

Table S3: Oligonucleotides used in this study.

Name	Description	Sequence (5' -> 3')
GRACE and HET strain construction		
oLC118.1	<i>PRE10</i> Primer1	ACAACTTACTCTCTTCTTTTGTAAATCATTACAACAATTCTT ATATAACTAATATTTTATCTATATCACTGGATGGCGGCGTTAG TATC
oLC118.2	<i>PRE10</i> Primer2	TGAAGTCTATAAATCAGTTAGTATACATGAGCAATGCATTGTG TTTAGTTGTAACAAATTGACATACCATCGACTATTTATATTTGT ATG
oLC118.3	<i>PRE10</i> Primer3	GCCATTTTAACTGTACTGCCAT
oLC118.4	<i>PRE10</i> Primer4	TTTTCAACGGCTTTCATGGCAT
oLC394.1	<i>PRE4</i> Primer1	ATTGCATTTAAGTTTTTATATTTTGTATAACTTTTTTTTTGAAA AACAAGAAGAAAACAATCACGAAAACTGGATGGCGGCGTT AGTATC
oLC394.2	<i>PRE4</i> Primer2	CAATTTTGTAAATTGTATGGACCATAGGTGTCATTGGATGGTCT ACCCCAACTGTATGGATCGTGATTCATCGACTATTTATATTTGT ATG
oLC394.3	<i>PRE4</i> Primer3	GGTGTAAGCTTTACAGTGGTTT
oLC394.4	<i>PRE4</i> Primer4	ACCAACAACAGTCTCCTTACCT
oLC395.1	<i>RPT2</i> Primer1	TCTTATTTCTTGGTGCGAGTTTTCAAATCAAACATTATTTGT ATATCCCACTCCAAGCAAGCAATCACTGGATGGCGGCGTT AGTATC
oLC395.2	<i>RPT2</i> Primer2	CCTTTTTCTTATCATCTTTCTTTTTGTTGAGATTATCGCCACCTG GTATTCCTGAAGGACCTTGACCCATCGACTATTTATATTTGTAT G
oLC395.3	<i>RPT2</i> Primer3	ATGCTTGTCAAGAAACACATCC
oLC395.4	<i>RPT2</i> Primer4	TGCTTCTGTAGTTGGAATGCT
oLC58.1	<i>RPN9</i> Primer1	AACCAACCAACCAAGACAACCTATCTTCTTATAGACCACC CTTAAGATCAACAACAATATGTCGCCAACTGGATGGCGGCGT TAGTATC
oLC58.2	<i>RPN9</i> Primer2	TTAATTCAGAATTATCTGATTTTCAGCCTAATTGTTGCTAAAAC GTAGAAACTTCAGTATCTATATCCATCGACTATTTATATTTGTA TG
oLC58.3	<i>RPN9</i> Primer3	TTATTTCAAGTGCCTGCTTTGA
oLC58.4	<i>RPN9</i> Primer4	CAACATCATCAGTAACTCTATAATTATGAC
oLC260.1	<i>RPN10</i> Primer1	TTCAACAGTGTTGATTTTCAATTCTTTACCCTATCCCTAAAACG TACAGTATTATATTAAGAAACAAAACTGGATGGCGGCGTT AGTATC
oLC260.2	<i>RPN10</i> Primer2	ATGTCAAAAAGTCACCATTCTCATATACTCAGAGTTGTCAAT GGCAATCATAGTAGCCTCAAGAACCATCGACTATTTATATTTG TATG

