

Function of the *C. elegans* T-box factor TBX-2 depends on SUMOylation

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Abstract:

T-box transcription factors are critical developmental regulators in all multi-cellular organisms, and altered T-box factor activity is associated with a variety of human congenital diseases and cancers. Despite the biological significance of T-box factors, their mechanism of action is not well understood. Here we examine whether SUMOylation affects the function of the *C. elegans* Tbx2 sub-family T-box factor TBX-2. We have previously shown that TBX-2 interacts with the E2 SUMO-conjugating enzyme UBC-9, and that loss of TBX-2 or UBC-9 produces identical defects in ABa derived pharyngeal muscle development. We now show that TBX-2 is SUMOylated in mammalian cell assays, and that both UBC-9 interaction and SUMOylation depends on two SUMO consensus sites located in the T-box DNA binding domain and near the TBX-2 C-terminus, respectively. In co-transfection assays, a TBX-2:GAL4 fusion protein represses expression of a 5xGal4:tk:luciferase construct. However, this activity does not require SUMOylation, indicating SUMO is not generally required for TBX-2 repressor activity. In *C. elegans*, reducing SUMOylation enhances the phenotype of a temperature sensitive *tbx-2* mutant and results in ectopic expression of a gene normally repressed by TBX-2, demonstrating that SUMOylation is important for TBX-2 function *in vivo*. Finally, we show mammalian orthologs of TBX-2, Tbx2 and Tbx3, can also be SUMOylated, suggesting SUMOylation may be a conserved mechanism controlling T-box factor activity.

Keywords: T-box, SUMOylation, *C. elegans*, TBX-2, genetic enhancer

Introduction:

T-box proteins are a family of transcription factors found in all multicellular animals where they play important roles in the development of a variety of tissues [1,2]. The defining feature of this family is the conserved T-box DNA-binding domain, and T-box factors are grouped into distinct sub-families based on sequence conservation within this domain. In many cases, the level of T-box factor activity is crucial to normal function. For example, reduced expression of the human Tbx2 sub-family genes *TBX3*, *TBX4* and *TBX5* resulting from loss of one functional allele results in ulnar-mammary syndrome, small patella syndrome, and Holt-Oram syndrome, respectively [3-7]. In contrast, over-expression of the Tbx2-subfamily genes *TBX2* and *TBX3* is found in a number of human cancers [8]. Despite their developmental and clinical importance, relatively little is known about the mechanism by which T-box factors function.

We are interested in the role that SUMOylation plays in T-box factor activity. SUMOylation is the covalent and reversible post-translational attachment of the small ubiquitin-like modifier peptide (SUMO) to specific lysine residues in target proteins [9,10], and it has been implicated in diverse processes, including modifying function, nuclear localization, and sub-nuclear localization of transcriptional regulators [11]. SUMOylation of transcription factors is typically associated with repression [12], but it has also been implicated in transcriptional activation by some factors [13,14]. The SUMO conjugation pathway is analogous to the ubiquitination pathway and involves an E1 activating enzyme (Aos1/Uba2) and an E2 conjugating enzyme (Ubc9) sufficient for specific SUMO attachment *in vitro* [15,16]. In addition, a variety of E3 ligases have been identified that promote SUMO transfer from E2 to specific substrates *in vivo*. Ubc9 recognizes the Ψ KX(D/E) SUMO consensus site (where Ψ is a large hydrophobic amino acid and K is the residue attached to SUMO) [17,18], and many SUMOylation substrates have been identified by their interaction with Ubc9 in yeast 2-hybrid screens [19]. SUMOylation also occurs at non-consensus sites, and non-covalent

SUMO/substrate or E3 ligase/substrate interactions are involved in directing SUMOylation at these sites [9].

We hypothesize that function of the *C. elegans* T-box factor TBX-2 depends on SUMOylation [20]. TBX-2 is the sole *C. elegans* member of the Tbx2 subfamily and is necessary for formation of anterior pharyngeal muscles. In yeast two-hybrid assays, TBX-2 interacts with the E2 SUMO conjugating enzyme UBC-9, and loss of UBC-9 produces pharyngeal phenotypes identical to those resulting from *tbx-2* loss-of-function. In addition, sub-nuclear localization of a TBX-2::GFP fusion protein is altered when SUMOylation is reduced.

Here, we ask if TBX-2 is SUMOylated and whether SUMOylation affects TBX-2 activity *in vivo*. We first used the two-hybrid assay to map interaction sites between TBX-2 and UBC-9 and found two SUMO consensus sites in TBX-2 that mediate interaction with UBC-9. One of these sites is located near the TBX-2 C-terminus, while the other is located in a highly conserved region of the T-box DNA binding domain. We next showed that TBX-2 is SUMOylated in mammalian cell assays, and that TBX-2 SUMOylation depends on both of these UBC-9 interaction sites. We then examined TBX-2 transcriptional activity and found that in mammalian cells a TBX-2-GAL4 DNA-binding domain (GAL4-DBD) fusion protein represses expression of a GAL4-responsive reporter, but surprisingly this repression did not require SUMOylation. To determine whether SUMOylation is important for TBX-2 activity *in vivo*, we asked if *tbx-2* and *ubc-9* interact genetically. We found that reduction of SUMOylation enhances the effect of a *tbx-2* hypomorphic mutant on embryonic viability and pharyngeal muscle development, and that repression of a downstream target of TBX-2 depends on SUMOylation. Finally we examined SUMOylation of two mammalian orthologs of TBX-2 and found that human TBX2 and mouse Tbx3 can also be SUMOylated. We suggest SUMOylation is a common mechanism regulating activity of T-box transcription factors.

Materials and Methods

Nematode handling, transformation and strains

C. elegans were grown under standard conditions [21]. Germ line transformation was performed using standard techniques with pRF4 containing *rol-6(su1006)* as a dominant marker for transformation [22]. The following strains were used in these studies: OK0660 *tbx-2(bx59)* obtained by outcrossing from EM207 *tbx-2(bx59)*; *him-5(e1490)*; OK0666 *cuEx553[D2096.6::gfp]*; OK0692 *tbx-2(bx59)*; *cuEx553[D2096.6::gfp]*; OK0741 *tbx-2(ok529)/dpy-17(e164) unc-32(e189); cuEx553[D2096.6::gfp]*.

Genotyping *tbx-2(bx59)* mutants

tbx-2(bx59) is a G->A substitution located at position 24,597 of the cosmid F21H11 (accession FO081200) (K. Chow, personal communication) and disrupts a BstCI restriction enzyme site. Animals were genotyped by single worm PCR [23] using primers PO931 [AGTTTGACACCGATTTCTCG] and PO932 [GTGATGATGGATCTTGTCCG] followed by digestion with BstCI and gel electrophoresis.

General methods for nucleic acid manipulations and plasmid construction

Standard methods were used to manipulate plasmid DNAs and oligonucleotides [24], and all plasmid sequences are available from the authors. For yeast two hybrid assays, the LKIE and VKKE SUMOylation sites were separately mutated using the Stratagene QuikChange II Kit in the *tbx-2* bait plasmid pOK187.01 containing the full-length *tbx-2* orf [20] to generate pOK222.01 and pOK222.06, respectively. The LKIE/VKKE->AAAA double mutant was constructed by ligation of fragments pOK222.01 and pOK226.06 to create the plasmid pOK225.02. Plasmids for expressing TBX-2 (pOK241.05), TBX-2^{LKIE->AAAA} (pOK241.10), TBX-2^{VKKE->AAAA} (pOK241.13), and TBX-2^{LKIE/VKKE->AAAA} (pOK241.17) were constructed by inserting the PCR amplified *tbx-2* orf from the two-hybrid vectors into pCDNA3.1 using TOPO cloning

(Invitrogen). Plasmids for expressing TBX-2^{K231R} (pOK263.01), TBX-2^{K400R} (pOK244.18) and the TBX-2^{2KR} double mutant (pOK261.03) were made by site directed mutagenesis of pOK241.05 using the Stratagene QuikChange II Kit. The plasmid encoding HA::SUMO-1 (pcDNA3 HA SUMO-1, pOK251.01) was a gift from Jorge A. Iñiguez-Lluhí (University of Michigan), and it was mutated using the Stratagene QuikChange II Kit to encode HA::SUMO-1(Δ GG) (pOK263.05). cDNA clones for human TBX2 (IMAGE:6339405) and mouse Tbx3 (IMAGE:30547736) were purchased from Open Biosystems and inserted into pCDNA3.1 using TOPO cloning to make pOK246.01 and pOK245.01.

Plasmids for expressing TBX-2:GAL4 (pOK253.01) and TBX-2^{LKIE/VKKE->AAAA}:GAL4 (pOK253.04) for co-transfection assays were made by cloning the amplified *tbx-2* orf from pOK241.05 and 241.17, respectively, into pcDNA HA:GAL4(1-100) (provided by Jorge A. Iñiguez-Lluhí, University of Michigan). For mock transfections, the HA:GAL4 fragment was removed from pcDNA HA:GAL4(1-100) (pOK293.03). The 5xGAL4:tk:luc reporter was a gift from Elizaveta Benevolenskaya, University of Illinois at Chicago)

Yeast 2-hybrid assays

Yeast 2-hybrid assays were carried out in L40 yeast containing HIS3 and *lacZ* reporters regulated by LexA binding sites with the *ubc-9* prey plasmid pOK193.11 in the pACT vector and *tbx-2* bait plasmids pOK187.01 (wild-type *tbx-2*), pOK222.01 (*tbx-2*^{LKIE->AAAA}), pOK222.06 (*tbx-2*^{VKKE->AAAA}), or pOK225.02 (*tbx-2*^{LKIE/VKKE->AAAA}) in the pLexA-NLS vector as previously described [20]. β -galactosidase expression in yeast was quantified in at least three assays as previously described [25].

RNAi analyses

Feeding RNAi was performed as previously described [26] using plasmids obtained from Geneservice containing genomic fragments of *ubc-9* or *smo-1* cloned into L4440 [27]. To

assess enhancement of the *tbx-2(bx59)* mutant phenotype, N2 or OK0660 [*tbx-2(bx59)*] L4 hermaphrodites raised at 16°C were transferred to plates seeded with RNAi feeding *E. coli* or OP50 and incubated at 25°C for 24 hr. These animals were transferred to fresh feeding plates at 25°C and allowed to lay eggs for 4 hrs. Progeny embryos were transferred to fresh feeding plates and counted. Larvae and terminally arrested embryos were counted 24 hr later to assay embryonic lethality, or examined by DIC microscopy after hatching to assess the pharyngeal phenotype.

To examine *D2096.6::gfp* expression, OK0666 [*cuEx553*] L4 hermaphrodites were transferred to plates seeded with *ubc-9* RNAi feeding *E. coli* or OP50 and grown 20 hr at 20°C. These animals were transferred to fresh feeding plates, and GFP expression was examined in progeny embryos and larvae.

SUMOylation and co-transfection assays

COS-1 cells were maintained in D-MEM with 10% FBS, 10 mM HEPES, and 1x Antibiotic-Antimycotic (Invitrogen). For SUMOylation assays, ~2x10⁶ cells were seeded into 10 cm plates 24 hours prior to transfection. Plates were transfected with plasmids expressing wild type or mutant TBX-2 (10 µg), HA-SUMO-1 or HA-SUMO-1(ΔGG) (10 µg), and peGFP-N3 (4 µg; Clontech) using Lipofectamine 2000 in OPTI-MEM using manufacturer's instructions (Invitrogen). After 48 hr, COS-1 cells were harvested in PBS, lysed in 0.75 ml lysis buffer [8 M urea, 0.5 M NaCl, 45 mM Na₂HPO₄, 5 mM NaH₂PO₄, 10 mM imidazole, 10 mM NEM (pH 8.0)], sonicated, and incubated with 50 µl Ni-NTA magnetic beads (Qiagen). Beads were washed twice with 1 ml wash [8 M urea, 0.4 M NaCl, 17.6 mM Na₂HPO₄, 32.4 mM NaH₂PO₄, 10 mM imidazole, 10 mM NEM (pH 6.75)] on a MagnaRack (Invitrogen). Protein was eluted in 50 µl (250 mM imidazole, 5% SDS, 0.15 M Tris pH6.7, 30% glycerol, 0.72 M βME), resolved by SDS-PAGE, and blotted. Proteins were detected using anti-V5 (Invitrogen) or anti-HA (Covance), HRP-conjugated secondary antibody (Goat anti-mouse, Millipore), and ECL Plus (GE

Healthcare) detection reagent. Chemiluminescence was recorded using ECL hyperfilm (GE Healthcare) or recorded and quantified using a STORM 860 Molecular Imager and ImageQuant software (Molecular Dynamics).

For co-transfection assays, 2×10^5 COS-1 cells were seeded to wells of a 24 well-plate 24 hours prior to transfection. Wells were transfected with plasmids expressing TBX-2 (25-500 ng), 5xGAL4:tk:luc (280 ng), and CMV β gal (20 ng) using Lipofectamine 2000 in OPTI-MEM using manufacturer's instructions (Invitrogen) and harvested. Luciferase and β -gal were measured in triplicate samples using Steady Glo Luciferase system (Promega) and a Clarity Luminescence Micro-plate reader (BIO-TEK), and β gal activity was measured with a Genesys 10 UV spectrophotometer (Thermo-Fisher) [28].

Microarray and data analysis

Mixed stage populations of N2 and OK0660 [*tbx-2(bx59)*] animals grown at 25°C were treated with bleach/sodium hypochlorite to isolate embryos [21]. Aliquots of embryos were examined to verify comparable age distributions, and RNA was isolated using TRIzol (Invitrogen) and further purified using RNeasy Kit (Qiagen) following manufacturers' protocols.

Total RNA from 2 independent populations of N2 embryos and 3 independent *tbx-2(bx59)* embryos were labeled and hybridized to Affymetrix *C. elegans* Genome GeneChips by the UIC Core Genomic Facility (CGF). The microarray data was analyzed using the R statistical programming language, using the Bioconductor suite of tools [29], and the Affy package. Normalization to correct for chip-to-chip variation was done using the Robust Multiarray Averaging (RMA) method of microarray normalization [30]. Microarray results were pre-filtered using the genefilter function (25% of the probes have a measured intensity of at least 100 on the original scale and the coefficient of variation is between 0.7 and 10 on the original scale) [31]. The limma package [32] was used to calculate differentially expression using the limma linear model fit, eBayes smoothing of standard errors, and Benjamini-Hochberg (BH) multiple test

correction with a false discovery rate of 5% [33]. Probes were matched to genes using the Affymetrix-to-WormBase ID table for WS210 (www.wormbase.org). Probes mapping to more than one gene were discarded. When one or more probes mapping to a gene were differentially expressed, that gene was considered to be differentially expressed. One GeneChip hybridized with *tbx-2(bx59)* RNA exhibited high variation in the spiked in control probes (TBXa) compared to the other samples, and data from this chip was not included in our analysis.

Microscopy

Worms were visualized using a Zeiss Axioskop microscope equipped for DIC and fluorescence microscopy, and images were captured using an Axiocam MRm camera and AxioVision software.

