

Table S1: Primers used in this work. For SS primers, the 5' anchor sequence (brown), bridge sequence (blue), and 3' foot sequence (red) are indicated

<i>eil-7</i>	Allele	For / Rev	Figure	Bubble	Tm (°C)
GCTTGGATGGTGAAGAGC	wt	Forward	Fig.1C		57
GCTTGGATGGTGAAGAGT	mut	Forward	Fig.1C		57
CCAGATGACTTATTGAGCAAGCTGG	common	Reverse	Fig.1C, 2D, 3C, 7D		61
TCCTCCACCGGATCCG TAGCGAACCTACCA GAAGAGC	wt	Forward	Fig.2D, 3C	14::14	61
TCCTCCACCGGATCCG TAGCGAACCTACCA GAAGAGT	mut	Forward	Fig.2D	14::14	61
CCGGATCCGATCGCTTG CTACCA GAAGAGC	wt	Forward	Fig.3C, 7D	6:6	60
ACCGGATCCGATCGCT ACCTACCA GAAGAGC	wt	Forward	Fig.3C	8:8	60
GAACACAACAAGCAAATTGAATAG AACACT TTATGGG	wt	Reverse	Fig.6C	6:30	60
GAACACAACAAGCAAATTGAATAG AACACT TTATGGGC	wt	Reverse	Fig.6C	6:30	60
GAGATCGTTTTCTCTCGTTCTC	common	Forward	Fig.6C		56
CCGGATCCGATCGCTTG CTACCA GAAGAGT	mut	Forward	Fig.7D	6:6	60
C05B5.11					
AGAAACAAGGAGGAAACGATC	wt	Reverse	Fig.1F		58
AGAAACAAGGAGGAAACGATA	mut	Reverse	Fig.1F		58
CATGGTGCTCAACTGTG	common	Forward	Fig.1F, 2F, 3E, 4E		54
GTCGATTGACTTGA AACCCCG TCTGTTCCTCCCT AACGATC	wt	Reverse	Fig.2F, 3E	14::14	60
GTCGATTGACTTGA AACCCCG TCTGTTCCTCCCT AACGATA	mut	Reverse	Fig.2F	14::14	60
GACTTGA AACCCCG AGAACAAAG CTCCT AACGATC	wt	Reverse	Fig.3E	6:6	59
TGACTTGA AACCCCG AGAACAA TCTCCT AACGATC	wt	Reverse	Fig.3E	8:8	60
TTGAAACCCGAGAACAAAGGA CTCT AACGATC	wt	Reverse	Fig.4E	4:4	60
dof-7					
GTCAACAATGATTGGAAAGAGCGA ATAA CTCAGG	wt	Forward	Fig.4B, 5B	4:4	59
GACGTCAACAATGATTGG CTCTAA CTCAGG	wt	Forward	Fig.4B	6:6	52
GACGAAGATACCTTGGATC	common	Reverse	Fig.4B, 5B		53
GTCAACAATGATTGGAAAGAGCGA ATAA CTCAAG	wt	Forward	Fig.5B	4:4	59
GTCAACAATGATTGGAAAGAGCGA ATAA CTCAGGC	wt	Forward	Fig.5B	4:4	59
AATTGATCTGTGAGTGTGGCCTG TTCGTC ACGATACC	wt	Reverse	Fig.6D	6:51	60
AGCCATGTTACATGGCATCTTCACTC	common	Forward	Fig.6D		63
eat-2					
TATTACTACGTTGCAAATTCCTCAT CCAT CACTATG	wt	Reverse	Fig.4C, 5C	4:4	57
GTAATATTACTACGTTGCAAATTCCTCAT TACCAT CACTATG	wt	Reverse	Fig.4C	6:6	56
GTAGTGCACACTATAGAGGTAAGT	common	Forward	Fig.4C, 5C		57
TATTACTACGTTGCAAATTCCTCAT CCAT CACTACG	wt	Reverse	Fig.5C	4:4	57
TATTACTACGTTGCAAATTCCTCAT CCAT CACTATGA	wt	Reverse	Fig.5C	4:4	57
GCTCATTGCACTGTTGAATAACA CTATAGC GGTITTC	wt	Forward	Fig.7C	8:8	59
GCTCATTGCACTGTTGAATAACA CTATAGC GGTITCT	mut	Forward	Fig.7C	8:8	59
GTTACTTAAGCGTACGAGCC	common	Reverse	Fig.7C		59
him-5					
CTTCCGGAGCTTTGCC	wt	Reverse	Fig.1A		58
CTTCCGGAGCTTTGCT	mut	Reverse	Fig.1A		58
GTCGTTACAGAACAGAAATACATCG	common	Forward	Fig.1A		59
klp-6					
CATCAATCAAATACGCCAACTTTG	wt	Reverse	Fig.1A		56
