Table S1. Primers used in this study. The template DNA undergoes the first run of PCR with forward primer F1 and backward primer tracr rev. Then the product from the first reaction undergoes the second run with forward primer F2 and backward primer tracr rev.

Name	Sequence of the primer(5'-3')
Csy4-based *tyr*-1 gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGGGACTGGAG
	F2: TATAGGCAGGGACTGGAGGACTTCTGGGGGTTTTAGAGCTAGAAA
Csy4-based *tyr*-2 gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGCTGGGGAGG
	F2: TATAGGCAGCTGGGGAGGTGCAGACTCGGGTTTTAGAGCTAGAAA
Csy4-based *EGFP* gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGACCATCTTCT
	F2: TATAGGCAGACCATCTTCTTCAAGGACGAGTTTTAGAGCTAGAAA
Csy4-based *urod* gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGTCAACTCTGG
	F2: TATAGGCAGTCAACTCTGGAAAGTCTTTTGTTTTAGAGCTAGAAA
Csy4-based *mib* gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGAATAACCGAG
	F2: TATAGGCAGAATAACCGAGTGATGATGGAGTTTTAGAGCTAGAAA
Csy4-based *susd4*-1 gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGTGTATCGGTC
	F2: TATAGGCAGTGTATCGGTCACATGGATGAGTTTTAGAGCTAGAAA
Csy4-based *susd4*-2 gRNA template	F1: TAATACGACTCACTATAGGGAGAGTTCACTGCCGTATAGGCAGATGTATCGGT
	F2: TATAGGCAGATGTATCGGTCACATGGATGGTTTTAGAGCTAGAAA
tracr rev	AAAAAAAGCACCGACTCGGTGCCAC
tyr-1/2 detect loci	F: GCGTCTCACTCTCCTCGACTCTTC
	R: GTAGTTTCCGGCGCACTGGCAG
EGFP detect loci	F: TGAAGTTCATCTGCACCACC
	R: CTGCCGTCCTCGATGTTG
urod detect loci	F: CATTCCATAGCAAACAGTATGTGTG
	R: ATATCACAGGAGGGCTAATAATTTTG
mib detect loci	F: ATCTCTGTACGTTATATTTCAC
	R: CCGTTATCCCACACCACCACCACCTC
susd4-1/2 detect loci	F: GTTTTACAGCATGCTCTTTACCGC
	R: CTGATTTACCATCTTTGACGC
susd4 ss-oligo	TGGAGATTACACGTGCCACCCTCATACATGTGACCGATACATTCACGGGAC