Results:

TBX-2 interacts with UBC-9 via two SUMO consensus sites

We previously showed using yeast two-hybrid assays that TBX-2 specifically interacts with the E2 SUMO-conjugating enzyme UBC-9 [20], and we used this assay to identify sites in TBX-2 mediating this interaction. TBX-2 contains several sites matching the SUMO consensus site ψ KX(D/E) (Supplementary Table 1) [17,18]. The two highest-scoring matches to this consensus are an LK₂₃₁IE sequence located near the C-terminus of the T-box DNA binding domain and a VK₄₀₀KE sequence located near the TBX-2 C-terminus (Figure 1A). LKIE is located in a conserved region of the T-box, and a SUMO consensus site is found at this position in many T-box factors, including all members of the Tbx2 sub-family [34]. VKKE is located in a region that is not highly conserved among T-box factors, although high scoring SUMO consensus sites are found near the C-terminus of TBX-2 proteins from *C. elegans*, *C. briggsae*, and *C. remanei*, suggesting this site may be functionally conserved (Figure 1B). We mutated each of these two sites in *C. elegans* TBX-2 to all alanines either in single mutants (LKIE->AAAA or VKKE->AAAA) or in a double mutant (LKIE/VKKE->AAAA) and tested whether these mutants affected the ability of a TBX-2 bait to interact with UBC-9 prey. Interactions were scored in plate assays for histidine prototrophy and β -galactosidase (β -gal) expression, and the level of interaction was quantified by measuring β -gal activity.

We found that UBC-9 interaction with TBX-2 was affected by mutations affecting both the LKIE and VKKE sites. UBC-9 interacted with both the TBX-2^{LKIE->AAAA} and TBX-2^{VKKE->AAAA} single mutants in plate assays, but this interaction was reduced to 63% and 22% of the levels observed for wild-type TBX-2, respectively (Figure 1B). In comparison, UBC-9 failed to interact with the TBX-2^{LKIE/VKKE->AAAA} double mutant in plate assays, and the β -gal activity was close to that obtained using an empty bait plasmid (Figure 1B, Supplementary Figure 1). As a control,

we found that wild-type and all of the mutant TBX-2 proteins retained the ability to interact with an unrelated protein UNC-37 in yeast two-hybrid assays indicating the mutant proteins were expressed (Supplementary Figure 1). Thus, both the LKIE and VKKE sites can interact with UBC-9. Because mutating both of these sites reduces interaction to near background, we believe they are the primary sites in TBX-2 that mediate this interaction. We have not tested other potential TBX-2 SUMOylation sites for interaction with UBC-9 in two-hybrid assays.

TBX-2 can be SUMOylated in mammalian cell assays

To determine if TBX-2 can be SUMOylated, we co-expressed full-length TBX-2 and human SUMO-1 in COS-1 cells. TBX-2 was fused to poly-histidine and pulled down using Ni^{2+} -beads under denaturing conditions, while TBX-2 and SUMO-1 were tagged with V5 and HA epitope tags, respectively, for detection on western blots. A SUMO-1 Δ GG mutant lacking the C-terminal Gly-Gly motif required for conjugation to target lysine residues was used as a control to demonstrate SUMO conjugation.

When co-expressed with SUMO-1, wild-type TBX-2 formed several more slowly migrating bands detectable with both anti-HA and anti-V5 (Figure 2A). These bands likely represent mono- and multi-SUMOylated TBX-2, although proteins SUMOylated at different sites can also migrate at different positions due to the branched nature of the SUMOylated protein [35]. In comparison, no SUMOylated TBX-2 was detected when co-expressed with SUMO-1 Δ GG. As for many SUMOylated proteins, we found only a fraction of TBX-2 (~10%) is SUMOylated in these assays. Similar results were obtained when TBX-2 was co-expressed with human SUMO-2 or SUMO-3 (Supplementary Figure 2).

We next asked how mutations in the UBC-9 interaction sites affected TBX-2 SUMOylation. SUMOylation of $\text{TBX-2}^{\text{LKIE-} \rightarrow \text{AAAA}}$ and $\text{TBX-2}^{\text{VKKE-} \rightarrow \text{AAAA}}$ were reduced to approximately 30% and 70% the level of wild-type TBX-2, respectively, while SUMOylation of the $\text{TBX-2}^{\text{LKIE/VKKE-} \rightarrow \text{AAAA}}$ double mutant was further reduced to a level comparable to background

(Figure 2A, lanes 2 and 9). These results indicate that TBX-2 can be SUMOylated, and that the LKIE and VKKE sites for UBC-9 interaction are required for TBX-2 SUMOylation.

We next mutated the SUMO-conjugated lysine residues in the LKIE and VKKE sites to arginine, which is a conservative substitution that cannot be conjugated to SUMO, and we examined SUMOylation in COS-1 cells (Figure 2B). The TBX-2^{K231R} mutant affecting LKIE exhibited reduction of the more slowly migrating SUMOylated products, but these products were not eliminated, while the fastest migrating band appeared unaffected. In comparison, overall SUMOylation of the TBX-2^{K400R} mutant affecting VKKE was strongly reduced, and the fast migrating form of SUMOylated TBX-2 was nearly completely eliminated. SUMOylation of the TBX-2^{2KR} double mutant containing K231R and K400R was similar to that of the TBX-2^{K400R} single mutant, but this mutant was still SUMOylated above background levels (compare Figure 2B, lanes 2 and 9). Because both of these conservative mutations affect the pattern of TBX-2 SUMOylation, we believe lysine residues in both the LKIE and VKKE SUMO consensus sites are SUMOylated.

TBX-2 is a transcriptional repressor in mammalian cells

C. elegans TBX-2 is most closely related to the mammalian T-box repressors Tbx2 and Tbx3 [20]. We wanted to ask if TBX-2 functions similarly to repress transcription and, if so, whether this activity depends on SUMOylation. Because mutations affecting the LKIE SUMOylation would likely affect DNA binding, we asked if TBX-2 fused to the heterologous GAL4 DNA binding domain (TBX-2:GAL4) could repress expression of the 5xGAL4:tk:luc reporter. This reporter contains 5 copies of the GAL4 binding site upstream of thymidine kinase promoter:luciferase reporter, and TBX-2:GAL4 repressed expression of this reporter up to 5-fold (Figure 3). SUMOylation is most often associated with transcriptional repression, and we expected that mutation of the LKIE and VKKE SUMO sites would reduce this repressor activity. However, we found that the TBX-2^{LKIE/VKKE->AAAA} double mutant repressed 5xGAL4:tk:luc

similarly to wild-type TBX-2. Co-expressing SUMO-1 did not affect repression of 5xGAL4:tk:luc with either wild-type or mutant TBX-2 (Supplementary Figure 3). Thus, SUMOylation is not required for TBX-2:GAL4 repressor activity in COS-1 cells.

TBX-2 function is SUMO-dependent in *C. elegans*

mab-22(bx59) is a temperature sensitive mutant that exhibits defects in male tail ray formation and partially penetrant larval lethality. *bx59* has recently been identified as a missense mutation in *tbx-2* (King Chow, personal communication), and we subsequently refer to this mutation as *tbx-2(bx59)*. We examined the viability and pharyngeal morphology of *tbx-2(bx59)* mutants produced from hermaphrodites shifted to the non-permissive temperature (25°C) at the L4 stage. Forty-four percent of these animals arrested at the L1 stage (n = 64) with variable pharyngeal abnormalities (Figure 4 A-C). These phenotypes are similar to those observed in *tbx-2(RNAi)* animals and are not as severe as those observed in *tbx-2* null mutants [20,36], and we conclude that *tbx-2(bx59)* is a hypomorphic allele.

We hypothesize that TBX-2 function depends on SUMOylation. To test this hypothesis we asked if inhibiting SUMOylation by reducing UBC-9 or the SUMO protein SMO-1 by RNAi could enhance the phenotype of *tbx-2(bx59)* mutants. Using the RNAi-feeding method we found that *ubc-9(RNAi)* produced a relatively low frequency of embryonic arrest in a wild-type background (Table 1) [26]. In comparison, *tbx-2(bx59); ubc-9(RNAi)* double mutants exhibited a synergistic increase in the frequency of arrested embryos (Table 1). *tbx-2(bx59); smo-1(RNAi)* double mutants also exhibited an increased frequency of embryonic lethality compared to each single mutant; however, the *smo-1(RNAi)* lethality alone was higher making it difficult to determine if the double mutant lethality was more than additive (Table 1).

Many of the *tbx-2(bx59)* mutants that hatch grow to adulthood, but nearly all of the *tbx-2(bx59); ubc-9(RNAi)* and *tbx-2(bx59); smo-1(RNAi)* arrested as L1 larvae. We examined newly hatched larvae to determine if this enhanced L1 arrest results from pharyngeal defects.

We found that both *tbx-2(bx59); ubc-9(RNAi)* and *tbx-2(bx59); smo-1(RNAi)* double mutants exhibited a synergistic increase in the frequency of animals with a severe anterior pharyngeal defect compared to the single mutants (Table 1; Figure 4). Together, these results strongly suggest SUMOylation is necessary for TBX-2 function for anterior pharyngeal development.

TBX-2 and SUMOylation are required for repression of *D2096.6* gene expression

To identify genes downstream of TBX-2, we used microarrays to compare mRNA levels in populations of wild-type and *tbx-2(bx59)* embryos grown at 25°C. We found 1276 protein coding genes that are differentially expressed in *tbx-2(bx59)* (BH corrected p ≤ 0.05) (Supplementary Table 2). 1030 of these genes (80.7%) are upregulated in *tbx-2(bx59)*, consistent with our hypothesis that TBX-2 functions as a transcriptional repressor.

We focused on the gene *D2096.6*, which had previously been shown to be specifically expressed in the pharyngeal muscles, marginal cells and epithelial cells under control of the FoxA-family transcription factor PHA-4 [37,38]. We observed an approximately 1.8-fold increase in *D2096.6* expression in *tbx-2(bx59)* mutants in our microarray (BH corrected p=0.03). While several candidate T-box binding sites are located upstream of *D2096.6*, our preliminary characterization of the *D2096.6* promoter suggests it is indirectly regulated by TBX-2.

To determine how TBX-2 regulates *D2096.6* expression, we compared expression of a *D2096.6::gfp* reporter in wild-type and *tbx-2* mutants. Consistent with previous studies [37], we observed that a *D2096.6::gfp* reporter was expressed in wild-type embryos specifically in the pharynx at beginning approximately at the bean stage when the pharyngeal primordium forms. Expression was typically observed in one to two cells in the pharynx in one and one-half fold embryos (Figure 5), and no expression was observed outside the pharynx. The number of GFP-expressing cells increased and animals hatched as L1s with GFP expression in pharyngeal muscles, marginal cells and epithelial cells (Figure 5D). In comparison, in *tbx-2(bx59)* and *tbx-2(ok529)* embryos *D2096.6::gfp* was expressed in more cells in the

pharynx, and expression was observed in many cells outside the pharynx, including body wall muscles and hypodermal cells (Figure 5 B,C; Table 2). Ectopic *D2096.6::gfp* expression continued into the L1 larval stage where it was observed in bodywall muscle, hypodermal and gut cells (Figure 5 E, F). These results indicate TBX-2 is an upstream regulator that represses *D2096.6* expression both temporally and spatially.

To ask if SUMOylation is necessary for TBX-2 function, we examined *D2096.6* expression in animals where activity of UBC-9 was reduced using feeding-RNAi. The most severely affected *ubc-9(RNAi)* animals have a highly disorganized morphology that makes it difficult to identify specific tissues [20]. Therefore we characterized *D2096.6::gfp* expression in older embryos that had undergone morphogenesis and the surviving L1 larvae. *ubc-9(RNAi)* resulted in *D2096.6::gfp* expression in posterior body wall muscles in embryos in a pattern similar to that which we have observed in *tbx-2(bx59)* and *tbx-2(ok529)* embryos (Figure 6 A,B). In larvae we observed expression in body wall muscles and hypodermal cells in the posterior of the worm similar to the expression pattern we see in *tbx-2* mutants (Figure 6 C,D). Thus SUMO-dependent mechanisms repress *D2096.6::gfp* expression, and the similarities in the pattern of ectopic expression in *ubc-9(RNAi)* and *tbx-2* mutants strongly suggests TBX-2 function depends on SUMOylation.

Mammalian Tbx2 subfamily members can be SUMOylated

To determine if SUMOylation is a conserved mechanism regulating T-box factor activity, we asked if mammalian orthologs of TBX-2 could be SUMOylated. Human TBX2 or mouse Tbx3 tagged with poly-histidine and V5 were co-expressed in COS-1 cells with or without HA:SUMO-1 and pulled down using Ni²⁺-beads under denaturing conditions similarly to *C. elegans* TBX-2. When co-expressed with SUMO-1 both TBX2 and Tbx3 formed two more slowly migrating SUMOylated bands. This data indicates that other Tbx2-subfamily members can be SUMOylated, and we hypothesize that SUMOylation may be a common regulatory

method of T-box factor activity.

Discussion:

Here we show that *C. elegans* TBX-2 and its mammalian orthologs human TBX2 and mouse Tbx3 can be SUMOylated, and that TBX-2 SUMOylation depends on two SUMO consensus sites that mediate interaction with the E2 SUMO conjugating enzyme UBC-9. We further demonstrate that *C. elegans* TBX-2 can function as a transcriptional repressor when fused to a heterologous DNA-binding domain; however mutations that eliminate SUMOylation do not affect this repressor activity. Finally we provide genetic evidence that SUMOylation is required for TBX-2 function *in vivo* by showing that reduction of SUMOylation enhances the phenotype of a hypomorphic *tbx-2* mutant and phenocopies the loss of *tbx-2* on expression of one gene that is downstream of TBX-2.

Two TBX-2 SUMO consensus sites interact with UBC-9 and mediate SUMOylation

TBX-2 contains two predicted high scoring SUMO consensus sites. VKKE located near the C-terminus and LKIE located within the T-box DNA-binding domain. Each of these sequences interacts with the E2 SUMO-conjugating enzyme UBC-9 in yeast 2-hybrid assays, and they are the only sites that can mediate this interaction.

Our data strongly suggests that both of these sites are SUMOylated. We observed multiple SUMOylated forms of TBX-2 in COS-1 cells, and mutations affecting either SUMO site reduce the amount of SUMOylated TBX-2. However, there are differences in how specific mutations in these sites affect TBX-2 SUMOylation. For VKKE, mutation of the acceptor lysine (K400R) results in a more severe reduction in SUMOylation than mutating this site completely to alanines. In comparison, mutating the LKIE site to alanines results in a large decrease in SUMOylation whereas mutation of the acceptor lysine (K231R) has a moderate effect and preferentially affects the more slowly migrating SUMOylated forms of TBX-2. Mutations affecting only the acceptor lysine likely retain interaction with UBC-9 (Sampson et al., 2001), whereas mutations converting the SUMO site to alanines eliminate UBC-9 binding. This

difference likely underlies the different effects we observed on TBX-2 SUMOylation when these sites are mutated.

T-boxes have a highly conserved structure when bound to DNA [39-42], and TBX-2 LKIE is located within the α 3 helix that spans the DNA backbone. While SUMOylation can occur in α helices [43,44], this is an unusual 2° structure for UBC-9 interaction and SUMOylation, as UBC-9 has been shown to bind SUMO consensus sites in extended loops [18,45]. However, recent evidence indicates that some T-boxes have significant structural flexibility that might allow SUMOylation at LKIE. The Tbx20 T-box exists as a molten globule with an unstable tertiary structure allowing flexibility between 2° structural domains [46]. Likewise in TBX5, the 3₁₀-helix located just C terminal to the α 3 helix is unstructured in the absence of DNA [42]. While the α 3 helix remains structured when TBX5 is not bound to DNA, the LKIE site would be more accessible to bind UBC-9.

