

**Supplemental Table 4. Pairwise LD between the SNPs of the HLA region:  $r^2$  (top right half) and  $D'$  (bottom left half) for all cohorts (top), Europeans (middle) and Asians (bottom).**

**All cohorts: N = 10,755**

$D'$ \ $r^2$	rs9275224	rs2856717	rs9275424	rs9275596	rs9357155	rs1883414
rs9275224		0.543	0.212	0.387	0.000	0.014
rs2856717	0.998		0.117	0.715	0.004	0.001
rs9275424	0.997	0.997		0.091	0.000	0.003
rs9275596	0.946	0.947	0.993		0.002	0.001
rs9357155	0.049	0.101	0.013	0.066		0.001
rs1883414	0.159	0.030	0.163	0.039	0.108	

**European Cohorts: N=5,938**

$D'$ \ $r^2$	rs9275224	rs2856717	rs9275424	rs9275596	rs9357155	rs1883414
rs9275224		0.623	0.205	0.451	0.005	0.000
rs2856717	0.998		0.130	0.715	0.000	0.002
rs9275424	0.997	0.998		0.104	0.007	0.000
rs9275596	0.943	0.938	0.994		0.002	0.002
rs9357155	0.229	0.041	0.127	0.206		0.003
rs1883414	0.028	0.093	0.029	0.115	0.101	

**Asian Cohorts: N=4,723**

$D'$ \ $r^2$	rs9275224	rs2856717	rs9275424	rs9275596	rs9357155	rs1883414
rs9275224		0.437	0.217	0.300	0.003	0.050
rs2856717	0.997		0.096	0.699	0.037	0.004
rs9275424	0.998	1.000		0.072	0.010	0.008
rs9275596	0.950	0.959	0.995		0.039	0.008
rs9357155	0.102	0.224	0.381	0.200		0.007
rs1883414	0.343	0.065	0.286	0.105	0.381	