

Supplementary Table S2: Allele frequencies of unique HLA alleles (alleles observed only once) in our study cohort (LSVH carrying the same *MLH1*:c.1528C>T PV) and other HLA-tested non-LSVH South African Populations. Note: Crosses indicate that the allele was not typed in the specific population.

Allele	SA LSVH	SA Worcester	SA Black	SA Caucasians	SA Natal Zulu	SA Natal Tamil	SA Indian population	SA Mixed ancestry	SA Limpopo Venda
A*01:23	0.005	0.016	X	X	X	X	X	X	X
A*02:11	0.005	0.006	X	X	0.000	0.130	0.040	0.020	X
A*02:24	0.005	0.000	X	X	X	X	X	X	X
A*33:01	0.005	0.006	X	0.010	0.000	X	X	X	X
A*36:01	0.005	0.006	0.007	0.000	0.000	X	X	X	X
A*74:01	0.005	0.031	X	0.000	X	X	X	X	X
B*13:01	0.005	X	X	X	0.000	0.061	X	X	X
B*14:01	0.005	0.009	X	0.005	0.04	X	X	X	X
B*14:03	0.005	X	X	X	X	X	X	X	X
B*35:02	0.005	0.006	X	X	0.000	X	X	X	X
B*39:06	0.005	X	X	X	0.000	X	X	0.010	X
B*42:01	0.005	0.022	X	0.000	0.12	X	X	X	X
B*53:01	0.005	0.025	X	0.000	0.015	X	X	X	X
B*81:01	0.005	0.016	0.039	X	0.035	X	X	0.010	X
C*02:02	0.005	0.028	0.025	0.069	X	0.010	X	0.040	X
DPA1*01:05	0.005	X	X	X	X	X	X	X	X
DPB1*10:01	0.005	X	X	X	X	X	X	X	X
DPB1*106:01	0.005	0.006	0.007	X	X	X	X	X	X
DPB1*18:01	0.005	0.041	0.056	X	X	X	X	X	X
DPB1*20:01	0.005	X	X	X	X	X	X	X	X
DPB1*28:01	0.005	0.006	X	X	X	X	X	X	X
DPB1*296:01	0.005	X	X	X	X	X	X	X	X
DRB1*03:02	0.005	0.041	0.092	0.005	X	X	X	X	0.090
DRB1*04:03	0.005	0.006	X	0.016	X	X	X	X	X
DRB1*04:129	0.005	X	X	X	X	X	X	X	X
DRB1*08:03	0.005	0.003	X	X	X	X	X	X	X
DRB1*08:12	0.005	X	X	X	X	X	X	X	X
DRB1*11:02	0.005	0.025	0.070	0.000	X	X	X	X	X
DRB1*11:03	0.005	X	X	X	X	X	X	X	X
DRB1*11:04	0.005	0.006	X	0.037	X	X	X	X	X
DRB1*12:01	0.005	0.025	0.028	0.011	X	X	X	X	X
DRB1*14:04	0.005	0.016	X	0.005	X	X	X	X	X
DRB3*02	0.005	X	X	X	X	X	X	X	X
DRB3*03:Novel	0.005	X	X	X	X	X	X	X	X