LKIE was also investigated as a potential SUMOylation site in the human T-box factor TBX22 [47]. Interestingly mutation of this site eliminated TBX22 SUMOylation, however this is believed to result indirectly from possible effects on DNA binding as was observed with several DNA-binding defective mutants. Biochemical analyses of SUMOylated T-box factors is necessary to explicitly determine if this site is SUMOylated in different proteins.

tbx-2* genetically interacts with *ubc-9* and *smo-1

tbx-2(bx59); ubc-9(RNAi) and *tbx-2(bx59); smo-1(RNAi)* animals exhibit penetrant embryonic arrest and enhanced pharyngeal defects, indicating that reduced SUMOylation affects TBX-2 activity *in vivo*. In particular, the enhanced pharyngeal phenotype of these animals resembles that of *tbx-2* null mutants, strongly suggesting that *tbx-2* and SUMOylation function in the same pathway to specify pharyngeal muscle fate [48]. These observations are consistent with the hypothesis that TBX-2 function is SUMO-dependent.

In comparison, we do not know why enhanced embryonic lethality was observed in *tbx-2(bx59); ubc-9(RNAi)* and *tbx-2(bx59); smo-1(RNAi)* animals. Neither *tbx-2* null mutants nor *tbx-2(RNAi)* animals exhibit embryonic lethality [20], indicating lethality does not result from loss of zygotic *tbx-2(bx59)* activity. One possibility is that *tbx-2(bx59)* may have a partial gain-of-function character, and reducing SUMOylation deregulates this activity. *tbx-2(bx59)* mutates a conserved histidine residue within the dimerization domain of the T-box to a tyrosine (H145Y; accession CCD69847), and mutations affecting this domain in human TBX1 result in gain-of-function associated with some cases of DiGeorge and velocardiofacial syndromes [49]. Alternatively, decreased SUMOylation of a parentally-provided, RNAi-resistant protein or mRNA *tbx-2* gene product might be required for viability. Finally, decreased SUMOylation may affect SUMO-dependent activity of both TBX-2 and another factor with a partially redundant activity required for embryogenesis.

How might SUMOylation affect TBX-2 activity?

SUMOylation of transcription factors is usually associated with transcriptional repression, and it can promote recruitment of chromatin remodeling and histone modifying complexes [50,12]. Indeed, SUMOylation of the *C. elegans* Ets-domain factor LIN-1 leads to interaction with MEP-1 and the NuRD chromatin repressor complex [51]. However our results argue that SUMOylation affects TBX-2 function by a different mechanism. Unlike LIN-1, repressor activity of TBX-2:GAL4 fusion protein in mammalian cells is independent of SUMOylation, and in extensive yeast 2-hybrid screens TBX-2 has not been observed to interact with MEP-1 [20].

SUMOylation at the LKIE site in the T-box would likely affect the ability of TBX-2 to bind sites in the genome and to interact with other factors binding TBX-2 regulated promoters. If this is the case, our assays for TBX-2:GAL4 repressor activity would be insensitive to SUMOylation, since they depend on a heterologous DNA-binding domain targeting a synthetic promoter.

Indeed, SUMOylation has been shown to affect DNA-binding activity of specific transcription factors [52-54].

It is difficult to predict how SUMOylation at the VKKE site would affect TBX-2 activity. T-box proteins are poorly conserved outside of the DNA-binding domain, and the function of the TBX-2 C-terminus is unknown. Interestingly, our preliminary results indicate VKKE is located near an interaction site for the Groucho-family co-repressor UNC-37 (T. Crum and P. Okkema, unpublished). SUMOylation can regulate interaction with Groucho-family proteins [55,56], and we hypothesize SUMOylation at VKKE has a similar function. Groucho-interaction motifs are enriched in T-box factors from *C. elegans*, Drosophila, and humans [57], and several T-box factors have been shown to interact with Groucho-family proteins [58-61]. SUMOylation may be a common mechanism for regulating T-box factor interaction with Groucho.

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Figure legends:

Figure 1: TBX-2 interacts with UBC-9

- A. Schematic diagram of the TBX-2 protein (Accession CCD69847) indicating the location of the T-box DNA binding domain (black) and the positions of the LK₂₃₁IE and VK₄₀₀KE SUMO consensus sites.
- B. T-Coffee alignment of the C-terminus of TBX-2 proteins from *C. elegans* (CeTBX-2), *C. briggsae* (CbTBX-2; WormBase ID CBP05056), and *C. remanei* (CrTBX-2; WormBase ID RP21057) [62]. High scoring SUMO consensus sites are indicated in grey, and identical residues are marked with asterisks.
- C. Quantification of β -galactosidase activity in yeast expressing the indicated TBX-2 protein or the empty pLexA as bait and UBC-9 prey in replicate samples from 3 independent experiments (n=7). Differences between mutants and wild-type TBX-2 or different mutants (bracket) are statistically significant at p<0.05 (*) or p< 0.005 (**). Error bars indicate the standard error of the mean.

Figure 2: SUMOylation of TBX-2 is mediated via two SUMO consensus sites.

Western blots of Ni-NTA pulled-down wild-type and mutant TBX-2/V5/HIS probed to detect TBX-2 (bottom) or SUMO-1 (top). Combinations of proteins (grey boxes) were expressed in COS-1 cells. A) Wild-type TBX-2 and mutants with SUMOylation sites converted to all alanines. B) Wild-type TBX-2 and mutants with SUMO acceptor lysines converted to arginines. The position of the fastest migrating SUMOylated form of TBX-2 is indicated (bar & circle) and the position of molecular weight markers are indicated in kDa (bars). Signal in the lower panel in A was detected using a STORM Molecular Imager and clearly demonstrates more slowly migrating TBX-2 bands when co-transfected with SUMO-1. TBX-2/V5/HIS is ~52 kDa, and HA-SUMO-1 is ~13 kDa. The fastest migrating SUMOylated form migrates somewhat slower than predicted by its molecular weight, which is a common feature of SUMOylated proteins.

Figure 3: Dose dependent transcriptional repression by TBX-2:GAL4

Relative luciferase activity in experiments co-transfected increasing amounts of wild-type and mutant TBX-2:GAL4 with the 5xGAL4:tk:luc reporter. Data shown is the average of three assays and is representative of multiple independent experiments. Error bars indicate standard deviation. Statistically significant differences from control transfections are marked (*) ($p < 0.05$).

Figure 4: Pharyngeal defects in *tbx-2(bx59)* mutant are enhanced by reduced SUMOylation

DIC micrographs of the pharynx of L1 larvae of the indicated genotypes raised at the non-permissive temperature (25°C). A) wild type N2. B) *tbx-2(bx59)* exhibiting a mild pharyngeal defect. C) *tbx-2(bx59)* exhibiting a more severe pharyngeal defect. D, E) *tbx-2(bx59); ubc-9(RNAi)* (D) and *tbx-2(bx59); smo-1(RNAi)* (E) L1 larvae exhibiting very severe defects resembling those of *tbx-2* null mutants. Arrowheads mark the extent of pharyngeal tissue. Anterior is left. The frequency of these phenotypes are indicated in Table 1.

Figure 5: *D2096.6::gfp* is ectopically expressed in *tbx-2* mutants

Fluorescence (left) and DIC (right) micrographs of 1.5-fold stage embryos (A-C) and L1 larvae (D-F) expressing *D2096.6::gfp*. A) *tbx-2(+); cuEx553[D2096.6::gfp]* embryo containing a single GFP-expressing pharyngeal nucleus (arrowhead) and auto-fluorescent gut granules (g). B and C) *tbx-2(bx59); cuEx553* and *tbx-2(ok529); cuEx553* embryos exhibiting widespread *D2096.6::gfp* expression outside the pharynx. D) *tbx-2(+); cuEx553* L1 with GFP expression in pharyngeal nuclei. E,F) *tbx-2(bx59); cuEx553* and *tbx-2(ok529); cuEx553* L1 larvae Representative bodywall muscle and hypodermal nuclei ectopically expressing *D2096.6::gfp* are marked (bars).

Figure 6: *D2096.6::gfp* is ectopically expressed in *ubc-9(RNAi)* animals

Fluorescence (left) and DIC (right) micrographs of a *tbx-2(bx59); cuEx553* embryo (A) and a *ubc-9(RNAi); cuEx553* embryo (B) and L1 larva (C, D) expressing *D2096.6::gfp* in bodywall muscle and hypodermal nuclei (bars). A white bracket indicates the partial pharynx in C.

Figure 7: SUMOylation of mammalian Tbx2 subfamily members

Western blots of Ni-NTA pulled-down human TBX2/V5/HIS and mouse Tbx3/V5/HIS probed to detect TBX2 and Tbx3 (bottom) or SUMO-1 (top). Combinations of proteins expressed in COS-1 cells are indicated (grey boxes). SUMOylated forms of TBX2 and Tbx3 are marked with arrowheads, and MW weight markers are indicated (kDa). A cross-reacting background band was detected in all lanes using anti-HA.

Table 1: Reduction of SUMOylation enhances *tbx-2(bx59)* embryonic lethality and pharyngeal defects

genotype ^a	% embryonic arrest (n)	Pharyngeal phenotypes in hatched L1s (percentage of total hatched animals)			n
		Severe Tbx-2 pharynx	Mild Tbx-2 pharynx	Wild-type pharynx	
<i>tbx-2(bx59)</i>	7 (120)	19	56	25	54
<i>ubc-9(RNAi)</i>	19 (186)	7	6	87	69
<i>tbx-2(bx59); ubc-9(RNAi)</i>	78 (200)	70	30	0	47
<i>smo-1(RNAi)</i>	65 (347)	22	39	39	49
<i>tbx-2(bx59); smo-1(RNAi)</i>	75 (359)	69	26	5	64

^a L4 animals raised at 16°C were shifted to 25°C, and defects were scored in the F1 progeny.

Table 2: Ectopic expression of *D2096.6::gfp*

genotype	% animals with ectopic <i>D2096.6::gfp</i> expression (n)
<i>cuEx553[D2096.6::gfp]</i>	5 (136)
<i>tbx-2(bx59); cuEx553</i> ^a	71 (55)
<i>tbx-2(ok529); cuEx553</i> ^b	20 (35)
<i>ubc-9(RNAi); cuEx553</i>	75 (48)

^a L4 animals raised at 16°C were shifted to 25°C, and defects were scored in the F1 progeny.

^b Progeny segregating from *tbx-2(ok529)/dpy-17(e164) unc-32(e189)* hermaphrodites were scored. Twenty-five percent of these progeny are expected to be *tbx-2(ok529)* homozygotes.

Figure 1:

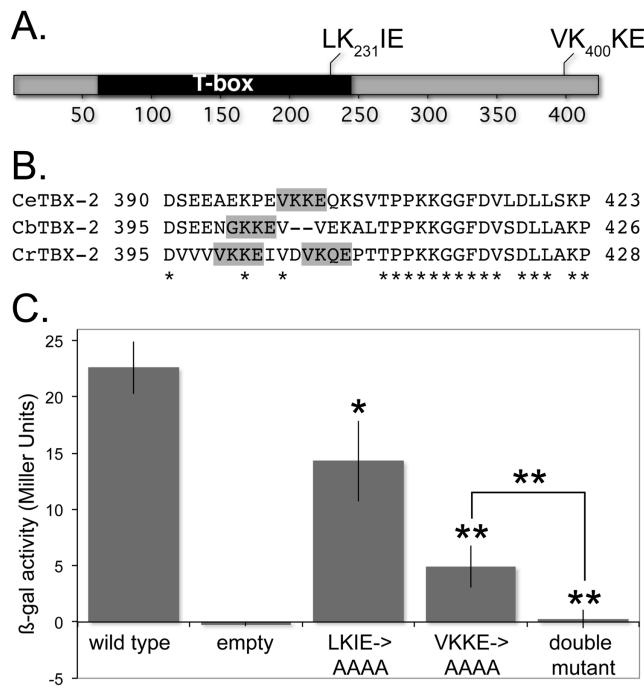


Figure 2:

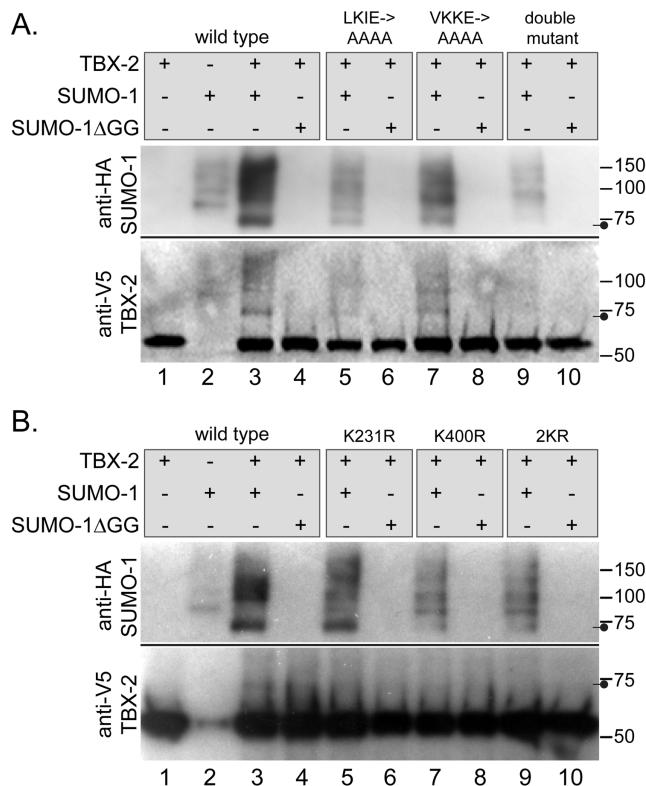


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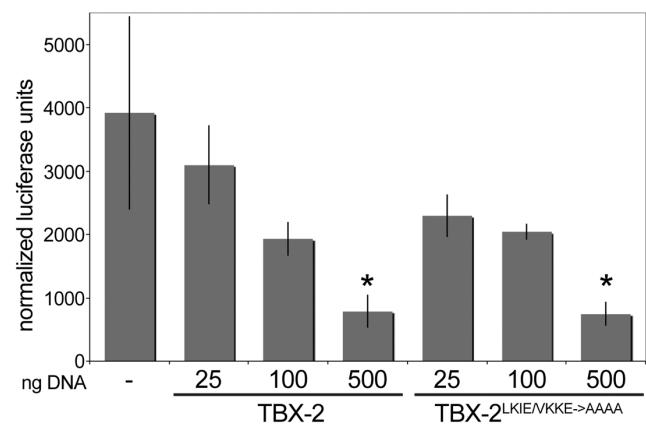
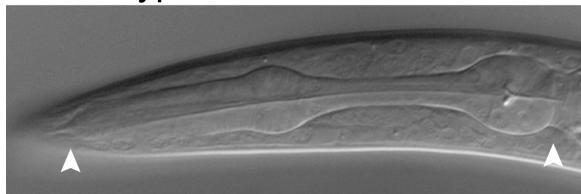
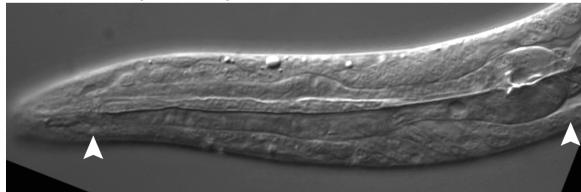


Figure 4:

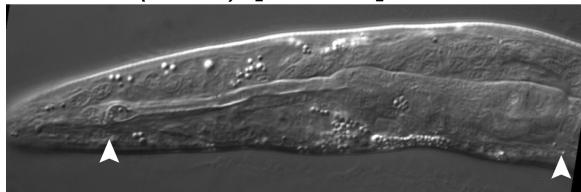
A. wild type



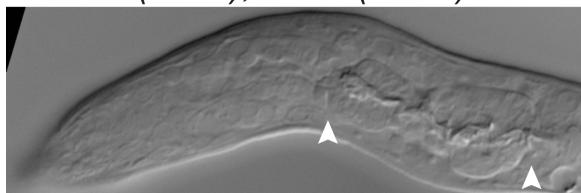
B. *tbx-2(bx59)* [mild]



