**Supplemental Table S1. Summary of cumulative *HLA-A, B, C, DRB1,3,4,5* and *DQB1* allele frequencies represented in 108 genomic DNA panel.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***HLA*** | **CAU\_freq** | **AFA\_freq** | **API\_freq** | **HIS\_freq** | **NAM\_freq** |
| *A* | 98.989% | 95.293% | 83.343% | 96.919% | 98.743% |
| *B* | 97.491% | 83.250% | 74.707% | 85.626% | 93.649% |
| *C* | 99.512% | 93.783% | 92.143% | 96.979% | 98.463% |
| *DRB1* | 98.251% | 90.216% | 90.283% | 90.861% | 88.675% |
| *DQB1* | 99.567% | 99.644% | 99.953% | 99.861% | 99.884% |
| *DRB3,4,5* | 99.679% | 99.962% | 99.848% | 99.855% | 99.940% |

Frequencies were obtained from https://bioinformatics.bethematchclinical.org/HLA-Resources/Haplotype-Frequencies/Be-The-Match-Registry-Haplotype-Frequencies; last accessed 10-22-2017.23

AFA, African American; API; Asian or Pacific Islander; CAU, Caucasian; HIS; Hispanic; NAM; Native American.