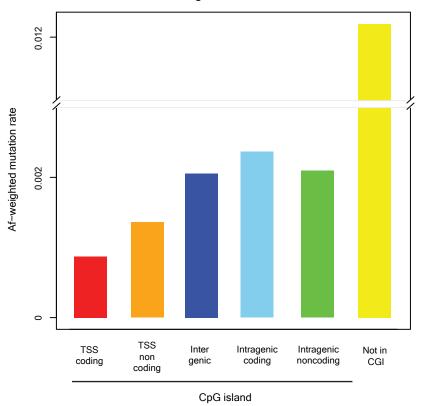


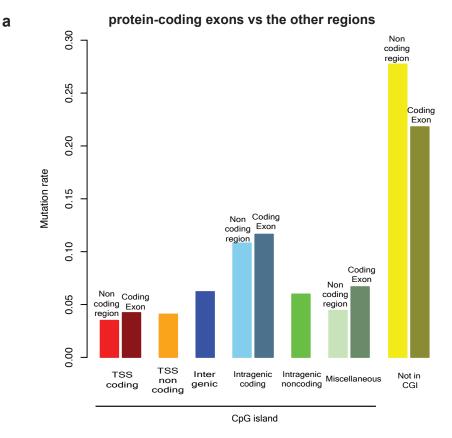
Fig S1. C > T substitution rate according to each CGI type in different populations. a In the 1,000 Genomes, PCAWG, and ExAC projects. **b** The C>T substitution rate in each ethnic group from the 1,000 Genomes project including east Asian (EAS), American (AMR), African (AFR), European (EUR), and South Asian (ASA). **c** The C > T substitution rate from individual genotypes.

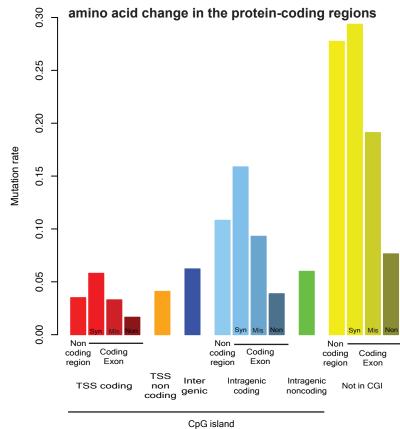
Fig. S2

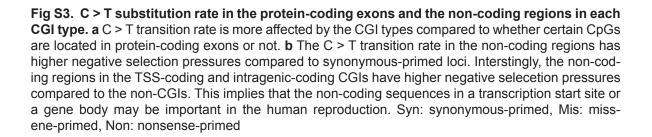


Af-weighted mutation rate

Fig S2. Af-weighted C>T substitution rate according to the CGI types.







b

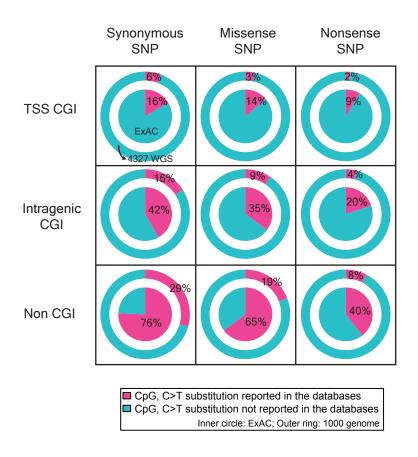


Fig S4. Proportions of the reported C > T substitutions at all the CpG contexts in the coding sequences. Among all cytosines ($0\% \le$ methylation level $\le 100\%$) at the CpG dinucleotide sequence contexts in the coding sequences, proportions of the reported C > T substitutions in the ExAC (inner circle) and the 1,000 Genomes and PCAWG (outer ring) database are illustrated. Nonsense-primed CpG loci are negatively selected compared to missense-primed and silent-primed CpG loci.