C. *tbx-2(bx59)* [severe]



D. *tbx-2(bx59); ubc-9(RNAi)*



E. *tbx-2(bx59); smo-1(RNAi)*

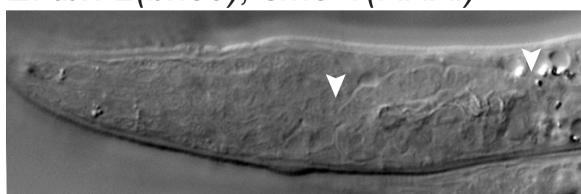


Figure 5:

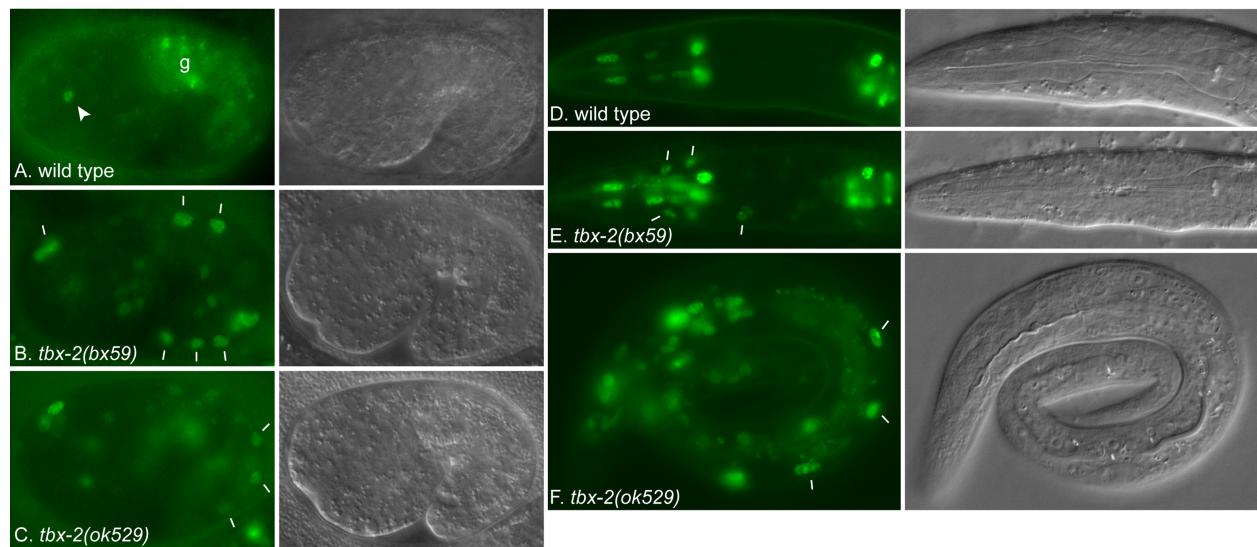


Figure 6:

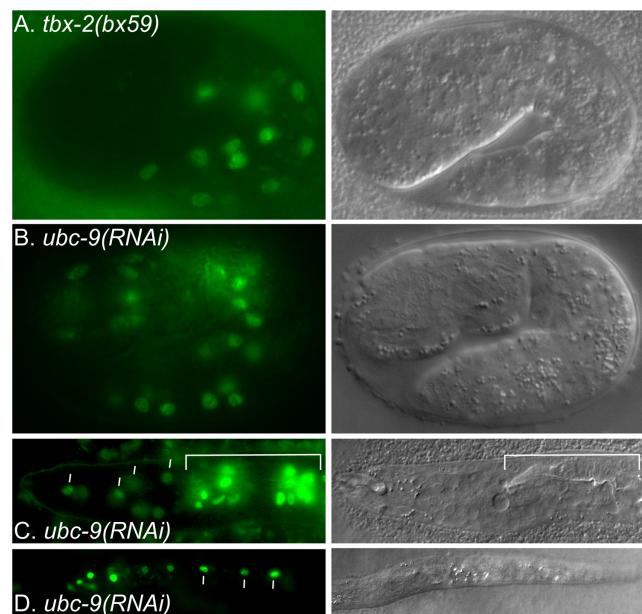
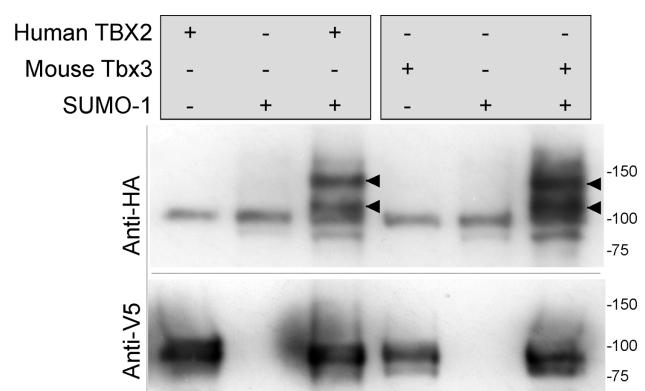
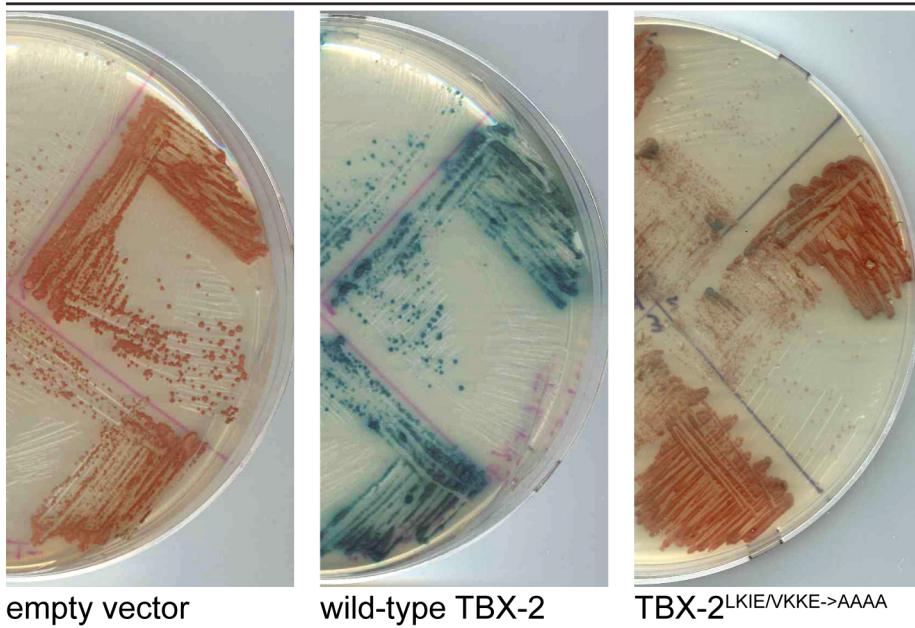


Figure 7:

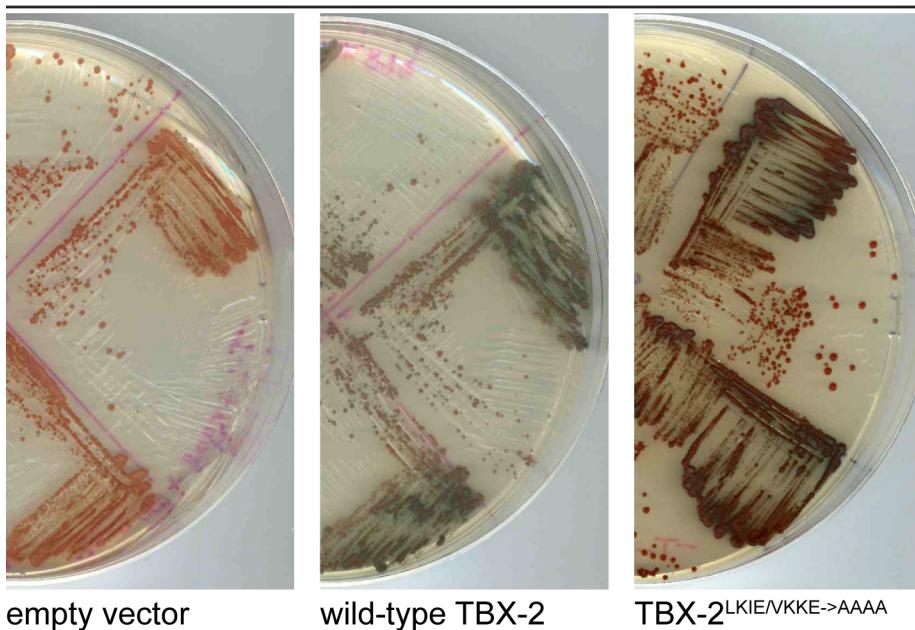


Supplementary Figure 1:

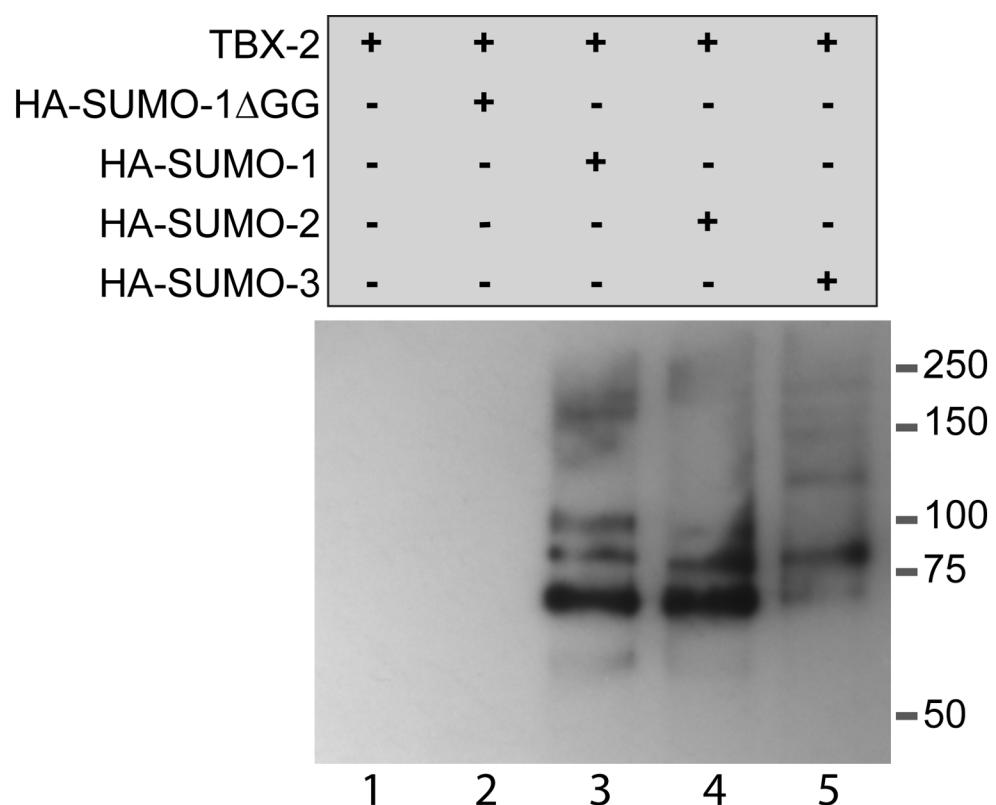
UBC-9 interaction with TBX-2 bait



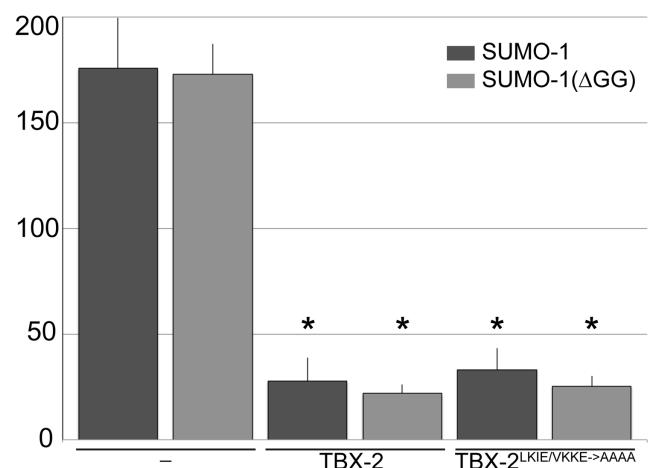
UNC-37 interaction with TBX-2 bait



Supplementary Figure 2:



Supplementary Figure 3:



Supplementary Figure 1: Yeast two-hybrid interaction of TBX-2 with UBC-9 or UNC-37

Yeast cells transformed with the indicated TBX-2 bait plasmid a UBC-9 bait plasmid (top) or an UNC-37 bait plasmid (bottom). Cells are streaked on plates containing X-gal to detect interaction as a blue color and lacking Trp and Leu to select for cells containing both plasmids [1]. The interaction between wild-type UNC-37 and TBX-2 produces colonies lightly stained with X-gal, and this staining remains detectable with the TBX-2^{LKIE/VKKE->AAAA} mutant.

Supplementary Figure 2: *C. elegans* TBX-2 conjugation to SUMO-1, SUMO-2 and SUMO-3

Western blots of Ni-NTA pulled-down TBX-2/V5/HIS probed with anti-HA to detect SUMO-1 (lane 3), SUMO-2 (lane 4), or SUMO-3 (lane 5) conjugated TBX-2 protein. Combinations of proteins (grey box) were expressed in COS-1 cells. The positions of MW markers are indicated (kDa).

Supplementary Figure 3: Co-transfection with SUMO-1 or SUMO-1(Δ GG) does not affect TBX-2 repressor activity

Relative luciferase activity in experiments co-transfected 500 ng wild-type or mutant TBX-2:GAL4 and the 5xGAL4:tk:luc reporter with either wild-type SUMO-1 or the non-conjugable SUMO-1(Δ GG). Data shown is the average of three assays and is representative of multiple independent experiments. Error bars indicate standard deviation. Statistically significant differences from control transfections are marked (*) ($p<0.005$).

1. Roy Chowdhuri S, Crum T, Woppard A, Aslam S, Okkema PG (2006) The T-box factor TBX-2 and the SUMO conjugating enzyme UBC-9 are required for ABA-derived pharyngeal muscle in *C. elegans*. Dev Biol 295 (2):664-677

Supplementary Table 1: Potential SUMOylation sites predicted by SUMOplot, SUMOhydro and SUMOsp 2.0

Rank	Position	Group	SUMOplot Score
1	K400	AEKPE V<u>K</u>E QKSVT	0.93 ^a
2	K231	EKVTE L<u>K</u>I<u>E</u> NNPFA	0.91 ^a
3	K133	RWMIA G<u>K</u>A<u>D</u> PEMPK	0.67
4	K248	RDAGA G<u>K</u>R<u>E</u> KKRQL	0.67
5	K62	GVTDD P<u>K</u>V<u>E</u> LDERE	0.61 ^a
6	K396	DSEEA E<u>K</u>P<u>E</u> VKKEQ	0.50
7	K239	ENNPF A<u>K</u>G<u>F</u> RDAGA	0.44
8	K410	KSVTP P<u>K</u>K<u>G</u> GFDVL	0.43
9	K174	TNNIS D<u>K</u>H<u>G</u> YTILN	0.33
10	K411	SVTPP K<u>K</u>G<u>G</u> FDVLD	0.31

The TBX-2 protein sequence (Accession CCD69847) was analyzed for matches to the SUMO consensus site Ψ KX(D/E) using SUMOplot at <http://www.abgent.com/tools/>. The top-scoring matches VKKE and LKIE were characterized in this study.

^a Also predicted as a potential SUMOylation site by SUMOhydro and SUMOsp 2.0 at high threshold [63,64].

