

**Table S3 Primers used for this study**

Name	Sequence	Use
ok1806F1	CGGGTTGATGAATCTTGATCATTCTC	<i>acy-4(ok1806)</i> genotyping
ok1806R1	CATGATACAAGCATTGTCACGAGACTC	<i>acy-4(ok1806)</i> genotyping
ok1806F2	TCAGTCTCGTCATTGGTGTCTGTTC	<i>acy-4(ok1806)</i> genotyping
gk1195_F1	TTCATCTGAATGGCCATTCACTCTTGATC	<i>pbrm-1(gk1195)</i> genotyping
gk1195_F2	TTTCAGGAAAGCGAAGTCGAAATGGAAG	<i>pbrm-1(gk1195)</i> genotyping
gk1195_R1	CTCTTTGTATACTCCAATTCCTCGTCTTC	<i>pbrm-1(gk1195)</i> genotyping
H27M09.1_F5	ACTGCTGGAAGATATATCACTTATCGTC	<i>sacy-1(tm5503)</i> genotyping
tm5503_F1	GTTATTGACGAATCAGAACGGCAATTAATG	<i>sacy-1(tm5503)</i> genotyping
tm5503_R1	CTTGATCTGAATAGCTGTCTGGTGTAC	<i>sacy-1(tm5503)</i> genotyping
H27M09.1_RNAi_F	TTTTAATACGACTCACTATAGGGTCAAATCTTTGACCTGATCAT TGAAATG	<i>sacy-1</i> RNAi
H27M09.1_RNAi_R	TTTTAATACGACTCACTATAGGGGACAATCTGTGATGCGATGA CCCAG	<i>sacy-1</i> RNAi
H27M09.1_cDNA_F1	TTTCCCGGAATATGAGGACCGCCGGCGAAAAATTC	<i>sacy-1</i> cDNA 5' half RNAi
H27M09.1_cDNA_R1	TTTCTCGAGCTCTAACGCTTTAGCTTGTTCGCCAATTG	<i>sacy-1</i> cDNA 5' half RNAi
H27M09.1_cDNA_F2	TTTCCCGGGCAATTGGCGAACAGCTAAAGACGTTAGAG	<i>sacy-1</i> cDNA 3' half RNAi
H27M09.1_cDNA_R2	TTTCTCGAGCAATGCTTGCCTGTTTTGTTCCGATTC	<i>sacy-1</i> cDNA 3' half RNAi
acy-1_Exon13_F	AAGGTGATGGAATACCTCCATCAATCAAGGATAACCAAGAAG ACGAATTTATGAGTAAAGGAGAAGAAGACTTTTCAC	Recombineering for <i>acy-1::gfp</i>
acy-1_Exon13_R	TGTGAAAGGAATTATAGAAGTTTGTTTAAAGCAAATGTATG AAAATTTATTTGTATAGTTCATCCATGCCATG	Recombineering for <i>acy-1::gfp</i>
acy-2_Exon17_F	CCGGCGAGCAACAAAACCATAGTAACAACAATAATTGTCACA GTACACTCATGAGTAAAGGAGAAGAAGACTTTTCAC	Recombineering for <i>acy-2::gfp</i>
acy-2_Exon17_R	GAGAGAAGGTGAATGCAGTTGAGAGGTAAAATAACAGAAC AACGAGTTATTTGTATAGTTCATCCATGCCATG	Recombineering for <i>acy-2::gfp</i>
acy-3_Exon14_F	ACAATTTGCGGAGACTTTCAACTTTCAACATTTGATGATATTGAT CAGGACATGAGTAAAGGAGAAGAAGACTTTTCAC	Recombineering for <i>acy-3::gfp</i>
acy-3_Exon14_R	AGACCTAGAGAATAGTAAGAAACATATATTTGAAAAAATGA AATGATTATTTGTATAGTTCATCCATGCCATG	Recombineering for <i>acy-3::gfp</i>
twk-1_GalK_F2	AGGTTTCAGATTGAGAAGAAGCTGAAATTTGGTTTGGAGGGC AAATGATGCCTGTTGACAATTAATCATCGGCATAG	Recombineering for <i>galk</i> insertion in threonine284 of <i>twk-1</i>
twk-1_GalK_R2	TCCGGCGTTGATCCAAACTTTTCAGCCACCAAAGTGACCAAAT CCTTGACTCAGCACTGTCTGCTCTCTTG	Recombineering for <i>galk</i> insertion in threonine284 of <i>twk-1</i>
twk-1_C-ter_trunc	AGGTTTCAGATTGAGAAGAAGCTGAAATTTGGTTTGGAGGGC AAATGATGATGAGTAAAGGAGAAGAAGACTTTTCACTGGAGTTG	Recombineering for C-terminal deletion of <i>twk-1</i>

	TCCCAATTCTTGTTGA	
KIN-1R 50bp	AATCAACAGTGATGCAACATTCAAAAAAAAAAGTTACCGAAA CTCTGTGG	Recombineering for extending <i>kin-1</i> promoter in the WRM069aA02 fosmid
KIN-1OF 50bp	TAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTA AAACGACGAGAGACTGCTCCTGGAGAGTCAC	Recombineering for extending <i>kin-1</i> promoter in the WRM069aA02 fosmid
kin-1 galk F	TAAGTTGGGTAACGCCAGGGTTTTCCAGTCACGACGTTGTA AAACGACGCCTGTTGACAATTAATCATCGGCA	Recombineering for <i>galk</i> insertion into the WRM069aA02 fosmid
kin-1 galk R	AATCAACAGTGATGCAACATTCAAAAAAAAAAGTTACCGAAA CTCTGTGGTCAGCACTGCTCCTGCTCCTT	Recombineering for <i>galk</i> insertion into the WRM069aA02 fosmid
H27M09.1_gfpF1	TTTTAAGTATCTTAAAAAGTAGAACAGAAAAATTCGTTTAGTA TTCCGAAATGAGTAAAGGAGAAGAACTTTTCACTG	Recombineering for <i>gfp::sacy-1</i>
H27M09.1_gfpR1	CGCCGGCGGTCCTCATATTTTCGTCGCGCCGCTCCACATCTG TGCTCATTTTGTATAGTTCATCCATGCCATGTG	Recombineering for <i>gfp::sacy-1</i>
twk-1_GFP_F1	AAGCTCATCGGGTACACAGTGATGGTCGACTTTTACTGCAACA AGATGTGATGAGTAAAGGAGAAGAACTTTTCACTG	Recombineering for <i>twk-1::gfp</i>
twk-1_GFP_R1	ATATCCGTTTCTTTTTTGTTCGAAAAATCTAAAATTGCAGAA TATCTATTTGTATAGTTCATCCATGCCATGTG	Recombineering for <i>twk-1::gfp</i>
twk-1_F1	GACAAATAATGAAGCATCCTTCTTGATAG	<i>twk-1</i> RT-PCR
twk-1_R1	GTGACCAAATCCTTGACAGTCATCATTTG	<i>twk-1</i> RT-PCR

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