b а All Public databases CHN 40K 0.4M HKG Shared 0.6M 1.9M 15.4M KOR Novel SNP 404.9M MNG 6.9M 25.2M (n = 15.4M)2.6M JPN NARD 2.8M С Singleton Rare Common 10,000,000 1,000,000 100,000 Number of SNP 10,000 1,000 100 10 1 Intergenic Intronic ncRNA UTR Exonic Splicing

Supplementary Figure 2. Novel variant statistics. a, Number of novel SNPs that were not identified in elsewhere. Public databases include Kaviar, gnomAD (2.1.1 release), and dbSNP150. **b**, Distribution of novel SNP per population. Novel SNPs found in multiple and all populations were included in 'Shared' and 'All', respectively. c, Distribution of novel SNPs based on RefSeq gene definition.