

CHR1	SNP1	CHR2	SNP2	OR_INT	STAT	P	gene1	gene2
6	C*06:02	6	rs118179173	0.22	83	8.21E-20	BTNL2	
6	C*06:02	6	B:AA67	0.45	50.46	1.22E-12		
5	5_96139250	6	C*06:02	0.74	25.89	3.61E-07	ERAP1	
5	5_96117300	6	C*06:02	0.75	22.93	1.68E-06	ERAP1	
6	C*06:02	6	C*07:04	0.28	20.23	6.86E-06		
5	5_96118852	6	C*06:02	0.78	17.16	3.43E-05	ERAP1	
5	5_96125910	6	C*06:02	0.78	16.96	3.81E-05	ERAP1	
6	snp31443520	6	DPB1*05:01	1.47	16.08	6.07E-05		
5	5_96124447	6	C*06:02	0.79	15.97	6.44E-05	ERAP1	
5	5_96121994	6	C*06:02	0.79	15.95	6.50E-05	ERAP1	
5	5_96121715	6	C*06:02	0.79	15.82	6.96E-05	ERAP1	
5	5_96129512	6	C*06:02	0.80	13.75	0.0002089	ERAP1	
5	5_96222183	6	C*06:02	0.80	13.32	0.0002627	ERAP2	
6	C*06:02	6	DPB1*05:01	1.26	13.2	0.0002793		
5	5_96222185	6	C*06:02	0.81	11.94	0.0005506	ERAP2	
5	5_96232222	6	C*06:02	0.82	10.96	0.0009334	ERAP2	
5	5_96237114	6	C*06:02	0.82	10.93	0.0009459	ERAP2	
5	5_96132795	6	C*06:02	0.77	10.84	0.0009922	ERAP1	
5	5_96249323	6	C*06:02	0.82	10.47	0.001214	ERAP2	
3	3_121810428	5	5_96118852	3.16	10.13	0.001459	CD86	ERAP1
6	B:Y140S	6	B:Y91C	1.23	9.953	0.001606		
5	5_96121069	16	16_10989630	6.71	9.898	0.001655	CIITA	ERAP1
1	1_152733376	19	19_49422277	5.93	9.862	0.001687	KPRP	NUCB1
3	3_121810428	5	5_96117300	3.23	9.719	0.001824	CD86	ERAP1
6	C*06:02	12	12_111951144	0.14	9.433	0.002131	ATXN2	
5	5_158705519	6	DPB1*05:01	1.49	9.373	0.002202	UBLCP1	
6	C*07:04	6	B:Y91C	2.27	9.264	0.002337		
3	3_121810428	5	5_96121069	4.55	9.259	0.002343	CD86	ERAP1
5	5_96339273	6	B:Y140S	1.13	8.487	0.003576	LNPEP	
19	19_10083664	20	20_48599549	0.51	8.48	0.003591	COL5A3	SNAI1
3	3_121810428	5	5_96252998	3.21	8.471	0.003609	CD86	ERAP2
1	1_67648596	17	17_78178170	1.31	8.353	0.00385	CARD14	IL23R
5	5_96124296	6	C*06:02	1.33	8.152	0.004301	ERAP1	
5	5_96125910	5	5_96339273	0.89	8.122	0.004374	ERAP1	LNPEP
3	3_121810428	5	5_96125910	3.02	8.09	0.004452	CD86	ERAP1
3	3_121634170	14	14_35761675	0.39	7.983	0.004722	PSMA6	SLC15A2
3	3_121810428	5	5_96339273	2.53	7.618	0.005778	CD86	LNPEP
5	5_158705065	19	19_49656530	4.44	7.61	0.005804	HRC	UBLCP1
3	3_121810428	5	5_96232222	2.64	7.598	0.005842	CD86	ERAP2
16	16_31095251	20	20_48599549	0.84	7.584	0.00589	PRSS53	SNAI1
3	3_121634179	17	17_40459737	0.20	7.581	0.005899	SLC15A2	STAT5A
6	B:Y140S	17	17_78178182	1.11	7.326	0.006798	CARD14	
5	5_96139250	5	5_96339273	0.90	7.313	0.006845	ERAP1	LNPEP
