

**Table S5.** The prevalent HLA genes representing human populations used for epitope prediction.

Source: The dbMHC database. <http://www.ncbi.nlm.nih.gov/projects/gv/mhc/>

	<b>HLA-A</b>	Frequency	<b>HLA-B</b>	Frequency	<b>HLA-DRB1</b>	Frequency
Australia	A*34:01	0.401	B*13:01	0.238	DRB1*08:03	0.325
Oceania	A*24:02	0.383	B*40:01	0.144	DRB1*15:02	0.327
Europe	A*01:01	0.164	B*07:02	0.139	DRB1*15:01	0.162
North America	A*24:02	0.377	B*40:02	0.159	DRB1*14:02	0.189
South America	A*31:01	0.358)	B*15:04	0.117	DRB1*16:02	0.304
North-East Asia	A*11:01	0.091	B*51:01	0.095	DRB1*15:01	0.099
South-East Asia	A*24:02	0.299	B*40:01	0.165	DRB1*12:02	0.155
South-West Asia	A*11:01	0.123	B*51:01	0.095	DRB1*03:01	0.109
North Africa	A*02:01	0.176	B*44:03	0.099	DRB1*03:01	0.161
Sub-Saharan Africa	A*23:01	0.105	B*53:01	0.08	DRB1*15:03	0.118