Supplementary Table 2: Protein coding genes differentially expressed in *tbx-2/bx59* embryos

Genes with decreased expression in *tbx-2/bx59* are indicated with gray background. oligo_set = Affymetrix probe ID; logFC = base 2 log of (expression in *tbx-2/bx59*)/expression in N2); BH adjusted pvalue = Benjamini-Hochberg False Discovery Rate (FDR) adjusted p values

oligo_set	Gene WB ID	Sequence Name (Gene)	Gene Public Name	Transcript Type	logFC	raw pvalue	BH adjusted pvalue
172323_x_at	WBGene00000029	C03A7.7	abu-6	coding	0.886294825	0.001997779	0.032095402
172321_x_at	WBGene00000030	C03A7.8	abu-7	coding	0.908287971	0.002239074	0.034269337
172587_x_at	WBGene00000031	C03A7.14	abu-8	coding	1.00579057	0.001854265	0.030892922
194211_x_at	WBGene00000031	C03A7.14	abu-8	coding	1.082365789	0.001647506	0.02942279
179983_at	WBGene00000033	F35A5.3	abu-10	coding	1.661994315	0.000210652	0.010815824
175809_at	WBGene00000103	F28H6.1	akt-2	coding	0.650359699	0.001313264	0.026076591
177915_at	WBGene00000105	F48F7.1	alg-1	coding	-0.54742937	0.003017361	0.039980697
179952_at	WBGene00000106	T07D3.7	alg-2	coding	-0.619931064	0.002626292	0.037070259
190301_s_at	WBGene00000136	C05E11.5	amt-4	coding	0.487850171	0.003035811	0.040050511
187508_at	WBGene00000143	K06H7.6	apc-2	coding	-0.556319854	0.003126362	0.040670852
174352_s_at	WBGene00000218	F21F8.3	asp-5	coding	1.053596185	0.001968839	0.031859505
190096_at	WBGene00000218	F21F8.3	asp-5	coding	1.022191738	0.00237121	0.034935912
173036_s_at	WBGene00000219	F21F8.7	asp-6	coding	1.364191463	0.001615815	0.029174403
173989_s_at	WBGene00000219	F21F8.7	asp-6	coding	1.456268435	0.001195838	0.024930514
178504_at	WBGene00000231	D2045.1	atx-2	coding	-0.693583175	0.002173662	0.033743933
180489_at	WBGene00000273	Y79H2A.1	brp-1	coding	1.231579912	0.001628039	0.029246964
173438_at	WBGene00000277	C23H4.1	cab-1	coding	0.9616357	0.000665035	0.018872024
186773_s_at	WBGene00000277	C23H4.1	cab-1	coding	1.128485627	0.00052924	0.017041082
189628_at	WBGene00000282	R01E6.3	cah-4	coding	2.203738172	0.000253265	0.011879992
188689_at	WBGene00000288	T07G12.1	cal-4	coding	0.920132832	0.003345403	0.042054126
191123_s_at	WBGene00000366	R10E11.1	cbp-1	coding	-1.041069116	0.000165375	0.009409363
189344_s_at	WBGene00000373	F08F3.7	cyp-14A5	coding	1.813297937	0.003336042	0.042005942
187198_s_at	WBGene00000413	Y54E10A.15	cdt-1	coding	-0.630861626	0.003351144	0.042091475
188420_at	WBGene00000425	ZK512.3	ced-11	coding	-0.678767658	0.003680506	0.043977632
175312_at	WBGene00000510	C52B9.1	cka-2	coding	0.486639625	0.004203503	0.047112712
189097_at	WBGene00000510	C52B9.1	cka-2	coding	0.644271478	0.001182652	0.024825881
184002_at	WBGene00000522	C09F12.1	clc-1	coding	2.366642649	1.3558E-05	0.003806289
184003_s_at	WBGene00000522	C09F12.1	clc-1	coding	2.322505361	1.51901E-05	0.003837263
175730_at	WBGene00000523	C01C10.1	clc-2	coding	0.576839842	0.002464909	0.035711803
181065_at	WBGene00000524	ZK563.4	clc-3	coding	0.778244543	0.001165149	0.024619119
191302_at	WBGene00000527	C36B1.1	cle-1	coding	-0.58570074	0.003044922	0.040050511
189734_at	WBGene00000535	K08B4.6	cpi-1	coding	4.083945122	2.37468E-05	0.0044556
187153_s_at	WBGene00000545	Y39A3CL.5	clp-4	coding	1.92555333	0.00010742	0.007555091
192394_s_at	WBGene00000553	K07A9.2	cmk-1	coding	-0.550430169	0.00395736	0.045706421
172437_x_at	WBGene00000556	R09B5.3	cnc-2	coding	1.470148703	0.000319907	0.013320407
172405_x_at	WBGene00000557	R09B5.8	cnc-3	coding	0.713641544	0.002196218	0.033920855
184191_at	WBGene00000558	R09B5.9	cnc-4	coding	3.876075126	0.000155002	0.009107466
177156_at	WBGene00000560	Y46E12A.1	cnc-6	coding	2.17175509	4.76181E-06	0.002894802
189136_at	WBGene00000584	R03C1.3	cog-1	coding	-0.585313285	0.001428804	0.027348818
172879_x_at	WBGene00000601	F15H10.1	col-12	coding	0.931630798	0.00064207	0.018658086
194205_x_at	WBGene00000601	F15H10.1	col-12	coding	1.394605717	0.000298718	0.012971205
172878_x_at	WBGene00000602	F15H10.2	col-13	coding	1.108489775	0.000253245	0.011879992
192026_at	WBGene00000603	C46A5.3	col-14	coding	1.295900148	0.000453858	0.015893397
172902_x_at	WBGene00000611	F36A4.10	col-34	coding	0.656632683	0.003697704	0.044145884
190584_at	WBGene00000616	C09G5.4	col-39	coding	1.017233861	0.000420362	0.015357364
188747_at	WBGene00000625	Y54E10BL.2	col-48	coding	1.479764145	0.000332699	0.013519827
188589_at	WBGene00000631	F33D11.3	col-54	coding	0.656220044	0.001463266	0.027798403
189600_at	WBGene00000664	F17C8.2	col-89	coding	0.651142383	0.003303619	0.04184078
174960_at	WBGene00000672	ZK1010.7	col-97	coding	1.060446019	0.000276845	0.012448216
188473_s_at	WBGene00000672	ZK1010.7	col-97	coding	1.490008719	0.000547328	0.017190056
188356_at	WBGene00000673	F14F7.1	col-98	coding	1.506867781	4.76326E-05	0.005325197
181870_at	WBGene00000677	F56B3.1	col-103	coding	1.503807695	0.000414908	0.015305255

173235_at	WBGene00000683	Y38C1BA.3	col-109	coding	0.996534169	0.002940624	0.039480211
188659_at	WBGene00000683	Y38C1BA.3	col-109	coding	0.966274927	0.002503348	0.036028291
173518_s_at	WBGene00000687	C34D4.15	col-113	coding	2.398856557	1.54016E-05	0.003837263
189387_at	WBGene00000692	T11B7.3	col-118	coding	0.813875649	0.001676781	0.029686919
172475_x_at	WBGene00000718	B0222.7	col-145	coding	0.68888297	0.004043414	0.046308821
171735_x_at	WBGene00000720	T06E4.4	col-147	coding	0.587352986	0.001965189	0.031849244
188389_at	WBGene00000723	B0024.2	col-150	coding	1.234417287	0.000725718	0.019730708
172705_x_at	WBGene00000732	F57B1.3	col-159	coding	1.553254489	0.000112885	0.007828057
172703_x_at	WBGene00000733	F57B1.4	col-160	coding	0.872628494	0.002170275	0.033725808
172746_x_at	WBGene00000739	T07H6.3	col-166	coding	0.722852751	0.002353699	0.034763381
172735_x_at	WBGene00000741	T10E10.1	col-168	coding	0.78060764	0.004334132	0.047905556
184319_at	WBGene00000780	F49D11.8	cpn-4	coding	1.555253741	0.000498763	0.016580554
172069_x_at	WBGene00000783	T10H4.12	cpr-3	coding	1.893609771	0.000640667	0.018652986
172793_x_at	WBGene00000783	T10H4.12	cpr-3	coding	2.395740668	0.000104786	0.007462377
193958_at	WBGene00000784	F44C4.3	cpr-4	coding	2.391552392	0.000105015	0.007462377
180122_at	WBGene00000786	C25B8.3	cpr-6	coding	0.632135249	0.001492103	0.028100357
189738_at	WBGene00000822	F40E10.3	csq-1	coding	0.923482099	0.000562552	0.017412754
187906_at	WBGene00000902	F31F6.5	daf-6	coding	0.660409884	0.003982894	0.045822874
188215_at	WBGene00000913	T07A9.6	daf-18	coding	-0.840840731	0.000956681	0.022213328
190298_s_at	WBGene00000977	R05D8.8	dhs-14	coding	1.823552025	0.000243151	0.011680425
181269_at	WBGene00001087	Y39A1B.3	dpy-28	coding	-0.512952168	0.004162552	0.046845442
177972_at	WBGene00001118	ZK520.3	dyf-2	coding	-0.711909209	0.004501048	0.048792389
175628_at	WBGene00001135	ZK512.6	eat-4	coding	1.015000131	0.000394784	0.014888144
192325_s_at	WBGene00001135	ZK512.6	eat-4	coding	0.531478055	0.004675373	0.049522313
191657_s_at	WBGene00001148	H30A04.1	eat-20	coding	-0.628849417	0.001512641	0.028353017
174823_at	WBGene00001149	K02A4.1	bcat-1	coding	1.00130218	0.001161842	0.024619119
175618_s_at	WBGene00001149	K02A4.1	bcat-1	coding	0.853768237	0.002933957	0.03942553
173279_s_at	WBGene00001150	C29F3.1	ech-1	coding	0.571151698	0.001723818	0.029950706
176955_at	WBGene00001156	Y105E8A.4	ech-7	coding	0.610446631	0.00172997	0.029950706
183053_at	WBGene00001175	C46F4.1	egl-6	coding	0.468836595	0.004607171	0.049309712
190244_s_at	WBGene00001189	F01D4.4	egl-21	coding	0.903498276	0.00320291	0.04124512
191276_s_at	WBGene00001243	F41H10.7	elo-5	coding	1.450550359	0.001000815	0.022533904
175322_at	WBGene00001345	F29G9.4	fos-1	coding	0.90167662	0.000539629	0.017101994
191088_at	WBGene00001345	F29G9.4	fos-1	coding	0.782784123	0.000665575	0.018872024
193272_s_at	WBGene00001387	F15B9.1	far-3	coding	2.457064994	1.51657E-05	0.003837263
189680_at	WBGene00001389	F15B9.3	far-5	coding	0.516576559	0.002620392	0.037046245
192186_at	WBGene00001394	W02A2.1	fat-2	coding	1.536673244	0.000314552	0.013276952
187910_at	WBGene00001395	W08D2.4	fat-3	coding	0.910698382	0.001734955	0.029963459
192357_at	WBGene00001397	W06D12.3	fat-5	coding	1.451134391	0.00133487	0.026353249
187997_s_at	WBGene00001398	VZK822L.1	fat-6	coding	1.690191454	0.00013735	0.008520185
193950_s_at	WBGene00001433	Y18D10A.25	fkb-8	coding	0.657711543	0.000975548	0.022273976
187411_at	WBGene00001437	F26A1.2	fkh-5	coding	-0.615400254	0.002264635	0.034417927
171982_x_at	WBGene00001444	F23B2.5	flp-1	coding	1.246666826	0.002966919	0.03963363
193561_at	WBGene00001444	F23B2.5	flp-1	coding	1.293125628	0.000801456	0.020575518
193562_s_at	WBGene00001444	F23B2.5	flp-1	coding	1.486198189	0.000948207	0.022213328
175777_at	WBGene00001445	W07E11.3	flp-2	coding	1.269227665	0.001008833	0.022615381
175778_s_at	WBGene00001445	W07E11.3	flp-2	coding	1.098961403	0.000282392	0.012586174
193247_at	WBGene00001446	W07E11.2	flp-3	coding	2.314273075	7.45542E-05	0.006330023
180535_at	WBGene00001448	C03G5.7	flp-5	coding	1.570889751	0.000261283	0.012143665
188180_at	WBGene00001450	F49E10.3	flp-7	coding	1.14471095	0.001291935	0.025907819
175166_at	WBGene00001451	F31F6.4	flp-8	coding	2.124934288	9.04232E-05	0.007085503
187903_at	WBGene00001451	F31F6.4	flp-8	coding	1.08054319	0.001984148	0.031977816
173466_s_at	WBGene00001452	C36H8.3	flp-9	coding	1.294275117	0.000677617	0.018941669
175770_s_at	WBGene00001454	K02G10.4	flp-11	coding	1.505719046	4.91254E-05	0.005449691
188353_s_at	WBGene00001455	C05E11.8	flp-12	coding	1.677178046	0.000136479	0.008520185
171849_x_at	WBGene00001458	ZK525.1	flp-15	coding	0.908290556	0.001591946	0.029005195
172214_x_at	WBGene00001458	ZK525.1	flp-15	coding	0.965185803	0.000540134	0.017101994
175390_at	WBGene00001459	F15D4.8	flp-16	coding	1.74055289	0.000565131	0.017430985
185166_s_at	WBGene00001461	Y48D7A.2	flp-18	coding	0.722114604	0.001572859	0.0288964