5	5_96232222	6	snp31443520	1.29	7.268	0.007018	ERAP2	
3	3_121810428	5	5_96222183	2.59	7.229	0.007172	CD86	ERAP2
3	3_121810428	5	5_96121715	2.76	7.213	0.007236	CD86	ERAP1
3	3_121810428	5	5_96124447	2.61	7.141	0.007536	CD86	ERAP1
3	3_121810428	5	5_96237114	2.56	7.001	0.008145	CD86	ERAP2
3	3_121810428	5	5_96222185	2.55	6.928	0.008487	CD86	ERAP2
5	5_96125910	5	5_96252998	0.89	6.865	0.008789	ERAP1	ERAP2
17	17_38251343	17	17_40459737	10.22	6.844	0.008895	NR1D1	STAT5A
5	5_96232222	6	B:Y140S	1.11	6.841	0.00891	ERAP2	
5	5_158750013	6	C*06:02	1.17	6.727	0.009494	IL12B	
1	1_67648596	17	17_78178182	1.27	6.715	0.00956	CARD14	IL23R
3	3_121810428	5	5_96121994	2.55	6.707	0.009602	CD86	ERAP1
1	1_158990412	17	17_78178189	1.10	6.62	0.01009	CARD14	IFI16
5	5_96237114	6	B:Y140S	1.10	6.612	0.01013	ERAP2	
5	5_96118852	5	5_96339273	0.90	6.604	0.01018	ERAP1	LNPEP
3	3_121810428	5	5_96129512	2.70	6.578	0.01032	CD86	ERAP1
1	1_158987941	17	17_78180618	0.91	6.525	0.01064	CARD14	IFI16

5	5_96339273	6	C*06:02	0.85	6.524	0.01065	LNPEP	
6	B:Y140S	17	17_78178189	1.10	6.487	0.01087	CARD14	
5	5_96249323	16	16_10989630	3.38	6.484	0.01089	CIITA	ERAP2
3	3_121810428	5	5_96249323	2.48	6.476	0.01094	CD86	ERAP2
1	1_152759678	5	5_150513957	8.21	6.424	0.01126	ANXA6	LCE1E
1	1_152733376	4	4_103534560	0.82	6.376	0.01157	KPRP	NFKB1
5	5_96222183	6	B:Y140S	1.10	6.368	0.01162	ERAP2	
14	14_35761675	17	17_40474471	0.47	6.362	0.01166	PSMA6	STAT3
5	5_96252998	6	C*07:04	1.57	6.336	0.01183	ERAP2	
2	2_163149965	6	C*06:02	1.29	6.281	0.0122	IFIH1	
5	5_96237114	6	snp31443520	1.26	6.232	0.01255	ERAP2	
6	B:Y140S	17	17_78178170	1.10	6.222	0.01261	CARD14	
2	2_61239020	2	2_163137683	3.46	6.21	0.0127	IFIH1	PUS10
1	1_152733376	5	5_158705519	0.55	6.199	0.01278	KPRP	UBLCP1
1	1_158987941	17	17_78178189	1.10	6.197	0.01279	CARD14	IFI16
6	C*06:02	19	19_49416496	0.19	6.183	0.0129	NUCB1-AS1	
3	3_121810428	5	5_96139250	2.47	6.166	0.01302	CD86	ERAP1
2	2_61239020	2	2_163137695	3.45	6.161	0.01306	IFIH1	PUS10
2	2_61239020	2	2_163137871	3.44	6.138	0.01323	IFIH1	PUS10
5	5_96249323	6	B:Y140S	1.10	6.127	0.01331	ERAP2	
5	5_96139250	5	5_96232222	0.92	6.117	0.01339	ERAP1	ERAP2
5	5_96139250	16	16_10989630	3.10	6.116	0.0134	CIITA	ERAP1
1	1_67648596	17	17_78178189	1.26	6.103	0.0135	CARD14	IL23R
2	2_163137871	4	4_103537442	1.15	6.097	0.01354	IFIH1	NFKB1