oLC260.3	<i>RPN10</i> Primer3	TATATGAGCAGTTCTTGGACGT
oLC260.4	<i>RPN10</i> Primer4	CAATGCTGCTACTTGGATTCCG
oLC260.5	<i>RPN10</i> Primer5	ACCCTATCCCTAAAACGTACAGTATTATATTAAAGAAACAAA GATGTCCACGAGGTCTCTAGACCTTGCACATGCTTGC GCGTAC GCTGCAGGTCGAC
oLC260.6	<i>RPN10</i> Primer6	CGAATATAGTATTATTTTTATTATGCTTCATATTCTATACAGCC GGTGTCGGTCTCGTAGAGACTTCGATCATGCTCTTGATCGATG AATTCGAGCTCG
oLC583.1	<i>PUP3</i> Primer1	AGTGGACCCAATTGAATAGAATATCTCAATAGATTATAAATTA CTATCCTCATTCTCAATTTAACAGATCACTGGATGGCGGCGTT AGTATC
oLC583.2	<i>PUP3</i> Primer2	CTATTGCTATACAGTCTTTACCAATCATAGCTACTGCTGCACCT CCGTTAATTGAAAATGGATCCGACATCGACTATTTATATTTGT ATG
oLC583.3	<i>PUP3</i> Primer3	GAGATTTTGTACAAGTATCTTCATTG
oLC583.4	<i>PUP3</i> Primer4	ACCAAATTTGCCAATGTTGATG
oLC583.5	<i>PUP3</i> Primer5	AGATTATAAATTACTATCCTCATTCTCAATTTAACAGATCATGG ATGTCCACGAGGTCTCTTCAAATTCATTAGTTTAGAACGTACG CTGCAGGTCGAC
oLC583.6	<i>PUP3</i> Primer6	TCAAATCATGTATTATCTGCTAACTTTATAACATATAAATCAAC GGTGTCGGTCTCGTAGAACCGCTGTACGGTGATTGCATCGAT GAATTCGAGCTCG
oLC586.1	<i>PRE3</i> Primer1	AAAAAAAAACTAGTGGCAAACCACCTTAATCAACAATTTCTTA ACATCATCAAACATAGCATAATCAACAACCTGGATGGCGGCGT TAGTATC
oLC586.2	<i>PRE3</i> Primer2	CCATAATTGAAGTACCTAAATTCACTTCCCCCTTTTTCAAATGA TTGATGTCTACTGAAATACCGTTCATCGACTATTTATATTTGTA TG
oLC586.3	<i>PRE3</i> Primer3	TGTTGTTGTTGTTGTTGAATGG
oLC586.4	<i>PRE3</i> Primer4	CCAGGAGGCAATTGTGATGAAT
oLC586.5	<i>PRE3</i> Primer5	CAACAATTTCTAACATCATCAAACATAGCATAATCAACAATG GATGTCCACGAGGTCTCTCGTGTGCGACGTCTCACTGGCGTA CGCTGCAGGTCGAC
oLC586.6	<i>PRE3</i> Primer6	CAGATTATCTTATTCTATCTACCGAATATAAAAGCATTTTTATC GGTGTCGGTCTCGTAGTTGTCCCACCGCCTACGTGAATCGAT GAATTCGAGCTCG
oLC588.1	<i>SEM1</i> Primer1	GAACGAGGAAAAAAAAAATGTCATGAGTGGCAACCACTACT TAGTCAACATCAAATCAATAGTACCATAACTGGATGGCGGCG TTAGTATC
oLC588.2	<i>SEM1</i> Primer2	TGAGACCTGATGTATGTTTCAGAGGGATTGTAGTAGATGGTT TAGAATCTAGTTTGGTGGCGTCTGACATCGACTATTTATATTT GTATG
oLC588.3	<i>SEM1</i> Primer3	ACAATATAGCCAGCCTGATTT