CATCAATCAAATACGCCAACTTTA	mut	Reverse	Fig.1A		56
GCATGTGGTAGGCAGTTG	common	Forward	Figs. 1-3, 5-7		60
GATTGAAAAGTGTCTCCACATC TTAGTTTATGCGGT AACITTTG	wt	Reverse	Fig.2G, 3B	14::14	59
GATTGAAAAGTGTCTCCACATC TTAGTTTATGCGGT AACITTTA	mut	Reverse	Fig.2G, 3A	14::14	59
GATTGAAAAGTGTCTCCACATC TTAGTTTATGCGGT AACITTTAC	mut	Reverse	Fig.2G	14::14	59
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTG	wt	Reverse	Fig.3B, 5B	6:6	56
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTG	wt	Reverse	Fig.3B	8:8	58
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTA	mut	Reverse	Fig.3A	6:6	56
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTA	mut	Reverse	Fig.3A	8:8	58
GAAAAGTGTCTCCACATCAAAT TGCGGT ACTTTG	wt	Reverse	Fig. 5A	6:6	58
AAAAGTGTCTCCACATCAAATAC CGGTTT CTITG	wt	Reverse	Fig.5A	6:6	58
ITGTTCTCCACATCAAATACG GGTITG TITG	wt	Reverse	Fig.5A	6:6	58
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTG	wt	Reverse	Fig.5B	6:6	56
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTG	wt	Reverse	Fig.5B, 7B	6:6	56
CCTGATAAATCAACGATTGGAAACTGTT AAGGGT AACITTTG	wt	Reverse	Fig.6B	6:24	58
CCTGATAAATCAACGATTGGAAACTGTT AAGGGT AACITTTG	wt	Reverse	Fig.6B	6:24	58
GAAAAGTGTCTCCACATCAAAT TGCGGT AACITTTA	mut	Reverse	Fig.7B	6:6	56
lev-11					
TACACAGAAAAGAAATCGGACCTC	wt	Forward	Fig.1B		57
TACACAGAAAAGAAATCGGACCTT	mut	Forward	Fig.1B		57
CTGTATACATCAGCTGCAGC	common	Reverse	Fig.1B, 2C, 4F, 6A, 7E		57
GATAGTGAAGACACAGAAAGACTACTA GTGTCTCTCTTAG GGACCTC	wt	Forward	Fig.2C	14::14	56
GATAGTGAAGACACAGAAAGACTACTA GTGTCTCTCTTAG GGACCTT	mut	Forward	Fig.2C	14::14	56
ATCCGACCGTCTCATC GTCT CTGAAGG	wt	Reverse	Fig.4A	4:4	59
AGATCCGACCGTCTCA AGGTCT CTGAAGG	wt	Reverse	Fig.4A	6:6	60
CATCTCACACAGCAAGTG	common	Forward	Fig.4A		54
AAGACACAGAAAAGAAAGACTACTACACAGAAAAG TTAG GGACCTC	wt	Forward	Fig.4F	4:4	59
GTGAAGACACAGAAAAGACTACTACACA TCTCATGA GGACCTC	wt	Forward	Fig.7E	8:8	59
GTGAAGACACAGAAAAGACTACTACACA TCTCATGA GGACCTT	mut	Forward	Fig.7E	8:8	59
TCACTTTGATAGTGAAGACACAGA TTCTAGG GGACCTC	wt	Forward	Fig.6A	6:24	56
plx-2					
TGCCGTGTACTCAACTCTTCT	wt	Forward	Fig.1E		58
TGCCGTGTACTCAACTCTTCA	mut	Forward	Fig.1E		58
GTAGTGTTCATGTGGATCAC	common	Reverse	Fig.1E, 2E, 3D, 4D		54
CCATGTGAAAACCCACAGGTTG GGCACATATGATTT CTCTTCT	wt	Forward	Fig.2E, 3D	14::14	60
CCATGTGAAAACCCACAGGTTG GGCACATATGATTT CTCTTCA	mut	Forward	Fig. 2E	14::14	60
CCCACAGGTTGCCGTGTAT TGAGTT CTCTTCT	wt	Forward	Fig.3D	6:6	62
CCCACAGGTTGCCGTGTAT TGAGTT CTCTTCT	wt	Forward	Fig.3D	8:8	62
CCCACAGGTTGCCGTGTATAC AGTT CTCTTCT	ww	Forward	Fig.4D	4:4	60