2	2_61108996	5	5_79732996	11.25	6.08	0.01367	REL	ZFYVE16
6	rs118179173	20	20_48599549	0.80	6.048	0.01392	SNAI1	
5	5_96139250	5	5_96237114	0.92	6.003	0.01428	ERAP1	ERAP2
2	2_163137871	5	5_96132795	0.83	5.961	0.01462	ERAP1	IFIH1
5	5_96121715	5	5_96339273	0.91	5.924	0.01494	ERAP1	LNPEP
5	5_96125910	5	5_96222185	0.91	5.922	0.01495	ERAP1	ERAP2
2	2_61239020	2	2_163136727	3.36	5.923	0.01495	IFIH1	PUS10
5	5_96121715	17	17_78179386	0.06	5.912	0.01503	CARD14	ERAP1
5	5_96222185	6	rs118179173	1.26	5.853	0.01555	ERAP2	
6	B:Y140S	14	14_35761675	1.10	5.851	0.01557	PSMA6	
5	5_96222185	19	19_10083770	0.13	5.745	0.01654	COL5A3	ERAP2
5	5_96139250	5	5_96222183	0.92	5.736	0.01662	ERAP1	ERAP2
1	1_158986477	6	6_138539297	0.28	5.724	0.01673	IFI16	PBOV1
13	13_20763777	17	17_78178182	0.52	5.723	0.01675	CARD14	GJB2
5	5_96118852	5	5_96222185	0.92	5.721	0.01677	ERAP1	ERAP2
5	5_96125910	17	17_73997543	0.38	5.648	0.01747	CDK3	ERAP1
2	2_163149965	4	4_103537442	1.16	5.637	0.01758	IFIH1	NFKB1
5	5_96139250	5	5_96222185	0.92	5.624	0.01772	ERAP1	ERAP2
2	2_163137683	5	5_96132795	0.84	5.614	0.01782	ERAP1	IFIH1
14	14_35761675	19	19_10108794	4.90	5.607	0.01789	COL5A3	PSMA6
5	5_96249323	6	rs118179173	1.25	5.599	0.01797	ERAP2	
2	2_163149965	14	14_35761675	1.15	5.597	0.01799	IFIH1	PSMA6
5	5_96125910	5	5_96237114	0.92	5.58	0.01817	ERAP1	ERAP2
1	1_158990412	17	17_78180618	0.92	5.545	0.01853	CARD14	IFI16
1	1_152759678	6	DPB1*05:01	0.92	5.527	0.01872	LCE1E	
5	5_96222185	6	B:Y140S	1.10	5.506	0.01895	ERAP2	
5	5_96139250	5	5_96249323	0.92	5.468	0.01937	ERAP1	ERAP2
5	5_96125910	5	5_96249323	0.92	5.459	0.01946	ERAP1	ERAP2
6	B:Y91C	6	DPB1*05:01	1.16	5.454	0.01953		
2	2_163136727	4	4_103537442	1.14	5.448	0.01959	IFIH1	NFKB1
3	3_121634170	6	C*06:02	5.09	5.444	0.01964	SLC15A2	
13	13_20763612	19	19_49422277	0.20	5.423	0.01987	GJB2	NUCB1
5	5_96125910	5	5_96222183	0.92	5.42	0.01991	ERAP1	ERAP2
5	5_96252998	6	snp31443520	1.28	5.415	0.01997	ERAP2	
6	6_111896798	17	17_78178170	0.67	5.405	0.02008	CARD14	TRAF3IP2-AS1
2	2_61239020	2	2_163136771	3.24	5.396	0.02018	IFIH1	PUS10
2	2_163137683	16	16_11003052	4.53	5.39	0.02025	CIITA	IFIH1

2	2_163136771	16	16_11003052	4.53	5.375	0.02043	CIITA	IFIH1
2	2_163137695	16	16_11003052	4.52	5.363	0.02056	CIITA	IFIH1
1	1_158987941	17	17_78178182	1.09	5.346	0.02076	CARD14	IFI16
2	2_163136727	16	16_11003052	4.50	5.338	0.02086	CIITA	IFIH1