174202_at	WBGene00001462	M79.4	fip-19	coding	1.408111817	9.2643E-05	0.007085503
177082_at	WBGene00001462	M79.4	fip-19	coding	1.209662312	0.000139647	0.008557912
172588_x_at	WBGene00001464	C26F1.10	fip-21	coding	0.79312892	0.000443396	0.015725903
194135_at	WBGene00001478	Y39A1A.19	fmo-3	coding	2.558701523	4.09906E-06	0.002831702
175245_at	WBGene00001479	F53F4.5	fmo-4	coding	0.787260042	0.002262976	0.034417927
191646_at	WBGene00001479	F53F4.5	fmo-4	coding	0.68419862	0.003445782	0.042541837
190427_s_at	WBGene00001500	C54F6.14	ftn-1	coding	1.582435439	0.0033906	0.042372052
184496_s_at	WBGene00001561	W07B3.2	gei-4	coding	-0.469157917	0.004675766	0.049522313
175876_at	WBGene00001565	C14B9.6	gei-8	coding	-1.028526596	0.001373791	0.026785817
193732_at	WBGene00001592	F25F8.2	glc-2	coding	1.023989557	0.000216183	0.010883492
182167_at	WBGene00001596	ZC308.1	gld-2	coding	-0.660652668	0.001037391	0.022826361
182181_at	WBGene00001596	ZC308.1	gld-2	coding	-0.561736772	0.002436803	0.035507702
188994_at	WBGene00001599	C55B7.1	glh-2	coding	-0.81898183	0.003545237	0.043132694
171892_x_at	WBGene00001602	C45B2.5	gln-1	coding	0.985465758	0.000353641	0.013960086
188648_at	WBGene00001602	C45B2.5	gln-1	coding	1.031623512	0.000241544	0.011653912
191458_s_at	WBGene00001609	F02A9.6	glp-1	coding	-0.836432409	0.001916647	0.031482039
175715_s_at	WBGene00001620	C12D12.2	glt-1	coding	1.617380166	0.000942102	0.022129941
193668_s_at	WBGene00001620	C12D12.2	glt-1	coding	1.175636153	0.000659436	0.018872024
193497_at	WBGene00001671	F56H9.4	gpa-9	coding	0.674044864	0.001026244	0.022802416
173608_s_at	WBGene00001685	K10B3.7	gpd-3	coding	0.562309589	0.003222006	0.041358147
185646_at	WBGene00001703	T01B10.2	grd-14	coding	0.840059148	0.004570244	0.049122039
182143_s_at	WBGene00001713	F42C5.7	grl-4	coding	3.317833211	6.04932E-05	0.005811796
183124_at	WBGene00001715	K10C2.5	grl-6	coding	1.103666606	0.000561132	0.017412754
185468_at	WBGene00001724	Y75B8A.20	grl-15	coding	0.693106119	0.002100001	0.033073376
178129_at	WBGene00001730	ZC168.5	grl-21	coding	5.061679636	2.3716E-05	0.0044556
192533_at	WBGene00001751	K08F4.11	gst-3	coding	0.566824958	0.003404075	0.042372052
187085_s_at	WBGene00001758	Y45G12C.2	gst-10	coding	1.114512697	0.000367959	0.014417237
190899_at	WBGene00001770	F21H7.1	gst-22	coding	1.455681865	0.004277183	0.047507993
190975_at	WBGene00001772	F37B1.1	gst-24	coding	2.201192123	5.43517E-05	0.005673909
191431_at	WBGene00001774	Y53F4B.29	gst-26	coding	0.68282784	0.00139869	0.027011086
191393_s_at	WBGene00001775	Y53F4B.30	gst-27	coding	1.068358222	0.000368067	0.014417237
191221_at	WBGene00001784	R07B1.4	gst-36	coding	0.872484067	0.001314296	0.026076591
191382_at	WBGene00001786	F35E8.8	gst-38	coding	1.139808995	0.000537043	0.017101994
191337_at	WBGene00001787	Y53F4B.33	gst-39	coding	0.739705813	0.001683917	0.029758332
191424_s_at	WBGene00001812	F43E2.4	haf-2	coding	0.646592897	0.004525855	0.048941861
186389_at	WBGene00001829	ZK1055.1	hcp-1	coding	-0.622845234	0.001601517	0.029010553
177122_at	WBGene00001833	Y110A7A.1	hcp-6	coding	-0.604989351	0.003592654	0.043356356
191422_at	WBGene00001842	ZK287.8	her-1	coding	2.060340948	1.84043E-05	0.004092051
172046_x_at	WBGene00001843	W06D4.1	hgo-1	coding	0.690838389	0.000962546	0.022225177
172960_x_at	WBGene00001843	W06D4.1	hgo-1	coding	0.7086162	0.000838089	0.021116003
188999_s_at	WBGene00001945	F45E1.6	his-71	coding	0.730510771	0.001195274	0.024930514
174449_at	WBGene00001955	F58A4.7	hlh-11	coding	0.59032488	0.003406772	0.042372052
192781_s_at	WBGene00001955	F58A4.7	hlh-11	coding	0.53733463	0.003900198	0.045456454
182141_at	WBGene00001959	C43H6.8	hlh-15	coding	0.710009228	0.001522308	0.028457604
193484_s_at	WBGene00001973	C32F10.5	hmg-3	coding	-0.635326234	0.003167263	0.041036706
188404_at	WBGene00001984	W06B11.4	hog-1	coding	0.661403093	0.001765716	0.030254059
193009_at	WBGene00001993	T21C12.2	hpdi-1	coding	1.040457317	0.001038531	0.022826361
192235_at	WBGene00001994	F20B6.8	hpk-1	coding	-0.446785398	0.004689684	0.049538018
177517_at	WBGene00002000	F58D5.1	hrp-2	coding	-0.524009713	0.004104183	0.046375741
192338_at	WBGene00002012	F38E11.1	hsp-12.3	coding	2.744066279	4.17535E-05	0.005058446
189735_at	WBGene00002021	F52E1.7	hsp-17	coding	1.646385517	0.000128123	0.008321418
190097_s_at	WBGene00002024	C14F11.5	hsp-43	coding	0.73588383	0.000851645	0.02120412
175619_s_at	WBGene00002025	Y22D7AL.5	hsp-60	coding	-0.449919374	0.004533375	0.048941861
176345_s_at	WBGene00002025	Y22D7AL.5	hsp-60	coding	-0.563612911	0.001855064	0.030892922
192035_s_at	WBGene00002027	T05F1.6	hsr-9	coding	-0.623716154	0.001433637	0.02736716
193214_s_at	WBGene00002052	K05B2.3	ifa-4	coding	0.662274704	0.000996645	0.022483195
193213_at	WBGene00002055	F37B4.2	ifc-1	coding	1.347485756	0.002971407	0.03963363
188314_at	WBGene00002087	ZK75.1	ins-4	coding	2.285707538	0.000309688	0.013258167
173224_s_at	WBGene00002094	C17C3.4	ins-11	coding	0.975527012	0.000333797	0.013519827

193494_at	WBGene00002101	T28B8.2	ins-18	coding	0.862273675	0.001777227	0.030314586
178776_at	WBGene00002113	ZC334.2	ins-30	coding	0.754399426	0.001591638	0.029005195
183562_s_at	WBGene00002129	K02B2.4	inx-7	coding	-1.691236164	4.33925E-05	0.005072922
193733_at	WBGene00002151	K04G11.5	irk-3	coding	0.735656197	0.001552195	0.028768611
187328_s_at	WBGene00002169	F37A4.8	isw-1	coding	-0.464941562	0.003679293	0.043977632
192377_at	WBGene00002192	C10C6.1	kin-4	coding	-0.52369401	0.00235935	0.034813006
188130_s_at	WBGene00002221	C33H5.4	klp-10	coding	-0.550749275	0.004275775	0.047507993
190197_s_at	WBGene00002228	C06G3.2	klp-18	coding	-0.614666938	0.002058441	0.032764689
173782_at	WBGene00002234	M60.5	kqt-2	coding	0.94906124	0.002145933	0.033594844
191010_s_at	WBGene00002234	M60.5	kqt-2	coding	0.728649063	0.000867389	0.021373866
176953_at	WBGene00002243	Y54G2A.25	lad-2	coding	-0.532485855	0.004239238	0.047303925
192988_at	WBGene00002258	W02D3.5	lbp-6	coding	0.783980508	0.002694294	0.037774803
174552_s_at	WBGene00002263	K08H10.1	lea-1	coding	0.704810915	0.004613281	0.049318157
192831_s_at	WBGene00002267	C44F1.3	lec-4	coding	1.511312293	4.27431E-05	0.005058446
187047_at	WBGene00002269	Y55B1AR.1	lec-6	coding	2.548148548	2.78567E-05	0.004866282
191786_at	WBGene00002270	R07B1.2	lec-7	coding	2.015568787	5.92006E-05	0.005804522
175710_s_at	WBGene00002271	R07B1.10	lec-8	coding	0.997079496	0.000836784	0.021116003
192336_at	WBGene00002272	C16H3.2	lec-9	coding	0.941864552	0.003099855	0.040411779
190281_at	WBGene00002273	W01A11.4	lec-10	coding	0.892994759	0.004718862	0.049619252
175705_s_at	WBGene00002274	F38A5.3	lec-11	coding	1.492846175	0.00043855	0.015719531
189224_s_at	WBGene00002276	F42H11.2	lem-3	coding	-0.540567215	0.002537896	0.036319158
183957_s_at	WBGene00002845	F57B9.2	let-711	coding	-0.59468574	0.003100417	0.040411779
171732_x_at	WBGene00002998	ZK637.7	lin-9	coding	-0.447228779	0.004724859	0.049625713
189214_s_at	WBGene00003002	C03B8.4	lin-13	coding	-0.520495498	0.003374646	0.042351664
176610_s_at	WBGene00003021	F44B9.6	lin-36	coding	-0.595081475	0.002070294	0.032843766
187318_at	WBGene00003055	F48E8.1	lon-1	coding	2.60427751	8.72747E-06	0.003490527
173689_s_at	WBGene00003062	K09H9.6	lpd-6	coding	-0.546401236	0.0032373	0.041414554
180736_s_at	WBGene00003085	Y37A1B.1	lst-3	coding	-0.503431111	0.002716326	0.037943681
192071_at	WBGene00003087	F49H12.1	lsy-2	coding	-0.483172175	0.004482665	0.048737685
182989_at	WBGene00003090	Y22F5A.4	lys-1	coding	1.929705886	9.93347E-05	0.007227671
182428_s_at	WBGene00003092	Y22F5A.6	lys-3	coding	2.97988212	0.000117573	0.007977151
185557_s_at	WBGene00003096	C02A12.4	lys-7	coding	1.082080549	0.00088566	0.021477022
184497_at	WBGene00003097	C17G10.5	lys-8	coding	1.342982011	0.000501417	0.016591418
175687_at	WBGene00003124	K10B3.9	mai-1	coding	0.684817518	0.004407414	0.048312953
176600_s_at	WBGene00003124	K10B3.9	mai-1	coding	0.667787176	0.002007274	0.032179903
179516_at	WBGene00003133	W10C6.1	mat-2	coding	-0.558209479	0.004539398	0.048941861
191321_s_at	WBGene00003154	Y17G7B.5	mcm-2	coding	-0.521425215	0.00456096	0.049056946
193723_s_at	WBGene00003163	R03E9.1	mdl-1	coding	0.682150756	0.003621333	0.043610955
175711_at	WBGene00003169	E03G2.3	mec-5	coding	0.58176577	0.003547563	0.043132694
184596_s_at	WBGene00003178	F57H12.7	mec-17	coding	1.104803455	0.001316771	0.026091641
174048_at	WBGene00003185	K08A8.1	mek-1	coding	0.597315322	0.001637734	0.029351754
176626_at	WBGene00003369	C36E6.3	mlc-1	coding	0.538342735	0.003800884	0.044814461
176627_s_at	WBGene00003369	C36E6.3	mlc-1	coding	0.533537966	0.004083852	0.046375741
171856_x_at	WBGene00003370	C36E6.5	mlc-2	coding	0.463805767	0.0047597	0.049878171
188483_s_at	WBGene00003371	F09F7.2	mlc-3	coding	0.570964127	0.004663845	0.049522313
192696_s_at	WBGene00003405	ZC302.1	mre-11	coding	-0.520572891	0.004720979	0.049619252
172744_at	WBGene00003473	K11G9.6	mtl-1	coding	2.542649203	0.000185694	0.010079186
193108_s_at	WBGene00003485	W10G6.3	mua-6	coding	1.002982843	0.000565435	0.017430985
192645_at	WBGene00003511	F46G10.6	mxl-3	coding	1.228508382	0.002586127	0.036629963
186131_at	WBGene00003530	K11G12.1	nas-11	coding	2.160304763	0.000528002	0.017041082
188723_at	WBGene00003548	Y95B8A.1	nas-30	coding	0.900424606	0.001646506	0.02942279
185984_at	WBGene00003554	F57C12.1	nas-38	coding	2.004523762	0.001166322	0.024619119
176869_s_at	WBGene00003559	ZK112.2	ncl-1	coding	-0.873118554	0.000672081	0.018880387
187969_s_at	WBGene00003561	F02E8.6	ncr-1	coding	0.566872316	0.002335737	0.034763381
186000_at	WBGene00003585	Y87G2A.14	ndx-8	coding	-0.567356701	0.001686864	0.02977579
173222_s_at	WBGene00003588	ZC155.1	nex-1	coding	1.218119961	0.000171477	0.009616621
188026_at	WBGene00003588	ZC155.1	nex-1	coding	0.990159136	0.000508287	0.016756927
174386_at	WBGene00003589	T07C4.9	nex-2	coding	0.621706774	0.001855852	0.030892922
189585_s_at	WBGene00003589	T07C4.9	nex-2	coding	0.649931407	0.000914872	0.021880596

175726_s_at	WBGene00003602	H01A20.1	nhr-3	coding	0.731774498	0.000681729	0.018941669
193679_s_at	WBGene00003602	H01A20.1	nhr-3	coding	0.788078049	0.000571399	0.0175083
192920_s_at	WBGene00003606	F54D1.4	nhr-7	coding	0.640953692	0.004495113	0.048792389
174023_at	WBGene00003610	ZC410.1	nhr-11	coding	1.720431444	0.000114044	0.007828057
192634_at	WBGene00003610	ZC410.1	nhr-11	coding	1.683309307	0.000160569	0.009244951
192541_s_at	WBGene00003625	C26B2.3	nhr-31	coding	0.637859569	0.001702859	0.029796251
192603_at	WBGene00003632	C33G8.6	nhr-42	coding	0.560482183	0.003537246	0.043110718
172035_x_at	WBGene00003640	C06C6.5	nhr-50	coding	1.266801512	0.000772158	0.020201655
193510_s_at	WBGene00003640	C06C6.5	nhr-50	coding	1.252964815	0.001461372	0.027797153
192136_at	WBGene00003645	T01G6.7	nhr-55	coding	0.52786652	0.002372277	0.034935912
193566_at	WBGene00003653	C06C6.4	nhr-63	coding	1.295455625	0.001730061	0.029950706
189961_at	WBGene00003680	ZK488.2	nhr-90	coding	0.673789425	0.002823912	0.038782239
175182_at	WBGene00003687	H27C11.1	nhr-97	coding	0.567793958	0.002095995	0.033073376
194122_at	WBGene00003687	H27C11.1	nhr-97	coding	0.673929579	0.001220956	0.025288928
173975_s_at	WBGene00003692	T06C12.6	nhr-102	coding	0.560190615	0.002752427	0.038202703
189902_at	WBGene00003695	C06G3.1	nhr-105	coding	0.464806814	0.00468404	0.049538018
190287_at	WBGene00003707	F16B4.12	nhr-117	coding	1.170536719	0.00297744	0.039659184
190001_at	WBGene00003720	T01G6.8	nhr-130	coding	0.515544996	0.003569439	0.043260233
190842_at	WBGene00003724	F44C8.2	nhr-134	coding	0.597996981	0.003205059	0.04124512
194102_at	WBGene00003726	C13C4.3	nhr-136	coding	0.644668764	0.004614605	0.049318157
193825_at	WBGene00003739	C01C4.1	nlp-1	coding	1.511865255	9.95602E-05	0.007227671
180116_at	WBGene00003741	F48C11.3	nlp-3	coding	0.983935091	0.00079006	0.020420636
180758_at	WBGene00003744	T23E7.4	nlp-6	coding	1.195188012	0.000265184	0.01225006
182967_at	WBGene00003745	F18E9.2	nlp-7	coding	0.980296688	0.003384187	0.042372052
178934_at	WBGene00003746	D2005.2	nlp-8	coding	1.871843873	3.91272E-05	0.004927606
174265_at	WBGene00003747	E03D2.2	nlp-9	coding	0.983163268	0.001761402	0.030248339
187782_s_at	WBGene00003747	E03D2.2	nlp-9	coding	0.787500543	0.000919584	0.021905706
188068_at	WBGene00003748	F37A8.4	nlp-10	coding	0.979690746	0.000418293	0.015355604
173242_s_at	WBGene00003750	M01D7.5	nlp-12	coding	0.633702311	0.003033974	0.040050511
188920_at	WBGene00003751	E03D2.1	nlp-13	coding	0.756479706	0.000492145	0.01653933
180833_s_at	WBGene00003752	D1009.4	nlp-14	coding	1.003958533	0.000978482	0.022295305
177120_s_at	WBGene00003753	CC4.2	nlp-15	coding	0.988447223	0.002562342	0.036497169
186227_at	WBGene00003754	T13A10.5	nlp-16	coding	1.143884632	0.003410946	0.042372052
177686_at	WBGene00003756	F33A8.2	nlp-18	coding	1.43970128	0.000160152	0.009244951
183438_s_at	WBGene00003758	F45E4.8	nlp-20	coding	1.443609823	8.95536E-05	0.007085503
185393_s_at	WBGene00003759	Y47D3B.2	nlp-21	coding	0.89944991	0.000985637	0.02232445
182357_at	WBGene00003764	Y43F8C.2	nlp-26	coding	2.599337736	4.24875E-05	0.005058446
172388_x_at	WBGene00003765	B0213.2	nlp-27	coding	2.129436841	6.69631E-06	0.003059368
172427_x_at	WBGene00003766	B0213.3	nlp-28	coding	1.375983902	0.000118698	0.007982145
172375_x_at	WBGene00003767	B0213.4	nlp-29	coding	3.733909418	7.53031E-05	0.006356313
172386_x_at	WBGene00003768	B0213.5	nlp-30	coding	1.707647737	1.30324E-05	0.003806289
172343_x_at	WBGene00003769	B0213.6	nlp-31	coding	0.890266306	0.000531667	0.01704258
173252_s_at	WBGene00003771	T19C4.7	nlp-33	coding	1.459514588	0.000414101	0.015305255
182657_s_at	WBGene00003789	K12D12.2	npp-3	coding	-0.484948565	0.003857451	0.045270689
181938_at	WBGene00003793	T19B4.2	npp-7	coding	-0.661883155	0.004322209	0.04785327
176088_at	WBGene00003794	Y41D4B.19	npp-8	coding	-0.730690091	0.000767195	0.020201655
176153_at	WBGene00003794	Y41D4B.19	npp-8	coding	-0.59608484	0.00177463	0.030304294
173670_s_at	WBGene00003800	C03D6.4	npp-14	coding	-0.490811791	0.003415162	0.042372052
181507_at	WBGene00003826	Y56A3A.1	ntl-3	coding	-0.712085868	0.002626969	0.037070259
192732_at	WBGene00003827	C49H3.5	ntl-4	coding	-0.575223243	0.00159796	0.029005195
172063_x_at	WBGene00003837	T01B11.7	oat-1	coding	1.853471718	0.000344482	0.013519827
172866_x_at	WBGene00003837	T01B11.7	oat-1	coding	1.635896436	0.000847519	0.02120412
191435_s_at	WBGene00003837	T01B11.7	oat-1	coding	1.286644665	0.000533772	0.01704258
192924_s_at	WBGene00003844	K11C4.4	odc-1	coding	0.712729269	0.000640475	0.018652986
180340_at	WBGene00003859	C09E7.3	oig-1	coding	0.888706192	0.002059131	0.032764689
183683_at	WBGene00003861	Y50E8A.3	oig-3	coding	0.89188747	0.001215541	0.025271939
174994_at	WBGene00003891	F11C7.5	osm-11	coding	1.56131695	0.000332596	0.013519827
186946_at	WBGene00003905	Y18D10A.13	pad-1	coding	-0.596683692	0.003583266	0.043324164
187895_at	WBGene00003905	Y18D10A.13	pad-1	coding	-0.692853375	0.002515728	0.036069847

