

SUPPLEMENTAL MATERIALS AND METHODS

Alleles and transgenic lines used in this study:

| CGC or lab number | Genotype |
|-------------------|---|
| 1284 | <i>rrrSi199</i> [<i>Pvet-4::NLS:gfp:gfp::vet-4</i> 3'UTR; <i>unc-119(+)</i>] (II); <i>rrrSi198</i> [<i>Pvet-4::NLS:gfp:gfp::vet-4</i> 3'UTR; <i>unc-119(+)</i>] (IV) |
| 1180 | <i>lin-41(rrr3)/unc-29(e1072) lin-11(n1281)</i> (I); <i>rrrSi199</i> (II); <i>rrrSi198</i> (IV) |
| MT7897 | <i>lin-41(n2914)/unc-29(e1072) lin-11(n1281)</i> (I) |
| OH441 | <i>otIs45[unc-119::gfp]</i> (V) |
| 1283 | <i>lin-41(n2914)</i> (I); <i>otIs45</i> (V) |
| 1252 | <i>ojIs1[tbb-2::gfp]</i> , derived from TY3558 |
| 1282 | <i>lin-41(rrr3)</i> (I); <i>ojIs1</i> |
| 1285 | <i>lin-41(rrr4)</i> (I); <i>rrrSi199</i> (II); <i>rrrSi198</i> (IV) |
| 1414 | <i>lin-41(n2914)</i> (I); <i>rrrSi308</i> [<i>Plin-41::lin-41</i> (C114S, C117S, C130S, C151S, C154S):: <i>lin-41</i> 3'UTR; <i>unc-119(+)</i>] (II) |
| 1515 | <i>lin-41(rrr3)/hT2[qIs48]</i> (I;III); <i>lin-29(n546)/mnC1[dpy-10</i> <i>(e128) unc-52(e444) nIs190]</i> (II) |
| RW10993 | <i>unc-119(ed3)</i> (III); <i>itIs37</i> [<i>Ppie-1::mCherry:h2b::pie-1</i> 3'UTR; <i>unc-119(+)</i>]; <i>stIs10116</i> [<i>Phis-72::his-24:mCherry::let-858</i> 3'UTR; <i>unc-119(+)</i>]; <i>wgIs94</i> [<i>Ppal-1::TY1:eGFP:3xFLAG</i> (P000006_G02)] |
| 1328 | <i>lin-41(rrr3)</i> (I); <i>rrrSi197</i> [<i>Pvet-4::NLS:mCherry:h2b::vet-4</i> 3'UTR; <i>unc-119(+)</i>] (II) ; <i>ojIs1</i> |
| 1320 | <i>lin-41(rrr3)</i> (I); [<i>Plin-41::flag:gfp:lin-41::lin-41</i> 3'UTR; <i>unc-119(+)</i>] (II) |

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| 1334 | <i>lin-41(rrr3)</i> (I); <i>rrrSi304</i> [<i>Plin-41::flag:gfp:ΔNHL::lin-41</i> 3'UTR; <i>unc-119(+)</i>] (II) |
| 1344 | <i>lin-41(rrr3)</i> (I); <i>rrrSi309</i> [<i>Plin-41::flag:gfp:Y941A::lin-41</i> 3'UTR; <i>unc-119(+)</i>] (II) |
| 1412 | <i>lin-41(rrr3)/+</i> (I); <i>rrrSi298</i> [<i>Phsp-16.41::flag:gfp:lin-41::lin-41</i> 3'UTR; <i>unc-119(+)</i>] (II) |
| 1468 | <i>lin-41(ma104)</i> (I); <i>rrrSi199</i> [<i>Pvet-4::NLS:gfp:gfp::vet-4</i> 3'UTR; <i>unc-119(+)</i>] (II) |

Real-time quantitative PCR on dissected gonads

Primers used:

act-1 FW CTATGTTCCAGCCATCCTTCTTGG
act-1 RV TGATCTTGATCTTCATGGTTGATGG
tbb-2 FW GCTCATTCTCGGTTGTACCA
tbb-2 RV TGGTGAGGGATAACAAGATGG
vet-1 FW AAAGAACTGAAACTATGTTTGCTG
vet-1 RV CTCTCGTCGTGTTTTCTGATG
vet-4 FW AAGGATTTCACTGCTTGCTC
vet-4 RV CGTCGTTTTTCGATTTCTCCG
vet-6 FW GTGCGAGACAAGAATGTAATCC
vet-6 RV TTCTTGA ACTCTTGGAACACAG

