Description of Additional Supplementary Files

File Name: Supplementary Data 1. Description: Sample information.

File Name: Supplementary Data 2. Description: 10xG de novo assembly statistics.

File Name: Supplementary Data 3.

Description: NUI dataset comparisons with 1KGP and gnomAD.

File Name: Supplementary Data 4.

Description: Summary of NUIs overlapping genic elements.

File Name: Supplementary Data 5.

Description: Summary of NUIs overlapping regulatory elements.

File Name: Supplementary Data 6.

Description: Genotype distributions of the four NUIs illustrated in Figure 3.

File Name: Supplementary Data 7.

Description: SGDP Unmapped reads analysis.

File Name: Supplementary Data 8.

Description: Novel SNPs and indels identified by GATK HaplotypeCaller in the NUIs among 70 SGDP samples.

File Name: Supplementary Data 9.

Description: Significant gene ontology terms by tissue types using previously unmapped RNA-Seq reads.

File Name: Supplementary Data 10.

Description: Summary of closed reference N-gaps.

File Name: Supplementary Data 11. Description: Overall NUI summary.

File Name: Supplementary Data 12.

Description: Reference coordinates mapping table.

File Name: Supplementary Data 13. Description: HDR vs Hg38 pipeline comparisons.