

Supplementary Table S1: dsODN source and sequence used this study

| Vendor | Oligo Name | Sequence | Modifications | Purification |
|-----------------------------|----------------------------------|----------------------------------------------------------|----------------------------------------------|---------------------|
| Integrated DNA Technologies | GUIDE-seq dsODN oligo sense | 5'- P- G*T*TTAATTGAGTTGTCATA TGTTAATAACGGT*A*T -3' | * Phosphorothioate; 5'-Phosphate group | HPLC |
| | GUIDE-seq dsODN oligo anti-sense | 5'- P- A*T*ACCGTTATTAACATAT GACAACTCAATTAA*A*C -3' | *Phosphorothioate; 5'-Phosphate group | HPLC |