

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: The basic statistical information of the SV dataset. (a) Samples and ONT sequencing statistical information. (b) Manual curation of 240 SVs across all samples. (c) PCR validation of 4 SVs in 57 samples and 48 SVs in 3 samples. (d) Statistics of PacBio HiFi sequencing data. (e) The novel SV hotspots. (f) Samples and NGS statistical information.

File Name: Supplementary Data 2

Description: Functional annotation of SVs (a) The annotation information of SVs with $FST > 0.1$. (b) SV-SNP-GWAS-phenotype analysis results of the Chinese Han and Tibetan-specific SVs.

File Name: Supplementary Data 3

Description: Proteins identified in DNA pull-down assays of the sequence of dbsv66240.

File Name: Supplementary Data 4

Description: Key Resource Tables of Tools and Public Data used in the article.