

Table S2. Oligonucleotide primers and RNAs used in this study.

Sequences for construction of plasmids used for genome editing	
sgRNA sequence	GCCAGGGGGCGTGCGGCAGCG
Left homology arm primer (F)	CAAGCTTGGTACCGAGCTCGG AGGGTCTGAGGAAAGGCTCAC
Left homology arm primer (R)	AGGCCAGCGCTGCCGCACGCCCTGGCA
Right homology arm primer (F)	CGTGCGGCAGCGCTGGCCTCGAGCGCCCGCAGCCACCTCT
Right homology arm primer (R)	CCTCTAGATGCATGCTCGAGCG TGCCGACTACCGCTTCTTAC

Primers used for clone screening and Sanger sequencing	
Clone Screening - Forward	TCAGGCGCTCAGCTCCGTTTTCGGTTTCA
Clone Screening - Reverse	AAGCGCCATTGGAGCCCCGCACTTCC
Sequencing PCR – Forward	TTCGGTTTCACTTCCGGTGGAG
Sequencing PCR – Reverse	GTTAGGGTCTTCTGAAACTTTTGG
Sequencing Primer	CGTCACTTAGCGCCGATTTCC

Primers used for CRISPR off-target analysis	
Predicted Site #1 (Chr2: 240043328)	
Sequence	CCGAGGGGGCGTGCGGCAGCG
Forward Primer	GCCGCATCTCTTTAGTGTCC
Reverse Primer	GAGAAGCAGGCTTTGTTTGC
Nested Sequencing Primer	CTGGCCTGCGTCACAGAG
Predicted Site #2 (Chr4: 154712220)	
Sequence	CTTCCGGGGCGTGCGGCAGCG
Forward Primer	CCCCCTTCCCAACATAAACT
Reverse Primer	TCAATTGGACCGGTCTTAGC
Nested Sequencing Primer	ATAAGGGCCCTCTCGCTTT
Predicted Site #3 (Chr7: 1200361)	
Sequence	CCAGGGGGCGGGGGGCAGCG
Forward Primer	AGCACCTAGATCCCCCAGTT
Reverse Primer	TTTCTGCAGAGATGGGGTCT
Nested Sequencing Primer	AGGCTGGTCTCCATGTCCT
Predicted Site #4 (Chr5: 153174276)	
Sequence	CAAGGGCGAGTGCGGCAGCG
Forward Primer	AGCACCTAGATCCCCCAGTT
Reverse Primer	TTTCTGCAGAGATGGGGTCT
Nested Sequencing Primer	AGGCTGGTCTCCATGTCCT
Predicted Site #5 (ChrX: 107019364)	
Sequence	CGAGGGTGCGAGCGGCAGCG
Forward Primer	AGGAGCTGAGAGCGAGTGAG
Reverse Primer	AGGGCGTCGTCTTCTGTA
Nested Sequencing Primer	AGCACTGGGATATGACAGCA