

Figure S2. Immunolocalization of NOP-1. Control and *nop-1(it142)* embryos were fixed and immunolabeled with antibodies directed against tubulin and a C-terminal NOP-1 peptide. This epitope is located C-terminal to the premature stop codon in *nop-1(it142)*.

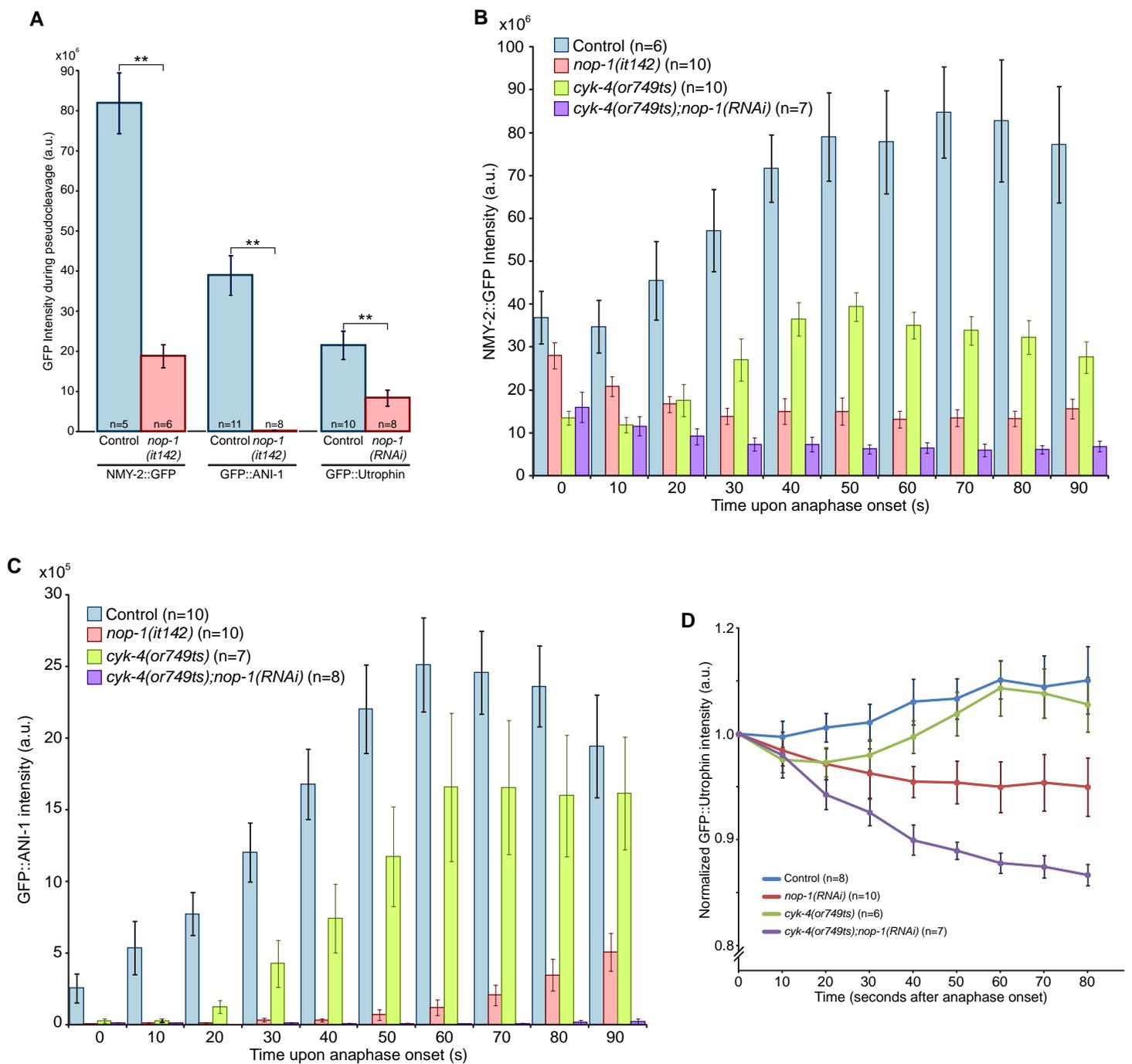


Figure S3. NOP-1 and CYK-4 promote accumulation of RhoA effectors during pseudocleavage and cytokinesis. Images were acquired as described in figures 3 and 4. The accumulation of cortical NMY-2::GFP during pseudocleavage (A) and cytokinesis (B), the accumulation of cortical GFP::ANI-1 during cytokinesis (C), and the accumulation of cortical GFP::Utrophin were quantified as described in the methods section. Error bars represent S.E.M. ** indicates $p < 0.01$.