5	5_96124447	5	5_96252998	0.90	5.332	0.02094	ERAP1	ERAP2
5	5_96125910	10	10_89503220	3.89	5.332	0.02094	ERAP1	PAPSS2
2	2_163137871	16	16_11003052	4.50	5.331	0.02095	CIITA	IFIH1
5	5_158705065	5	5_158745889	3.27	5.322	0.02106	IL12B	UBLCP1
11	11_9983640	17	17_40459737	5.05	5.299	0.02134	SBF2	STAT5A
2	2_61108996	19	19_10114470	4.83	5.286	0.0215	COL5A3	REL
2	2_163136771	14	14_35761675	1.14	5.269	0.02171	IFIH1	PSMA6
6	B:Y140S	17	17_78178830	0.92	5.265	0.02176	CARD14	
6	DPB1*05:01	17	17_78156592	0.05	5.261	0.02181	CARD14	
1	1_158990412	5	5_96124296	0.87	5.254	0.0219	ERAP1	IFI16
5	5_96124296	17	17_40914660	15.10	5.213	0.02242	ERAP1	RAMP2
1	1_158986225	6	6_138539297	0.30	5.211	0.02245	IFI16	PBOV1
16	16_11003052	20	20_48467560	4.93	5.208	0.02248	CIITA	SLC9A8
6	B:Y140S	17	17_26100284	0.38	5.207	0.0225	NOS2	
5	5_96252998	5	5_96339273	0.90	5.188	0.02274	ERAP2	LNPEP
1	1_7870754	1	1_158987941	0.32	5.188	0.02275	IFI16	PER3
5	5_96139250	17	17_73997543	0.43	5.18	0.02285	CDK3	ERAP1
1	1_152681704	6	snp32472030	6.65	5.16	0.02312	LCE4A	
5	5_96125910	5	5_96232222	0.92	5.134	0.02346	ERAP1	ERAP2
1	1_67648596	19	19_10114470	13.12	5.129	0.02353	COL5A3	IL23R
6	B:Y140S	17	17_40717939	0.55	5.122	0.02363	COASY	
6	B:Y91C	12	12_111951144	15.96	5.118	0.02368	ATXN2	
5	5_96129512	19	19_10108794	0.15	5.118	0.02369	COL5A3	ERAP1
5	5_96232222	19	19_10083770	0.16	5.108	0.02381	COL5A3	ERAP2
5	5_96129512	19	19_49422277	0.46	5.107	0.02383	ERAP1	NUCB1
6	6_111896798	20	20_48599549	0.69	5.106	0.02384	SNAI1	TRAF3IP2-AS1
5	5_96222185	17	17_26100284	2.69	5.098	0.02395	ERAP2	NOS2
5	5_96222183	16	16_10989630	2.79	5.094	0.02401	CIITA	ERAP2
1	1_158986477	13	13_20763612	1.24	5.092	0.02404	GJB2	IFI16
16	16_31426307	17	17_78180618	0.40	5.091	0.02405	CARD14	ITGAD
5	5_96118852	5	5_96237114	0.92	5.082	0.02417	ERAP1	ERAP2
5	5_96125910	16	16_10989630	2.52	5.072	0.02431	CIITA	ERAP1
5	5_96222183	19	19_10083770	0.16	5.07	0.02435	COL5A3	ERAP2
5	5_96124447	5	5_96339273	0.91	5.066	0.0244	ERAP1	LNPEP
6	6_138539297	14	14_35761675	3.82	5.066	0.0244	PBOV1	PSMA6
1	1_152785272	20	20_48522585	5.61	5.04	0.02476	LCE1B	SPATA2
2	2_163137695	5	5_96132795	0.84	5.04	0.02477	ERAP1	IFIH1
5	5_158750013	19	19_49656530	0.31	5.012	0.02517	HRC	IL12B
2	2_163137871	6	C*06:02	1.23	5.008	0.02523	IFIH1	
5	5_96125910	21	21_35174730	2.32	4.999	0.02536	ERAP1	ITSN1
19	19_49207009	20	20_48524827	4.24	4.954	0.02602	FUT2	SPATA2
