Supplementary Table 8a. Number of genotyped SNPs omitted and retained for each quality filter in both 3DFN and OFC data

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **3DFN** | **OFC** |
| **Step** | **Filter** | **SNPs omitted** | **SNPs cumulatively retained** | **SNPs****omitted** | **SNPs****cumulative retained** |
| 1 | None (all SNPs) |  | 968,515 |  | 557,677  |
| 2 | CIDR technical filters | 8,470 | 960,045 | 9,625  | 548,052  |
| 3 | Missing call rate ≥ 2% | 9,675 | 950,370 | 5,891  | 542,161  |
| 4 | >1 discordant calls in 69 duplicates a c>2 discordant calls in 264 study duplicates b | 26 | 950,344 | 42  | 542,119  |
| 5 | >1 Mendelian error across 8 HapMap trios a>20 Mendelian errors in 5,288 parent-offspring trios or dyads b | 122 | 950,222 | 2,410  | 539,709  |
| 6 | HWE p-value < 10-4 | 2,038 | 948,184 | 194  | 539,515  |
| 7 | Allele frequency difference ≥ 0.2 between sexes d | 274 | 947,910 | 42  | 539,473  |
| 8 | Heterozygosity difference > 0.3 between sexes d | 41 | 947,869 | 0  | 539,473  |
| 9 | Positional duplicates  | 19,597 | 928,272 | 7,278  | 532,195  |
| 10 | Monomorphic (MAF = 0) | 108,485 | 819,787 | 76,746  | 455,449  |
| 11 | MAF < 0.01 | 162,618 | 659,955 | 161,816  | 293,633  |

a 3DFN filter

b OFC filter

c one duplicate was removed from QC filters due to a chromosomal anomaly

d filter applied to SNPs on autosomes and XY pseudo-autosomal region on homogeneous genetic ancestry sample

Supplementary Table 8b. Number of imputed SNPs omitted and retained for each quality filter in both 3DFN and OFC data

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **3DFN** | **OFC** |
| **Step** | **Filter** | **SNPs omitted** | **SNPs cumulatively retained** | **SNPs****omitted** | **SNPs****cumulative retained** |
| 1 | None (all SNPs) |  | 34,985,077 |  | 32,630,291 |
| 2 | Info score < 0.5 | 14,834,852 | 20,150,225 | 3,654,625 | 28,975,666 |
| 3 | MAF < 0.01 | 10,667,544 | 9,482,681 | 19,764,092 | 9,211,574 |