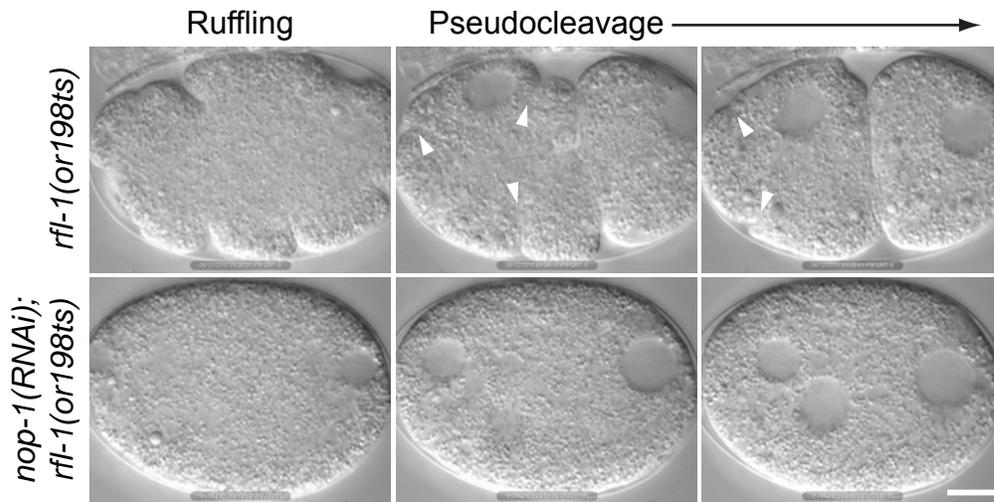


Figure S4. Images from a time-lapse sequences *rfl-1(or198ts)* and, *rfl-1(or198ts);nop-1(RNAi)* embryos during polarization. *rfl-1* embryos are hypercontractile forming ectopic pseudocleavage furrows (white arrows), whereas the contractility is absent in *rfl-1(or198ts);nop-1(RNAi)* embryos. Scale bar represents 10 μ m.