4	4_103644076	5	5_96222185	0.33	4.937	0.02629	ERAP2	MANBA
5	5_96129512	12	12_6570086	0.11	4.919	0.02657	ERAP1	TAPBPL
1	1_152326252	13	13_20763612	0.20	4.912	0.02667	FLG2	GJB2
1	1_26358755	14	14_35761675	14.66	4.909	0.02672	EXTL1	PSMA6
2	2_163137695	4	4_103537442	1.14	4.9	0.02686	IFIH1	NFKB1
5	5_96139250	5	5_96252998	0.91	4.895	0.02694	ERAP1	ERAP2
2	2_163136771	4	4_103537442	1.14	4.87	0.02733	IFIH1	NFKB1
2	2_163136727	5	5_96132795	0.85	4.864	0.02742	ERAP1	IFIH1
4	4_103644076	17	17_78178189	0.30	4.847	0.0277	CARD14	MANBA
5	5_96252998	12	12_6928570	3.06	4.843	0.02776	CD4	ERAP2
5	5_96339273	17	17_78166385	0.89	4.837	0.02785	CARD14	LNPEP
1	1_158990412	5	5_96121715	1.09	4.835	0.02789	ERAP1	IFI16
6	C*06:02	17	17_78178182	1.14	4.816	0.0282	CARD14	
2	2_163137871	14	14_35761675	1.13	4.802	0.02842	IFIH1	PSMA6
2	2_61239020	2	2_163149896	3.30	4.8	0.02846	IFIH1	PUS10
6	B:Y33Y	17	17_26100284	5.46	4.784	0.02872	NOS2	

2	2_163291617	14	14_35761675	1.16	4.765	0.02904	KCNH7	PSMA6
6	snp32472030	17	17_78178189	0.85	4.76	0.02913	CARD14	
1	1_7870754	6	C*06:02	0.31	4.745	0.02938	PER3	
5	5_96249323	19	19_10083770	0.16	4.736	0.02954	COL5A3	ERAP2
5	5_96118852	5	5_96222183	0.92	4.71	0.03	ERAP1	ERAP2
1	1_67648596	1	1_152733376	1.52	4.683	0.03046	IL23R	KPRP
5	5_96117300	5	5_96339273	0.92	4.673	0.03064	ERAP1	LNPEP
5	5_131720096	5	5_158750013	1.73	4.67	0.0307	IL12B	SLC22A5
5	5_96129512	5	5_96252998	0.91	4.667	0.03075	ERAP1	ERAP2
5	5_96117300	19	19_10108794	0.21	4.66	0.03087	COL5A3	ERAP1
5	5_96222183	17	17_26100284	2.55	4.659	0.03089	ERAP2	NOS2
6	6_111896798	17	17_78178189	0.69	4.657	0.03094	CARD14	TRAF3IP2-AS1
5	5_96121994	5	5_158750013	1.08	4.656	0.03095	ERAP1	IL12B
2	2_163149896	9	9_32632763	0.11	4.655	0.03097	IFIH1	TAF1L
2	2_61239020	2	2_163149965	3.28	4.651	0.03103	IFIH1	PUS10
5	5_96124447	5	5_96222185	0.92	4.649	0.03106	ERAP1	ERAP2
5	5_158705519	14	14_35761675	1.31	4.65	0.03106	PSMA6	UBLCP1
5	5_96121715	5	5_96222185	0.92	4.634	0.03134	ERAP1	ERAP2
1	1_152326252	5	5_96339273	0.44	4.632	0.03138	FLG2	LNPEP
1	1_158990412	17	17_78178182	1.08	4.616	0.03167	CARD14	IFI16
6	C*06:02	17	17_78178830	0.88	4.613	0.03172	CARD14	
5	5_96339273	12	12_6928570	2.62	4.609	0.0318	CD4	LNPEP
5	5_96124447	5	5_96249323	0.92	4.601	0.03195	ERAP1	ERAP2
5	5_96249323	13	13_20763777	1.86	4.565	0.03263	ERAP2	GJB2
