**SUPPLEMENTARY MATERIAL**

gRNA1

|  |  |  |
| --- | --- | --- |
| Genomic location | Number of mismatches | Sequence (including mismatches) |
| chr5:18491439 | 3 | CCTGGCTCgCTCCTgaGATGCCA |

gRNA2

|  |  |  |
| --- | --- | --- |
| Genomic location | Number of mismatches | Sequence (including mismatches) |
| chr14:3263303 | 2 | CCAAGGAGaGAGCCAGGCACAgA |

|  |  |  |
| --- | --- | --- |
| Genomic location | Number of mismatches | Sequence (including mismatches) |
| chr15:6211502 | 3 | TGCTTgCCTAGcCAGCAGtGGGG |
| chr26:4378652 | 3 | CCCagCTGCTGCCTtGGGAAGCA |

**Table S1. Predicted off-targets for each gRNA.**