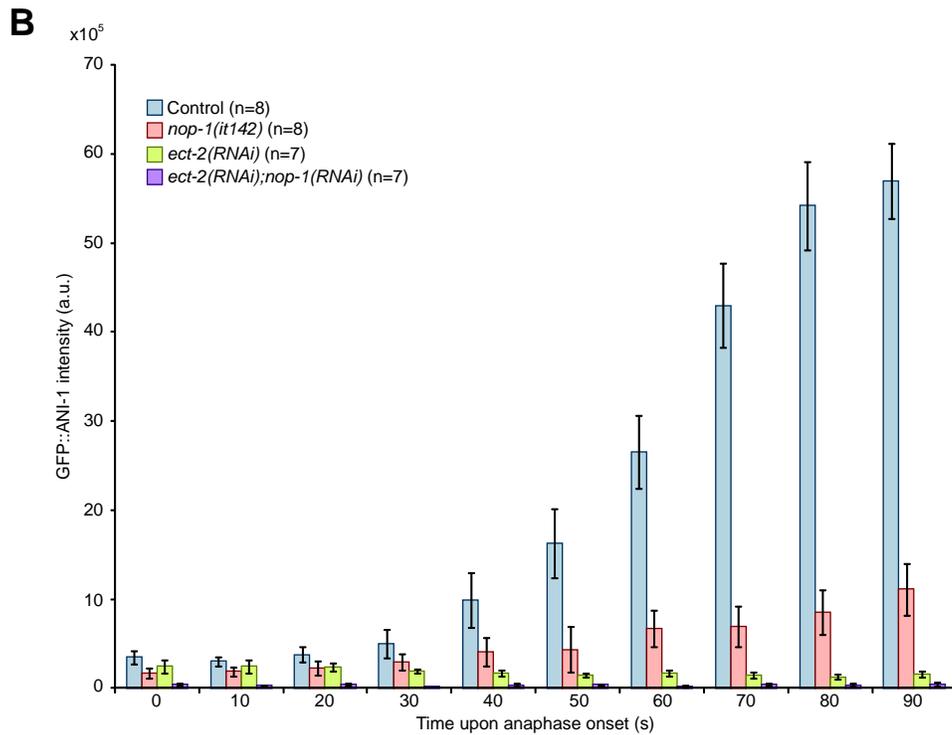
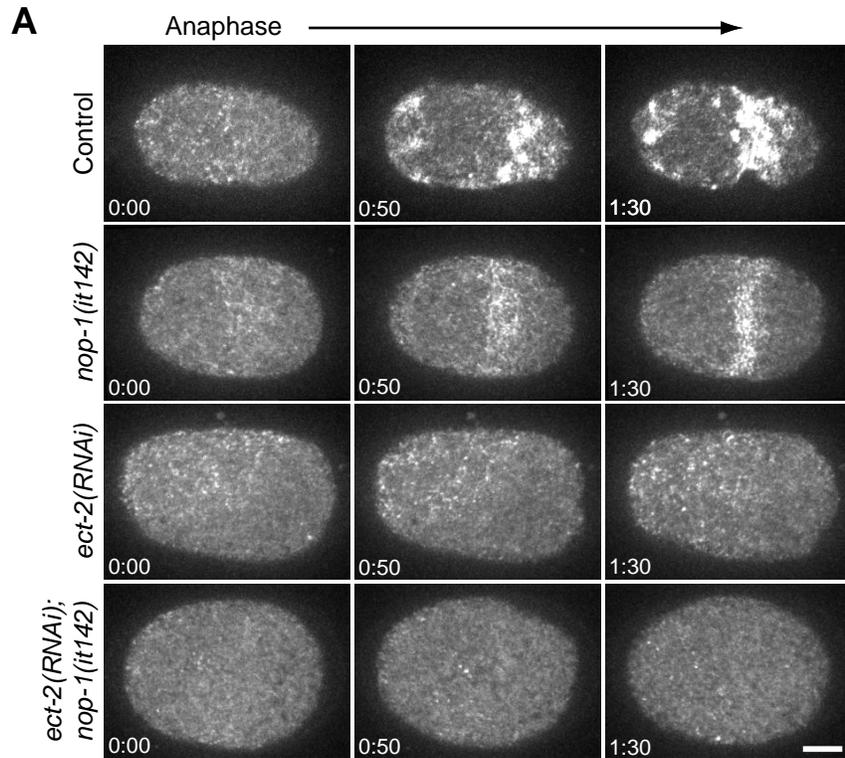


Figure S5. Anillin recruitment is ECT-2 dependent. (A) Cortical confocal images of GFP::Anillin in control, *nop-1(it142)*, *ect-2(RNAi)*, *nop-1(it142);ect-2(RNAi)* embryos at the indicated times after anaphase onset. (B) Quantitation of the accumulation of cortical GFP::ANI-1 from embryos like those in (A). Depletion of ECT-2 all but eliminates recruitment of GFP::ANI-1. Error bars represent \pm SEM.