14	14_35761675	17	17_78178170	1.08	4.552	0.03288	CARD14	PSMA6
5	5_96339273	6	C*07:04	1.41	4.542	0.03307	LNPEP	
6	C*06:02	6	B:Y33Y	1.17	4.518	0.03353		
2	2_61239020	5	5_96139250	1.95	4.505	0.0338	ERAP1	PUS10
16	16_31426307	17	17_78166385	2.63	4.493	0.03404	CARD14	ITGAD
1	1_158986225	19	19_10102542	4.26	4.49	0.03409	COL5A3	IFI16
5	5_96237114	16	16_10989630	2.51	4.48	0.03429	CIITA	ERAP2
5	5_96121715	5	5_96237114	0.93	4.472	0.03446	ERAP1	ERAP2
2	2_163137871	4	4_103534560	1.12	4.469	0.03451	IFIH1	NFKB1
1	1_152733376	4	4_103514445	0.85	4.469	0.03451	KPRP	NFKB1
3	3_121810428	13	13_20763612	6.03	4.467	0.03455	CD86	GJB2
5	5_96222185	16	16_10989630	2.49	4.463	0.03465	CIITA	ERAP2
5	5_96232222	16	16_10989630	2.50	4.457	0.03475	CIITA	ERAP2
2	2_61239020	5	5_96252998	2.14	4.441	0.03509	ERAP2	PUS10
1	1_67648596	17	17_78178830	0.83	4.428	0.03536	CARD14	IL23R
1	1_67648596	17	17_78156592	0.05	4.42	0.03552	CARD14	IL23R
5	5_96118852	5	5_96249323	0.93	4.406	0.03581	ERAP1	ERAP2
5	5_96121715	10	10_89503220	3.17	4.401	0.03592	ERAP1	PAPSS2
5	5_96237114	13	13_20763777	1.84	4.401	0.03593	ERAP2	GJB2
5	5_96121715	5	5_96249323	0.93	4.392	0.03611	ERAP1	ERAP2
1	1_7870754	1	1_158986225	0.37	4.392	0.03611	IFI16	PER3
5	5_96121994	12	12_6570086	0.15	4.392	0.03612	ERAP1	TAPBPL
5	5_158705519	17	17_78166385	1.46	4.373	0.0365	CARD14	UBLCP1
2	2_163137695	6	C*06:02	1.22	4.371	0.03655	IFIH1	
2	2_163136771	5	5_96132795	0.85	4.359	0.0368	ERAP1	IFIH1
5	5_96339273	8	8_3226851	2.70	4.358	0.03684	CSMD1	LNPEP
5	5_96129512	17	17_73997543	0.46	4.353	0.03694	CDK3	ERAP1
2	2_163149965	9	9_32632763	0.12	4.335	0.03733	IFIH1	TAF1L
19	19_49207009	20	20_48522585	3.87	4.332	0.03739	FUT2	SPATA2
6	B:Y140S	16	16_31230499	0.25	4.307	0.03796	TRIM72	
5	5_96121994	19	19_10108794	0.22	4.306	0.03798	COL5A3	ERAP1
17	17_78180618	19	19_10462241	3.96	4.304	0.03802	CARD14	TYK2
5	5_96237114	19	19_10083770	0.18	4.293	0.03827	COL5A3	ERAP2
6	6_111896798	17	17_78178830	1.43	4.291	0.03831	CARD14	TRAF3IP2-AS1
1	1_152785272	20	20_48524827	4.55	4.282	0.03852	LCE1B	SPATA2
5	5_96118852	5	5_96232222	0.93	4.278	0.0386	ERAP1	ERAP2
1	1_152759678	5	5_150509088	1.97	4.273	0.03872	ANXA6	LCE1E

6	snp32472030	17	17_78178830	1.17	4.264	0.03893	CARD14	
5	5_96118852	17	17_73997543	0.48	4.259	0.03905	CDK3	ERAP1
5	5_96125910	19	19_10108794	0.22	4.252	0.03921	COL5A3	ERAP1