pes-10 FW GCGATGATTTTCATGATTTCTG
pes-10 RV AATTCGTAGTCAATCTGCTCC
hlh-1 FW ACGATTATGTGACTTCCTCTC
hlh-1 RV GATGATCTCTATCGTCGTCC
unc-120 FW GGGTATTATGAAGAAGGCATTCCG
unc-120 RV TGCATATGTGTAGACATGACCA
end-1 FW GGGCAATACTTTGTTCAATCG
end-1 RV GGATACTGTTGTGAGTAGCA
end-3 FW GCCTATTAATGACCTCCAGC
end-3 RV CCCGTCAATTGGTATCTCTG
elt-2 FW AGTAAACGGAGGAATGATGTG
elt-2 RV CTGCTCTGAAGGTATTTCCA
pha-4 FW CCAGAATTTCTGAACAACAC
pha-4 RV GTTGGTGGAGCTGTAAAGAG
tbx-2 FW AAGTGGAAGACGGATATTCC
tbx-2 RV TTGTAACGGTGTTTCATCAGC
mab-5 FW TTCATCAAATCCATTCGCCT
mab-5 RV CATGGAAATACTGGTTGCGA
ceh-13 FW CAGCATAACACATACAAGTGG

ceh-13 RV GAAGTTGGTTCGATTTGTTCC

php-3 FW TTATCAAGGACACAAGCGGA

php-3 RV ATTGACATAACCACTGCTCGT

hGAPDH FW GGAGTCAACGGATTTGGTC

hGAPDH RV AAACCATGTAGTTGAGGTC

Mutating LIN-41

The following primer pairs were used to introduce the point mutations:

Fw_C130S GAGTGCTGCCGTTTCGTTTCAGCGCACAAAGTGGGGTTTC

Rv_C130S GAAACCCCACTTGTGCGCTGAAACGAACGGCAGCACTC

Fw_C114S_C117S GCAAGACTCCTTTCGGTCCTCAGTCTCCTCCAAGAGCTCGAC

Rv_C114S_C117S GTCGAGCTCTTGGAGGAGACTGAGGACCGAAAGGAGTCTTGC

Fw_C151S_C154S GAATTTTAGCTTCCAAGCTGTCAGGTGCCGTATCGACAGCC

Rv_C151S_C154S GGCTGTCGATACGGCACCTGACAGCTTGGAAGCTAAAATTC

Fw_Y941A GTTGGCTACTTCAACGCTCCATGGGGAGTTGC

Rv_Y941A GCACATCCCCATGGAGCGTTGAAGTAGCCAAC

The following primer pair was used to create the NHL deletion mutant:

Fw_ΔNHL GATCCGGTGACGGAGAATAGACACTTTCTTCTTGC

Rv_ΔNHL GCAAGAAGAAAGTGTCTATTCTCCGTCACCGGATC

Accession numbers of proteins used in alignments

Q3B891 (UniProt). Protein: BRCA1. Species: *Homo sapiens*.

Q99496 (UniProt). Protein: RING2. Species: *Homo sapiens*.

Q13489 (UniProt). Protein: BIRC3. Species: *Homo sapiens*.

Q8WY64 (UniProt). Protein: MYLIP. Species: *Homo sapiens*.

P22681 (UniProt). Protein: CBL. Species: *Homo sapiens*.

E3MFJ2 (UniProt). Protein: LIN-41. Species: *Caenorhabditis remanei*.

G0MLY8 (UniProt). Protein: LIN-41. Species: *Caenorhabditis brenneri*.

Q9U489 (UniProt). Protein: LIN-41. Species: *Caenorhabditis elegans*.

Q2Q1W2 (UniProt). Protein: TRIM71. Species: *Homo sapiens*.

E1BJS7 (UniProt). Protein: TRIM71. Species: *Bos taurus*.

D3ZVM4 (UniProt). Protein: TRIM71. Species: *Rattus norvegicus*.

Q1PRL4 (UniProt). Protein: TRIM71. Species: *Gallus gallus*.

F6QEU4 (UniProt). Protein: TRIM71. Species: *Xenopus tropicalis*.

E7FAM5 (UniProt). Protein: TRIM71. Species: *Danio rerio*.

Q9V4M2 (UniProt). Protein: WECH. Species: *Drosophila melanogaster*.

1Q7F (PDB ID). Protein: Brat. Species: *Drosophila melanogaster*.