Table S1 List of oligonucleotide primers used in this study

klp-12 **GFP transgene donor vector cloning and recombinant screening primers**	
klp-12 F	CGACGTTGTAAAACGACGGCCAGTGAATTCGATTCACACAACTTGCGAAAATTCTTG
klp-12 PAM mut HIII R	GTAAATGAACGATCAGGACCAATTGTAAGCTTGTGGATCA
klp-12 PAM Peft-3 F	CAATTGGTCCTGATCGTTCATTTACGCACCTTTGGTCTTTTATTGTCAACT
Peft-3 GFP R (P2)	GTGAAAAGTTCTTCTCCTTTACTCATTAAGCCTGCTTTTTTGTACAAACTTGTGAG
GFP F	ATGAGTAAAGGAGAAGAACTTTTCAC
intron R	GTACCGAACTGTTTAAACTTACGTG
intron GFP F	CACGTAAGTTTAAACAGTTCGGTACTAACTAACCATACATATTTAAATTTTCAGGTGCTG
GFP tbb-2 UTR R	GGGAATGCTTGAAAGGATTTTGCATTTATCCTATTTGTATAGTTCATCCATGCCATG
tbb-2 UTR F (P3)	GATAAATGCAAAATCCTTTCAAGCATTCC
tbb-2 UTR klp-12 R	GAGTAGGCATATCAAATACATGATCTGAGACTTTTTTCTTGGCGGCACA
klp-12 ds F	GATCATGTATTTGATATGCCTACTC
klp-12 R	AACAGCTATGACCATGATTACGCCAAGCTTGAAGACGTGTCAATTTCGAATCAC
klp-12 us outside HR F (P1)	GAGCGAAAAGTGTCGGTTATTTACG
klp-12 ds outside HR R (P4)	CATCAGTGTTCGGCTGAAATGTGATAG
Cloning ***lab-1*** **upstream region**	
lab-1-974UPSF-bglII	TTCTGAAGATCTGGAATGGACTGTCATTAGAC
lab1-2-UPSR-bglII	TGGCTCAGATCTGTTGAATAAAGTCGAGGATC
Cloning ***lab-1*** **downstream region**	
lab-1-24F-sacII	TAATCGCCGCGGTCAAACTCAAAAACGCTGTG
lab-1-840DWSR-SacII	CGCCGACCGCGGCAAGCTACTTGGTGACAATG
Creating ***lab-1*** **sgRNA**	
lab-1 mgRNA-F-Cor	GATCTGGGTGCCCGATGAGTGTTTTAGAGCTAGAGCTAGAAATAGC
lab-1 mgRNA-R	ACTCATCGGGCACCCAGATCAAACATTTAGATTTGCAATTCA
Detecting ***lab-1*** **knock-out and** ***gfp*** **knock-in**	
CC01F	CTGCAGCGCAAAATAATTCA

bafP-R	TTTGGCATCTGCCTCTCCTC
Amplifying and sequencing *lab-1* locus outside the donor vector homology region	
lab1+1100-R	GCATTGGTTAATCACTGGAA
CC01F	CTGCAGCGCAAAATAATTCA
gfp-N-R	GTGCCCATTAACATCACCAT

RT-qPCR

gpd-1F	ACTCGTCCATTTTCGATGCT
gpd-1R	TCGACAACACGGTTCGAGTA
lab-Ex34-RT-F	CCAACCTCAGGAATCTGTGTCTT
lab-405-RT-R	CCTCGGATGTATCGGAATCC
asfl-ex34-RT-R	TCATCATCGTCCTCTTCCTCC
asfl-532-RT-F	CCATCATCATGCAATGGCAT
T05F-Ex34-R	TCCCAAGTTGCAATTTCAATAATC
T05F-454-F	GCTCATGATGAAATTCGCTACAA