-0.27369
	1928	KFVCDNIKF	HLA-A*24:02, HLA-A*24:07	<b>0.1358</b>
	1970	DYKHYPSPF	HLA-A*24:02	<b>0.31026</b>
	1983	KLLHKPIVW	HLA-B*58:01	-0.03961
	1999	KATYKPNTW	HLA-B*58:01	<b>0.02826</b>
	2001	TYKPNTWCI	HLA-A*24:02, HLA-A*24:07	<b>0.5572</b>
	2005	NTWCIRCLW	HLA-B*58:01	-0.47377
	2016	KPVETSNSF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.05262</b>
	2019	ETSNSFDVL	HLA-A*34:01	<b>0.17323</b>
	2020	TSNSFDVLK	HLA-A*11:01	<b>0.19998</b>
	2050	VVENPTIQK	HLA-A*11:01	-0.01973
	2068	TEVVGDIL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.10878
	2075	ILKPANNSL	HLA-A*02:03	-0.11178
	2110	NELSRVLGL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.05689</b>
	2111	ELSRVLGLK	HLA-A*34:01	-0.19241

	2126	LAAVNSVPW	HLA-B*15:13, HLA-B*58:01	<b>0.09719</b>
	2132	VPWDTIANY	HLA-B*15:13, HLA-B*18:01, HLA-B*35:05	-0.08099
	2150	STTTNIVTR	HLA-A*33:03	-0.28472
	2162	RVCTNYMPY	HLA-A*11:01	-0.01179
	2164	CTNYMPYFF	HLA-B*58:01	-0.06736
	2166	NYMPYFFTL	HLA-A*24:02, HLA-A*24:07, HLA-B*38:02	<b>0.18574</b>
	2167	YMPYFFTL	HLA-A*02:01, HLA-A*02:03, HLA-B*38:02	-0.23641
	2168	MPYFFTL	HLA-B*35:05, HLA-B*38:02	-0.037
	2175	LLQLCTFTR	HLA-A*33:03	<b>0.01243</b>
	2180	TFTRSTNSR	HLA-A*33:03	-0.10484
	2191	ASMPPTIAK	HLA-A*11:01	<b>0.00503</b>
	2195	TTIAKNTVK	HLA-A*11:01	<b>0.30249</b>
	2229	IIWFLLSV	HLA-A*02:01	<b>0.15002</b>
	2241	SLIYSTAAL	HLA-A*02:03, HLA-B*15:21	-0.24334
	2253	MSNLGMPSY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.05143</b>
	2269	YLNSTNVTI	HLA-A*02:01, HLA-A*02:03	-0.16914
	2272	STNVTIATY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*58:01	-0.00384
	2305	TIQITISSF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.0599</b>
	2307	QITISSFKW	HLA-B*58:01	<b>0.20408</b>
	2318	TAFGLVAEW	HLA-B*15:13, HLA-B*58:01	<b>0.01392</b>
	2322	LVAEWFLAY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	-0.27126
	2324	AEWFLAYIL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.23318</b>
	2327	FLAYILFTR	HLA-A*33:03	-0.20225
	2328	LAYILFTRF	HLA-B*15:13, HLA-B*58:01	<b>0.11285</b>
	2329	AYILFTRFF	HLA-A*24:02, HLA-A*24:07	<b>0.28861</b>
	2331	ILFTRFFYV	HLA-A*02:01, HLA-A*02:03	-0.3399
	2332	LFTRFFYVL	HLA-A*24:02, HLA-A*24:07	-0.3573
	2334	TRFFYVLGL	HLA-A*11:01, HLA-B*15:02, HLA-B*15:21, HLA-B*38:02	<b>0.18696</b>
	2345	IMQLFFSYF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02	<b>0.06167</b>
	2347	QLFFSYFAV	HLA-A*02:01, HLA-A*02:03	<b>0.25374</b>
	2354	AVHFISNSW	HLA-B*58:01	-0.14475
	2356	HFISNSWLM	HLA-A*24:02, HLA-A*24:07, HLA-B*58:01	<b>0.03257</b>
	2357	FISNSWLMW	HLA-B*58:01	-0.10306
	2362	WLMWLIINL	HLA-A*02:01, HLA-A*02:03	-0.16383
	2363	LMWLIINLV	HLA-A*02:01	<b>0.02119</b>
	2371	VQMAPISAM	HLA-B*15:02, HLA-B*15:21	<b>0.04528</b>
	2372	QMAPISAMV	HLA-A*02:01, HLA-A*02:03	<b>0.14228</b>

	2381	RMYIFFASF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*38:02, HLA-B*58:01	<b>0.08761</b>
	2382	MYIFFASFY	HLA-A*24:02	<b>0.06244</b>
	2383	YIFFASFYY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	<b>0.3343</b>
	2384	IFFASFYYV	HLA-A*24:07, HLA-A*33:03	<b>0.11769</b>
	2385	FFASFYYVW	HLA-A*24:02, HLA-A*24:07	<b>0.08328</b>
	2391	YVWKSYPHV	HLA-A*02:01	-0.15127
	2405	SSTCMMCCK	HLA-A*11:01	-0.07566
	2406	STCMMCCKR	HLA-A*33:03	<b>0.12576</b>
	2408	CMMCCKRNR	HLA-A*33:03	<b>0.02228</b>
	2441	KGFCCKLHNW	HLA-B*58:01	-0.14675
	2455	DTFCAGSTF	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	-0.11221
	2466	DEVARDLSL	HLA-B*18:01, HLA-B*38:02	<b>0.03366</b>
	2468	VARDLSLQF	HLA-B*15:02, HLA-B*15:13, HLA-B*35:05, HLA-B*58:01	-0.02137
	2487	SYIVDSVTV	HLA-A*24:07	-0.48075
	2488	YIVDSVTVK	HLA-A*34:01	<b>0.02392</b>
	2498	GSIHLYFDK	HLA-A*11:01	<b>0.0636</b>
	2512	YERHLSLHF	HLA-B*18:01, HLA-B*44:03	-0.13656
	2518	SHFVNLDNL	HLA-B*38:02	<b>0.19909</b>
	2519	HFNLDNLR	HLA-A*33:03	-0.04273
	2551	SSAKSASVY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.11506</b>
	2552	SAKSASVYY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	-0.0981
	2568	ILLDQALV	HLA-A*02:01	-0.07971
	2589	MFDAYVNTF	HLA-A*24:02, HLA-A*24:07, HLA-B*35:05	<b>0.11817</b>
	2593	YVNTFSSTF	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.22019</b>
	2595	NTFSSTFNV	HLA-A*34:01	-0.19434
	2597	FSSTFNVP	HLA-B*15:21, HLA-B*35:05	<b>0.08367</b>
	2599	STFNVPMEK	HLA-A*11:01, HLA-A*33:03, HLA-A*34:01	<b>0.09901</b>
	2607	KLKTLVATA	HLA-A*02:03	-0.08019
	2613	ATAEAEELAK	HLA-A*11:01	<b>0.0548</b>
	2617	AELAKNVSL	HLA-B*44:03	-0.03902
	2628	VLSTFISAA	HLA-A*02:03	<b>0.29793</b>
	2629	LSTFISAAR	HLA-A*33:03, HLA-A*34:01	-0.21317
	2646	ETKDVVECL	HLA-A*34:01	-0.08793
	2671	NYMLTYNKKV	HLA-A*24:02, HLA-A*24:07	<b>0.1614</b>
	2704	KSHNIALIW	HLA-B*58:01	<b>0.09873</b>
	2718	MSLSEQLRK	HLA-A*11:01	-0.2627
	2748	QVVNVVTTK	HLA-A*11:01, HLA-A*34:01	<b>0.236</b>

	2771	QLIKVTLVF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.08004</b>
	2778	VFLFVAAIF	HLA-A*24:02, HLA-A*24:07	<b>0.26401</b>
	2779	FLFVAAIFY	HLA-B*15:02, HLA-B*15:21	-0.21168
	2781	FVAAIFYLI	HLA-A*02:01	<b>0.09674</b>
	2784	AIFYLITPV	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01	<b>0.05282</b>
	2786	FYLITPVHV	HLA-A*24:02, HLA-A*24:07	-0.05505
	2787	YLITPVHVM	HLA-A*02:01, HLA-A*02:03, HLA-B*15:02, HLA-B*15:21	<b>0.28124</b>
	2789	ITPVHVMSK	HLA-A*11:01	<b>0.43221</b>
	2793	HVMSKHTDF	HLA-B*15:02, HLA-B*15:21	-0.07818
	2797	KHTDFSSEI	HLA-B*38:02	<b>0.1586</b>
	2801	FSSEIIGYK	HLA-A*11:01, HLA-A*34:01	<b>0.15656</b>
	2821	STDTCFANK	HLA-A*11:01	<b>0.14212</b>
	2832	DFDTWFSQR	HLA-A*33:03	-0.13194
	2875	TTNGDFLHF	HLA-B*15:13, HLA-B*58:01	-0.07941
	2883	FLPRVFSAV	HLA-A*02:01, HLA-A*02:03	-0.15483
	2888	FSAVGNICY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	-0.08512
	2896	YTPSKLIEY	HLA-A*34:01	-0.13343
	2900	KLIEYDFA	HLA-A*02:01	-0.11782
	2914	LAAECTIFK	HLA-A*11:01	-0.28981
	2936	NVLEGSVAY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	-0.1059
	2946	SLRPDTRYV	HLA-A*02:03	<b>0.0827</b>
	2959	SIIQFPNTY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:21	<b>0.24538</b>
	2970	GSRVVVTF	HLA-B*15:13, HLA-B*58:01	<b>0.22152</b>
	2976	TTFDSEYCR	HLA-A*11:01, HLA-A*33:03, HLA-A*34:01	<b>0.15864</b>
	3003	WVLNNDYYR	HLA-A*33:03	-0.21208
	3009	YYRSLPGVF	HLA-A*24:02, HLA-A*24:07	<b>0.23882</b>
	3012	SLPGVFCGV	HLA-A*02:01, HLA-A*02:03	<b>0.33033</b>
	3015	GVFCGVDAV	HLA-A*02:03	<b>0.00599</b>
	3025	LLTNMFTPL	HLA-A*02:01, HLA-A*02:03	<b>0.00758</b>
	3029	MFTPLIQPI	HLA-A*24:02, HLA-A*24:07	<b>0.0579</b>
	3053	AIVVTCLAY	HLA-B*15:02, HLA-B*15:21	-0.17322
	3059	LAYYFMRFR	HLA-A*33:03	-0.30428
	3060	AYYFMRFR	HLA-A*33:03	-0.0587
	3071	GEYSHVAF	HLA-B*15:02, HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.12439
	3074	SHVAFNTL	HLA-B*38:02	<b>0.24313</b>
	3075	HVAFNTLL	HLA-A*34:01	-0.26543
	3076	VVAFNTLLF	HLA-A*24:07	<b>0.27821</b>
	3082	LLFLMSFTV	HLA-A*02:01, HLA-A*02:03	-0.07943
	3085	LMSFTVLCL	HLA-A*02:01	<b>0.13402</b>



	3088	FTVLCLTPV	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01	-0.34574
	3089	TVLCLTPVY	HLA-B*15:21, HLA-B*35:05	-0.13812
	3099	FLPGVYSVI	HLA-A*02:01, HLA-A*02:03	-0.33779
	3100	LPGVYSVIY	HLA-B*35:05	<b>0.29512</b>
	3102	GVYSVIYLY	HLA-A*11:01, HLA-A*34:01, HLA-B*58:01	<b>0.05586</b>
	3103	VYSVIYLYL	HLA-A*24:02, HLA-A*24:07	<b>0.02998</b>
	3105	SVIYLYLTF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13	<b>0.13713</b>
	3107	IYLYLTFYL	HLA-A*24:02, HLA-A*24:07	-0.15716
	3113	FYLTNDVSF	HLA-A*24:02, HLA-A*24:07	-0.21463
	3114	YLTNDVSFL	HLA-A*02:01, HLA-A*02:03	-0.26262
	3119	VSFLAHIQW	HLA-B*58:01	<b>0.08425</b>
	3121	FLAHIQWMV	HLA-A*02:01, HLA-A*02:03	<b>0.2064</b>
	3129	VMFTPLVPF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.10163</b>
	3135	VPFWITIAY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	-0.05933
	3137	FWITIAYII	HLA-A*24:02, HLA-A*24:07	<b>0.08626</b>
	3146	CISTKHFYW	HLA-B*58:01	<b>0.30988</b>
	3147	ISTKHFYWF	HLA-A*24:02, HLA-A*24:07, HLA-B*58:01	<b>0.14443</b>
	3148	STKHFYWFF	HLA-A*24:02, HLA-A*24:07	<b>0.00629</b>
	3151	HFYWFFSNY	HLA-A*33:03, HLA-A*34:01, HLA-B*18:01	-0.18993
	3152	FYWFFSNYL	HLA-A*24:02, HLA-A*24:07	-0.05002
	3153	YWFFSNYLK	HLA-A*11:01, HLA-A*33:03	-0.0549
	3154	WFFSNYLKR	HLA-A*33:03	<b>0.34464</b>
	3158	NYLKRRVVF	HLA-A*24:02, HLA-A*24:07	<b>0.2888</b>
	3163	RVVFNGVSF	HLA-B*15:02, HLA-B*15:21	-0.17841
	3174	FEEAALCTF	HLA-B*18:01, HLA-B*44:03	-0.01434
	3178	ALCTFLLNK	HLA-A*11:01	<b>0.24386</b>
	3182	FLLNKEMYL	HLA-A*02:01, HLA-A*02:03	<b>0.09072</b>
	3183	LLNKEMYLK	HLA-A*11:01	-0.25542
	3198	LPLTQYNRY	HLA-B*35:05	-0.2965
	3201	TQYNRYLAL	HLA-B*38:02	<b>0.05676</b>
	3205	RYLALYNKY	HLA-A*24:02, HLA-A*24:07	<b>0.26255</b>
	3207	LALYNKYKY	HLA-B*35:05	-0.02843
	3218	GAMDTTSYR	HLA-A*11:01, HLA-A*33:03, HLA-A*34:01	<b>0.24273</b>
	3225	YREAACCHL	HLA-B*38:02	<b>0.07994</b>
	3232	HLAKALNDF	HLA-B*15:02, HLA-B*15:21	<b>0.0999</b>
	3248	LYQPPQTSI	HLA-A*24:02, HLA-A*24:07	<b>0.30368</b>
	3259	AVLQSGFRK	HLA-A*11:01	<b>0.00581</b>
	3267	KMAFP SGKV	HLA-A*02:03	-0.05604
	3285	GTTTLNGLW	HLA-B*58:01	<b>0.06748</b>

	3308	SEDMLNPNY	HLA-B*18:01, HLA-B*44:03	<b>0.24122</b>
	3311	MLNPNYEDL	HLA-A*02:03	<b>0.19857</b>
	3342	HSMQNCVLK	HLA-A*11:01	<b>0.10269</b>
	3359	KTPKYKFVR	HLA-A*33:03	<b>0.04133</b>
	3372	QTFSVLACY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*58:01	-0.06765
	3390	CAMRPNFTI	HLA-B*58:01	<b>0.19601</b>
	3402	FLNGSCGSV	HLA-A*02:01, HLA-A*02:03	-0.23637
	3419	VSFCYMHMHM	HLA-B*58:01	<b>0.10982</b>
	3439	LEGNFYGPF	HLA-B*18:01, HLA-B*44:03	-0.23124
	3442	NFYGPFVDR	HLA-A*33:03	-0.07718
	3462	ITVNVLAWL	HLA-B*58:01	<b>0.16015</b>
	3463	TVNVLAWLY	HLA-A*11:01	<b>0.25621</b>
	3466	VLAWLYAAV	HLA-A*02:01, HLA-A*02:03	<b>0.23304</b>
	3472	AAVINGDRW	HLA-B*58:01	<b>0.05863</b>
	3481	FLNRFTTTL	HLA-A*02:01, HLA-A*02:03	-0.05892
	3507	DHVDILGPL	HLA-B*38:02	<b>0.3346</b>
	3523	VLDMCASLK	HLA-A*11:01	-0.32096
	3541	RTILGSALL	HLA-B*58:01	<b>0.45285</b>
	3548	LLEDEFTPF	HLA-B*15:02, HLA-B*15:21	<b>0.10642</b>
	3551	DEFTPFDVV	HLA-B*18:01	-0.14748
	3552	EFTPFDVVR	HLA-A*33:03	-0.26551
	3564	GVTFSQSAVK	HLA-A*11:01	<b>0.2541</b>
	3565	VTFQSAVKR	HLA-A*33:03	-0.13471
	3573	RTIKGTHHW	HLA-A*24:07, HLA-B*15:13, HLA-B*58:01	<b>0.11065</b>
	3578	THHWLLTI	HLA-B*38:02	-0.41802
	3579	HHWLLTIL	HLA-B*38:02	<b>0.15845</b>
	3582	LLLTILTSL	HLA-A*02:01, HLA-A*02:03	<b>0.21385</b>
	3586	ILTSLLVLV	HLA-A*02:01, HLA-A*02:03	-0.05472
	3591	LVLVQSTQW	HLA-B*58:01	-0.0808
	3595	QSTQWSLFF	HLA-B*58:01	-0.2325
	3596	STQWSLFFF	HLA-A*24:07	-0.02691
	3597	TQWSLFFFL	HLA-A*02:01, HLA-B*38:02	<b>0.0593</b>
	3605	LYENAFLPF	HLA-A*24:02, HLA-A*24:07	-0.27148
	3618	IAMSAFAMM	HLA-B*35:05	<b>0.02816</b>
	3620	MSAFAMMFV	HLA-A*34:01	<b>0.09905</b>
	3621	SAFAMMFVK	HLA-A*11:01	<b>0.01168</b>
	3638	FLLPSLATV	HLA-A*02:01, HLA-A*02:03	-0.08907
	3640	LPSLATVAY	HLA-B*15:02, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	<b>0.35609</b>
	3645	TVAYFNMVY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:21,	-0.01723

