

Supporting Information:

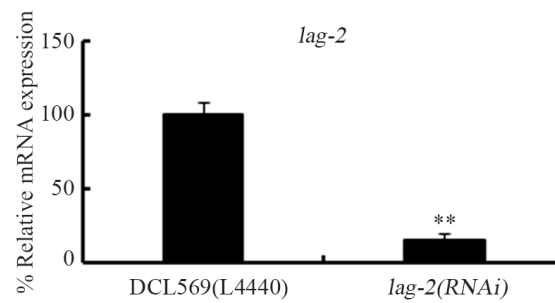


Figure S1. RNAi knockdown efficiency of *lag-2*. ** $P < 0.01$ vs DCL569(L4440).

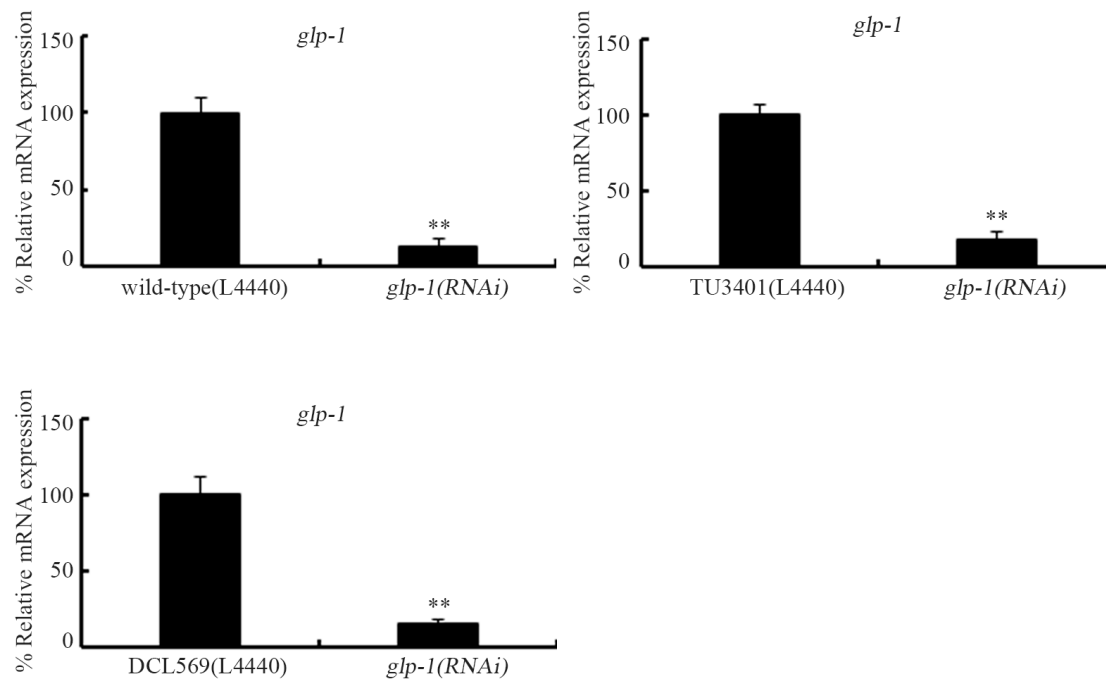


Figure S2. RNAi knockdown efficiency of *glp-1*. ** $P < 0.01$ vs wild-type(L4440), TU3401(L4440), or DCL569(L4440).

Table S1. Information for *C. elegans* strains

Strains	Genotype	Description
N2		Wild-type
TU3401	<i>sid-1(pk3321);[pCFJ90(myo-2p::mCherry)+unc-119p::sid-1]</i>	Neuronal RNAi knockdown tool
DCL569	<i>mkcSi13[sun-1p::rde-1::sun-1 3'UTR + unc-119(+)];rde-1(mkc36)</i>	Germline RNAi knockdown tool

Table S2. Primer information for qRT-PCR

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>lag-2</i>	GACATCGGATGGATGGGACC	GGCGTCTTTGACACTGCAAG
<i>apx-1</i>	CGAGCTGCTCATCTCATCCC	AGCAATCCCCGTGATTCCA
<i>dsl-2</i>	AGCTCGTGCTCAAAGTCGA	CCTAGGTATCGCTGAGAAGT
<i>glp-1</i>	TTCAACAGCGCAAAGTGTCG	TCGTTGATTCCATCGGAGGC
<i>lin-12</i>	TGGATCAACGTCAACACCGT	TCGGAGTATCGCGTCATTGG
<i>ins-3</i>	GGAGCTGCAAGTCTTATGCG	GATCTGGCCATCAGGGAGTG
<i>ins-39</i>	CCGAGCAAATGACTGCCAAG	CAGAGCAGGGTGACGAAGTC
<i>daf-28</i>	GTGGAGTGTCTGTGGAGACG	AAGAAGCAAACGTGGGCAAC
<i>daf-7</i>	CCCTTCATCCCCAACAGACC	GACATTGGCGATTGAGACGC
<i>dbl-1</i>	TGCTTCGGAAGTTGGGACTC	TTCGGTAAGGTTGTCGACGG
<i>jnk-1</i>	TATGCTCCACCTCCACTT	GGGTTCTTGCCTAATCTG
<i>mpk-1</i>	CGACTCCACGAGAAGGAT	ATATGTACGACGGGCATG
<i>glb-10</i>	TCAACGATCCGCGGAAAGAA	GAAATCAACATGCCGGGCTC
<i>lin-44</i>	ACCCTTGAGCACATTACCGA	AGCCGATCACAATCACCTTG
<i>tba-1</i>	TCAACACTGCCATCGCCGCC	TCCAAGCGAGACCAGGCTTCAG