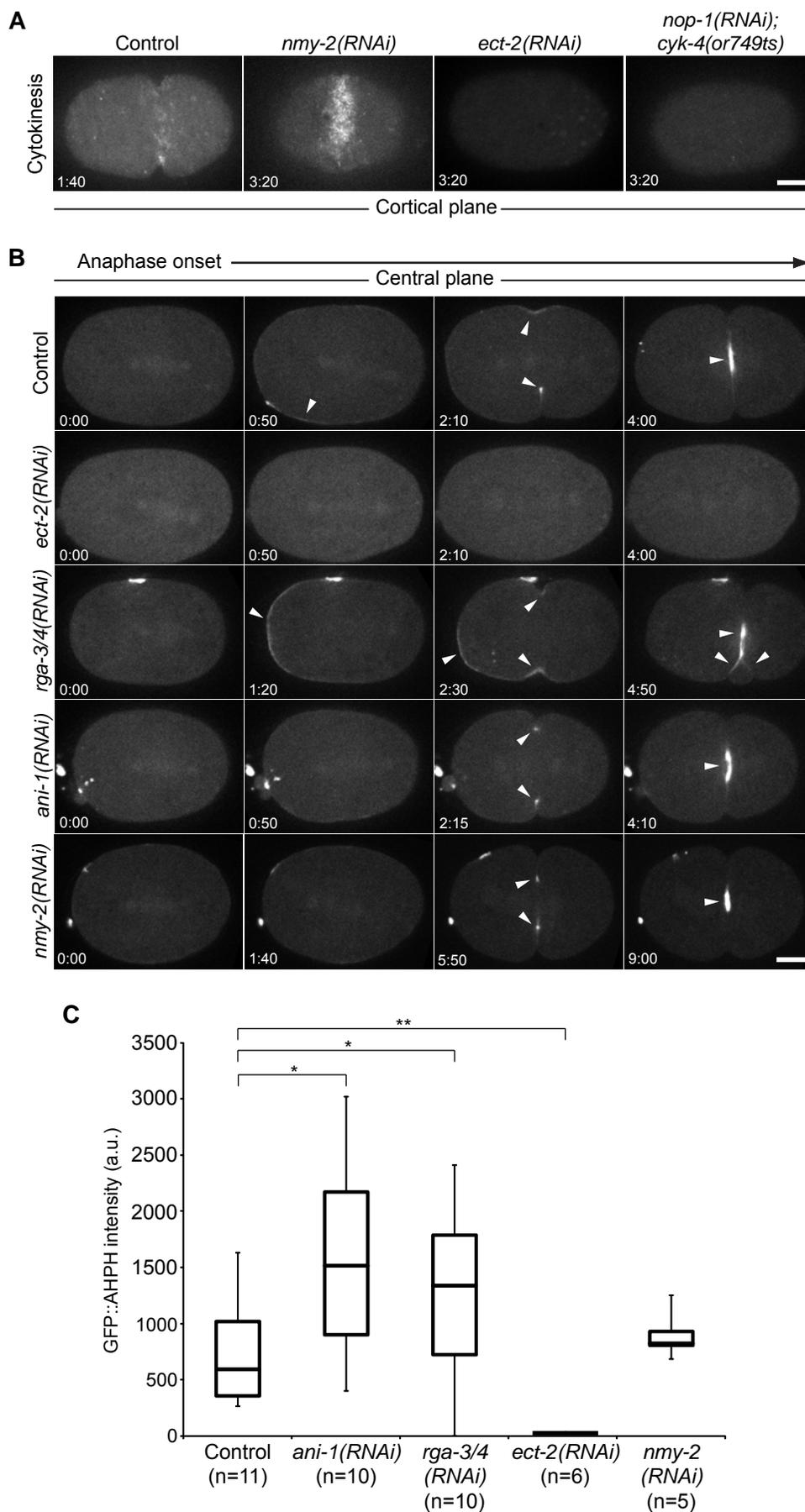


Figure S6. Validation of RhoA reporter. (A) Cortical confocal images of GFP::AHPH in embryos depleted of NMY-2, ECT-2 or *cyk-4(or749ts)* embryos depleted of NOP-1. (B) Accumulation of GFP::AHPH at the midplane of embryos depleted of ECT-2, RGA-3/4, ANI-1, or NMY-2 by RNAi. For the quantitative analysis, we restricted the analysis of NMY-2-depleted embryos to those which furrow to completion, but exhibit pronounced delays in furrowing (~100s). Indicated times represent min:sec following anaphase onset. Scale bar 10 μ m. (C) Box-whisker plot of the equatorial accumulation of GFP::AHPH of embryos as shown in (A). ** indicates $p < 0.01$.

Table S1. Worm strains used in this study.