			HLA-B*35:05	
	3652	VYMPASWVM	HLA-A*24:02, HLA-A*24:07	-0.25896
	3654	MPASWVMRI	HLA-B*35:05	-0.39659
	3657	SWVMRIMTW	HLA-A*24:02, HLA-A*24:07	-0.1867
	3661	RIMTWLDMV	HLA-A*02:01, HLA-A*02:03	-0.12088
	3671	TSLSGFKLK	HLA-A*11:01	<b>0.07442</b>
	3677	KLKDCVMYA	HLA-A*02:03	-0.1898
	3683	MYASAVVLL	HLA-A*24:02, HLA-A*24:07	<b>0.07782</b>
	3684	YASAVVLLI	HLA-B*58:01	-0.12397
	3692	ILMTARTVY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.05113
	3709	TLMNVLTIV	HLA-A*02:01, HLA-A*02:03	-0.07023
	3710	LMNVLTIVY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05 HLA-B*58:01	-0.01717
	3731	SMWALIISV	HLA-A*02:01, HLA-A*02:03, HLA-B*38:02	-0.43574
	3735	LIISVTSNY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.2513</b>
	3752	FLARGIVFM	HLA-A*02:01, HLA-A*02:03	-0.13454
	3762	VEYCPIFFI	HLA-B*44:03	-0.0765
	3774	TLQCIMLVY	HLA-B*15:21	-0.06755
	3779	MLVYCFLGY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.16192
	3791	CYFGLFCLL	HLA-A*24:02, HLA-A*24:07	-0.16073
	3811	DYLVSTQEF	HLA-A*24:02	-0.15508
	3819	FRYMNSQGL	HLA-B*38:02	-0.25158
	3838	KLNIKLLGV	HLA-A*02:01, HLA-A*02:03	-0.38114
	3870	VLLSVLQQL	HLA-A*02:01	<b>0.007</b>
	3879	RVESSSKLW	HLA-B*58:01	-0.4958
	3885	KLWAQCQVL	HLA-A*02:01, HLA-A*02:03	<b>0.1065</b>
	3898	LLAKDTTEA	HLA-A*02:03	-0.19245
	3899	LAKDTTEAF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.02118
	3905	EAFEKMOVSL	HLA-A*34:01	<b>0.15781</b>
	3909	KMVSLLSVL	HLA-A*02:01, HLA-A*02:03	-0.04845
	3912	SLLSVLLSM	HLA-A*02:01	<b>0.24061</b>
	3945	SEFSSLPSY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*44:03	<b>0.12602</b>
	3948	SSLPSYAAF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.22896
	3982	SLNVAKSEF	HLA-B*15:02, HLA-B*15:21	-0.07037
	3988	SEFDRDAAM	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.12288
	4000	LEKMADQAM	HLA-B*18:01	-0.0765
	4003	MADQAMTQM	HLA-B*35:05	-0.07746
	4008	MTQMYKQAR	HLA-A*33:03	<b>0.1801</b>

	4027	AMQTMLFTM	HLA-A*02:01	<b>0.20414</b>
	4028	MQTMLFTML	HLA-B*38:02	-0.21401
	4029	QTMLFTMLR	HLA-A*11:01, HLA-A*33:03 HLA-A*34:01	-0.37437
	4030	TMLFTMLRK	HLA-A*11:01	<b>0.02386</b>
	4031	MLFTMLRKL	HLA-A*02:01, HLA-A*02:03	-0.19828
	4043	ALNNIINNA	HLA-A*02:03	-0.23625
	4071	VVIPDYNTY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.01197
	4072	VIPDYNTYK	HLA-A*11:01	<b>0.16112</b>
	4086	TTFTYASAL	HLA-A*34:01	<b>0.03347</b>
	4087	TFTYASALW	HLA-A*24:02, HLA-A*24:07	<b>0.14013</b>
	4089	TYASALWEI	HLA-A*24:02, HLA-A*24:07	<b>0.06014</b>
	4093	ALWEIQQVV	HLA-A*02:01, HLA-A*02:03	-0.04249
	4138	LQNNELSPV	HLA-A*02:03	-0.2515
	4167	ALAYYNTTK	HLA-A*11:01	-0.15801
	4182	ALLSDLQDL	HLA-A*02:01	<b>0.25478</b>
	4184	LSDLQDLKW	HLA-B*58:01	<b>0.14399</b>
	4186	DLQDLKWAR	HLA-A*33:03	<b>0.19412</b>
	4189	DLKWARFPK	HLA-A*33:03	<b>0.1602</b>
	4197	KSDGTGTIY	HLA-B*58:01	<b>0.03212</b>
	4206	TELEPPCRF	HLA-B*18:01, HLA-B*44:03	<b>0.17636</b>
	4228	YFIKGLNNL	HLA-A*24:02, HLA-A*24:07	-0.06252
	4260	PANSTVLSF	HLA-B*15:13	-0.1653
	4263	STVLSFAF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.15992</b>
	4265	VLSFCAFAV	HLA-A*02:01	-0.19793
	4271	FAVDAAKAY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	<b>0.03414</b>
	4272	AVDAAKAYK	HLA-A*11:01	-0.34838
	4282	YLASGGQPI	HLA-A*02:01, HLA-A*02:03	<b>0.03976</b>
	4363	TLKNTVCTV	HLA-A*02:03	<b>0.21633</b>
	4401	RVCVSAAR	HLA-A*33:03	<b>0.28943</b>
	4424	RAFDIYNDK	HLA-A*11:01	-0.12238
	4428	IYNDKVAGF	HLA-A*24:02, HLA-A*24:07	<b>0.30199</b>
	4455	NLIDSYFVV	HLA-A*02:01, HLA-A*02:03	-0.19751
	4456	LIDSYFVVK	HLA-A*11:01	<b>0.11288</b>
	4460	YFVVKRHTF	HLA-A*24:02, HLA-A*24:07	-0.0823
	4472	QHEETIYNL	HLA-B*38:02	-0.19232
	4473	HEETIYNLL	HLA-B*18:01, HLA-B*38:02	-0.09417
	4479	NLLKDCPAV	HLA-A*02:01	-0.26518

	4484	CPAVAKHDF	HLA-B*35:05	<b>0.28136</b>
	4486	AVAKHDFFK	HLA-A*11:01	<b>0.01505</b>
	4487	VAKHDFFKF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:13	-0.03358
	4501	MVPHISRQR	HLA-A*33:03	-0.09719
	4513	YTMADLVYA	HLA-A*02:01	-0.0723
	4514	TMADLVYAL	HLA-A*02:01	-0.41653
	4514	TMADLVYAL	HLA-A*02:03, HLA-A*34:01, HLA-B*38:02	<b>0.14139</b>
	4515	MADLVYALR	HLA-A*33:03	-0.10693
	4532	TLKEILVTY	HLA-B*15:02, HLA-B*15:21	<b>0.19394</b>
	4557	VENPDILRV	HLA-B*44:03	-0.21888
	4580	TVQFCDAMR	HLA-A*33:03	<b>0.37218</b>
	4627	SYSSLMPI	HLA-A*24:02, HLA-A*24:07	<b>0.10786</b>
	4628	YSSLMPIL	HLA-A*24:02	<b>0.17082</b>
	4644	AESHVDTDL	HLA-B*44:03	-0.0358
	4656	YIKWDLKY	HLA-B*15:02, HLA-B*15:21	<b>0.07068</b>
	4672	KLFDYFKY	HLA-A*11:01, HLA-B*15:02, HLA-B*15:21	<b>0.01651</b>
	4677	YFKYWDQTY	HLA-B*15:02	-0.127
	4685	YHPNCVNCL	HLA-B*38:02	<b>0.10344</b>
	4698	ILHCANFNV	HLA-A*02:01, HLA-A*02:03	<b>0.01828</b>
	4699	LHCANFNVL	HLA-B*38:02	-0.36257
	4712	FPPTSFGPL	HLA-B*35:05	-0.10238
	4715	TSFGPLVRK	HLA-A*11:01	-0.38391
	4723	KIFVDGVPF	HLA-B*15:02	<b>0.29328</b>
	4725	FVDGVPFVV	HLA-A*02:01	-0.26109
	4729	VPFVVSTGY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	<b>0.23144</b>
	4731	FVVSTGYHF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.05806
	4732	VVSTGYHFR	HLA-A*11:01, HLA-A*33:03	<b>0.03204</b>
	4751	NLHSSRLSF	HLA-B*15:02, HLA-B*15:21	-0.06415
	4757	LSFKELLY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.08254</b>
	4763	LVYAADPAM	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.04305
	4771	MHAASGNLL	HLA-B*38:02	-0.1429
	4788	SVAALTNNV	HLA-A*34:01	-0.63928
	4790	AALTNNVAF	HLA-B*35:05	<b>0.09498</b>
	4800	TVKPGNFNK	HLA-A*11:01, HLA-A*33:03	<b>0.0318</b>
	4805	NFNKDFYDF	HLA-A*24:02	-0.10997
	4809	DFYDFAVSK	HLA-A*33:03	-0.13601
	4813	FAVSKGFFK	HLA-A*11:01	<b>0.09674</b>
	4840	AISDYDYR	HLA-A*11:01, HLA-A*33:03	-0.32142
	4846	YYRYNLPTM	HLA-A*24:02	-0.25007

	4858	RQLLFVVEV	HLA-A*02:01	-0.19953
	4862	FVVEVVDKY	HLA-A*34:01, HLA-B*15:21	<b>0.18748</b>
	4891	KSAGFPFNK	HLA-A*11:01	-0.40603
	4892	SAGFPFNKW	HLA-B*58:01	<b>0.02304</b>
	4904	RLYYDSMSY	HLA-A*11:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.06159</b>
	4913	EDQDALFAY	HLA-B*18:01	-0.25565
	4916	DALFAYTKR	HLA-A*33:03	<b>0.25237</b>
	4925	NVIPTITQM	HLA-A*34:01	<b>0.07774</b>
	4952	SICSTMTNR	HLA-A*33:03	<b>0.22046</b>
	4957	MTNRQFHQK	HLA-A*11:01, HLA-A*33:03	-0.28249
	4960	RQFHQKLLK	HLA-A*11:01	-0.11496
	4966	LLKSIAATR	HLA-A*33:03	<b>0.04742</b>
	4976	ATVVIGTSK	HLA-A*11:01	-0.17157
	4977	TVVIGTSKF	HLA-B*15:13	<b>0.16115</b>
	4981	GTSKFYGGW	HLA-B*58:01	<b>0.19545</b>
	4984	KFYGGWHNM	HLA-A*24:02, HLA-A*24:07	<b>0.07155</b>
	4985	FYGGWHNML	HLA-A*24:02, HLA-A*24:07	-0.0292
	4992	MLKTVYSDV	HLA-A*02:03	-0.24633
	5000	VENPHLMGW	HLA-B*44:03	-0.20658
	5002	NPHLMGWDY	HLA-B*35:05	<b>0.1552</b>
	5004	HLMGWDYPK	HLA-A*11:01, HLA-A*33:03, HLA-A*34:01	<b>0.1053</b>
	5015	RAMPNMLRI	HLA-A*24:07, HLA-B*58:01	<b>0.19848</b>
	5021	LRIMASLVL	HLA-B*38:02	-0.1188
	5023	IMASLVLAR	HLA-A*33:03	-0.26388
	5024	MASLVLARK	HLA-A*11:01, HLA-A*33:03, HLA-A*34:01	<b>0.24141</b>
	5034	TTCCSLSHR	HLA-A*33:03	<b>0.07388</b>
	5037	CSLSHRFYR	HLA-A*11:01, HLA-A*33:03	-0.44407
	5045	RLANECAQV	HLA-A*02:01, HLA-A*02:03	<b>0.16358</b>
	5057	MVMCGGSLY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.12346
	5058	VMCGGSLYV	HLA-A*02:01, HLA-A*02:03	<b>0.00065</b>
	5072	SSGDATTAY	HLA-B*15:02, HLA-B*15:21	-0.42561
	5077	TTAYANSVF	HLA-B*15:13, HLA-B*15:21	-0.54507
	5079	AYANSVFNI	HLA-A*24:02, HLA-A*24:07	<b>0.1332</b>
	5083	SVFNICQAV	HLA-A*02:03, HLA-A*34:01	-0.02845
	5131	DFVNEFYAY	HLA-B*18:01	<b>0.32841</b>
	5132	FVNEFYAYL	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01	<b>0.25822</b>
	5138	AYLRKHFSM	HLA-A*24:02, HLA-A*24:07	<b>0.18095</b>
	5139	YLRKHFSMM	HLA-A*02:03, HLA-A*34:01, HLA-B*15:02, HLA-B*15:21	<b>0.24571</b>

	5149	LSDDAVVCF	HLA-B*58:01	<b>0.22816</b>
	5153	AVVCFNSTY	HLA-A*34:01, HLA-B*15:02 HLA-B*15:21	-0.0713
	5176	VLYYQNNVF	HLA-B*15:02, HLA-B*15:21	<b>0.06857</b>
	5177	LYYQNNVFM	HLA-A*24:02, HLA-A*24:07	<b>0.03544</b>
	5201	HEFCSQHTM	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.03852</b>
	5245	LMIERFVSL	HLA-A*02:01, HLA-A*02:03, HLA-B*15:02, HLA-B*15:21, HLA-B*38:02	-0.11314
	5247	IERFVSLAI	HLA-B*44:03	-0.21713
	5250	FVSLAIDAY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	<b>0.00813</b>
	5252	SLAIDAYPL	HLA-A*02:01	<b>0.06109</b>
	5254	AIDAYPLTK	HLA-A*11:01	-0.34359
	5266	QEYADVHL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.19168</b>
	5267	EYADVHLHY	HLA-A*24:02, HLA-A*24:07, HLA-A*33:03, HLA-A*34:01, HLA-B*18:01	<b>0.00446</b>
	5270	DVFHLYLQY	HLA-A*34:01, HLA-B*15:21	-0.12346
	5271	VFHLYLQYI	HLA-A*24:07	<b>0.09962</b>
	5273	HLYLQYIRK	HLA-A*11:01	<b>0.06065</b>
	5274	LYLQYIRKL	HLA-A*24:02, HLA-A*24:07	<b>0.2989</b>
	5289	HMLDMYSVM	HLA-B*15:02, HLA-B*15:21	-0.2824
	5290	MLDMYSVML	HLA-A*02:01	-0.162
	5298	LTNDNTSRY	HLA-A*34:01	-0.08221
	5307	WEPEFYEAM	HLA-B*18:01	<b>0.22547</b>
	5308	EPEFYEAMY	HLA-B*35:05	<b>0.17402</b>
	5322	LQAVGACVL	HLA-B*38:02	-0.0303
	5356	HVISTSHKL	HLA-A*34:01	<b>0.02312</b>
	5363	KLVLSVNPY	HLA-B*15:02, HLA-B*15:21	-0.13664
	5364	LVLVSNPYV	HLA-A*02:01	-0.0681
	5379	DVTDVTQLY	HLA-A*34:01	<b>0.10385</b>
	5385	QLYLGMSY	HLA-B*15:02, HLA-B*15:21	<b>0.20743</b>
	5391	MSYYCKSHK	HLA-A*11:01	-0.02267
	5396	KSHKPPISF	HLA-B*58:01	-0.00747
	5398	HKPPISFPL	HLA-B*38:02	-0.11279
	5454	KLFAAETLK	HLA-A*11:01	<b>0.34997</b>
	5462	KATEETFKL	HLA-B*58:01	-0.09616
	5464	TEETFKLSY	HLA-B*18:01, HLA-B*44:03	<b>0.00883</b>
	5466	ETFKLSYGI	HLA-A*34:01	<b>0.08282</b>
	5469	KLSYGIATV	HLA-A*02:01, HLA-A*02:03	<b>0.08282</b>
	5470	LSYGIATVR	HLA-A*33:03	<b>0.00758</b>
	5476	TVREVLSDR	HLA-A*33:03	-0.16766

