Table S2 Comparison of observed versus predicted guide RNA editing efficiency using the Doench *et al.* 2014 algorithm

GG Guides

Target Gene	Guide RNA	Protospacer Sequence (PAM)	sgRNA Bases 19,20	Mutagenesis Rate (%)	sgRNA Score (Doench *et al*. 2014)
lir-2	3' GG	GGCTGATTTTCGCAGTTCGG (GGG)	GG	72	no value
Y62E10A.17	3' GG	CGCACCGATGCTCTCCGAGG (AGG)	GG	57	0.041
sex-1	3' GG (1)	GGATGAGAATCTGACAAAGG (TGG)	GG	54	0.198
cpsf-2	3' GG	CACTTTCAATTTGATAATGG (AGG)	GG	52	0.063
sex-1	3' GG (2)	AACATTTCCACAACGAGAGG (AGG)	GG	51	0.439
fox-1	3' GG (1)	ATATGAGGGGAGTGAGGCGG (TGG)	GG	29	0.178
fox-1	3' GG (3)	ATTACAGTGAAGTACAGCGG (AGG)	GG	21	0.749
fox-1	3' GG (2)	AATATCGTTTACCAAAACGG (GGG)	GG	13	0.422
xol-1	3' GG	AGCGATTTCTGGCGATTGGG (GGG)	GG	10	0.277

Non-GG Guides

sex-1	3' GG-shift (1)	AACGGATGAGAATCTGACAA (AGG)	AA	21	0.282
fox-1	3' GG-shift (1)	CATTTGATATGAGGGGAGTG (AGG)	TG	20	0.063
Y62E10A.17	3' GG-shift	ATACGCACCGATGCTCTCCG (AGG)	CG	14	0.887
sex-1	3' GG-shift (2)	TGGAACATTTCCACAACGAG (AGG)	AG	8	0.355
lir-2	3' GG-shift	CTCGGCTGATTTTCGCAGTT (CGG)	TT	1	no value
cpsf-2	3' GG-shift	AAACACTTTCAATTTGATAA (TGG)	AA	0	0.026
fox-1	3' GG-shift (2)	TTGAATATCGTTTACCAAAA (CGG)	AA	0	0.106
fox-1	3' GG-shift (3)	ACAATTACAGTGAAGTACAG (CGG)	AG	0	0.669
xol-1	3' GG-shift	TCTAGCGATTTCTGGCGATT (GGG)	TT	0	0.010
cpsf-2	3' non-GG (1)	GTGGTTGGGATGAGCGATTC (GGG)	TC	0	0.005
lir-2	3' non-GG (1)	AATCAGCCGAGATGTAAGTT (TGG)	TT	0	0.045
lir-2	3' non-GG (2)	TTGACTCGTTCCATTTCAGC (TGG)	GC	0	0.108
sex-1	3' non-GG (1)	AAACCTGCCTCCTCTCGTTG (TGG)	TG	0	0.156

This table provides a comparison of our observed editing frequencies using 3' GG and non-GG guides compared to the scores we derived using the algorithm from Doench *et al.* (2014) that predicts guide editing frequencies based on experiments in mammalian cells. See website: http://www.broadinstitute.org/rnai/public/analysis-tools/sgrna-design. The presence of the 3' GG motif in the protospacer is a better predictor of editing outcome than the algorithm. A score of 1 by this algorithm indicates a highly efficient guide.