

Table S11

Strain name	Genotype	Strain name used for the purpose of this study
N2		wild type (WT)
	<i>mes-2(tm5007) II</i>	<i>mes-2(tm5007)</i>
SS186	<i>mes-2(bn11) unc-4(e120)/mnc1 dpy-10(e128) unc-52(e444) II</i>	<i>mes-2(bn11)</i>
VC2409	<i>mes-2(ok2480)/mT1 II; +/mT1 [dpy-10(e128)] III</i>	<i>mes-2(ok2480)</i>
	<i>jmjd-3.2(tm3121) X</i>	<i>jmjd-3.2(tm3121)</i>
ZR332	<i>jmjd-3.1(gk384) jmjd-3.2 (tm3121) jmjd-3.3(tm3197) X</i>	<i>jmjd-3</i> triple mutant
ZR252	<i>utx-1(tm3118) X</i>	<i>utx-1(tm3118)</i>
ZR254 ZR255	<i>utx-1(tm3118) X ; zrEx264[utx-1p::utx-1::GFP + rol-6⁺]</i>	<i>utx-1(tm3118)+ utx-1 OE</i>
ZR256 ZR257	<i>utx-1(tm3118) X; zrEx295[utx-1p::utx-1DD::GFP + rol-6⁺]</i>	<i>utx-1(tm3118)+ utx-1DD OE</i>
ZR802	<i>zrEx264[utx-1p::utx-1::GFP + rol-6⁺]</i>	<i>utx-1 OE</i>
ZK856	<i>zrEx295[utx-1p::utx-1DD::GFP + rol-6⁺]</i>	<i>utx-1DD OE</i>
ZR693 ZR694	<i>zrEx231[myo-3p::utx-1::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>myo-3p::utx-1:: GFP</i>
ZR695 ZR696	<i>zrEx233[dpy-7p::utx-1::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>dpy-7p::utx-1:: GFP</i>
ZR697 ZR698	<i>zrEx235[rab-3p::utx-1::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>rab-3p::utx-1:: GFP</i>
ZR699 ZR700	<i>zrEx237[vha-6p::utx-1::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>vha-6p::utx-1:: GFP</i>
ZR701 ZR702	<i>jmjd-3.2(tm3121) X zrEx239[jmjd-3.2p::jmjd-3.2::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>jmjd-3.2(tm3121)+ jmjd-3.2 OE</i>
ZR703 ZR704	<i>jmjd-3.2(tm3121) X zrEx241[jmjd-3.2p::jmjd-3.2DD::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>jmjd-3.2(tm3121) + jmjd-3.2DD OE</i>
ZR705	<i>zrEx243[jmjd-3.2p::jmjd-3.2::GFP + rol-6⁺ +myo-2::rfp]</i>	<i>jmjd-3.2 OE</i>
ZR706 ZR707	<i>zrEx245[jmjd-3.2p::jmjd-3.2DD::GFP + rol-6⁺ + myo-2::rfp]</i>	<i>jmjd-3.2DD OE</i>
VP303	<i>rde-1(ne219) V; kbls7 [nhx-2p::rde-1 + rol-6(su1006)]</i>	intestine specific RNAi
NR222	<i>rde-1(ne219) V; kzl9 [(pKK1260) lin-26p::NLS::GFP + (pKK1253) lin-26p::rde-1 + rol-6(su1006)]</i>	epidermis specific RNAi

NR350	<i>rde-1(ne219) V; kzl520 [hlh-1p::rde-1 + sur-5p::NLS::GFP]</i>	muscle specific RNAi
TU3401	<i><u>sid-1(pk3321)</u> V; uls69 [pCFJ90 (myo-2p::mCherry) + unc-119p::sid-1]</i>	neuronal specific RNAi
AW1708	<i>daf-16(mu86) I; rde-1(ne219) V; kzl59 [(pKK1260) lin-26p::NLS::GFP + (pKK1253) lin-26p::rde-1 + rol-6(su1006)]</i>	<i>daf-16(mu86); epidermis-specific RNAi</i>
AW1709	<i>daf-16(mu86) I; <u>sid-1(pk3321)</u> V; uls69 [pCFJ90 (myo-2p::mCherry) + unc-119p::sid-1]</i>	<i>daf-16(mu86); neuron-specific RNAi</i>
AW1774	<i>daf-16(mu86) I; rde-1(ne219) V; kbls7 [nhx-2p::rde-1 + rol-6(su1006)]</i>	<i>daf-16(mu86); intestine-specific RNAi</i>
TJ356	<i>zls356 [daf-16p::daf-16a/b::GFP + rol-6(su1006)]</i>	<i>daf-16::GFP translational reporter</i>

Table S11. List of *C. elegans* strains used in this study. Strain names are indicated along with genotypes, plasmids and short names used in this report.