181612_at	WBGene00003936	T17H7.4	pat-12	coding	-0.497931289	0.002841299	0.038797897
193178_at	WBGene00003960	F54D5.1	pcs-1	coding	0.725100388	0.000834048	0.021116003
182024_at	WBGene00003990	F35C8.6	pfn-2	coding	0.543493963	0.002291021	0.034657509
191228_at	WBGene00003998	F42E11.1	pgp-4	coding	-0.546133048	0.00297223	0.03963363
193258_at	WBGene00004017	F27E5.4	phg-1	coding	0.964130654	0.000482007	0.016393995
192006_s_at	WBGene00004033	E01H11.1	pkc-2	coding	0.488311899	0.003482112	0.042851128
178234_at	WBGene00004051	F20C5.1	pme-3	coding	-0.614077513	0.00275814	0.038246547
192670_at	WBGene00004083	C05A2.1	pph-1	coding	0.928804938	0.000245605	0.011680425
185423_at	WBGene00004095	F52C9.8	pqe-1	coding	-0.585601868	0.002256059	0.034394828
192333_at	WBGene00004096	F40F8.7	pqm-1	coding	0.580917795	0.002031928	0.032455639
172360_x_at	WBGene00004099	C03A7.4	pqn-5	coding	0.95657001	0.002575191	0.036577338
180294_s_at	WBGene00004110	C37A2.2	pqn-20	coding	-0.977748001	0.000832639	0.021116003
187849_at	WBGene00004131	F55A12.9	pqn-44	coding	1.603078529	0.004349029	0.047985278
185021_at	WBGene00004144	R11G11.7	pqn-60	coding	2.045063689	0.000235326	0.011390064
178666_at	WBGene00004153	T23F1.6	pqn-71	coding	1.58783497	0.000915785	0.021880596
186777_s_at	WBGene00004161	Y111B2A.14	pqn-80	coding	-0.772522399	0.001265376	0.025675455
176485_at	WBGene00004166	Y43H11AL.3	pqn-85	coding	-0.748399321	0.003498568	0.04298402
177254_at	WBGene00004173	ZC15.8	pqn-94	coding	2.606170718	8.23825E-05	0.00673145
175163_at	WBGene00004183	F45H7.4	prk-2	coding	0.910414625	0.001156207	0.024575687
175557_at	WBGene00004192	ZK809.7	prx-2	coding	0.825992731	0.002720391	0.037965563
187935_s_at	WBGene00004222	F44F4.4	ptr-8	coding	3.439998718	2.24252E-05	0.0044556
188133_at	WBGene00004226	K07A3.2	ptr-12	coding	0.632400836	0.003417565	0.042372052
188085_s_at	WBGene00004228	R09H10.4	ptr-14	coding	0.653036798	0.001490109	0.028097621
187026_s_at	WBGene00004249	Y39A3CL.6	pvf-1	coding	0.939396698	0.000749633	0.020016369
194078_s_at	WBGene00004259	D2085.1	pyr-1	coding	-0.69488655	0.000676625	0.018941669
192665_at	WBGene00004286	D2013.1	rab-39	coding	0.622811704	0.003130997	0.040670852
176487_at	WBGene00004314	Y54F10AM.10	rbc-2	coding	-0.48121458	0.003318256	0.041862085
176501_at	WBGene00004314	Y54F10AM.10	rbc-2	coding	-0.574793704	0.003888076	0.045349943
188507_s_at	WBGene00004321	F54E7.7	rcn-1	coding	0.605993702	0.004537234	0.048941861
193785_s_at	WBGene00004337	C54G10.2	rfc-1	coding	-0.63992082	0.00127545	0.025776972
189462_s_at	WBGene00004343	C38C10.5	rgr-1	coding	-0.514947525	0.004585605	0.049217528
175076_s_at	WBGene00004355	T07D4.3	rha-1	coding	-0.656693067	0.002314145	0.034763381
193102_s_at	WBGene00004355	T07D4.3	rha-1	coding	-0.624572784	0.00241122	0.0353262
193165_at	WBGene00004358	F08F3.3	rhr-1	coding	1.677292253	2.95755E-05	0.004923881
193792_s_at	WBGene00004405	C12D8.11	rop-1	coding	0.676268854	0.000957345	0.022213328
188973_at	WBGene00004736	K11D9.2	sca-1	coding	-0.532060413	0.002550481	0.036430646
187985_at	WBGene00004809	F44G3.6	skr-3	coding	0.96261804	0.001254955	0.025670002
188229_s_at	WBGene00004810	Y60A3A.18	skr-4	coding	1.014021364	0.001818625	0.030676421
176599_at	WBGene00004858	R12B2.1	sma-4	coding	0.62686218	0.002447463	0.03558613
191339_at	WBGene00004912	T08A9.3	sng-1	coding	0.510898291	0.003943868	0.045674531
174108_s_at	WBGene00004924	T23H2.2	snt-4	coding	0.660122567	0.002343765	0.034763381
189565_at	WBGene00004924	T23H2.2	snt-4	coding	0.860467511	0.000916231	0.021880596
192617_at	WBGene00004932	C08A9.1	sod-3	coding	0.785917277	0.001997268	0.032095402
191998_at	WBGene00004933	F55H2.1	sod-4	coding	1.591814745	6.88817E-05	0.006140164
177179_at	WBGene00004947	T28F12.3	sos-1	coding	-0.768439252	0.0028376	0.038782239
188388_at	WBGene00004978	Y47G6A.10	spg-7	coding	-0.571625504	0.004250365	0.047393285
185955_at	WBGene00004995	C28C12.7	spp-10	coding	0.88010105	0.000552599	0.017258739
176215_at	WBGene00005077	Y92H12A.1	src-1	coding	-0.773699041	0.00324284	0.041450528
176306_at	WBGene00005077	Y92H12A.1	src-1	coding	-0.660792221	0.001576202	0.0288964
179109_at	WBGene00005129	F15A2.3	srd-51	coding	1.360270242	0.000661809	0.018872024
181323_at	WBGene00005208	Y40H7A.8	srg-51	coding	0.676232172	0.001908192	0.031420053
192994_s_at	WBGene00005646	C03G6.18	srp-5	coding	1.201915862	0.002290622	0.034657509
172942_x_at	WBGene00005647	C03G6.19	srp-6	coding	1.222691605	0.001120177	0.024009967
185864_at	WBGene00005655	K11D12.3	srr-4	coding	0.846332311	0.001705049	0.029796251
182667_at	WBGene00005657	C13D9.1	srr-6	coding	2.0657316	0.000296457	0.01294698
180802_s_at	WBGene00005690	C38C3.2	sru-27	coding	0.820670454	0.003087168	0.040342895
176604_at	WBGene00005712	R13F6.3	srv-1	coding	0.63734245	0.004115602	0.046435723
178849_at	WBGene00005832	C25F9.1	srw-85	coding	-2.358581339	1.08667E-05	0.003753462
191356_at	WBGene00006068	Y71H9A.2	sto-6	coding	0.506135919	0.003726416	0.044314612

191518_at	WBGene00006191	C09H5.5	str-144	coding	1.497380403	0.00022565	0.01120727
172005_x_at	WBGene00006349	F39B2.4	sur-2	coding	-0.524986874	0.002331558	0.034763381
190922_s_at	WBGene00006349	F39B2.4	sur-2	coding	-0.607286653	0.001207461	0.025138337
175453_at	WBGene00006372	F48F7.2	syx-2	coding	1.105405056	0.000646886	0.018702237
189346_at	WBGene00006372	F48F7.2	syx-2	coding	1.327441781	0.000246158	0.011680425
186127_at	WBGene00006408	T14G12.3	tag-18	coding	0.771212631	0.001174533	0.02475805
190816_at	WBGene00006418	B0222.4	tag-38	coding	0.732370329	0.002871906	0.039005566
183162_at	WBGene00006436	W06H8.8	ttn-1	coding	-0.587282041	0.003860654	0.045273321
193654_at	WBGene00006470	F40F9.2	tag-120	coding	2.08528117	1.24603E-05	0.003806289
183764_at	WBGene00006505	Y6B3B.10	lagr-1	coding	0.854816835	0.00076101	0.020184682
189718_at	WBGene00006539	T04H1.9	tbb-6	coding	3.204610762	0.000188555	0.010165385
174869_at	WBGene00006543	F21H11.3	tbx-2	coding	0.607256808	0.002336611	0.034763381
188633_at	WBGene00006543	F21H11.3	tbx-2	coding	0.793825054	0.001028454	0.022818163
184577_at	WBGene00006558	Y73F8A.16	tbx-39	coding	-0.690952045	0.004442097	0.048464461
184250_s_at	WBGene00006559	Y73F8A.17	tbx-40	coding	-0.637088424	0.001728401	0.029950706
185562_s_at	WBGene00006571	Y75B8A.22	tim-1	coding	-0.790010002	0.001703666	0.029796251
187785_s_at	WBGene00006577	F39H11.2	tlf-1	coding	-0.551772303	0.001889816	0.031230786
193370_s_at	WBGene00006577	F39H11.2	tlf-1	coding	-0.466457134	0.003977398	0.045810689
188890_at	WBGene00006583	ZK673.7	tnc-2	coding	0.934206277	0.000482176	0.016393995
188480_at	WBGene00006586	W03F8.1	tni-4	coding	0.701189923	0.002149763	0.033594844
192126_s_at	WBGene00006591	T24A11.3	toh-1	coding	0.84375291	0.00083484	0.021116003
173449_s_at	WBGene00006605	C15F1.3	tra-2	coding	-0.6311065	0.001372553	0.026785817
191038_at	WBGene00006627	C02F5.8	tsp-1	coding	1.531858027	0.001260238	0.025674383
188927_at	WBGene00006628	C02F5.11	tsp-2	coding	1.213380723	0.000142426	0.008693129
190518_at	WBGene00006629	Y39E4B.4	tsp-3	coding	1.096490966	0.000257649	0.012011495
190434_s_at	WBGene00006634	F33C8.3	tsp-8	coding	0.900389725	0.000522163	0.017029675
190974_at	WBGene00006639	Y39B6A.6	tsp-13	coding	0.578958481	0.002002835	0.032142648
173648_s_at	WBGene00006647	F53G2.6	tsr-1	coding	-0.607629436	0.001859397	0.030918069
182513_at	WBGene00006649	F08F1.8	tth-1	coding	0.459482653	0.004187239	0.04703449
193223_at	WBGene00006656	F21C3.1	twk-1	coding	1.002611109	0.003766356	0.044615024
176411_s_at	WBGene00006702	Y71G12B.15	ubc-3	coding	-0.53759401	0.003740741	0.044415458
177900_s_at	WBGene00006714	Y69H2.6	ubc-19	coding	-3.784006271	9.1825E-07	0.002579258
191999_s_at	WBGene00006741	K03E6.5	unc-1	coding	0.678387901	0.001593752	0.029005195
191823_s_at	WBGene00006749	R12H7.1	unc-9	coding	0.56577539	0.002450439	0.03558613
176855_s_at	WBGene00006763	JC8.10	unc-26	coding	-0.496921862	0.003269092	0.04158242
190469_at	WBGene00006764	ZK721.2	unc-27	coding	0.494357724	0.00454693	0.048941861
190098_s_at	WBGene00006803	K11C4.3	unc-70	coding	-0.852691492	0.000502175	0.016591418
190347_s_at	WBGene00006805	F55C7.7	unc-73	coding	-0.744381655	0.000789871	0.020420636
192998_at	WBGene00006820	C09D1.1	unc-89	coding	-0.482170994	0.00426806	0.047507993
190410_s_at	WBGene00006863	F56B6.4	gyg-1	coding	1.902203616	1.44705E-05	0.003806289
192952_at	WBGene00006864	F56B6.5	npr-16	coding	0.764718312	0.002732952	0.038070947
189116_at	WBGene00006895	T17A3.8	ver-2	coding	0.711978723	0.003210023	0.041274052
192521_at	WBGene00006914	F35H10.4	vha-5	coding	1.009273229	0.00122135	0.025288928
174338_at	WBGene00006923	F08B1.1	vhp-1	coding	0.707307564	0.001451543	0.027644806
193002_at	WBGene00006938	F35H8.7	wee-1.1	coding	-0.929120604	0.004337894	0.047912292
192500_at	WBGene00006980	C14F5.2	zig-3	coding	2.396870337	0.000206795	0.010714
192568_at	WBGene00006981	C09C7.1	zig-4	coding	1.409149435	0.00091709	0.021880596
190168_at	WBGene00007036	ZK430.3	sod-5	coding	1.027839062	0.001428185	0.027348818
188384_s_at	WBGene00007053	T04D1.4	tag-192	coding	-0.77704223	0.001814009	0.030633408
179457_at	WBGene00007097	B0024.4	B0024.4	coding	4.007620258	0.000270033	0.012280427
192135_at	WBGene00007130	B0272.4	B0272.4	coding	0.517322339	0.002795977	0.038611227
190955_s_at	WBGene00007142	B0334.1	ttr-18	coding	3.066714176	1.92559E-05	0.00418073
189915_s_at	WBGene00007153	B0365.6	clec-41	coding	2.104147844	0.001551609	0.028768611
179086_s_at	WBGene00007155	B0379.1	B0379.1	coding	0.942831565	0.000413132	0.015305255
172249_x_at	WBGene00007164	B0391.9	fbxa-139	coding	-0.473066749	0.003678857	0.043977632
173718_s_at	WBGene00007178	B0457.2	B0457.2	coding	1.451764962	0.000670279	0.018880387
191581_at	WBGene00007203	B0564.3	B0564.3	coding	2.063950076	1.83108E-05	0.004092051
172469_x_at	WBGene00007246	C01G12.6	nspb-10	coding	-0.451594447	0.004365587	0.048078399
177917_at	WBGene00007262	C02D4.1	jud-4	coding	1.470816807	0.000527766	0.017041082

