

**Supplemental Table 3. Linkage disequilibrium between *HLA-DPB1* alleles and 496A/G and *HLA-DPB1* alleles and 550A/G in the European American population with a haplotype frequency of >1%**

<i>HLA-DPB1</i>	496A/G	Frequency	D <sup>a</sup>	P	<i>HLA-DPB1</i>	550A/G	Frequency	D'	P
*01:01	G	0.045	1.0	<0.0001	*01:01	A	0.045	1.0	<0.0001
*03:01	G	0.099	1.0	<0.0001	*03:01	G	0.099	1.0	<0.0001
*05:01	G	0.020	1.0	<0.0001	*05:01	G	0.020	1.0	<0.0001
*06:01	G	0.020	0.9	<0.0001	*06:01	G	0.020	0.9	<0.0001
*10:01	G	0.017	1.0	<0.0001	*10:01	G	0.017	1.0	<0.0001
*11:01	G	0.023	1.0	<0.0001	*11:01	G	0.023	1.0	<0.0001
*13:01	G	0.026	1.0	<0.0001	*13:01	G	0.026	1.0	<0.0001
*14:01	G	0.019	1.0	<0.0001	*14:01	G	0.019	1.0	<0.0001
*02:01	A	0.135	1.0	<0.0001	*02:01	A	0.135	1.0	<0.0001
*04:01	A	0.411	1.0	<0.0001	*04:01	A	0.411	1.0	<0.0001
*04:02	A	0.122	1.0	<0.0001	*04:02	A	0.122	1.0	<0.0001
*17:01	A	0.014	1.0	NS <sup>b</sup>	*17:01	A	0.014	1.0	NS

<sup>a</sup>D' linkage disequilibrium

<sup>b</sup>NS- not significant

N=662