	5478	REVLSDREL	HLA-B*44:03	<b>0.34667</b>
	5484	RELHLSWEV	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.17203</b>
	5515	KVQIGEYTF	HLA-A*24:02, HLA-A*24:07, HLA-B*58:01	<b>0.05271</b>
	5517	QIGEYTFEK	HLA-A*11:01	<b>0.2015</b>
	5526	GDYGDAVVY	HLA-B*44:03	<b>0.32183</b>
	5527	DYGDAVVYR	HLA-A*33:03	<b>0.11594</b>
	5532	VVYRGTTY	HLA-A*11:01, HLA-A*34:01 HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.21535
	5534	YRGTTYKL	HLA-B*38:02	<b>0.17878</b>
	5541	KLVNGDYFV	HLA-A*02:01, HLA-A*02:03	-0.00533
	5548	FVLTSHTVM	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.07451
	5562	TLVPQEHYV	HLA-A*02:01, HLA-A*02:03	-0.36401
	5568	HYVRITGLY	HLA-A*34:01	-0.04115
	5584	EFSSNVANY	HLA-A*34:01	-0.00647
	5586	SSNVANYQK	HLA-A*11:01	-0.07664
	5592	YQKVGMMQKY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	-0.11514
	5612	SHFAIGLAL	HLA-B*38:02	<b>0.18306</b>
	5614	FAIGLALYY	HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.07705</b>
	5618	LALYYPSAR	HLA-A*33:03	<b>0.17334</b>
	5619	ALYYPSARI	HLA-A*02:03	-0.02207
	5629	YTACSHAAV	HLA-A*02:03, HLA-A*34:01	-0.00719
	5635	AAVDALCEK	HLA-A*11:01	<b>0.10155</b>
	5670	KVNSTLEQY	HLA-B*58:01	<b>0.04077</b>
	5675	LEQYVFCTV	HLA-B*18:01, HLA-B*44:03	-0.01735
	5678	YVFCTVNAL	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01, HLA-B*15:02, HLA-B*15:21, HLA-B*35:05, HLA-B*38:02	<b>0.24593</b>
	5688	ETTADIVVF	HLA-A*34:01	-0.021
	5697	DEISMATNY	HLA-B*18:01, HLA-B*44:03	<b>0.02065</b>
	5699	ISMATNYDL	HLA-B*58:01	-0.04876
	5713	RLRAKHVYV	HLA-B*15:02, HLA-B*15:21	<b>0.11471</b>
	5720	VYIGDPAQL	HLA-A*24:02, HLA-A*24:07	-0.30937
	5740	LEPEYFNSV	HLA-B*18:01	<b>0.13524</b>
	5753	KTIGPDMFL	HLA-B*58:01	<b>0.11933</b>
	5758	DMFLGTCRR	HLA-A*33:03	<b>0.10452</b>
	5758	DMFLGTCRR	HLA-A*34:01	<b>0.24348</b>
	5770	EIVDTVSAAL	HLA-A*34:01	<b>0.06715</b>
	5771	IVDTVSAALV	HLA-A*02:01	-0.21402
	5792	AQCFKMFYK	HLA-A*11:01	-0.20445
	5826	NPAWRKAVF	HLA-B*35:05	-0.1361



	5923	LQAENVGTGL	HLA-A*02:01, HLA-A*02:03, HLA-B*38:02	<b>0.1545</b>
	5930	GLFKDCSKV	HLA-A*02:01, HLA-A*02:03	-0.1206
	5963	CVDIPGIPK	HLA-A*11:01	-0.12036
	5973	MTYRRLISM	HLA-A*34:01	-0.17386
	5977	RLISMMGFK	HLA-A*11:01	<b>0.22623</b>
	5980	SMMGFKMNY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.11462
	5988	YQVNGYPNM	HLA-B*15:02, HLA-B*15:21, HLA-B*38:02	<b>0.30201</b>
	6014	DVEGCHATR	HLA-A*33:03	<b>0.30187</b>
	6023	EAVGTNLPL	HLA-A*34:01	<b>0.03963</b>
	6031	LQLGFSTGV	HLA-A*02:01, HLA-A*02:03	<b>0.27719</b>
	6041	LVAVPTGYV	HLA-A*34:01	-0.33127
	6068	DQFKHLIPL	HLA-B*38:02	-0.30575
	6077	MYKGLPWNV	HLA-A*24:02	-0.27886
	6093	MLSDTLKNL	HLA-A*02:01, HLA-A*02:03	<b>0.17009</b>
	6100	NLSDRVVFV	HLA-A*02:01, HLA-A*02:03	<b>0.01931</b>
	6106	VFVLWAHGF	HLA-A*24:02, HLA-A*24:07	<b>0.10788</b>
	6108	VLWAHGFEL	HLA-A*02:01	<b>0.33197</b>
	6114	FELTSMKYF	HLA-B*18:01, HLA-B*44:03	-0.10515
	6116	LTSMKYFVK	HLA-A*11:01	-0.11765
	6121	YFVKIGPER	HLA-A*33:03	<b>0.08418</b>
	6143	TASDTYACW	HLA-B*58:01	<b>0.22081</b>
	6147	TYACWHHSI	HLA-A*24:02, HLA-A*24:07	<b>0.23373</b>
	6153	HSIGFDYVY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05, HLA-B*58:01	-0.21438
	6156	GFDYVYNPF	HLA-A*24:02	<b>0.01657</b>
	6158	DYVYNPFMI	HLA-A*24:02, HLA-A*24:07	<b>0.56221</b>
	6169	QQWGFTGNL	HLA-B*38:02	<b>0.28654</b>
	6194	ASCDAIMTR	HLA-A*11:01	-0.01991
	6205	AVHECFVKR	HLA-A*33:03	-0.13895
	6237	QHMOVVKAAL	HLA-B*38:02	<b>0.14003</b>
	6242	KAALLADKF	HLA-B*58:01	-0.29399
	6244	ALLADKFPV	HLA-A*02:01	-0.34559
	6245	LLADKFPVL	HLA-A*02:01, HLA-A*02:03	<b>0.16567</b>
	6283	KAYKIEELF	HLA-B*58:01	<b>0.1449</b>
	6288	EELFYSYAT	HLA-B*18:01	<b>0.09637</b>
	6292	YSYATHSDK	HLA-A*11:01	<b>0.06738</b>
	6300	KFTDGVCLF	HLA-A*24:02, HLA-A*24:07	<b>0.11058</b>
	6301	FTDGVCLFW	HLA-B*58:01	<b>0.10048</b>
	6320	SIVCRFDTR	HLA-A*33:03	<b>0.17586</b>

	6342	SLYVKNHAF	HLA-B*15:02, HLA-B*15:21	<b>0.0538</b>
	6352	TPAFDKSAF	HLA-B*35:05	<b>0.02527</b>
	6360	FVNLKQLPF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.10244</b>
	6417	LYLDAYNMM	HLA-A*24:02, HLA-A*24:07	<b>0.31503</b>
	6418	YLDAYNMMI	HLA-A*02:01, HLA-A*02:03	-0.27361
	6424	MMISAGFSL	HLA-A*02:01, HLA-A*02:03, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*38:02	<b>0.38891</b>
	6425	MISAGFSLW	HLA-B*15:13, HLA-B*58:01	<b>0.08916</b>
	6428	AGFSLWVYK	HLA-A*11:01	<b>0.29717</b>
	6433	WVYKQFDY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.06486</b>
	6436	KQFDYTNLW	HLA-A*24:02, HLA-A*24:07, HLA-B*44:03, HLA-B*58:01	<b>0.00709</b>
	6439	DTYNLWNTF	HLA-A*34:01, HLA-B*15:13	-0.00081
	6441	YNLWNTFTR	HLA-A*33:03	-0.1794
	6453	LENVAFNVV	HLA-B*18:01, HLA-B*44:03	<b>0.0664</b>
	6455	NVAFNVVNK	HLA-A*34:01	<b>0.04889</b>
	6477	IINNTVYTK	HLA-A*11:01	<b>0.0645</b>
	6494	FENKTLTPV	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.08616</b>
	6498	TTLPVNVAF	HLA-A*24:07, HLA-B*15:13, HLA-B*35:05, HLA-B*58:01	-0.24291
	6500	LPVNVAFEL	HLA-B*35:05, HLA-B*38:02	<b>0.19663</b>
	6504	VAFELWAKR	HLA-A*33:03	-0.16048
	6531	AANTVIWDY	HLA-B*58:01	<b>0.08778</b>
	6533	NTVIWDYKR	HLA-A*33:03	<b>0.00704</b>
	6553	CSMTDIAKK	HLA-A*11:01	-0.05636
	6564	ETICAPLTV	HLA-A*34:01	-0.06071
	6621	EAVKTQFNY	HLA-A*34:01, HLA-B*35:05	-0.0084
	6624	KTQFNYYKK	HLA-A*11:01	<b>0.13481</b>
	6652	QEFKPRSQM	HLA-B*18:01	<b>0.02869</b>
	6670	DEFIERYKL	HLA-B*18:01	-0.02964
	6673	IERYKLEGY	HLA-B*18:01	<b>0.00481</b>
	6683	FEHIVYGDF	HLA-B*18:01, HLA-B*44:03	-0.19311
	6694	SQLGGLHLL	HLA-A*02:01, HLA-B*38:02	<b>0.09274</b>
	6700	HLLIGLAKR	HLA-A*33:03	-0.21392
	6708	RFKESPFEL	HLA-A*24:02, HLA-A*24:07	<b>0.08919</b>
	6714	FELEDFIPM	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	<b>0.16174</b>
	6748	LLDDFVEI	HLA-A*02:01, HLA-A*02:03	-0.00382
	6749	LLDDFVEII	HLA-A*02:01	-0.07934
	6775	YTEISFMLW	HLA-B*58:01	<b>0.0762</b>
	6781	MLWCKDGHV	HLA-A*02:01, HLA-A*02:03	-0.30072
	6800	QAWQPGVAM	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.00467

	6805	GVAMPNLYK	HLA-A*11:01	-0.26781
	6806	VAMPNLYKM	HLA-B*58:01	-0.26781
	6808	MPNLYKMQR	HLA-A*33:03	<b>0.24316</b>
	6813	KMQRMLEK	HLA-A*11:01	<b>0.01876</b>
	6819	LEKCDLQNY	HLA-B*18:01, HLA-B*44:03	<b>0.37101</b>
	6843	KYTQLCQYL	HLA-A*24:02, HLA-A*24:07	-0.06866
	6848	CQYLNTLTL	HLA-B*38:02	<b>0.00131</b>
	6850	YLNTLT LAV	HLA-A*02:01, HLA-A*02:03	-0.38452
	6854	LTLAVPYNM	HLA-B*58:01	<b>0.02327</b>
	6855	TLAVPYNMR	HLA-A*33:03	<b>0.03262</b>
	6885	WLPTGTLLV	HLA-A*02:01, HLA-A*02:03	-0.00472
	6900	FVSDADSTL	HLA-A*34:01	-0.29512
	6907	TLIGDCATV	HLA-A*02:01, HLA-A*02:03	-0.29512
	6913	ATVHTANKW	HLA-B*58:01	-0.02024
	6941	DSKEGFFTY	HLA-B*18:01	-0.11632
	6969	TEHSWNADL	HLA-B*38:02, HLA-B*44:03	-0.03916
	6971	HSWNADLYK	HLA-A*11:01	<b>0.02621</b>
	6978	YKLMGHFAW	HLA-B*18:01	-0.21969
	6979	KLMGHFAWW	HLA-B*58:01	<b>0.06492</b>
	6982	GHFAWWTAF	HLA-B*38:02	<b>0.22651</b>
	7000	EAFLIGCNY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	<b>0.07781</b>
	7013	REQIDGYVM	HLA-B*44:03	<b>0.0822</b>
	7019	YVMHANYIF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.12171
	7020	VMHANYIFW	HLA-A*24:07, HLA-B*58:01	-0.25594
	7021	MHANYIFWR	HLA-A*33:03	-0.02099
	7026	IFWRNTNPI	HLA-A*24:02, HLA-A*24:07	<b>0.00222</b>
	7028	WRNTNPIQL	HLA-B*38:02	-0.41327
	7034	IQLSSYSLF	HLA-A*24:02, HLA-A*24:07	-0.11819
	7039	YSLFDMSKF	HLA-B*15:13	<b>0.00966</b>
	7039	YSLFDMSKF	HLA-B*58:01	-0.17256
	7044	MSKFPLKLR	HLA-A*33:03	-0.11517
ORF2 (S)	1	FVFLVLLPL	HLA-A*02:01, HLA-A*34:01	<b>0.04076</b>
	23	LPPAYTNSF	HLA-B*35:05	-0.03341
	35	VYYPDKVFR	HLA-A*33:03	-0.09052
	55	LPFFSNVTW	HLA-B*15:13, HLA-B*35:05	<b>0.04613</b>
	83	LPFNDGVYF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	<b>0.11767</b>
	88	GVYFASTEK	HLA-A*11:01	<b>0.09023</b>

	143	YYHKNNKSW	HLA-A*24:02, HLA-A*24:07	-0.49755
	151	WMESEFRVY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	<b>0.14153</b>
	159	YSSANNCTF	HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.04954
	161	SANNCTFEY	HLA-A*11:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	<b>0.13273</b>
	166	TFEYVSQPF	HLA-A*24:02, HLA-A*24:07	-0.19099
	167	FEYVSQPFL	HLA-B*18:01, HLA-B*38:02, HLA-B*44:03	-0.17076
	191	FVFNIDGY	HLA-A*34:01, HLA-B*15:21	-0.0215
	192	VFNIDGYF	HLA-A*24:02	<b>0.10041</b>
	201	KIYSKHTPI	HLA-A*02:03	-0.32094
	235	TRFQTLAL	HLA-B*38:02	-0.0377
	239	TLLALHRSY	HLA-B*15:02, HLA-B*15:21	<b>0.00244</b>
	240	LLALHRSYL	HLA-A*02:03	-0.06002
	257	WTAGAAAYY	HLA-A*34:01, HLA-B*58:01	<b>0.15259</b>
	264	YYVGYLQPR	HLA-A*33:03	-0.07078
	268	YLQPRTFLL	HLA-A*02:01, HLA-A*02:03, HLA-A*24:02, HLA-A*24:07, HLA-B*38:02	<b>0.1305</b>
	301	TLKSFTVEK	HLA-A*11:01, HLA-A*33:03	<b>0.00741</b>
	311	IYQTSNFRV	HLA-A*24:02, HLA-A*24:07	-0.03669
	320	QPTESIVRF	HLA-B*35:05	<b>0.14261</b>
	338	GEVFNATRF	HLA-B*44:03	<b>0.22473</b>
	342	NATRFASVY	HLA-A*34:01, HLA-B*15:21	<b>0.10001</b>
	344	TRFASVYAW	HLA-B*38:02, HLA-B*44:03	-0.02513
	346	FASVYAWNR	HLA-A*33:03	<b>0.20423</b>
	348	SVYAWNRKR	HLA-A*33:03	<b>0.16546</b>
	360	CVADYSVLY	HLA-A*11:01, HLA-A*34:01, HLA-B*15:21	-0.09595
	365	SVLYNSASF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.23299
	368	YNSASFSTF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.18217
	369	NSASFSTFK	HLA-A*11:01	-0.09434
	371	ASFSTFKCY	HLA-B*15:02	-0.19397
	387	NDLCFTNVY	HLA-B*18:01	<b>0.11135</b>
	391	FTNVYADSF	HLA-B*15:13, HLA-B*58:01	-0.00527
	416	KIADYNYKL	HLA-A*02:01	-0.10379
	447	NYNYLYRLF	HLA-A*24:02	<b>0.0171</b>
	448	YNYLYRLFR	HLA-A*33:03	<b>0.0918</b>
	449	NYLYRLFRK	HLA-A*33:03	<b>0.16168</b>
	453	RLFRKSNLK	HLA-A*11:01	-0.28759
	457	KSNLKPFER	HLA-A*33:03	-0.0764
	463	FERDISTEI	HLA-B*44:03	<b>0.10425</b>

	488	YFPLQSYGF	HLA-A*24:02, HLA-A*24:07	-0.26661
	504	YQPYRVVVL	HLA-B*38:02	<b>0.1409</b>
	506	PYRVVLSF	HLA-A*24:02, HLA-A*24:07	<b>0.03138</b>
	553	ESNKKFLPF	HLA-B*15:02, HLA-B*15:13	-0.33474
	553	ESNKKFLPF	HLA-B*15:21	-0.33474
	558	FLPFQQFGR	HLA-A*33:03	<b>0.01096</b>
	567	DIADTTDAV	HLA-A*34:01	<b>0.15094</b>
	603	TSNQVAVLY	HLA-B*58:01	-0.01327
	624	HADQLTPTW	HLA-B*58:01	-0.0703
	627	QLTPTWRVY	HLA-B*15:02, HLA-B*15:21	<b>0.31555</b>
	634	VYSTGSNVF	HLA-A*24:02, HLA-A*24:07	-0.11871
	637	TGSNVFQTR	HLA-A*33:03	<b>0.01511</b>
	676	QTNSPRRAR	HLA-A*33:03	-0.06411
	686	VASQSIIAY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.0709
	688	SQSIIAYTM	HLA-B*38:02	<b>0.26621</b>
	690	SIIAYTMSL	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01, HLA-B*15:21, HLA-B*38:02	-0.12935
	698	LGAENSVAY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	<b>0.00912</b>
	711	IAIPTNFTI	HLA-A*24:02, HLA-A*24:07, HLA-B*15:13, HLA-B*58:01	<b>0.18523</b>
	713	IPTNFTISV	HLA-B*35:05	<b>0.17229</b>
	717	FTISVTTEI	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01	<b>0.04473</b>
	724	EILPVSMTK	HLA-A*11:01, HLA-A*34:01	-0.25581
	732	KTSVDCTMY	HLA-B*58:01	-0.11115
	733	TSVDCTMYI	HLA-B*58:01	-0.1306
	756	GSFCTQLNR	HLA-A*11:01	-0.10063
	761	QLNRALTGI	HLA-A*02:03	<b>0.1302</b>
	814	RSFIEDLLF	HLA-B*58:01	<b>0.27446</b>
	820	LLFNKVTLA	HLA-A*02:01, HLA-A*02:03	-0.11337
	826	TLADAGFIK	HLA-A*11:01	<b>0.28158</b>
	860	LPPLLTDEM	HLA-B*35:05	<b>0.0882</b>
	868	MIAQYTSAL	HLA-A*02:03, HLA-A*34:01, HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.18768
	877	LAGTITSGW	HLA-B*58:01	<b>0.09638</b>
	879	GTITSGWTF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:13, HLA-B*58:01	<b>0.16268</b>
	885	WTFGAGAAL	HLA-A*34:01, HLA-B*15:21	<b>0.19798</b>
	893	LQIPFAMQM	HLA-B*38:02	-0.03301
	895	IPFAMQMAY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	-0.32801
	897	FAMQMAYRF	HLA-B*15:13, HLA-B*35:05, HLA-B*58:01	-0.28061
	938	SSTASALGK	HLA-A*11:01	-0.06186