oLC588.4	<i>SEM1</i> Primer4	AGACACTTCATCTTGACCATCA
oLC588.5	<i>SEM1</i> Primer5	GCAACCACTACTTAGTCAACATCAAATCAATAGTACCATAATG GATGTCCACGAGGTCTCTACTGGAGCTGTCTACATCCTCGTAC GCTGCAGGTCGAC
oLC588.6	<i>SEM1</i> Primer6	CCTTTTCCTGTAAATAATCAACTAAGAAAGCATCTAACTATC GGTGTCCGGTCTCGTAGCGCTGTCGCGATGGACTTGTATCGAT GAATTCGAGCTCG
oLC910.1	<i>PRE9</i> Primer1	TTTAAGAACTGATACTGTTGAACTAAAGTACTACAAACTAT TATCAAAGCTAAACAAGACCATATACCACTGGATGGCGGCGT TAGTATC
oLC910.2	<i>PRE9</i> Primer2	CATATTCACCTGGTATAATCTACCTTCTGGTGAAAAATAGT GGTTCTTGAATCGTATCTTCTTGACATCGACTATTTATATTTGT ATG
oLC910.3	<i>PRE9</i> Primer3	AAATTGGTGATCTGCGACATTT
oLC910.4	<i>PRE9</i> Primer4	CTGTTGGGCTTGAATTCTTGCA
oLC910.5	<i>PRE9</i> Primer5	AGTACTACAAACTATTATCAAAGCTAAACAAGACCATATAACC GATGTCCACGAGGTCTCTCACCTATCAGGAGACGTGAGCGTA CGCTGCAGGTCGAC
oLC910.6	<i>PRE9</i> Primer6	ACACTAAATCTAAACTGGTAGTCCTATAAACATCAGTATAT CGGTGTCCGGTCTCGTAGGGCCTATTGTCAGTGCCCTTATCGAT GAATTCGAGCTCG
Primers for <i>tetO-RPT5</i>		
oLC534	CaTAR-797-R	GATGGAGATAGTTTACGG
oLC4714	tetOp+488F	TCGTTTCTGATGGGCTTTTC
oLC5978	pLC963-SNR52-F	GACTGTCAAGGAGGGTATTC
oLC5979	pLC963-SNR52-N-F	CCGCAAGTGATTAGACTTAG
oLC5980	pLC963-sgRNA-R	GAATACCACTTGTTTACCGG
oLC5981	pLC963-sgRNA-N-R	GGTGGCGGCAAACTAATTC
oLC6924	<i>CaCas9</i> /for	ATCTCATTAGATTTGGAAGTTGTGGGTT
oLC6925	<i>CaCas9</i> /rev	TTCGAGCGTCCCAAACCTTCT
oLC7838	<i>CaRPT5</i> -pLC605-R	TCAAAATTTCTTGATCTATAACATTTTCTTCTTGTGCTGATTGT TTTCTAAATCTTCTAAGGTAACCATCGACTATTTATATTTGTAT G
oLC7839	<i>CaRPT5</i> -pLC605-F	GGGAGAAAAAAAATGCTAGGGAAAGACTCGACCTCTCCC AATTACAGAATACTACAACGTATCAACAGGAAACAGCTATG ACCATG
oLC7840	<i>CaRPT5</i> -320-F-AB	AATAAGCGGCGGATTTGG
oLC7841	<i>CaRPT5</i> +304R-AB	GCTCTAGCTGCGTCGATAT
oLC7842	<i>CaRPT5</i> _sgRNA_F	TACTACAACGTATCAACAAGTTTTAGAGCTAGAAATAGCAA GTAAA
oLC7843	<i>CaRPT5</i> _sgRNA_R	TTGTTGATACAGTTGTAGTACAAATTAATAATAGTTTACGCAA GTC
RT PCR Primers		

oLC8159	<i>CaRPN9</i> +AB+808F	CGGCTGAAACTAATTCTAAT
oLC8161	<i>CaRPN9</i> +AB+981R	CCTCAATTAGAATTAGCTCC
oLC2285	<i>CaACT1AB</i> +855-F	GACCTTGAGATACCCAATTG
oLC2286	<i>CaACT1AB</i> +1076-R	CAGCTTGAATGGAAACGTAG
oLC752	<i>GPD1A</i> +570-F	AGTATGTGGAGCTTTACTGGGA
oLC753	<i>GPD1AB</i> +766-R	CAGAAACACCAGCAACATCTTC
oLC8121	<i>CaRPN13</i> -AB+704R	GTGACATCAAATACCCTGCTC
oLC8122	<i>CaRPN13</i> -AB+589F	CTTCCTCCATCAATTGCTTC
oLC8092	<i>CaRPT5_AB</i> +233F	TGGTGGGAAATGTTGTGGAG
oLC8093	<i>CaRPT5_AB</i> +373R	GTCAACTAACCTATCATTGG
oLC8485	<i>CaRPN10_AB</i> +129F	AACCCTGAAAATACAGTCGG
oLC8486	<i>CaRPN10_AB</i> +311R	TGATTCTTTGCTGTTGGACC
oLC8488	<i>CaPRE9_AB</i> +322F	CGACGAAGAGATTCCTTGTG
oLC8489	<i>CaPRE9_AB</i> +477R	CACCAATACTAGTTGCCTTC
oLC8491	<i>CaSEM1_AB</i> +049F	ACCATCTACTACAATCCCTC
oLC8492	<i>CaSEM1_AB</i> +191R	ATCATCCCAATCTTCTTCCC
Additional primers		
oLC2535	<i>TetOp</i> -F	GTTTGGTTCAGCACCTTGTCG
oLC6853	<i>SAT1_R</i>	CGCAGAAAGTAATATCATGC
oLC6701	<i>CaHIS3prom_UPtag_R10</i>	CCACCATCTAAATTAAGGGC
oLC7860	BamHI_ <i>HIS3_F</i>	CGCGGATCCCGTACGCTGCAGGTCGAC
oLC7861	<i>HIS3_BamHI_R</i>	CGCGGATCCATCGATGAATTCGAGCTCG