Strain #	Genotype
N2	<i>Ancestral N2 Bristol strain; “wild-type”</i>
KK725	<i>nop-1(it142)III</i>
MG586	<i>mgSi2[cb-UNC-119(+)] GFP::<i>NOP-1</i>] II; <i>unc-119(ed3) III</i></i>
MG593	<i>nop-1(it142)III; mgSi2[cb-UNC-119(+)] GFP::<i>NOP-1</i>] II</i>
MG532	<i>zuIs45 [nmy-2::<i>NMY-2</i>::<i>GFP</i> + <i>unc-119(+)] V; tjIs57 [pie-1::<i>mCherry</i>::<i>HIS-58</i>; <i>unc-119(+)]</i></i></i>
MG576	<i>nop-1(it142) III; zuIs45 [nmy-2::<i>NMY-2</i>::<i>GFP</i> + <i>unc-119(+)] V; tjIs57 [pie-1::<i>mCherry</i>::<i>HIS-58</i>; <i>unc-119(+)]</i></i></i>
MG542	<i>ltIs28 [pASM14; pie-1::<i>GFP-TEV-STag</i>::<i>ani-1</i>; <i>unc-119 (+)]</i>; <i>tjIs57 [pie-1::<i>mCherry</i>::<i>HIS-58</i>; <i>unc-119(+)]</i></i></i>
MG567	<i>nop-1(it142); ltIs28 [pASM14; pie-1::<i>GFP-TEV-STag</i>::<i>ani-1</i>; <i>unc-119 (+)]</i>; <i>tjIs57 [pie-1::<i>mCherry</i>::<i>HIS-58</i>; <i>unc-119(+)]</i></i></i>
MG589	<i>mgSi3[cb-UNC-119 (+)] GFP::<i>UTROPHIN</i>]II</i>
JH2754	<i>ect-2(ax751) II</i>
OD239	<i>cyk-4(or749)III; ltIs38 [pAA1; pie-1/<i>GFP</i>::<i>PH(PLC1delta1) unc-119 (+)]III</i>; <i>ltIs37[pAA64; pie-1::<i>mCHERRY</i>::<i>HIS-58</i>; <i>unc-119 (+)]IV</i></i></i>
MG512	<i>cyk-4(or749) nop-1(it142)III</i>
MG520	<i>cyk-4(or749)III; zuIs45[nmy-2::<i>NMY-2</i>::<i>GFP</i> + <i>unc-119(+)]IV</i>; <i>ltIs37[pAA64; pie-1::<i>mCHERRY</i>::<i>HIS-58</i>; <i>unc-119 (+)]</i></i></i>
MG612	<i>cyk-4(or749)III; ltIs28 [pASM14; pie-1::<i>GFP-TEV-STag</i>::<i>ani-1</i>; <i>unc-119 (+)]</i>; <i>tjIs57 [pie-1::<i>mCherry</i>::<i>his-58</i>; <i>unc-119(+)]</i></i></i>
MG628	<i>cyk-4(or749)III; mgSi3[cb-UNC-119 (+)] GFP::<i>UTROPHIN</i>]II; <i>ltIs37[pAA64; pie-1::<i>mCHERRY</i>::<i>HIS-58</i>; <i>unc-119 (+)]IV</i></i></i>
DH244	<i>zyg-9(b244)II</i>
MG636	<i>mgSi5[cb-UNC-119 (+)] GFP::<i>ANI-1(AH+PH)]II</i>; <i>nop-1(it142) III</i></i>
MG637	<i>cyk-4(or749)/unc-64(e246)III; mgSi5[cb-UNC-119 (+)] GFP::<i>ANI-1(AH+PH)]II</i>; <i>tjIs57 [pie-1::<i>mCherry</i>::<i>HIS-58</i>; <i>unc-119(+)]</i></i></i>
MG617	<i>mgSi5[cb-UNC-119 (+)] GFP::<i>ANI-1(AH+PH)]II</i></i>
OD58	<i>unc-119(ed3) III; ltIs38 [pAA1; pie-1::<i>GFP</i>::<i>PH(PLC1delta1)</i>; <i>unc-119 (+)]</i></i>
MG481	<i>nop-1(it142)III; ltIs38 [pAA1; pie-1::<i>GFP</i>::<i>PH(PLC1delta1)</i>; <i>unc-119 (+)]</i></i>
JH2647	<i>axIs1928 [mCherry::<i>par-6</i>]. oxIs1182 [<i>GFP</i>::<i>par-2</i>]</i>
JH2657	<i>ect-2(ax751) II; axIs1928 [mCherry::<i>par-6</i>]. oxIs1182 [<i>GFP</i>::<i>par-2</i>]</i>
MG596	<i>nop-1(it142)III; axIs1928 [mCherry::<i>par-6</i>]. oxIs1182 [<i>GFP</i>::<i>par-2</i>]</i>
EU626	<i>rfl-1(or198) III.</i>