	974	SVLNDILSR	HLA-A*11:01	0.03075
	975	VLNDILSRL	HLA-A*02:01, HLA-A*02:03	0.03
	982	RLDKVEAEV	HLA-A*02:01	0.01617
	988	AEVQIDRLI	HLA-B*44:03	0.08452
	999	RLQSLQTYV	HLA-A*02:01, HLA-A*02:03, HLA-B*44:03	-0.29331
	1015	AEIRASANL	HLA-B*44:03	0.00689
	1019	ASANLAATK	HLA-A*11:01	0.08792
	1059	VVFLHVTYV	HLA-A*02:01, HLA-A*02:03, HLA-A*34:01	0.1278
	1061	FLHVTYVPA	HLA-A*02:03	0.11472
	1064	VTYVPAQEK	HLA-A*11:01	0.02711
	1094	FVSNQTHWF	HLA-B*15:1, HLA-B*15:21	0.16605
	1098	GTHWFVTQR	HLA-A*11:01, HLA-A*33:03	0.35133
	1112	QIITDNTF	HLA-B*15:02, HLA-B*15:21	0.15816
	1200	QELGKYEQY	HLA-B*18:01, HLA-B*44:03	-0.16616
	1205	YEQYIKWPW	HLA-B*18:01, HLA-B*44:03	0.06574
	1207	QYIKWPWYI	HLA-A*24:02, HLA-A*24:07	0.21624
	1208	YIKWPWYIW	HLA-B*58:01	0.42524
	1211	WPWYIWLGF	HLA-B*18:01, HLA-B*35:05	0.41673
	1219	FIAGLIAIV	HLA-A*02:01, HLA-A*02:03	0.27206
	1236	MTSCCCLK	HLA-A*11:01, HLA-A*33:03	-0.36816
ORF4	15	SVLLFLAFV	HLA-A*02:01	0.19022
	17	LLFLAFVVF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	0.2341
	19	FLAFVVFL	HLA-A*02:01, HLA-A*02:03	0.30188
	25	FLLVTLAIL	HLA-A*02:01	0.17608
	29	TLAILTALR	HLA-A*33:03	0.1989
	33	LTALRLCAY	HLA-B*15:02, HLA-B*15:21	0.01886
	49	SLVKPSFYV	HLA-A*02:01, HLA-A*02:03	-0.27349
	50	LVKPSFYVY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05	-0.11106
	60	RVKNLNSSR	HLA-A*33:03	
ORF5	14	KLLEQWNLV	HLA-A*02:01	0.18092
	25	FLFTWICL	HLA-A*02:01	0.35397
	28	LTWICLLQF	HLA-B*58:01	0.06584
	33	LLQFAYANR	HLA-A*33:03	0.14406
	36	FAYANRNRF	HLA-B*15:13	0.10537
	38	YANRNRFY	HLA-B*35:05	0.18472
	42	NRFLYIIL	HLA-B*38:02	0.13484
	46	YIILIFLW	HLA-B*58:01	0.033
	49	KLIFLWLLW	HLA-B*58:01	0.34287
	53	LWLLWPVTL	HLA-A*24:02, HLA-A*24:07	0.24802
	54	WLLWPVTLA	HLA-A*02:01	0.27363

	56	LWPVTLACF	HLA-A*24:02, HLA-A*24:07	<b>0.06682</b>
	64	FVLAAYRI	HLA-A*02:01	<b>0.13985</b>
	66	LAAYRINW	HLA-B*58:01	<b>0.2079</b>
	83	MACLVGLMW	HLA-B*58:01	-0.06852
	88	GLMWLSYFI	HLA-A*02:01, HLA-A*02:03	<b>0.06464</b>
	91	WLSYFIASF	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.11822</b>
	92	LSYFIASFR	HLA-A*11:01, HLA-A*33:03	<b>0.21181</b>
	93	SYFIASFRL	HLA-A*24:02, HLA-A*24:07	<b>0.18333</b>
	94	YFIASFRLF	HLA-A*24:02, HLA-A*24:07	<b>0.06887</b>
	96	IASFRLFAR	HLA-A*33:03	<b>0.22572</b>
	100	RLFARTRSM	HLA-B*15:02, HLA-B*15:21	<b>0.11133</b>
	101	LFARTRSMW	HLA-A*24:02, HLA-A*24:07	-0.09092
	135	SELVIGAVI	HLA-B*44:03	<b>0.25658</b>
	169	VATSRTLSTY	HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.17295
	170	ATSRTLSTYY	HLA-A*11:01, HLA-A*34:01, HLA-B*58:01	-0.11604
	171	TSRTLSTYYK	HLA-A*11:01	-0.11595
	177	YYKLGASQR	HLA-A*33:03	-0.21863
	195	YSRYRIGNY	HLA-A*34:01, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21	<b>0.21358</b>
	197	RYRIGNYKL	HLA-A*24:02, HLA-A*24:07	<b>0.04851</b>
ORF9	44	LPNNTASWF	HLA-B*35:05	<b>0.05582</b>
	47	NTASWFTAL	HLA-A*34:01, HLA-B*15:21	<b>0.22775</b>
	65	FPRGQGVPI	HLA-B*35:05	-0.00164
	78	SPDDQIGYY	HLA-B*35:05	<b>0.06844</b>
	83	IGYYRRATR	HLA-A*33:03	<b>0.1499</b>
	85	YYRRATRRI	HLA-A*24:02 HLA-A*24:07	<b>0.21744</b>
	99	KMKDLSPRW	HLA-B*58:01	-0.19333
	102	DLSPRWYFY	HLA-A*34:01	<b>0.25933</b>
	103	LSPRWYFY	HLA-A*24:07, HLA-B*58:01	<b>0.35734</b>
	123	GANKDGIW	HLA-B*58:01	<b>0.02448</b>
	180	QASSRSSR	HLA-A*33:03	-0.56178
	186	SSRSRNSSR	HLA-A*33:03	-0.34164
	221	LLDRLNQL	HLA-A*02:01, HLA-A*02:03	-0.01446
	265	KAYNVTQAF	HLA-A*24:02, HLA-A*24:07, HLA-B*15:02, HLA-B*15:13, HLA-B*15:21, HLA-B*35:05, HLA-B*58:01	-0.00587
	268	NVTQAFGRR	HLA-A*33:03	<b>0.10318</b>
	298	KHWPQIAQF	HLA-A*24:02, HLA-A*24:07, HLA-B*38:02	<b>0.03856</b>
	306	FAPSASAFF	HLA-B*15:13, HLA-B*35:05	-0.18628
	310	ASAFFGMSR	HLA-A*11:01	<b>0.03154</b>

	315	GMSRIGMEV	HLA-A*02:03	<b>0.07018</b>
	321	MEVTPSGTW	HLA-B*15:13, HLA-B*18:01, HLA-B*44:03	-0.06279
	322	EVTPSGTWL	HLA-A*34:01	<b>0.03442</b>
	324	TPSGTWLTY	HLA-B*15:21, HLA-B*18:01, HLA-B*35:05	<b>0.24003</b>
	328	TWLYTGAI	HLA-A*24:07	<b>0.11986</b>
	351	LLNKHIDAY	HLA-B*15:02, HLA-B*15:21, HLA-B*35:05	-0.02074
	354	KHIDAYKTF	HLA-A*24:02	-0.05918
	360	KTFPTEPK	HLA-A*11:01	<b>0.1306</b>
	394	LPAADLDDF	HLA-B*35:05	<b>0.09491</b>



**Table S2.** Full list of predicted 15-mer HTL epitopes from five different SARS-CoV-2 proteins (ORF1ab, S, E, M, and N) with %Rank less than 1% identified from NetMHCpan 4.0 along with their IFN- $\gamma$  score. A total of 339 promiscuous peptides (bind to more than one different HLA alleles) out of 1,422 predicted peptides were identified and indicated by green color highlight. A total of 875 peptides with positive IFN- $\gamma$  scores out of 1,422 were identified and highlighted by bold-colored text.

Protein	Start Residue	Peptide	HLA Class II Allele	IFN- $\gamma$ score
ORF1ab	16	LSPVLQVRDVLVRG	HLA DRB1*15:01	-0.552587
	17	SLPVLQVRDVLVRGF	HLA DRB1*15:01	-0.50274156
	62	PQLEQPYVFIKRSDA	HLA DRB1*11:01	-0.37322428
	63	QLEQPYVFIKRSDAR	HLA DRB1*11:01	-0.066575101
	64	LEQPYVFIKRSDART	HLA DRB1*11:01, HLA DRB1*12:02	-0.1160575
	65	EQPYVFIKRSDARTA	HLA DRB1*11:01, HLA DRB1*12:02	-0.18932492
	66	QPYVFIKRSDARTAP	HLA DRB1*11:01	-0.16594135
	67	PYVFIKRSDARTAPH	HLA DRB1*11:01	-0.2621495
	85	MVELVAELEGIQYGR	HLA DRB1*12:02	<b>0.22164066</b>
	86	VELVAELEGIQYGRS	HLA DRB1*12:02	<b>0.21184544</b>
	170	TRELMRELNGGAYTR	HLA DRB1*12:02	<b>0.09058035</b>
	171	RELMRELNGGAYTRY	HLA DRB1*12:02	<b>0.079825801</b>
	178	NGGAYTRYVDNNFCG	HLA DRB1*15:02	<b>0.028698538</b>
	179	GGAYTRYVDNNFCGP	HLA DRB1*15:02	-0.33259633
	244	RSEKSYELQTPFEIK	HLA DRB1*07:01	<b>0.1123738</b>
	245	SEKSYELQTPFEIKL	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.11812166</b>
	246	EKSYELQTPFEIKLA	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.14008837</b>
	273	FVFPLNSIIKTIQPR	HLA DRB1*11:01	-0.25530678
	274	VFPLNSIIKTIQPRV	HLA DRB1*11:01	-0.24941483
	276	PLNSIIKTIQPRVEK	HLA DRB1*12:02	-0.15153035
	277	LNSIIKTIQPRVEKK	HLA DRB1*12:02	-0.25481012
	278	NSIIKTIQPRVEKKK	HLA DRB1*12:02	-0.18888334
	379	GPEHSLAEYHNESGL	HLA DRB1*15:01	-0.51376695
	380	PEHSLAEYHNESGLK	HLA DRB1*15:01, HLA DRB1*15:02	-0.50054293
	381	EHSLAEYHNESGLKT	HLA DRB1*15:01, HLA DRB1*15:02	-0.31709863
	382	HSLAEYHNESGLKTI	HLA DRB1*15:01	-0.24287768
	388	HNESGLKTILRKGGGR	HLA DRB1*11:01	<b>0.14848681</b>
	389	NESGLKTILRKGGRT	HLA DRB1*11:01	<b>0.43200233</b>
	390	ESGLKTILRKGGRTI	HLA DRB1*11:01	<b>0.50723971</b>
	391	SGLKTILRKGGRTIA	HLA DRB1*11:01	<b>0.67477291</b>
	446	LNDNLEILQKEKVN	HLA DRB1*12:02	-0.28006885
	447	NDNLEILQKEKVNIN	HLA DRB1*12:02	<b>0.13110528</b>
	448	DNLEILQKEKVNININ	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.055569224</b>
	449	NLEILQKEKVNININ	HLA DRB1*12:02	<b>0.26354633</b>
	456	KEKVNINIVGDFKLN	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.10097192

	457	EKVNINIVGDFKLNE	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.073961117</b>
	458	KVNINIVGDFKLNEE	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.10696324
	459	VNINIVGDFKLNEEI	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.033490438
	475	IILASFSASTSAFVE	HLA DRB1*07:01	<b>0.48889866</b>
	476	ILASFSASTSAFVET	HLA DRB1*07:01	<b>0.37138483</b>
	477	LASFSASTSAFVETV	HLA DRB1*07:01	<b>0.41160771</b>
	478	ASFSASTSAFVETVK	HLA DRB1*07:01	<b>0.19966591</b>
	483	STSAFVETVKGLDYK	HLA DRB1*11:01	<b>0.18968108</b>
	484	TSAFVETVKGLDYKA	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.21531222</b>
	485	SAFVETVKGLDYKAF	HLA DRB1*12:02	-0.012206208
	527	KSILSPYAFASEAA	HLA DRB1*12:02	-0.2415999
	528	SILSPYAFASEAAR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.17674965</b>
	529	ILSPYAFASEAARV	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.033121519</b>
	530	LSPLYAFASEAARVV	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.024506055</b>
	531	SPLYAFASEAARVVR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.36250218</b>
	532	PLYAFASEAARVRS	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.29254928</b>
	541	ARVVRISFRTLETA	HLA DRB1*12:02	<b>0.48722758</b>
	553	ETAQNSVRVLQKAAI	HLA DRB1*12:02	-0.23633119
	554	TAQNSVRVLQKAAIT	HLA DRB1*12:02	<b>0.068440439</b>
	555	AQNSVRVLQKAAITI	HLA DRB1*12:02	-0.027888451
	556	QNSVRVLQKAAITIL	HLA DRB1*12:02	-0.018083756
	557	NSVRVLQKAAITILD	HLA DRB1*12:02	-0.17235933
	563	QKAAITILDGISQYS	HLA DRB1*12:02	-0.34942023
	564	KAAITILDGISQYSL	HLA DRB1*12:02	-0.50168694
	593	NNLVVMAYITGGVVQ	HLA DRB1*15:01	-0.41352632
	601	ITGGVVQLTSQWLTN	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.3300186
	602	TGGVVQLTSQWLTNI	HLA DRB1*16:02	-0.32121582
	674	SVQTFKLVNKFAL	HLA DRB1*11:01	-0.58133375
	675	VQTFKLVNKFALC	HLA DRB1*11:01	-0.2932627
	676	QTFKLVNKFALCA	HLA DRB1*11:01	-0.33515995
	714	KGLYRKCVKSREETG	HLA DRB1*11:01	-0.3148611
	734	KAPKEIIFLEGETLP	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.24929914
	735	APKEIIFLEGETLPT	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.082149378</b>
	736	PKEIIFLEGETLPTE	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.077069314</b>
	737	KEIIFLEGETLPTEV	HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.51846126</b>
	827	DDTVIEVQGYKSVNI	HLA DRB1*15:01	-0.2319852

	828	DTVIEVQGYKSVNIT	HLA DRB1*15:01, HLA DRB1*15:02	-0.25329015
	829	TVIEVQGYKSVNITF	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.31288866
	830	VIEVQGYKSVNITFE	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.16164877
	831	IEVQGYKSVNITFEL	HLA DRB1*15:01, HLA DRB1*15:02	-0.41585405
	832	EVQGYKSVNITFELD	HLA DRB1*15:01	-0.2633236
	958	KPLEFGATSAALQPE	HLA DRB1*07:01	-0.66065581
	959	PLEFGATSAALQPEE	HLA DRB1*07:01	-0.61293064
	1027	SFSGYLKLTDNVYIK	HLA DRB1*07:01	<b>0.075951363</b>
	1028	FSGYLKLTDNVYIKN	HLA DRB1*07:01, HLA DRB1*15:02	-0.20400283
	1029	SGYLKLTDNVYIKNA	HLA DRB1*07:01, HLA DRB1*15:02	-0.26796184
	1052	VKPTVVVNAANVYLK	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02	-0.37547334
	1053	KPTVVVNAANVYLKH	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.45376782
	1054	PTVVVNAANVYLKHG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.091724496</b>
	1055	TVVVNAANVYLKHGG	HLA DRB1*15:01	-0.052916021
	1086	ESDDYIATNGPLKVG	HLA DRB1*16:02	-0.27560246
	1087	SDDYIATNGPLKVG	HLA DRB1*16:02	-0.31800246
	1123	NKGEDIQLLSAYEN	HLA DRB1*12:02	-0.2003168
	1124	KGEDIQLLSAYENF	HLA DRB1*12:02	-0.34475917
	1125	GEDIQLLSAYENFN	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*16:02	-0.41469217
	1126	EDIQLLSAYENFNQ	HLA DRB1*12:02	-0.41980237
	1170	RTNVYLAVFDKNLYD	HLA DRB1*16:02	-0.32634074
	1171	TNVYLAVFDKNLYDK	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.32342333
	1172	NVYLAVFDKNLYDKL	HLA DRB1*12:02	-0.30781439
	1186	LVSSFLEMKSEKQVE	HLA DRB1*11:01	-0.10828218
	1187	VSSFLEMKSEKQVEQ	HLA DRB1*11:01, HLA DRB1*16:02	<b>0.089900492</b>
	1198	QVEQKIAEIPKEEVK	HLA DRB1*12:02	-0.88669915
	1199	VEQKIAEIPKEEVKP	HLA DRB1*11:01, HLA DRB1*12:02	-0.94164818
	1200	EQKIAEIPKEEVKPF	HLA DRB1*11:01, HLA DRB1*12:02	-0.78571588
	1210	EVKPFITESKPSVEQ	HLA DRB1*11:01	<b>0.035338064</b>
	1211	VKPFITESKPSVEQR	HLA DRB1*11:01	<b>0.3156851</b>
	1248	FLTENLLLYIDINGN	HLA DRB1*15:01	-0.055555446
	1249	LTENLLLYIDINGNL	HLA DRB1*15:01	<b>0.028326154</b>
	1250	TENLLLYIDINGNLH	HLA DRB1*15:01	-0.27724578
	1295	VLTAIVIPTKKAGGT	HLA DRB1*11:01	<b>0.23158712</b>
	1296	LTAVVIPTKKAGGTT	HLA DRB1*11:01	<b>0.18044431</b>
	1297	TAVVIPTKKAGGTTE	HLA DRB1*11:01	<b>0.02444769</b>
	1298	AVVIPTKKAGGTTEM	HLA DRB1*11:01	-0.28936136
	1320	VPTDNYITYPGQGL	HLA DRB1*15:01, HLA DRB1*15:02	-0.22405757

