Table S5. List of ssODNs used for Nested CRISPR Step 1

Allele	ssODN repair template (5′ to 3′)
***gtbp-1*::EGFP 1-3** (sense)	CGGTTCGGGTGGTGCTCCACGAGGTGGTATGCGCTCCAAGGGAGAGGAGC TCTTCACCGGAGTCGTCCCAATCCTCGTCGAGCTCGACGGAGTCAAGGAGT TCGTCACCGCTGCCGGAATCACCCACGGAATGGACGAGCTCTACAAGAGC GGTTTCCAAAATGCGGGACAAAAT**TAG**AAG
***pgl-1*::EGFP 1-3** (sense)	CGTGGACGTGGTGGTTACGGGGGTCGTGGTGGACGTGGCGGCTTTTCCAAG GGAGAGGAGCTCTTCACCGGAGTCGTCCCAATCCTCGTCGAGCTCGACGGA GTCAAGGAGTTCGTCACCGCTGCCGGAATCACCCACGGAATGGACGAGCT CTACAAG**TAA**ACTCCAACTATTGAATGTTTAATTTGTTTTTTAAG
***prpf-4*::EGFP 1-3** (antisense)	TTAGAGATCACCGAAAAAATTTGGGAAATGTA**TTA**CTTGTAGAGCTCGTCC ATTCCGTGGGTGATTCCGGCAGCGGTGACGAACTCCTTGACTCCGTCGAGC TCGACGAGGATTGGGACGACTCCGGTGAAGAGCTCCTCTCCCTTGGACTTG ATAGGTATGGTGAAGAATGGGTGTTTGAGAGCCT
***ubh-4*::EGFP1-3** (sense)	AAGAAAAATCCAAGCTGAATACAGACATAACCAAGTCCAAGGGAGAGGAG CTCTTCACCGGAGTCGTCCCAATCCTCGTCGAGCTCGACGGAGTCAAGGAG TTCGTCACCGCTGCCGGAATCACCCACGGAATGGACGAGCTCTACAAGCTT GAATTGAAGAGAAAACAA**TAG**ATATTGCATTCT
EGFP 1-3::*nfki-1* (sense)	GTTTTCCAAAATTACGTCGTTTGTTTTCAGCCATGTCCAAGGGAGAGGAGCT CTTCACCGGAGTCGTCCCAATCCTCGTCGAGCTCGACGGAGTCAAGGAGTT CGTCACCGCTGCCGGAATCACCCACGGAATGGACGAGCTCTACAAGGCAA CCGTTGCCCCCAAGGGAAACTGCCTTGTCGCT
***prpf-4*:: 2xTY1::EGFP::3xFLAG** (antisense)	**TTA**GAGATCACCGAAAAAATTTGGGAAATGTATTACTTGTCGTCGTCATCCT TGTAGTCAATGTCATGATCTTTATAGTCTCCTCGAGTGGATCTTGGTTTGTGT GGACTTCATCCAGCGGGTCCTGATTGGTATGCACTTCCTTGATAGGTATGGT GAAGAATGGGTGTTTGAGAGCCT
***gtbp-1*::mCherry 1-3** (sense)	CGGTTCGGGTGGTGCTCCACGAGGTGGTATGCGCTCCAAGGGAGAGGAGG ACAACATGGCCATCATCAAGGAGTTCATGCGTTTCAAGGCCGAGGGACGTC ACTCCACCGGAGGAATGGACGAGCTCTACAAGAGCGGTTTCCAAAATGCG GGACAAAAT**TAG**AAG
***pgl-1*::mCherry 1-3** (sense)	CGTGGACGTGGTGGTTACGGGGGTCGTGGTGGACGTGGCGGCTTTTCCAAG GGAGAGGAGGACAACATGGCCATCATCAAGGAGTTCATGCGTTTCAAGGC CGAGGGACGTCACTCCACCGGAGGAATGGACGAGCTCTACAAG**TAA**ACTC CAACTATTGAATGTTTAATTTGTTTTTTAAG
***prpf-4*::mCherry 1-3** (antisense)	TTAGAGATCACCGAAAAAATTTGGGAAATGTA**TTA**CTTGTAGAGCTCGTCC ATTCCTCCGGTGGAGTGACGTCCCTCGGCCTTGAAACGCATGAACTCCTTGA TGATGGCCATGTTGTCCTCCTCTCCCTTGGACTTGATAGGTATGGTGAAGAA TGGGTGTTTGAGAGCCT
mCherry 1-3::*sftb-1* (sense)	CTTCCATATAATCAATATTGATTGTAGATCGATGTCCAAGGGAGAGGAGGA CAACATGGCCATCATCAAGGAGTTCATGCGTTTCAAGGCCGAGGGACGTCA CTCCACCGGAGGAATGGACGAGCTCTACAAGTCAAGATCTGGCGAGGCTTA TGCGCAGGAGTTGAACCGCAAAAG
K12C11.3p::mCherry 1-3 (sense)	GCCTGACTATACTTATTTTTTATGAGCAGAAAATGTCCAAGGGAGAGGAGG ACAACATGGCCATCATCAAGGAGTTCATGCGTTTCAAGGCCGAGGGACGTC ACTCCACCGGAGGAATGGACGAGCTCTACAAG**TGA**ATCGATCGATAATGTT TATATAATTTTTGTTT
F27C1.2::wrmScarlet 1-3	TGATGGAGAAGTGACGGATTCGTTCCAAACCGATGCTTGCCACGTCAGCAA GGGAGAGGCAGTTATCAAGGAGTTCATGCGTTTCAAGGTCCACATGGAGG GATCCATGACCGAGGGACGTCACTCCACCGGAGGAATGGACGAGCTCTAC AAG**TAA**TAATTGCGATCTCCAATCTCAATCCTCAAACA

Green, red, and dark red nucleotides represent EGFP 1-3, mCherry 1-3, and wrmScarlet 1-3 sequences, respectively; whereas purple and orange nucleotides represent FLAG and TY1 fragments, respectively. Nucleotides in blue and bold represent start and stop codons, respectively; and underscored nucleotides represent silent mutations.