**High throughput functional variant screens *via* in-vivo production of single-stranded DNA**

Index of supplemental materials:

**Supplemental\_file\_1 (Supplemental sequences)**: annotated list of selected oligonucleotides used in the study

**Supplemental\_file\_2 (supplemental sequence maps)**: generalized genbank plasmid maps for Retron Recombineering plasmids used in this study, and a sf.GFP-expressing control plasmid.

**Supplemental\_file\_3**: summarized data and source data for Figure 2B. Edited fraction across genotype and SSAP.

**Supplemental\_file\_4**: summarized data from Figure 3C, showing the enrichment scores for all alleles

**Supplemental\_file\_5**: summary of aberrantly low and high genomic coverage obtained in the RLR library, resulting from alignment artifacts.

All data and scripts necessary to reproduce figures and analysis can be found at <https://github.com/churchlab/rlr>