	1321	PTDNYITTPGQGLN	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.043747134
	1322	TDNYITTPGQGLNG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.20247955
	1323	DNYITTPGQGLNGY	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.0016888477
	1324	NYITTPGQGLNGYT	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.26969085
	1325	YITTPGQGLNGYTV	HLA DRB1*15:01, HLA DRB1*15:02	-0.17061748
	1333	GLNGYTVVEAKTVLK	HLA DRB1*16:02	-0.093713228
	1334	LNGYTVVEAKTVLKK	HLA DRB1*16:02	-0.40134505
	1335	NGYTVVEAKTVLKCC	HLA DRB1*16:02	-0.21117347
	1348	KCKSAFYILPSIISN	HLA DRB1*11:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.24456538</b>
	1349	CKSAFYILPSIISNE	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.28976547</b>
	1350	KSAFYILPSIISNEK	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.33784834</b>
	1351	SAFYILPSIISNEKQ	HLA DRB1*11:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.088032125</b>
	1362	NEKQEILGTVSWNLR	HLA DRB1*07:01	<b>0.037044045</b>
	1363	EKQEILGTVSWNLRE	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.0096068911
	1364	KQEILGTVSWNLREM	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02	-0.1963119
	1365	QEILGTVSWNLREML	HLA DRB1*07:01	<b>0.031508802</b>
	1393	VETKAIVSTIQRKYK	HLA DRB1*12:02	-0.50582647
	1394	ETKAIVSTIQRKYKG	HLA DRB1*12:02	-0.72880984
	1395	TKAIVSTIQRKYKGI	HLA DRB1*12:02	-0.15436648
	1396	KAIVSTIQRKYKGIK	HLA DRB1*12:02	-0.10905096
	1402	IQRKYKGIKIQEGVV	HLA DRB1*11:01	<b>0.15369216</b>
	1403	QRKYKGIKIQEGVVD	HLA DRB1*11:01	<b>0.11040284</b>
	1411	IQEGVVDYGARFYFY	HLA DRB1*15:01	<b>0.1137742</b>
	1412	QEGVVDYGARFYFYT	HLA DRB1*15:01	<b>0.031215859</b>
	1417	DYGARFYFYSKTTV	HLA DRB1*15:01, HLA DRB1*15:02	-0.46338393
	1418	YGARFYFYSKTTVA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.6194514
	1419	GARFYFYSKTTVAS	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.48814565
	1420	ARFYFYSKTTVASL	HLA DRB1*07:01	-0.39387761
	1420	ARFYFYSKTTVASL	HLA DRB1*15:02	-0.069073956
	1442	NETLVTMPLGYVTHG	HLA DRB1*12:02	<b>0.27842636</b>
	1453	VTHGLNLEEAAARYMR	HLA DRB1*12:02	<b>0.056160056</b>
	1454	THGLNLEEAAARYMRS	HLA DRB1*12:02	-0.10066054
	1459	LEEAAARYMRSLKVP	HLA DRB1*12:02	<b>0.012642725</b>
	1460	EEAARYMRSLKVPAT	HLA DRB1*11:01, HLA DRB1*12:02	-0.14505697
	1461	EAARYMRSLKVPATV	HLA DRB1*11:01	<b>0.043328602</b>
	1462	AARYMRSLKVPATVS	HLA DRB1*11:01	-0.23289796
	1463	ARYMRSLKVPATVSV	HLA DRB1*11:01	-0.61896465

	1477	VSSPDAVTAYNGYLT	HLA DRB1*15:01	-0.5097373
	1478	SSPDAVTAYNGYLTSS	HLA DRB1*15:01, HLA DRB1*15:02	-0.5097373
	1479	SPDAVTAYNGYLTSS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.37103342
	1480	PDAVTAYNGYLTSSS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.3490795
	1481	DAVTAYNGYLTSSSK	HLA DRB1*15:01, HLA DRB1*15:02	-0.53096363
	1482	AVTAYNGYLTSSSKT	HLA DRB1*15:01	-0.2888732
	1496	TPEEHFIETISLAGS	HLA DRB1*07:01	-0.10822819
	1497	PEEHFIETISLAGSY	HLA DRB1*07:01	-0.070484352
	1498	EEHFIETISLAGSYK	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*16:02	-0.2995449
	1531	GDKSVYYTSNPTTFH	HLA DRB1*15:01	-0.10368188
	1533	KSVYYTSNPTTFHLD	HLA DRB1*07:01	<b>0.041596604</b>
	1545	HLDGEVITFDNLKTL	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.13655355</b>
	1546	LDGEVITFDNLKTLL	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.19456278</b>
	1547	DGEVITFDNLKTLLS	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.16475137</b>
	1548	GEVITFDNLKTLLSL	HLA DRB1*15:01	<b>0.059280899</b>
	1564	EVRTIKVFTTVDNIN	HLA DRB1*15:01	-0.26678133
	1566	RTIKVFTTVDNINLH	HLA DRB1*16:02	-0.22019882
	1567	TIKVFTTVDNINLHT	HLA DRB1*15:02, HLA DRB1*16:02	-0.18895507
	1568	IKVFTTVDNINLHTQ	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.24795144
	1569	KVFTTVDNINLHTQV	HLA DRB1*16:02	-0.25357961
	1602	ADVTKIKPHNSHEGK	HLA DRB1*15:01	-0.28325887
	1603	DVTIKIKPHNSHEGKT	HLA DRB1*15:01, HLA DRB1*15:02	-0.49109007
	1604	VTIKIKPHNSHEGKTF	HLA DRB1*15:01, HLA DRB1*15:02	-0.3614223
	1605	TKIKPHNSHEGKTFY	HLA DRB1*15:01	<b>0.53212289</b>
	1630	EAFEYYHTTDPFLG	HLA DRB1*07:01	<b>0.7473454</b>
	1631	AFEYYHTTDPFLGR	HLA DRB1*07:01	<b>0.77956564</b>
	1632	FEYYHTTDPFLGRY	HLA DRB1*07:01	<b>0.11555638</b>
	1694	ALQDAYYRARAGEAA	HLA DRB1*07:01	<b>0.43996998</b>
	1695	LQDAYYRARAGEAAN	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*16:02	<b>0.46088023</b>
	1696	QDAYYRARAGEAANF	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*16:02	-0.23526409
	1709	NFCALILAYCNKTVG	HLA DRB1*15:01, HLA DRB1*15:02	-0.014200696
	1711	CALILAYCNKTVGEL	HLA DRB1*15:01	-0.34481341
	1712	ALILAYCNKTVGELG	HLA DRB1*15:01	-0.44161946
	1725	LGDVRETMSYLFQHA	HLA DRB1*07:01	<b>0.042536084</b>
	1758	QQTTLKGVEAVMYMG	HLA DRB1*12:02	<b>0.33755187</b>
	1759	QQTTLKGVEAVMYMGT	HLA DRB1*12:02	<b>0.15259155</b>
	1764	GVEAVMYMGTLSEYEQ	HLA DRB1*12:02	-0.33759888
	1765	VEAVMYMGTLSEYEQF	HLA DRB1*12:02	-0.54395245
	1771	MGTLSYEQFKKGVQI	HLA DRB1*11:01	-0.3613913
	1772	GTLSEYEQFKKGVQIP	HLA DRB1*11:01	-0.87085008

	1773	TLSYEQFKKGVQIPC	HLA DRB1*11:01	-0.48118012
	1798	VQQESPFVMSAPPA	HLA DRB1*16:02	-0.2941382
	1799	QQESPFVMSAPPAQ	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.31609633
	1800	QESPFVMSAPPAQY	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.15478331
	1801	ESPFVMSAPPAQYE	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.21040286
	1802	SPFVMSAPPAQYEL	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.18691649
	1869	KENSYTTTIKPVYK	HLA DRB1*11:01	-0.17750343
	1870	ENSYTTTIKPVYKL	HLA DRB1*11:01	-0.13697578
	1907	FTEQPIDLVPNQYP	HLA DRB1*12:02, HLA DRB1*15:01	-0.47075197
	1908	TEQPIDLVPNQYPN	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.18762311
	1909	EQPIDLVPNQYPNA	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.15613773
	1910	QPIDLVPNQYPNAS	HLA DRB1*12:02, HLA DRB1*15:01	-0.12838139
	1952	SRELKVTFPDLNGD	HLA DRB1*15:01	-0.75297701
	1953	RELKVTFPDLNGDV	HLA DRB1*15:01, HLA DRB1*15:02	-0.88047866
	1954	ELKVTFPDLNGDVV	HLA DRB1*15:01, HLA DRB1*15:02	-0.48028134
	1962	DLNGDVVAIDYKHYT	HLA DRB1*12:02	-0.76428731
	1963	LNGDVVAIDYKHYP	HLA DRB1*12:02	-0.80127992
	1964	NGDVVAIDYKHYP	HLA DRB1*12:02	-0.45343102
	1965	GDVVAIDYKHYP	HLA DRB1*12:02	-0.42693816
	1970	IDYKHYP	HLA DRB1*11:01	-0.13972723
	1971	DYKHYP	HLA DRB1*11:01	-0.042158114
	1972	YKHYP	HLA DRB1*11:01	-0.2310786
	1975	YTPSFKKGAKLLHKP	HLA DRB1*11:01	-0.47902691
	1976	TPSFKKGAKLLHKPI	HLA DRB1*11:01	-0.00052440326
	1985	LLHKPIVWHVNNATN	HLA DRB1*15:01, HLA DRB1*15:02	-0.036794254
	1986	LHKPIVWHVNNATNK	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.19683503
	1987	HKPIVWHVNNATNKA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.2423791
	1988	KPIVWHVNNATNKAT	HLA DRB1*15:01, HLA DRB1*15:02	-0.19759012
	2015	STKPVETSNSFDVLK	HLA DRB1*07:01	-0.54491285
	2016	TKPVETSNSFDVLKS	HLA DRB1*07:01	-0.66171762
	2020	ETSNSFDVLKSEDAQ	HLA DRB1*16:02	-0.30753224
	2021	TSNSFDVLKSEDAQG	HLA DRB1*16:02	-0.070466066
	2022	SNSFDVLKSEDAQGM	HLA DRB1*16:02	-0.055015627
	2023	NSFDVLKSEDAQGM	HLA DRB1*16:02	-0.36207716
	2096	MAAYVDNSSLTIKKP	HLA DRB1*07:01, HLA DRB1*16:02	-0.31825308

	2114	SRVLGLKTLATHGLA	HLA DRB1*12:02	<b>0.51038277</b>
	2115	RVLGLKTLATHGLAA	HLA DRB1*12:02	<b>0.43266595</b>
	2116	VLGLKTLATHGLAAV	HLA DRB1*12:02	<b>0.323982</b>
	2134	PWDTIANYAKPFLNK	HLA DRB1*15:01	-0.25570219
	2135	WDTIANYAKPFLNKV	HLA DRB1*15:01	-0.54848052
	2144	PFLNKVVSTTTNIVT	HLA DRB1*07:01	-0.29998765
	2145	FLNKVVSTTTNIVTR	HLA DRB1*07:01	-0.4301579
	2146	LNKVVSTTTNIVTRC	HLA DRB1*07:01	-0.3782325
	2147	NKVVSTTTNIVTRCL	HLA DRB1*07:01	-0.39253427
	2178	QLCTFTRSTNSRIKA	HLA DRB1*07:01	-0.21777362
	2179	LCTFTRSTNSRIKAS	HLA DRB1*07:01	-0.095922436
	2185	STNSRIKASMPPTIA	HLA DRB1*07:01	-0.49616959
	2186	TNSRIKASMPPTIAK	HLA DRB1*07:01	-0.18805364
	2187	NSRIKASMPPTIAKN	HLA DRB1*07:01	-0.42536127
	2210	CLEASFNYLKSPNFS	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*16:02	-0.094357236
	2211	LEASFNYLKSPNFSK	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.12722255
	2212	EASFNYLKSPNFSKL	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.37773341
	2213	ASFNYLKSPNFSKLI	HLA DRB1*16:02	-0.026528299
	2238	VCLGSLIYSTAALGV	HLA DRB1*07:01	<b>0.49861583</b>
	2239	CLGSLIYSTAALGVL	HLA DRB1*07:01	<b>0.35282643</b>
	2240	LGSLIYSTAALGVLM	HLA DRB1*07:01	<b>0.49521512</b>
	2241	GSLIYSTAALGVLS	HLA DRB1*07:01	<b>0.30884964</b>
	2264	TGYREGYLNSTNVTI	HLA DRB1*07:01	-0.41173481
	2265	GYREGYLNSTNVTIA	HLA DRB1*07:01	-0.24449529
	2266	YREGYLNSTNVTIAT	HLA DRB1*07:01, HLA DRB1*16:02	-0.43067608
	2267	REGYLNSTNVTIATY	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.31028204
	2268	EGYLNSTNVTIATYC	HLA DRB1*07:01	-0.33203241
	2294	GLDSLDTYPSLETIQ	HLA DRB1*15:01, HLA DRB1*15:02	-0.34549467
	2295	LDSLDTYPSLETIQI	HLA DRB1*15:01, HLA DRB1*15:02	-0.54310262
	2296	DSDLDTYPSLETIQIT	HLA DRB1*15:01	-0.19638859
	2387	FASFYYVWKSYVHV	HLA DRB1*15:02	<b>0.39201913</b>
	2388	ASFYYVWKSYVHVVD	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.15218183</b>
	2429	GVRRSFYVYANGGKG	HLA DRB1*15:02	-0.32869375
	2430	VRRSFYVYANGGKGF	HLA DRB1*15:02, HLA DRB1*16:02	-0.50732704
	2431	RRSFYVYANGGKGFC	HLA DRB1*16:02	-0.20644744
	2496	VKNGSIHLYFDKAGQ	HLA DRB1*15:01, HLA DRB1*15:02	-0.69338588
	2497	KNGSIHLYFDKAGQK	HLA DRB1*15:01, HLA DRB1*15:02	-0.60597528
	2498	NGSIHLYFDKAGQKT	HLA DRB1*15:01, HLA DRB1*15:02	-0.53246273

	2499	GSIHLYFDKAGQKTY	HLA DRB1*15:01, HLA DRB1*15:02	-0.35732381
	2516	HSLSHFVNLDNLRAN	HLA DRB1*16:02	-0.22981627
	2517	SLSHFVNLDNLRANN	HLA DRB1*11:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.17816212
	2518	LSHFVNLDNLRANNT	HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:02, HLA DRB1*16:02	-0.29350215
	2519	SHFVNLDNLRANNTK	HLA DRB1*11:01, HLA DRB1*16:02	-0.40477542
	2585	EVAVKMFDAYVNTFS	HLA DRB1*15:01	-0.25130725
	2587	AVKMFDAYVNTFSST	HLA DRB1*15:02	-0.32388736
	2588	VKMFDAYVNTFSSTF	HLA DRB1*15:02	-0.42142796
	2590	MFDAYVNTFSSTFNV	HLA DRB1*07:01	-0.41134871
	2591	FDAYVNTFSSTFNVP	HLA DRB1*07:01	-0.56557317
	2592	DAYVNTFSSTFNVPM	HLA DRB1*07:01	-0.50623878
	2593	AYVNTFSSTFNVPME	HLA DRB1*07:01	-0.20604344
	2594	YVNTFSSTFNVPMEK	HLA DRB1*07:01	-0.12732785
	2595	VNTFSSTFNVPMEKL	HLA DRB1*07:01	-0.18682741
	2602	FNVPMEKLKTLVATA	HLA DRB1*12:02	<b>0.16860267</b>
	2603	NVPMEKLKTLVATAE	HLA DRB1*12:02	<b>0.32043407</b>
	2608	KLKTLVATAEAEELAK	HLA DRB1*07:01	<b>0.28758531</b>
	2609	LKTLVATAEAEELAKN	HLA DRB1*07:01	<b>0.28217656</b>
	2626	LDNVLSTFISAARQG	HLA DRB1*16:02	<b>0.25499401</b>
	2627	DNVLSTFISAARQGF	HLA DRB1*16:02	<b>0.060853447</b>
	2721	LSEQLRKQIRSAACK	HLA DRB1*11:01	-0.43971802
	2722	SEQLRKQIRSAACKN	HLA DRB1*11:01	-0.37653178
	2725	LRKQIRSAACKNNLP	HLA DRB1*11:01	-0.59829081
	2726	RKQIRSAACKNNLPF	HLA DRB1*11:01	-0.40678367
	2745	ATTRQVVNVVTTKIA	HLA DRB1*07:01	-0.31787192
	2747	TRQVVNVVTTKIALK	HLA DRB1*07:01	<b>0.02810012</b>
	2782	FVAAIFYLITPVHVM	HLA DRB1*07:01	-0.27424945
	2783	VAAIFYLITPVHVMS	HLA DRB1*07:01, HLA DRB1*16:02	-0.089830143
	2784	AAIFYLITPVHVMSK	HLA DRB1*07:01, HLA DRB1*16:02	-0.54022313
	2785	AIFYLITPVHVMSKH	HLA DRB1*07:01	-0.76771484
	2789	LITPVHVMSKHTDFS	HLA DRB1*11:01	-0.04426137
	2789	LITPVHVMSKHTDFS	HLA DRB1*12:02	-0.13378443
	2790	ITPVHVMSKHTDFSS	HLA DRB1*11:01, HLA DRB1*12:02	-0.39904248
	2800	TDFSSEIIGYKAIDG	HLA DRB1*15:01	-0.27549762
	2801	DFSSEIIGYKAIDGG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.51805862
	2802	FSSEIIGYKAIDGGV	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.78718709
	2803	SSEIIGYKAIDGGVT	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.5932268
	2804	SEIIGYKAIDGGVTR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.56631424
	2805	EIIGYKAIDGGVTRD	HLA DRB1*15:01, HLA DRB1*16:02	-0.72997846