2	2_163291617	5	5_96249323	1.15	4.251	0.03922	ERAP2	KCNH7
5	5_96252998	17	17_73997543	0.43	4.245	0.03936	CDK3	ERAP2
2	2_61239020	5	5_96237114	2.13	4.245	0.03936	ERAP2	PUS10
5	5_96222183	6	snp31443520	1.21	4.233	0.03964	ERAP2	
1	1_158987941	17	17_78178170	1.08	4.231	0.0397	CARD14	IFI16
5	5_158750013	8	8_3226851	0.41	4.225	0.03983	CSMD1	IL12B
5	5_96117300	17	17_78179386	0.19	4.224	0.03985	CARD14	ERAP1
5	5_96125910	12	12_6570086	0.15	4.221	0.03992	ERAP1	TAPBPL
2	2_163137683	6	C*06:02	1.21	4.221	0.03994	IFIH1	
5	5_96124447	5	5_96237114	0.93	4.218	0.03999	ERAP1	ERAP2
6	DPB1*05:01	13	13_20763777	1.80	4.218	0.04	GJB2	
2	2_61239020	5	5_96232222	2.12	4.211	0.04016	ERAP2	PUS10
1	1_158986225	13	13_20763612	1.22	4.206	0.04028	GJB2	IFI16
3	3_121634179	6	DPB1*05:01	0.33	4.206	0.04029	SLC15A2	
1	1_158986477	19	19_10102542	4.04	4.203	0.04035	COL5A3	IFI16
2	2_163137683	4	4_103537442	1.13	4.203	0.04035	IFIH1	NFKB1
6	snp32472030	17	17_78178182	0.86	4.19	0.04065	CARD14	
13	13_40253646	17	17_78166385	4.94	4.189	0.0407	CARD14	COG6
5	5_96117300	12	12_6570086	0.16	4.172	0.04109	ERAP1	TAPBPL
6	B:Y33Y	17	17_78156592	0.20	4.171	0.04111	CARD14	
5	5_96232222	13	13_20763777	1.80	4.17	0.04113	ERAP2	GJB2
2	2_163136727	14	14_35761675	1.12	4.159	0.04141	IFIH1	PSMA6
5	5_96252998	6	C*06:02	0.87	4.158	0.04144	ERAP2	
1	1_152681704	4	4_103534560	2.15	4.144	0.04179	LCE4A	NFKB1
16	16_31095251	21	21_35174730	4.14	4.132	0.04207	ITSN1	PRSS53
5	5_96124447	5	5_96232222	0.93	4.132	0.04208	ERAP1	ERAP2
4	4_103644076	17	17_78178830	2.70	4.131	0.0421	CARD14	MANBA
5	5_96121715	5	5_96222183	0.93	4.129	0.04215	ERAP1	ERAP2
19	19_53453735	20	20_48524827	2.81	4.115	0.04249	SPATA2	ZNF816
6	B:Y33Y	16	16_31230499	4.25	4.113	0.04256	TRIM72	
1	1_152785272	6	B:Y140S	0.23	4.107	0.0427	LCE1B	
5	5_96339273	6	snp31443520	1.22	4.104	0.04278	LNPEP	
5	5_96132795	19	19_49207009	0.19	4.104	0.04279	ERAP1	FUT2
5	5_96124447	17	17_73997543	0.47	4.079	0.04341	CDK3	ERAP1
5	5_96121715	12	12_6570086	0.16	4.062	0.04387	ERAP1	TAPBPL
5	5_96125910	6	B:Y140S	1.08	4.058	0.04395	ERAP1	
5	5_96232222	6	B:Y91C	1.13	4.051	0.04415	ERAP2	
6	snp32472030	13	13_40253646	4.79	4.022	0.04491	COG6	
4	4_103644076	5	5_96232222	0.39	4.021	0.04495	ERAP2	MANBA
1	1_7870754	5	5_96132795	3.36	4.015	0.04509	ERAP1	PER3
4	4_103644076	5	5_96237114	0.39	4.014	0.04511	ERAP2	MANBA
5	5_96124447	5	5_96222183	0.93	4.005	0.04537	ERAP1	ERAP2