	2806	IIGYKAIDGGVTRDI	HLA DRB1*16:02	<b>0.27999202</b>
	2854	IAAVITREVGfVVPg	HLA DRB1*15:02	-0.0012576928
	2877	TNGDFLHFLPRVFSA	HLA DRB1*11:01	<b>0.11037918</b>
	2878	NGDFLHFLPRVFSAV	HLA DRB1*11:01	<b>0.31918441</b>
	2879	GDFLHFLPRVFSAVG	HLA DRB1*11:01	<b>0.58060762</b>
	2890	SAVGNICYTPSKLIE	HLA DRB1*07:01	<b>0.51851408</b>
	2891	AVGNICYTPSKLIEY	HLA DRB1*07:01	<b>0.31850723</b>
	2892	VGNICYTPSKLIEYT	HLA DRB1*07:01	<b>0.36940461</b>
	2893	GNICYTPSKLIEYTD	HLA DRB1*07:01	<b>0.17370758</b>
	2897	YTPSKLIEYDFATS	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.20829641</b>
	2898	TPSKLIEYDFATSa	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.4148902</b>
	2899	PSKLIEYDFATSAC	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.17836648</b>
	2900	SKLIEYDFATSACV	HLA DRB1*15:01	-0.7519447
	2918	ECTIFKDASGKVPY	HLA DRB1*07:01	<b>0.0087233443</b>
	2949	RPDTRYVLMdGSIIQ	HLA DRB1*16:02	-0.53836862
	2950	PDTRYVLMdGSIIQF	HLA DRB1*15:02, HLA DRB1*16:02	-0.4605804
	2951	DTRYVLMdGSIIQFP	HLA DRB1*15:02, HLA DRB1*16:02	-0.07450474
	2952	TRYVLMdGSIIQFPN	HLA DRB1*16:02	-0.4932638
	2955	VLMdGSIIQFPNTYL	HLA DRB1*15:01, HLA DRB1*15:02	-0.33435363
	2956	LMDGSIIQFPNTYLE	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.25075639
	2957	MDGSIIQFPNTYLEG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.21025374</b>
	2958	DGSIIQFPNTYLEGS	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.087720744</b>
	2959	GSIIQFPNTYLEGSV	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.25912222</b>
	2960	SIIQFPNTYLEGSVR	HLA DRB1*15:01, HLA DRB1*15:02	-0.78467881
	2972	SVRVVTTFDSEYCRH	HLA DRB1*15:01	-0.37523635
	2973	VRVVTTFDSEYCRHG	HLA DRB1*15:01, HLA DRB1*15:02	-0.066934048
	3006	LNNDYYRSLPGVFCG	HLA DRB1*16:02	<b>0.39976925</b>
	3007	NNDYYRSLPGVFCGV	HLA DRB1*16:02	<b>0.32931549</b>
	3008	NDYYRSLPGVFCGVD	HLA DRB1*16:02	-0.41015989
	3028	TNMFTPLIQPIGALD	HLA DRB1*11:01	-0.065329836
	3030	MFTPLIQPIGALDIS	HLA DRB1*07:01	<b>0.15814274</b>
	3031	FTPLIQPIGALDISA	HLA DRB1*07:01, HLA DRB1*12:02	<b>0.20744102</b>
	3032	TPLIQPIGALDISAS	HLA DRB1*07:01, HLA DRB1*12:02	-0.086129717
	3060	LAYYFMRFRRAFGEY	HLA DRB1*11:01	-0.2289568
	3061	AYYFMRFRRAFGEYS	HLA DRB1*11:01	<b>0.58437182</b>
	3094	LTPVYSFLPGVYSVI	HLA DRB1*16:02	<b>0.56612589</b>
	3095	TPVYSFLPGVYSVIY	HLA DRB1*16:02	-0.046689717
	3105	YSVIYLYLTFYLTND	HLA DRB1*15:01	-0.17658548

	3148	ISTKHFYWFFSNYLK	HLA DRB1*15:02, HLA DRB1*16:02	-0.34242601
	3149	STKHFYWFFSNYLKR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.45241268
	3150	TKHFYWFFSNYLKRR	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.34583424
	3151	KHFYWFFSNYLKRRV	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.11907884
	3209	ALYNKYKYFSGAMDT	HLA DRB1*16:02	-0.26436815
	3210	LYNKYKYFSGAMDTT	HLA DRB1*15:02, HLA DRB1*16:02	-0.49044619
	3211	YNKYKYFSGAMDTTS	HLA DRB1*15:02, HLA DRB1*16:02	-0.40499908
	3212	NKYKYFSGAMDTTSY	HLA DRB1*16:02	<b>0.034925467</b>
	3326	NHNFLVQAGNVQLRV	HLA DRB1*15:02, HLA DRB1*16:02	-0.22907385
	3359	PKTPKYKFVRIQPGQ	HLA DRB1*07:01, HLA DRB1*11:01	-0.26182997
	3360	KTPKYKFVRIQPGQT	HLA DRB1*07:01, HLA DRB1*11:01	-0.42327254
	3361	TPKYKFVRIQPGQTF	HLA DRB1*07:01, HLA DRB1*11:01	-0.17899644
	3362	PKYKFVRIQPGQTFS	HLA DRB1*11:01	-0.037425607
	3363	KYKFVRIQPGQTFSV	HLA DRB1*11:01	<b>0.16151551</b>
	3564	SGVTFQSAVKRTIKG	HLA DRB1*11:01	<b>0.1891356</b>
	3565	GVTFQSAVKRTIKGT	HLA DRB1*11:01	<b>0.16802027</b>
	3713	NVLTLYKVYYGNAL	HLA DRB1*15:02	<b>0.17334471</b>
	3714	VLTLYKVYYGNALD	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.17563228</b>
	3715	LTLVYKVYYGNALDQ	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.12812212
	3716	TLVYKVYYGNALDQA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.0070755559</b>
	3717	LVYKVYYGNALDQAI	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.019808209
	3718	VYKVYYGNALDQAIS	HLA DRB1*15:02	<b>0.17021009</b>
	3814	LVSTQEFRYMNSQGL	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.039172088
	3815	VSTQEFRYMNSQGLL	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.097632046</b>
	3816	STQEFRYMNSQGLLP	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.28198599
	3817	TQEFRYMNSQGLLPP	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.41760878
	3818	QEFRYMNSQGLLPPK	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.25437902
	3819	EFRYMNSQGLLPPKN	HLA DRB1*16:02	-0.062325272
	3833	NSIDAFKLNILLGV	HLA DRB1*11:01	<b>0.34258395</b>
	3834	SIDAFKLNILLGVG	HLA DRB1*11:01	<b>0.23506756</b>
	3835	IDAFKLNILLGVGG	HLA DRB1*11:01	-0.10531173
	3836	DAFKLNILLGVGGK	HLA DRB1*11:01	<b>0.49673838</b>
	3943	AIASEFSSLPSYAAF	HLA DRB1*16:02	-0.082021259
	3944	IASEFSSLPSYAAFA	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.075448812</b>
	3945	ASEFSSLPSYAAFAT	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.3972671</b>
	3946	SEFSSLPSYAAFATA	HLA DRB1*16:02	<b>0.2211394</b>
	3950	SLPSYAAFATAQEAY	HLA DRB1*16:02	<b>0.17363263</b>

	3951	LPSYAAFATAQEAYE	HLA DRB1*16:02	<b>0.05175581</b>
	3959	TAQEAYEQAVANGDS	HLA DRB1*07:01	-0.15963941
	3960	AQEAYEQAVANGDSE	HLA DRB1*07:01	-0.46428452
	3961	QEAYEQAVANGDSEV	HLA DRB1*07:01	-0.54067076
	3974	EVVLKKLKKSLNVAK	HLA DRB1*11:01	<b>0.6329412</b>
	4029	MQTMLFTMLRKLDND	HLA DRB1*11:01	-0.20734393
	4030	QTMFLTMLRKLDNDA	HLA DRB1*11:01	-0.087059221
	4031	TMLFTMLRKLDNDAL	HLA DRB1*11:01	-0.04278137
	4068	AKLMVVIPDYNTYKN	HLA DRB1*15:01	-0.42757332
	4103	DADSKIVQLSEISMD	HLA DRB1*12:02	-0.61372399
	4104	ADSKIVQLSEISMDN	HLA DRB1*12:02	-0.76106239
	4105	DSKIVQLSEISMDNS	HLA DRB1*12:02	-0.69078384
	4106	SKIVQLSEISMDNSP	HLA DRB1*12:02	-1.1295165
	4124	WPLIVTALRANSVAVK	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.78569358</b>
	4125	PLIVTALRANSVAVKL	HLA DRB1*12:02	<b>0.63818085</b>
	4128	VTALRANSVAVKLQNN	HLA DRB1*07:01	<b>0.41017385</b>
	4164	TDDNALAYYNTTKGG	HLA DRB1*15:01, HLA DRB1*15:02	-0.61761105
	4165	DDNALAYYNTTKGGR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.42845902
	4166	DNALAYYNTTKGGRF	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.74369435
	4167	NALAYYNTTKGGRFV	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02	-0.4713522
	4168	ALAYYNTTKGGRFVL	HLA DRB1*07:01	-0.47916381
	4169	LAYYNTTKGGRFVLA	HLA DRB1*07:01	-0.057237948
	4189	QDLKWARFPKSDGTG	HLA DRB1*11:01	-0.65990954
	4190	DLKWARFPKSDGTGT	HLA DRB1*11:01	-0.78591897
	4222	GPKVKYLYFIKGLNN	HLA DRB1*11:01	-0.16032734
	4223	PKVKYLYFIKGLNNL	HLA DRB1*11:01	<b>0.16674258</b>
	4224	KVKYLYFIKGLNNLN	HLA DRB1*11:01	-0.0030323981
	4242	VLGSLAATVRLQAGN	HLA DRB1*11:01	<b>0.12826589</b>
	4243	LGSLAATVRLQAGNA	HLA DRB1*11:01	<b>0.10055086</b>
	4244	GSLAATVRLQAGNAT	HLA DRB1*11:01	<b>0.064312226</b>
	4262	ANSTVLSFCAFAVDA	HLA DRB1*15:01	-0.0537201
	4263	NSTVLSFCAFAVDAA	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.048452802</b>
	4272	FAVDAAKAYKDYLAS	HLA DRB1*15:01	<b>0.3387717</b>
	4273	AVDAAKAYKDYLASG	HLA DRB1*15:01	<b>0.22276241</b>
	4274	VDAAKAYKDYLASGG	HLA DRB1*15:01, HLA DRB1*15:02	-0.11036117
	4275	DAAKAYKDYLASGGQ	HLA DRB1*15:01	-0.13857939
	4276	AAKAYKDYLASGGQP	HLA DRB1*15:02	-0.050270034
	4277	AKAYKDYLASGGQPI	HLA DRB1*07:01, HLA DRB1*15:02	<b>0.27241329</b>
	4278	KAYKDYLASGGQPIT	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.19650355</b>
	4279	AYKDYLASGGQPITN	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.01567761</b>

	4280	YKDYLASGGQPITNC	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.14080429</b>
	4281	KDYLASGGQPITNCV	HLA DRB1*07:01	<b>0.14655744</b>
	4345	LKGKYVQIPTTCAND	HLA DRB1*11:01, HLA DRB1*16:02	-0.22354251
	4346	KGKYVQIPTTCANDP	HLA DRB1*11:01, HLA DRB1*16:02	-0.3406529
	4418	TSTDVVYRAFDIYND	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.041567617</b>
	4422	VVYRAFDIYNDKVAG	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.072694755</b>
	4423	VYRAFDIYNDKVAGF	HLA DRB1*15:01, HLA DRB1*15:02	-0.12274593
	4424	YRAFDIYNDKVAGFA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.089073011</b>
	4425	RAFDIYNDKVAGFAK	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.018452115</b>
	4456	NLIDSYFVVKRHTFS	HLA DRB1*11:01	<b>0.19160503</b>
	4457	LIDSYFVVKRHTFSN	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.13041491</b>
	4458	IDSYFVVKRHTFSNY	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.1870334</b>
	4459	DSYFVVKRHTFSNYQ	HLA DRB1*11:01	<b>0.17255265</b>
	4551	KKDWYDFVENPDILR	HLA DRB1*16:02	<b>0.077198278</b>
	4552	KDWYDFVENPDILRV	HLA DRB1*16:02	<b>0.10212444</b>
	4559	ENPDILRVYANLGER	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.011725622</b>
	4560	NPDILRVYANLGERV	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.22993566</b>
	4561	PDILRVYANLGERVR	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.26161469</b>
	4562	DILRVYANLGERVRQ	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.19512384</b>
	4610	DFGDFIQTPGSGVP	HLA DRB1*07:01	-0.15132234
	4611	FGDFIQTPGSGVPV	HLA DRB1*07:01	-0.18966827
	4612	GDFIQTPGSGVPVV	HLA DRB1*07:01	-0.13007353
	4622	GVPVVDYYSLLMPI	HLA DRB1*15:01	-0.054402262
	4634	MPILTLTRALTAESH	HLA DRB1*07:01	<b>0.28242312</b>
	4675	FDRYFKYWDQTYHPN	HLA DRB1*15:02	<b>0.24811396</b>
	4727	VDGVPFVSTGYHFR	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.11480612</b>
	4728	DGVPFVSTGYHFRE	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.03879744</b>
	4729	GVPFVSTGYHFREL	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.081607683</b>
	4730	VVPFVSTGYHFREL	HLA DRB1*07:01	<b>0.23177467</b>
	4758	LSFKELLVYAADPAM	HLA DRB1*15:01, HLA DRB1*15:02	-0.077004067
	4759	SFKELLVYAADPAMH	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.27908132
	4760	FKELLVYAADPAMHA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.11371587</b>
	4761	KELLVYAADPAMHAA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.22582922</b>
	4768	ADPAMHAASGNLLLD	HLA DRB1*07:01	-0.68330658
	4769	DPAMHAASGNLLDK	HLA DRB1*07:01	-0.58368375
	4795	NNVAFQTVKPGNFNK	HLA DRB1*07:01	-0.11573911
	4796	NVAFQTVKPGNFNKD	HLA DRB1*07:01	-0.10606629

	4807	FNKDFYDFAVSKGFF	HLA DRB1*07:01	-0.40289788
	4808	NKDFYDFAVSKGFFK	HLA DRB1*07:01	-0.079483904
	4809	KDFYDFAVSKGFFKE	HLA DRB1*07:01	-0.14047237
	4817	SKGFFKEGSSVELKH	HLA DRB1*07:01	-0.67956316
	4818	KGFFKEGSSVELKHF	HLA DRB1*07:01	-0.52497763
	4829	LKHFFFAQDGNAAIS	HLA DRB1*16:02	<b>0.26791847</b>
	4830	KHFFFAQDGNAAISD	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.44008259</b>
	4886	IVNNLDKSAGFPFNK	HLA DRB1*07:01	-0.40376859
	4915	DQDALFAYTKRNVIP	HLA DRB1*11:01	-0.3368985
	4916	QDALFAYTKRNVPT	HLA DRB1*11:01	-0.060695981
	4917	DALFAYTKRNVPTI	HLA DRB1*11:01	-0.26013623
	4932	TQMNLKYAISAKNRA	HLA DRB1*11:01	<b>0.35183292</b>
	4933	QMNLKYAISAKNRAR	HLA DRB1*11:01	<b>0.40443361</b>
	4934	MNLKYAISAKNRART	HLA DRB1*11:01	<b>0.40189009</b>
	4935	NLKYAISAKNRARTV	HLA DRB1*11:01	<b>0.59384444</b>
	4936	LKYAISAKNRARTVA	HLA DRB1*11:01	<b>0.65441232</b>
	4937	KY AISAKNRARTVAG	HLA DRB1*11:01	<b>0.58340402</b>
	4965	QKLLKSIAATRGATV	HLA DRB1*07:01	<b>0.2049577</b>
	4966	KLLKSIAATRGATVV	HLA DRB1*07:01	<b>0.40943023</b>
	4967	LLKSIAATRGATVVI	HLA DRB1*07:01	<b>0.39407314</b>
	4968	LKSIAATRGATVVIG	HLA DRB1*07:01	<b>0.51630525</b>
	4969	KSIAATRGATVVIGT	HLA DRB1*07:01	<b>0.62202121</b>
	5018	MPNMLRIMASLVLAR	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.32014953</b>
	5019	PNMLRIMASLVLARK	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.39136883</b>
	5020	NMLRIMASLVLARKH	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.13368254</b>
	5093	TANVNALLSTDGNKI	HLA DRB1*07:01	-0.1135887
	5094	ANVNALLSTDGNKIA	HLA DRB1*07:01	-0.30390308
	5095	NVNALLSTDGNKIAD	HLA DRB1*07:01	-0.021819874
	5096	VNALLSTDGNKIADK	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.22113402</b>
	5097	NALLSTDGNKIADKY	HLA DRB1*07:01	<b>0.20149438</b>
	5106	KIADKYVRNLQHRLY	HLA DRB1*12:02	-0.23107785
	5107	IADKYVRNLQHRLYE	HLA DRB1*12:02	-0.31784011
	5108	ADKYVRNLQHRLYEC	HLA DRB1*12:02	-0.30902884
	5109	DKYVRNLQHRLYECL	HLA DRB1*12:02	-0.27625912
	5115	LQHRLYECLYRNRDV	HLA DRB1*11:01	-0.18997364
	5116	QHRLYECLYRNRDVD	HLA DRB1*11:01	-0.11496807
	5117	HRLYECLYRNRDVT	HLA DRB1*11:01	-0.14108854
	5118	RLYECLYRNRDVDT	HLA DRB1*11:01	-0.30582316

	5132	DFVNEFYAYLRKHFS	HLA DRB1*11:01	-0.20027092
	5133	FVNEFYAYLRKHFSM	HLA DRB1*11:01	-0.63092501
	5134	VNEFYAYLRKHFSMM	HLA DRB1*11:01	-0.52175242
	5135	NEFYAYLRKHFSMMI	HLA DRB1*11:01	-0.26378918
	5136	EFYAYLRKHFSMMIL	HLA DRB1*11:01	-0.23100353
	5150	LSDDAVVCFNSTYAS	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.034561966</b>
	5151	SDDAVVCFNSTYASQ	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.026386468</b>
	5152	DDAVVCFNSTYASQG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.088754083
	5153	DAVVCFNSTYASQGL	HLA DRB1*15:01	<b>0.33611739</b>
	5164	SQGLVASIKNFKSVL	HLA DRB1*15:01	<b>0.37231794</b>
	5165	QGLVASIKNFKSVLY	HLA DRB1*12:02, HLA DRB1*15:01	<b>0.24848213</b>
	5166	GLVASIKNFKSVLYY	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.43106149</b>
	5167	LVASIKNFKSVLYYQ	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.093707023</b>
	5168	VASIKNFKSVLYYQN	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.29825337</b>
	5169	ASIKNFKSVLYYQNN	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.25775961</b>
	5172	KNFKSVLYYQNNVFM	HLA DRB1*15:01, HLA DRB1*15:02	-0.014358134
	5173	NFKSVLYYQNNVFMS	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.096870191</b>
	5174	FKSVLYYQNNVFMS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.00094937127
	5175	KSVLYYQNNVFMS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.13527738</b>
	5234	CFVDDIVKTDGTLMI	HLA DRB1*07:01	-0.88380089
	5235	FVDDIVKTDGTLMI	HLA DRB1*07:01	-0.90124302
	5236	VDDIVKTDGTLMI	HLA DRB1*07:01	-0.84103604
	5237	DDIVKTDGTLMI	HLA DRB1*07:01	-1.1896573
	5244	GTLMIERFVSLAIDA	HLA DRB1*15:01, HLA DRB1*15:02	-0.82427027
	5245	TLMIERFVSLAIDAY	HLA DRB1*15:01, HLA DRB1*15:02	-0.65076675
	5362	SHKLVLVSNPYVCNA	HLA DRB1*15:02	-0.35281523
	5410	NGQVFGLYKNTCVGS	HLA DRB1*15:02	-0.2834386
	5411	GQVFGLYKNTCVGSD	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.12639966</b>
	5449	TCTERLKLFAAETLK	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.27901465
	5450	CTERLKLFAAETLKA	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.10920914
	5451	TERLKLFAAETLKAT	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.013340883</b>
	5452	ERLKLFAAETLKATE	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.027634477</b>
	5465	TEETFKLSYGIATVR	HLA DRB1*07:01	-0.15300691
	5466	EETFKLSYGIATVRE	HLA DRB1*07:01	-0.13727134
	5470	KLSYGIATVREVLSD	HLA DRB1*07:01	<b>0.043163927</b>

	5503	NYVFTGYRVTKNSKV	HLA DRB1*07:01	-0.78894867
	5504	YVFTGYRVTKNSKVQ	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.76041811
	5505	VFTGYRVTKNSKVQI	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.70114021
	5506	FTGYRVTKNSKVQIG	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.7629068
	5507	TGYRVTKNSKVQIGE	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.81396755
	5508	GYRVTKNSKVQIGEY	HLA DRB1*07:01	-0.53448585
	5529	YGDAVVYRGTTTTYKL	HLA DRB1*07:01	-0.36532217
	5530	GDAVVYRGTTTTYKLN	HLA DRB1*07:01	-0.36697071
	5531	DAVVYRGTTTTYKLV	HLA DRB1*07:01, HLA DRB1*16:02	-0.0019186367
	5532	AVVYRGTTTTYKLVNG	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.021410949
	5533	VVYRGTTTTYKLVNGD	HLA DRB1*07:01	-0.1363368
	5534	VYRGTTTTYKLVNGDY	HLA DRB1*07:01	-0.16206678
	5542	KLVNGDYFVLTSHTV	HLA DRB1*16:02	-0.15056949
	5543	LVNGDYFVLTSHTVM	HLA DRB1*15:02, HLA DRB1*16:02	-0.36042586
	5544	NVNGDYFVLTSHTVMP	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.43765126
	5545	VGDYFVLTSHTVMPL	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.17329827
	5546	GDYFVLTSHTVMPLS	HLA DRB1*15:02, HLA DRB1*16:02	-0.31357192
	5553	SHTVMPLSAPTLVPQ	HLA DRB1*12:02, HLA DRB1*15:01	-0.54038934
	5594	QKVGMMQKYSTLQGPP	HLA DRB1*15:01, HLA DRB1*15:02	-0.81414195
	5595	KVGMMQKYSTLQGPPG	HLA DRB1*15:01, HLA DRB1*15:02	-0.67029702
	5596	VGMMQKYSTLQGPPGT	HLA DRB1*15:01	-0.73912984
	5598	MQKYSTLQGPPGTGK	HLA DRB1*16:02	-0.64959807
	5616	AIGLALYYPSARIVY	HLA DRB1*15:01	<b>0.20585782</b>
	5617	IGLALYYPSARIVYT	HLA DRB1*15:01	<b>0.18608175</b>
	5666	CFDKFKVNSTLEQYV	HLA DRB1*11:01	-0.093789713
	5667	FDKFKVNSTLEQYVF	HLA DRB1*11:01	-0.24532673
	5690	TTADIVVFDEISMAT	HLA DRB1*15:01	-0.41762994
	5691	TADIVVFDEISMATN	HLA DRB1*15:01, HLA DRB1*15:02	-0.42912485
	5696	VFDEISMATNYDLSV	HLA DRB1*15:01, HLA DRB1*15:02	-0.59626637
	5697	FDEISMATNYDLSV	HLA DRB1*15:01, HLA DRB1*15:02	-0.50310201
	5716	RAKHVYIGDPAQLP	HLA DRB1*16:02	-0.18755018
	5717	AKHVYIGDPAQLPA	HLA DRB1*11:01, HLA DRB1*16:02	<b>0.16727452</b>
	5718	KHVYIGDPAQLPAP	HLA DRB1*16:02	-0.3181297
	5767	RCPAEIVDTVSALVY	HLA DRB1*07:01	-0.20882629
	5768	CPAEIVDTVSALVYD	HLA DRB1*07:01, HLA DRB1*15:02	-0.24004956
	5769	PAEIVDTVSALVYDN	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.31287444
	5770	AEIVDTVSALVYDNK	HLA DRB1*07:01, HLA DRB1*12:02	-0.46019668
	5774	DTVSALVYDNKLKAH	HLA DRB1*11:01	-0.044191882
	5775	TVSALVYDNKLKAHK	HLA DRB1*11:01	<b>0.35165561</b>

	5776	VSAIVYDNKLKAHKD	HLA DRB1*11:01	<b>0.25601688</b>
	5777	SALVYDNKLKAHKDK	HLA DRB1*11:01	<b>0.49102369</b>
	5795	CFKMFYKGVITHDVS	HLA DRB1*07:01	-0.59974749
	5796	FKMFYKGVITHDVSS	HLA DRB1*07:01	-0.49172757
	5797	KMFYKGVITHDVSSA	HLA DRB1*07:01, HLA DRB1*16:02	-0.45539364
	5814	RPQIGVVREFLTRNP	HLA DRB1*12:02	-0.48461916
	5830	WRKAVFISPYNSQNA	HLA DRB1*15:01	<b>0.23383292</b>
	5831	RKAVFISPYNSQNAV	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.53933214</b>
	5832	KAVFISPYNSQNAVA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.4720961</b>
	5833	AVFISPYNSQNAVAS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.53704543</b>
	5834	VFISPYNSQNAVASK	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.22363359</b>
	5835	FISPYNSQNAVASKI	HLA DRB1*15:01	<b>0.043858555</b>
	5844	AVASKILGLPTQTVDD	HLA DRB1*12:02	-0.07832972
	5845	VASKILGLPTQTVDS	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.015678357</b>
	5846	ASKILGLPTQTVDS	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.12146879
	5847	SKILGLPTQTVDSQ	HLA DRB1*12:02	-0.097107987
	5916	IPRRNVATLQAENV	HLA DRB1*12:02	-0.11088735
	5917	PRRRNVATLQAENVG	HLA DRB1*12:02	<b>0.0014152941</b>
	5918	RRNVATLQAENVGL	HLA DRB1*12:02	<b>0.22897269</b>
	5986	KMNYQVNGYPNMFIT	HLA DRB1*15:01, HLA DRB1*15:02	-0.32066822
	5987	MNYQVNGYPNMFITR	HLA DRB1*15:01, HLA DRB1*15:02	-0.1812924
	5988	NYQVNGYPNMFITRE	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.22008393
	5989	YQVNGYPNMFITREE	HLA DRB1*15:01, HLA DRB1*15:02	-0.1390682
	6000	TREEAIRHVRWIGF	HLA DRB1*12:02	<b>0.17190051</b>
	6001	REEAIRHVRWIGFD	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02	<b>0.11715273</b>
	6002	EEAIRHVRWIGFDV	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02 HLA DRB1*16:02	<b>0.42312165</b>
	6003	EAIRHVRWIGFDVE	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.23743019</b>
	6004	AIRHVRWIGFDVEG	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.2893765</b>
	6005	IRHVRWIGFDVEGC	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.59401836</b>
	6006	RHVRWIGFDVEGCH	HLA DRB1*15:01	<b>0.18377954</b>
	6038	TGVNLVAVPTGYVDT	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.25176918
	6039	GVNLVAVPTGYVDTP	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.46784679
	6055	NTDFSRVSAKPPGD	HLA DRB1*07:01	-0.23055851
	6066	PPGDQFKHLIPLMYK	HLA DRB1*12:02	-0.79302192
	6067	PGDQFKHLIPLMYKG	HLA DRB1*12:02	-0.66712494
	6068	GDQFKHLIPLMYKGL	HLA DRB1*12:02	-0.50207002
	6069	DQFKHLIPLMYKGLP	HLA DRB1*12:02	-0.77532188



	6087	VRKIVQMLSDLTKN	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.08846654
	6260	PKAICVPPQADVEWK	HLA DRB1*12:02	<b>0.11520704</b>
	6268	QADVEWKFYDAQPCS	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.093446735</b>
	6269	ADVEWKFYDAQPCSD	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.10240558</b>
	6270	DVEWKFYDAQPCSDK	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.10088207</b>
	6271	VEWKFYDAQPCSDKA	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.23032418</b>
	6288	IEELFYSYATHSDKF	HLA DRB1*15:02	-0.42593106
	6289	EELFYSYATHSDKFT	HLA DRB1*15:02	-0.32219001
	6309	FWNCNVDRYPANSIV	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.05024018</b>
	6310	WNCNVDRYPANSIVC	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.0029701117</b>
	6311	NCNVDRYPANSIVCR	HLA DRB1*15:01, HLA DRB1*15:02	-0.037843374
	6356	FDKSAFVNLKQLPFF	HLA DRB1*12:02	-0.65316442
	6357	DKSAFVNLKQLPFFY	HLA DRB1*12:02	-0.57806402
	6358	KSAFVNLKQLPFFYY	HLA DRB1*12:02	-0.37678307
	6359	SAFVNLKQLPFFYYS	HLA DRB1*12:02	-0.60794426
	6364	LKQLPFFYSDSPCE	HLA DRB1*15:02	-0.84820875
	6365	KQLPFFYSDSPCES	HLA DRB1*15:01, HLA DRB1*15:02	-0.74682862
	6366	QLPFFYSDSPCESH	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.95212997
	6367	LPFFYSDSPCESHG	HLA DRB1*15:02	-0.56713728
	6385	VSDIDYVPLKSATCI	HLA DRB1*16:02	<b>0.15127013</b>
	6386	SDIDYVPLKSATCIT	HLA DRB1*16:02	-0.071389115
	6387	DIDYVPLKSATCITR	HLA DRB1*11:01, HLA DRB1*15:02 HLA DRB1*16:02	-0.0025562925
	6388	IDYVPLKSATCITRC	HLA DRB1*16:02	-0.14859683
	6432	SLWVYKQFDYTNLWN	HLA DRB1*15:02, HLA DRB1*16:02	-0.3479125
	6433	LWVYKQFDYTNLWNT	HLA DRB1*15:02, HLA DRB1*16:02	-0.23899058
	6434	WVYKQFDYTNLWNTF	HLA DRB1*15:02	-0.83413699
	6454	LENVAFNVVNKGHFD	HLA DRB1*11:01	<b>0.078742337</b>
	6455	ENVAFNVVNKGHFDG	HLA DRB1*11:01	-0.10097832
	6456	NVAFNVVNKGHFDGQ	HLA DRB1*11:01, HLA DRB1*12:02	-0.23359534
	6472	GEVPVSIINNTVYTK	HLA DRB1*12:02	<b>0.2542538</b>
	6473	EVPSIINNTVYTKV	HLA DRB1*12:02	<b>0.26756126</b>
	6479	INNTVYTKVDGVDVE	HLA DRB1*07:01	-0.16442255
	6480	NNTVYTKVDGVDVEL	HLA DRB1*07:01, HLA DRB1*16:02	-0.24068554
	6481	NTVYTKVDGVDVELF	HLA DRB1*07:01, HLA DRB1*16:02	-0.29433181
	6487	VDGVDVELFENKTTL	HLA DRB1*15:01	-0.04113928
	6488	DGVDVELFENKTTLP	HLA DRB1*15:01, HLA DRB1*15:02	-0.27493986
	6489	GVDVELFENKTTLPV	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.18488388</b>
	6490	VDVELFENKTTLPVN	HLA DRB1*15:01	-0.16436808
	6510	WAKRNIKPVEVKIL	HLA DRB1*07:01, HLA DRB1*12:02	<b>0.10731795</b>

	6511	AKRNIKPVPEVKILN	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01	-0.43686594
	6512	KRNIKPVPEVKILNN	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01	-0.42446222
	6513	RNIKPVPEVKILNNL	HLA DRB1*12:02	-0.3388033
	6516	KPVPEVKILNNLGVD	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.092818209
	6517	PVPEVKILNNLGVDI	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.0068847756
	6518	VPEVKILNNLGVDIA	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.25937664
	6519	PEVKILNNLGVDIAA	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.41267881
	6567	ICAPLTVFFDGRVDG	HLA DRB1*15:01	-0.21217939
	6568	CAPLTVFFDGRVDGQ	HLA DRB1*15:01	-0.16280804
	6569	APLTVFFDGRVDGQV	HLA DRB1*15:01	-0.048799482
	6579	VDGQVDLFRNARNGV	HLA DRB1*15:01	-0.16080756
	6623	AVKTQFNYYKKVDGV	HLA DRB1*11:01	-0.51862003
	6624	VKTQFNYYKKVDGVV	HLA DRB1*11:01	-0.44180179
	6625	KTQFNYYKKVDGVVQ	HLA DRB1*11:01	-0.58921477
	6634	VDGVVQQLPETYFTQ	HLA DRB1*12:02	-0.79229209
	6635	DGVVQQLPETYFTQS	HLA DRB1*12:02	-0.74303645
	6640	QLPETYFTQSRNLQE	HLA DRB1*07:01, HLA DRB1*11:01	-1.0412404
	6641	LPETYFTQSRNLQEF	HLA DRB1*07:01, HLA DRB1*11:01	-1.25747
	6642	PETYFTQSRNLQEFK	HLA DRB1*11:01	-0.99697172
	6643	ETYFTQSRNLQEFKP	HLA DRB1*11:01	-1.243457
	6669	AMDEFIERYKLEGYA	HLA DRB1*11:01	-0.31591546
	6670	MDEFIERYKLEGYAF	HLA DRB1*11:01	-0.5096451
	6725	STVKNYFITDAQTGS	HLA DRB1*07:01	<b>0.067835539</b>
	6726	TVKNYFITDAQTGSS	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*16:02	<b>0.087124509</b>
	6727	VKNYFITDAQTGSSK	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*16:02	-0.34742572
	6728	KNYFITDAQTGSSKC	HLA DRB1*07:01, HLA DRB1*16:02	-0.18720126
	6750	LLDDFVEIISQDLS	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.27733231
	6751	LDDFVEIISQDLSV	HLA DRB1*07:01, HLA DRB1*11:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.04841137
	6752	DDFVEIISQDLSVV	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.28882695</b>
	6881	AVLRQWLPTGTLLVD	HLA DRB1*07:01	-0.24424824
	6882	VLRQWLPTGTLLVDS	HLA DRB1*07:01	<b>0.070585924</b>
	6883	LRQWLPTGTLLVDS	HLA DRB1*07:01	<b>0.094627139</b>
	6884	RQWLPTGTLLVDSL	HLA DRB1*07:01	-0.03232637
	6927	SDMYDPKTKNVTEN	HLA DRB1*11:01	-0.67485521
	6956	QQKLALGGSVAIKIT	HLA DRB1*07:01	<b>0.1606486</b>