11	11_128442968	17	17_78166385	5.35	3.999	0.04553	CARD14	ETS1
5	5_96121715	5	5_96252998	0.91	3.999	0.04553	ERAP1	ERAP2
2	2_163149965	12	12_6161963	0.11	3.998	0.04556	IFIH1	VWF
1	1_158987941	5	5_96121715	1.08	3.995	0.04563	ERAP1	IFI16
5	5_79732996	20	20_48467560	6.50	3.985	0.04591	SLC9A8	ZFYVE16
14	14_35761675	17	17_78178182	1.08	3.984	0.04594	CARD14	PSMA6
5	5_96125910	17	17_78179386	0.24	3.979	0.04606	CARD14	ERAP1
2	2_163136771	6	C*06:02	1.21	3.975	0.04618	IFIH1	
5	5_96117300	16	16_10989630	2.22	3.972	0.04625	CIITA	ERAP1
6	C*06:02	17	17_78178189	1.13	3.972	0.04626	CARD14	
17	17_78178170	19	19_10090489	3.85	3.968	0.04638	CARD14	COL5A3
5	5_96118852	19	19_10108794	0.23	3.966	0.04644	COL5A3	ERAP1
2	2_163149965	4	4_103534560	1.13	3.965	0.04644	IFIH1	NFKB1
1	1_234582720	17	17_78180618	5.49	3.964	0.04648	CARD14	TARBP1
5	5_96139250	11	11_9990163	0.24	3.95	0.04686	ERAP1	SBF2
6	DPB1*05:01	17	17_73997543	0.47	3.947	0.04695	CDK3	

2	2_163291617	5	5_96237114	1.15	3.944	0.04703	ERAP2	KCNH7
4	4_103534560	12	12_6638975	0.31	3.938	0.04721	NCAPD2	NFKB1
2	2_163137683	11	11_9990163	5.91	3.928	0.04749	IFIH1	SBF2
10	10_102240949	17	17_78178830	0.25	3.921	0.04769	CARD14	WNT8B
2	2_61108996	5	5_150509088	2.69	3.919	0.04774	ANXA6	REL
10	10_102240949	17	17_78178182	3.95	3.913	0.04792	CARD14	WNT8B
1	1_158986477	17	17_40717939	0.56	3.903	0.04819	COASY	IFI16
5	5_96121994	5	5_96339273	0.93	3.896	0.04839	ERAP1	LNPEP
2	2_163137695	11	11_9990163	5.87	3.896	0.0484	IFIH1	SBF2
6	B:Y33Y	6	snp32472030	0.83	3.896	0.04841		
5	5_96237114	17	17_26100284	2.35	3.89	0.04857	ERAP2	NOS2
2	2_163136727	11	11_9990163	5.85	3.883	0.04878	IFIH1	SBF2
1	1_159002778	1	1_234582720	3.65	3.878	0.04893	IFI16	TARBP1
6	B:Y33Y	11	11_9983640	3.47	3.877	0.04894	SBF2	
5	5_96232222	17	17_26100284	2.35	3.867	0.04924	ERAP2	NOS2
5	5_96121715	19	19_10108794	0.24	3.853	0.04964	COL5A3	ERAP1
10	10_102240949	17	17_78178170	3.94	3.852	0.0497	CARD14	WNT8B
2	2_163149896	3	3_121634170	0.36	3.852	0.0497	IFIH1	SLC15A2
4	4_103644076	17	17_78178182	0.38	3.849	0.04977	CARD14	MANBA
5	5_96121715	5	5_96232222	0.93	3.849	0.04977	ERAP1	ERAP2
5	5_131647989	17	17_78178830	0.47	3.846	0.04986	CARD14	LOC553103
5	5_96339273	16	16_10989630	2.40	3.843	0.04996	CIITA	LNPEP
5	5_158750013	6	B:Y91C	0.89	3.843	0.04996	IL12B	
1	1_152384498	5	5_96124296	0.20	3.843	0.04997	CRNN	ERAP1