	6957	QKLALGGSVAIKITE	HLA DRB1*07:01	<b>0.22250627</b>
	6958	KLALGGSVAIKITEH	HLA DRB1*07:01	<b>0.1950708</b>
	6982	MGHFAWWTAFVTNV N	HLA DRB1*15:02	-0.25847532
	7016	QIDGYVMHANYIFWR	HLA DRB1*15:02	-0.44029832
	7017	IDGYVMHANYIFWRN	HLA DRB1*15:02, HLA DRB1*16:02,	-0.51529422
	7024	ANYIFWRNTNPIQLS	HLA DRB1*07:01,	-0.44210794
	7025	NYIFWRNTNPIQLSS	HLA DRB1*07:01,	-0.27952306
	7026	YIFWRNTNPIQLSSY	HLA DRB1*07:01,	-0.12275809
	7027	IFWRNTNPIQLSSYS	HLA DRB1*07:01,	-0.2564464
	7049	PLKLRGTAVMSLKEG	HLA DRB1*07:01,	-0.081985341
	7053	RGTAVMSLKEGQIND	HLA DRB1*12:02,	-0.38498524
	7054	GTAVMSLKEGQINDM	HLA DRB1*12:02,	-0.68864099
	7073	LSKGRLIIRENNRVV	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.1768002</b>
	7074	SKGRLIIRENNRVVI	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.38700762</b>
	7075	KGRLIIRENNRVVIS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.78951146</b>
	7076	GRLIIRENNRVVISS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.79853065</b>
	7082	ENNRVVISDVLVNN	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02	<b>0.79231845</b>
ORF2	24	LPPAYTNSFTRGVYY	HLA DRB1*07:01	<b>0.71760044</b>
	25	PPAYTNSFTRGVYYP	HLA DRB1*07:01	<b>0.38425103</b>
	52	QDLFLPFFSNVTWFH	HLA DRB1*15:02	-0.051186129
	57	PFFSNVTWFHAIHVS	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.38458522</b>
	58	FFSNVTWFHAIHVSG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.17100646</b>
	59	FSNVTWFHAIHVSGT	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.094599621</b>
	60	SNVTWFHAIHVSGTN	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.056273567
	152	WMESEFRVYSSANNC	HLA DRB1*15:02	-0.00069338927
	153	MESEFRVYSSANNCT	HLA DRB1*15:02, HLA DRB1*16:02	-0.23974436
	154	ESEFRVYSSANNCTF	HLA DRB1*15:02, HLA DRB1*16:02	-0.53206807
	181	GKQGNFKNLREFVFK	HLA DRB1*12:02	-0.2540608
	182	KQGNFKNLREFVFKN	HLA DRB1*12:02	-0.39347618
	183	QGNFKNLREFVFKNI	HLA DRB1*12:02	-0.25063137
	197	IDGYFKIYSKHTPIN	HLA DRB1*16:02	-0.78037933
	201	FKIYSKHTPINLVRD	HLA DRB1*07:01	-0.56831252
	207	HTPINLVRDLPQGFS	HLA DRB1*12:02	-0.68623929
	230	PIGINITRFQTLAL	HLA DRB1*15:01	-0.042411043
	231	IGINITRFQTLALH	HLA DRB1*15:01, HLA DRB1*15:02	-0.38029989
	232	GINITRFQTLALHR	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.10772613</b>
	233	INITRFQTLALHRS	HLA DRB1*15:01	-0.0071534627
	238	FQTLALHRSYLTPG	HLA DRB1*12:02	<b>0.26071055</b>
	239	QTLALHRSYLTPGD	HLA DRB1*15:01	<b>0.19107315</b>

	306	FTVEKGIYQTSNFRV	HLA DRB1*07:01	<b>0.70919003</b>
	307	TVEKGIYQTSNFRVQ	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.45017873</b>
	308	VEKGIYQTSNFRVQP	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.20827026</b>
	309	EKGIYQTSNFRVQPT	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.46467579</b>
	310	KGIYQTSNFRVQPTE	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.36164402</b>
	314	QTSNFRVQPTESIVR	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.2289089</b>
	315	TSNFRVQPTESIVRF	HLA DRB1*15:02, HLA DRB1*16:02	-0.20021657
	321	QPTESIVRFPNITNL	HLA DRB1*15:01, HLA DRB1*15:02	-0.40062756
	322	PTESIVRFPNITNLC	HLA DRB1*15:01, HLA DRB1*15:02	-0.20003025
	323	TESIVRFPNITNLCP	HLA DRB1*15:01, HLA DRB1*15:02	-0.70352647
	324	ESIVRFPNITNLCPF	HLA DRB1*15:01	-0.43992195
	343	NATRFASVYAWNRRKR	HLA DRB1*16:02	<b>0.47646374</b>
	344	ATRFASVYAWNRRKRI	HLA DRB1*16:02	<b>0.5575169</b>
	371	SASFSTFKCYGVSP	HLA DRB1*15:02	-0.12924041
	428	DFTGCVIAWNSNNLD	HLA DRB1*15:01, HLA DRB1*15:02	-0.19887616
	429	FTGCVIAWNSNNLDS	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.10293405
	430	TGCVIAWNSNNLDSK	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.19360068
	431	GCVIAWNSNNLDSKV	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.022799683</b>
	445	VGGNYNYLRLFRKS	HLA DRB1*11:01	<b>0.18580082</b>
	446	GGNYNYLRLFRKSN	HLA DRB1*11:01	<b>0.37362504</b>
	492	LQSYGFQPTNGVGYQ	HLA DRB1*07:01	-0.045488993
	493	QSYGFQPTNGVGYQP	HLA DRB1*07:01	-0.053172582
	494	SYGFQPTNGVGYQPY	HLA DRB1*07:01	<b>0.18189287</b>
	495	YGFQPTNGVGYQPYP	HLA DRB1*07:01	-0.079340724
	500	TNGVGYQPYPVVLS	HLA DRB1*15:02	-0.035053106
	501	NGVGYQPYPVVLSF	HLA DRB1*15:02	-0.036467885
	502	GVGYQPYPVVLSFE	HLA DRB1*15:02, HLA DRB1*16:02	<b>0.28627417</b>
	556	NKKFLPFQQFGRDIA	HLA DRB1*16:02	<b>0.15230751</b>
	631	PTWRVYSTGSNVFQT	HLA DRB1*07:01	<b>0.015274183</b>
	632	TWRVYSTGSNVFQTR	HLA DRB1*07:01	<b>0.10894371</b>
	680	SPRRARSVASQSIIA	HLA DRB1*07:01	<b>0.47297351</b>
	681	PRRARSVASQSIAY	HLA DRB1*07:01	<b>0.67693256</b>
	689	SQSIAYTMSLGAEN	HLA DRB1*07:01, HLA DRB1*15:01,	<b>0.10021838</b>
	690	QSIAYTMSLGAENS	HLA DRB1*07:01	<b>0.01474098</b>
	712	IAIPTNFTISVTTEI	HLA DRB1*07:01	-0.019108711
	713	AIPTNFTISVTTEIL	HLA DRB1*07:01	-0.20095993
	714	IPTNFTISVTTEILP	HLA DRB1*07:01	-0.47793484

	715	PTNFTISVTTEILPV	HLA DRB1*07:01	<b>0.0062863218</b>
	716	TNFTISVTTEILPVS	HLA DRB1*07:01	-0.1175069
	776	KNTQEVEFAQVKQIYK	HLA DRB1*12:02	-0.50438727
	777	NTQEVEFAQVKQIYKT	HLA DRB1*12:02	-0.49230135
	778	TQEVEFAQVKQIYKTP	HLA DRB1*12:02	-0.555042
	779	QEVEFAQVKQIYKTPP	HLA DRB1*12:02	-0.69815401
	789	YKTPPIKDFGGFNFS	HLA DRB1*15:01, HLA DRB1*15:02	-0.44883338
	790	KTPPIKDFGGFNFSQ	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.36848437
	791	TPPIKDFGGFNFSQI	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.19527993
	792	PPIKDFGGFNFSQIL	HLA DRB1*15:01, HLA DRB1*15:02	-0.19573394
	797	FGGFNFSQILPDSK	HLA DRB1*07:01	-0.4760424
	830	DAGFIKQYGDCLGDI	HLA DRB1*15:01	-0.26608933
	831	AGFIKQYGDCLGDIA	HLA DRB1*15:01	-0.22414894
	864	LLTDEMIAQYTSALL	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.2463336</b>
	865	LTDEMIAQYTSALLA	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.086392148</b>
	866	TDEMIAQYTSALLAG	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.0082184443</b>
	867	DEMIAQYTSALLAGT	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.15716941</b>
	868	EMIAQYTSALLAGTI	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.14667354</b>
	869	MIAQYTSALLAGTIT	HLA DRB1*15:01	<b>0.04890301</b>
	894	LQIPFAMQMAYRFNG	HLA DRB1*12:02	-0.21947589
	911	VTQNVLYENQKLIAN	HLA DRB1*15:01	-0.27091446
	955	NAQALNTLVKQLSSN	HLA DRB1*11:01	-0.68803277
	956	AQALNTLVKQLSSNF	HLA DRB1*11:01	-0.67563689
	977	LNDILSRDKVEAEV	HLA DRB1*11:01	-0.32644775
	978	NDILSRDKVEAEVQ	HLA DRB1*11:01, HLA DRB1*12:02	-0.47575273
	988	EAEVQIDRLITGRLQ	HLA DRB1*12:02	-0.18209317
	989	AEVQIDRLITGRLQS	HLA DRB1*12:02	-0.083411268
	990	EVQIDRLITGRLQSL	HLA DRB1*12:02	-0.2821438
	1000	RLQSLQTYVTQQLIR	HLA DRB1*15:01, HLA DRB1*15:02	-0.18959048
	1001	LQSLQTYVTQQLIRA	HLA DRB1*15:01, HLA DRB1*15:02	-0.050704469
	1002	QSLQTYVTQQLIRAA	HLA DRB1*15:01, HLA DRB1*15:02	-0.014520542
	1014	RAAEIRASANLAATK	HLA DRB1*15:01, HLA DRB1*15:02	<b>0.29346657</b>
	1015	AAEIRASANLAATKM	HLA DRB1*15:01, HLA DRB1*15:02	-0.084387697
	1057	PHGVVFLHVTYVPAQ	HLA DRB1*12:02	<b>0.0027038643</b>
	1110	YEPQIITDNTFVSG	HLA DRB1*07:01, HLA DRB1*15:02	-0.55271887
	1111	EPQIITDNTFVSGN	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.3530133
	1126	CDVVIGIVNNTVYDP	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02	-0.38779121
	1127	DVVIGIVNNTVYDPL	HLA DRB1*15:01, HLA DRB1*15:02	-0.15210975
	1151	ELDKYFKNHTSPDVD	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.40577462
	1152	LDKYFKNHTSPVDL	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.7444172

	1153	DKYFKNHTSPDVLG	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.4953733
ORF4	51	LVKPSFYVYSRVKNL	HLA DRB1*07:01	-0.39721306
	52	VKPSFYVYSRVKNLN	HLA DRB1*07:01, HLA DRB1*11:01	-0.46468316
	53	KPSFYVYSRVKNLNS	HLA DRB1*07:01, HLA DRB1*11:01	-0.52339177
	54	PSFYVYSRVKNLNSS	HLA DRB1*07:01	-0.35688916
	55	SFYVYSRVKNLNSSR	HLA DRB1*07:01	-0.4195908
	58	VYSRVKNLNSSRVDP	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.18705221
	59	YSRVKNLNSSRVDDL	HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.45329667
ORF5	95	YFIASFRLFARTRSM	HLA DRB1*11:01	-0.35658933
	96	FIASFRLFARTRSMW	HLA DRB1*11:01	-0.3109081
	97	IASFRLFARTRSMWS	HLA DRB1*11:01	-0.29170845
	98	ASFRLFARTRSMWSF	HLA DRB1*11:01	-0.27314175
	109	MWSFNPETNILLNVP	HLA DRB1*15:02, HLA DRB1*16:02	-1.0296371
	144	ILRGHLRIAGHHLGR	HLA DRB1*11:01	<b>0.196423</b>
	145	LRGHLRIAGHHLGRC	HLA DRB1*11:01	<b>0.2459722</b>
	146	RGHLRIAGHHLGRCD	HLA DRB1*11:01	-0.18255298
	162	KDLPKEITVATSRTL	HLA DRB1*07:01	-0.46025371
	163	DLPKEITVATSRTLS	HLA DRB1*07:01, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.36193098
	164	LPKEITVATSRTLSY	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.17020992
	165	PKEITVATSRTLSYY	HLA DRB1*07:01, HLA DRB1*12:02, HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	<b>0.2121047</b>
	166	KEITVATSRTLSYYK	HLA DRB1*07:01, HLA DRB1*15:01	-0.22983445
	175	TLSYYKLGASQRVAG	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.16141022</b>
	176	LSYYKLGASQRVAGD	HLA DRB1*07:01, HLA DRB1*16:02	<b>0.19286477</b>
	177	SYKLGASQRVAGDS	HLA DRB1*07:01	<b>0.1701859</b>
ORF9	49	TASWFTALTQHGKED	HLA DRB1*11:01	-0.079044179
	84	IGYYRRATRRIRGGD	HLA DRB1*11:01	<b>0.6416295</b>
	127	KDGIWVATEGALNT	HLA DRB1*15:01	<b>0.36131254</b>
	129	GIIWVATEGALNTPK	HLA DRB1*07:01	<b>0.49614189</b>
	167	LPKGFYAEGSRGGSQ	HLA DRB1*11:01, HLA DRB1*16:02	-0.46909126
	168	PKGFYAEGSRGGSQA	HLA DRB1*11:01, HLA DRB1*16:02	-0.023816502
	263	TATKAYNVTQAFGRR	HLA DRB1*07:01	-0.35284528
	264	ATKAYNVTQAFGRRG	HLA DRB1*07:01, HLA DRB1*16:02	-0.41990668
	265	TKAYNVTQAFGRRGP	HLA DRB1*07:01, HLA DRB1*16:02	-0.89365915
	266	KAYNVTQAFGRRGPE	HLA DRB1*16:02	-0.76630992
	302	PQIAQFAPSASAFFG	HLA DRB1*07:01	<b>0.72358869</b>
	303	QIAQFAPSASAFFGM	HLA DRB1*07:01	<b>0.83655244</b>

	304	IAQFAPSASAFFGMS	HLA DRB1*07:01	<b>1.0616777</b>
	309	PSASAFFGMSRIGME	HLA DRB1*11:01	<b>0.94891009</b>
	310	SASAFFGMSRIGMEV	HLA DRB1*11:01	<b>0.79707565</b>
	311	ASAFFGMSRIGMEVT	HLA DRB1*11:01	<b>0.085634049</b>
	325	TPSGTWLTYTGAIKL	HLA DRB1*07:01	<b>0.12699857</b>
	326	PSGTWLTYTGAIKLD	HLA DRB1*07:01	<b>0.0035100729</b>
	327	SGTWLTYTGAIKLDD	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.3048811
	328	GTWLTYTGAIKLDDK	HLA DRB1*07:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.13745422
	329	TWLTYTGAIKLDDKD	HLA DRB1*07:01	-0.21623699
	330	WLTYTGAIKLDDKDP	HLA DRB1*07:01	-0.5483585
	345	NFKDQVILLNKHIDA	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.1690602</b>
	346	FKDQVILLNKHIDAY	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.29690561</b>
	347	KDQVILLNKHIDAYK	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.28910866</b>
	348	DQVILLNKHIDAYKT	HLA DRB1*11:01, HLA DRB1*12:02	<b>0.13183953</b>
	351	ILLNKHIDAYKTFPP	HLA DRB1*15:01	-0.60424218
	352	LLNKHIDAYKTFPPT	HLA DRB1*15:01, HLA DRB1*15:02	-0.58679713
	353	LNKHIDAYKTFPPTE	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.50811758
	354	NKHIDAYKTFPPTEP	HLA DRB1*15:01, HLA DRB1*15:02, HLA DRB1*16:02	-0.68356588
	355	KHIDAYKTFPPTEPK	HLA DRB1*15:01, HLA DRB1*15:02	-0.64058568
	356	HIDAYKTFPPTEPKK	HLA DRB1*15:01	-0.73433853
	387	KKQQTVTLLPAADLD	HLA DRB1*12:02	<b>0.097605744</b>
	388	KQQTVTLLPAADLDD	HLA DRB1*12:02	-0.18353366
	389	QQTVTLLPAADLDDF	HLA DRB1*12:02	-0.27974059