175540_at	WBGene00007285	C04A11.1	C04A11.1	coding	0.819038527	0.000340666	0.013660815
184160_at	WBGene00007303	C04F12.9	rnh-1.3	coding	3.175419802	4.63925E-06	0.002894802
186950_at	WBGene00007324	C05B5.8	C05B5.8	coding	1.438164651	0.000151729	0.009048793
184125_at	WBGene00007339	C05D12.1	C05D12.1	coding	0.696410199	0.001108259	0.023857389
183818_s_at	WBGene00007343	C05E7.1	C05E7.1	coding	1.07822629	0.000489575	0.016534578
177489_at	WBGene00007344	C05E7.2	C05E7.2	coding	1.124425393	0.000545375	0.017190056
177531_at	WBGene00007345	C05E7.3	C05E7.3	coding	0.730080618	0.001061922	0.023022944
192469_at	WBGene00007363	C06B3.4	stdh-1	coding	0.617672531	0.001353771	0.026547886
179272_at	WBGene00007365	C06B3.6	C06B3.6	coding	3.518752157	2.15366E-06	0.002579258
175538_at	WBGene00007368	C06B8.2	C06B8.2	coding	-0.737917081	0.001506414	0.028334759
175386_at	WBGene00007375	C06C3.4	C06C3.4	coding	1.339970402	0.00019204	0.010259836
177716_at	WBGene00007375	C06C3.4	C06C3.4	coding	0.943495273	0.000295455	0.01294698
177717_s_at	WBGene00007375	C06C3.4	C06C3.4	coding	1.189563176	0.000345478	0.013781028
179651_s_at	WBGene00007392	C06H5.1	fbxa-156	coding	1.445947858	0.001862498	0.030935785
179498_at	WBGene00007393	C06H5.2	fbxa-157	coding	1.26906286	0.001709818	0.029834454
179572_at	WBGene00007395	C06H5.7	C06H5.7	coding	0.666468758	0.001734468	0.029963459
178248_at	WBGene00007414	C07E3.3	C07E3.3	coding	0.615702468	0.003086505	0.040342895
189288_at	WBGene00007419	C07E3.9	C07E3.9	coding	0.770030588	0.000607054	0.018161421
178276_at	WBGene00007421	C07H4.1	C07H4.1	coding	1.050545808	0.00041995	0.015357364
191156_at	WBGene00007430	C08B6.10	C08B6.10	coding	0.547660165	0.004599803	0.049265546
178658_at	WBGene00007437	C08E8.1	C08E8.1	coding	1.774228138	1.45259E-05	0.003806289
179069_at	WBGene00007440	C08E8.4	C08E8.4	coding	1.926702055	0.000305942	0.01317198
179786_at	WBGene00007440	C08E8.4	C08E8.4	coding	2.746342629	0.00046232	0.016078575
175229_at	WBGene00007460	C08F11.13	C08F11.13	coding	0.872806498	0.001568409	0.028857959
190752_at	WBGene00007500	C09H10.6	nasp-1	coding	-0.493039822	0.003787938	0.044743574
178767_at	WBGene00007506	C10C5.2	C10C5.2	coding	1.847610168	0.001349874	0.026505662
189092_s_at	WBGene00007508	C10C5.4	C10C5.4	coding	-0.514987459	0.002412725	0.0353262
189081_at	WBGene00007509	C10C5.5	C10C5.5	coding	-0.522309511	0.003182164	0.041124599
190329_at	WBGene00007516	C11E4.1	C11E4.1	coding	0.845232723	0.000736015	0.019820973
190966_at	WBGene00007517	C11E4.2	C11E4.2	coding	0.734941485	0.00068821	0.018963598
188954_s_at	WBGene00007523	C11G6.2	C11G6.2	coding	-0.930676623	0.000213061	0.01082977
182793_at	WBGene00007525	C11G10.1	C11G10.1	coding	1.255685911	0.000453584	0.015893397
178497_at	WBGene00007553	C13G3.1	C13G3.1	coding	2.043063733	0.000383905	0.014733823
178076_at	WBGene00007574	C14B1.3	C14B1.3	coding	0.851796708	0.001653155	0.029489032
191384_s_at	WBGene00007591	C14H10.1	C14H10.1	coding	0.638138599	0.002554979	0.036460627
181914_s_at	WBGene00007638	C17D12.3	C17D12.3	coding	0.570357557	0.003016906	0.039980697
179127_s_at	WBGene00007652	C17G1.5	C17G1.5	coding	0.713293279	0.000953575	0.022213328
179607_at	WBGene00007689	C18E9.9	C18E9.9	coding	0.865399245	0.001020006	0.022730273
188801_s_at	WBGene00007736	C25G4.10	C25G4.10	coding	-0.510147917	0.002493817	0.035984513
181652_at	WBGene00007752	C26H9A.2	C26H9A.2	coding	-0.727935133	0.000975415	0.022273976
177801_at	WBGene00007806	C29F3.5	clec-230	coding	0.635896316	0.004680634	0.049537796
177487_at	WBGene00007807	C29F3.7	C29F3.7	coding	1.443618121	0.001852499	0.030892922
178847_at	WBGene00007817	C30F2.3	C30F2.3	coding	0.915990401	0.000626137	0.018370728
179235_at	WBGene00007856	C31H5.5	C31H5.5	coding	0.542983308	0.002876083	0.039018345
179682_at	WBGene00007857	C31H5.6	C31H5.6	coding	1.207971114	0.001311425	0.026076591
174542_at	WBGene00007877	C33A11.1	C33A11.1	coding	0.826849527	0.002060998	0.032764689
180914_at	WBGene00007881	C33A12.2	nlp-35	coding	0.775163443	0.002190122	0.033895588
172352_at	WBGene00007883	C33A12.4	C33A12.4	coding	0.837071105	0.001313818	0.026076591
175263_at	WBGene00007908	C34B4.3	C34B4.3	coding	1.26182551	0.000280289	0.012565881
189667_at	WBGene00007913	C34B7.3	cyp-36A1	coding	1.153187258	0.000336055	0.013532472
178441_at	WBGene00007919	C34C6.7	C34C6.7	coding	1.53381887	0.003288375	0.041716792
177976_at	WBGene00007931	C34D1.4	C34D1.4	coding	1.094670725	0.001423473	0.027315592
177977_s_at	WBGene00007931	C34D1.4	C34D1.4	coding	1.026614585	0.003319109	0.041862085
193844_at	WBGene00007932	C34D1.5	zip-5	coding	1.267333113	0.001929302	0.031581832
178430_at	WBGene00007958	C35C5.9	C35C5.9	coding	1.503325942	2.54182E-05	0.004556601
178480_at	WBGene00008016	C38D9.8	C38D9.8	coding	-0.798867436	0.001282227	0.025834855
181234_at	WBGene00008023	C39B10.3	C39B10.3	coding	1.066239973	0.000560054	0.017412754
179110_at	WBGene00008032	C39E9.8	C39E9.8	coding	1.804614754	0.000273542	0.012372913
183189_s_at	WBGene00008089	C44C10.9	C44C10.9	coding	0.967974043	0.000488872	0.016534578

182099_at	WBGene00008139	C47D12.5	C47D12.5	coding	0.871662145	0.00363224	0.04363857
188639_at	WBGene00008145	C47E8.8	set-5	coding	-0.577371186	0.001740059	0.03000072
182082_at	WBGene00008191	C49A1.10	C49A1.10	coding	0.682090821	0.002827539	0.038782239
179537_at	WBGene00008226	C50B8.4	C50B8.4	coding	0.906076638	0.000940019	0.022129941
179373_at	WBGene00008234	C50F4.9	C50F4.9	coding	1.631560509	5.71693E-05	0.005756248
179176_at	WBGene00008260	C52G5.2	C52G5.2	coding	0.64530283	0.002423824	0.035386441
191541_at	WBGene00008296	C54D10.1	cdr-2	coding	1.162607294	0.001713825	0.029870079
182553_at	WBGene00008298	C54D10.3	C54D10.3	coding	2.939121624	5.06091E-05	0.005493978
182336_at	WBGene00008300	C54D10.5	C54D10.5	coding	0.586577838	0.003580056	0.04331982
191485_at	WBGene00008304	C54D10.10	C54D10.10	coding	-2.702697631	1.3409E-05	0.003806289
177412_at	WBGene00008315	C54G4.5	C54G4.5	coding	0.568246333	0.003434907	0.042458435
177546_at	WBGene00008317	C54G4.7	C54G4.7	coding	0.637067514	0.00341809	0.042372052
178619_at	WBGene00008323	C55A1.6	C55A1.6	coding	1.667445688	9.98691E-05	0.007227671
173919_s_at	WBGene00008341	C56A3.2	ttr-44	coding	1.445858583	0.001656521	0.029514431
172268_x_at	WBGene00008356	D1025.4	nspc-20	coding	1.994818733	9.19542E-05	0.007085503
175297_at	WBGene00008366	D1046.5	D1046.5	coding	1.508509073	0.000839194	0.021116003
178713_at	WBGene00008366	D1046.5	D1046.5	coding	0.950805797	0.001944871	0.031689926
177469_at	WBGene00008368	D1053.3	D1053.3	coding	0.736241869	0.001299244	0.026015685
177617_at	WBGene00008372	D1054.5	D1054.5	coding	0.502339441	0.004675913	0.049522313
177694_at	WBGene00008447	E01G4.5	E01G4.5	coding	-0.935536332	0.000184529	0.010051863
190139_s_at	WBGene00008477	E03H4.10	clec-17	coding	1.567402505	0.000664618	0.018872024
178017_s_at	WBGene00008492	F01D5.1	F01D5.1	coding	1.5895818	0.000893964	0.021553379
178262_at	WBGene00008495	F01D5.5	F01D5.5	coding	2.053516906	0.000198399	0.010469688
178264_at	WBGene00008498	F01D5.8	F01D5.8	coding	0.575735981	0.001511742	0.028353017
180888_at	WBGene00008515	F02C12.1	F02C12.1	coding	1.508878994	0.002325143	0.034763381
172790_x_at	WBGene00008519	F02C12.5	cyp-13B1	coding	1.0014624	0.000200286	0.010532711
185599_s_at	WBGene00008519	F02C12.5	cyp-13B1	coding	1.135262146	0.00013122	0.008344288
177735_at	WBGene00008535	F02H6.2	F02H6.2	coding	-0.697449616	0.001993132	0.032088579
173625_s_at	WBGene00008570	F08A10.1	kcnl-2	coding	0.531980131	0.004663954	0.049522313
183641_at	WBGene00008572	F08B12.4	F08B12.4	coding	1.598858043	6.42623E-05	0.005892766
178651_at	WBGene00008577	F08G2.5	F08G2.5	coding	2.134305575	3.65394E-05	0.004923881
178843_at	WBGene00008584	F08G5.6	F08G5.6	coding	2.435050206	0.000275334	0.012416972
192896_at	WBGene00008588	F08G12.5	F08G12.5	coding	0.711569807	0.002326162	0.034763381
177903_s_at	WBGene00008602	F09B9.1	oac-14	coding	3.291718656	2.96351E-05	0.004923881
192709_at	WBGene00008610	F09C3.2	F09C3.2	coding	0.855046874	0.000284533	0.012607367
190996_at	WBGene00008628	F09F3.6	ttr-21	coding	3.799793431	3.28552E-05	0.004923881
191063_at	WBGene00008645	F10C2.4	F10C2.4	coding	-0.461176494	0.004420072	0.048397881
179439_s_at	WBGene00008707	F11E6.3	F11E6.3	coding	0.654967304	0.001802425	0.030538741
179570_at	WBGene00008708	F11E6.4	F11E6.4	coding	1.48920627	0.000192295	0.010259836
179444_s_at	WBGene00008710	F11E6.7	F11E6.7	coding	-0.633587931	0.002964211	0.03963363
183639_at	WBGene00008726	F13A7.11	F13A7.11	coding	2.479147459	0.000169935	0.009565477
190615_s_at	WBGene00008732	F13B12.4	F13B12.4	coding	1.035765624	0.000967674	0.022273976
179714_at	WBGene00008739	F13D12.3	F13D12.3	coding	2.451170436	3.95073E-06	0.002831702
180267_s_at	WBGene00008742	F13D12.8	F13D12.8	coding	0.542993963	0.004323104	0.04785327
183859_at	WBGene00008773	F13H10.1	F13H10.1	coding	1.011243467	0.000614309	0.018204122
178748_at	WBGene00008784	F14B6.3	F14B6.3	coding	-0.737027515	0.000533104	0.01704258
178799_at	WBGene00008794	F14D7.7	F14D7.7	coding	2.961839103	4.43752E-06	0.002894802
182420_at	WBGene00008820	F14F11.2	F14F11.2	coding	1.124837977	0.00095153	0.022213328
189405_at	WBGene00008829	F14H3.10	cyp-35D1	coding	-0.581122156	0.002153958	0.033594844
190931_s_at	WBGene00008832	F14H8.1	obr-2	coding	0.80762802	0.0006861	0.018958807
192485_at	WBGene00008841	F15A4.6	F15A4.6	coding	2.252152485	0.000378916	0.014703911
189419_at	WBGene00008850	F15B9.6	F15B9.6	coding	0.978611736	0.001673892	0.029684733
179266_at	WBGene00008862	F15D4.5	F15D4.5	coding	0.8581013	0.000808176	0.020712745
171746_x_at	WBGene00008865	F15G9.1	F15G9.1	coding	0.644433764	0.001046929	0.022860953
187446_s_at	WBGene00008865	F15G9.1	F15G9.1	coding	0.650928477	0.00093329	0.022128146
181257_at	WBGene00008914	F17C11.2	F17C11.2	coding	1.102121347	0.000729017	0.019749745
188876_s_at	WBGene00008921	F17C11.10	F17C11.10	coding	-0.583492256	0.002933682	0.03942553
175504_at	WBGene00008922	F17C11.11	F17C11.11	coding	2.263790548	0.00131094	0.026076591
177833_s_at	WBGene00008944	F19B2.5	F19B2.5	coding	2.197189586	3.84475E-05	0.004923881

190573_at	WBGene00008956	F19H6.1	nek1-3	coding	0.651917659	0.00125931	0.025674383
183717_at	WBGene00008967	F20B10.3	F20B10.3	coding	3.076894888	1.83335E-05	0.004092051
179692_at	WBGene00008975	F20D1.3	F20D1.3	coding	1.068315504	0.000296397	0.01294698
182471_at	WBGene00008980	F20D1.10	tag-299	coding	1.054392729	0.000226573	0.011216471
189679_at	WBGene00008993	F21A3.3	F21A3.3	coding	0.491849929	0.004674656	0.049522313
189817_at	WBGene00009009	F21D5.4	F21D5.4	coding	1.297860869	0.000114209	0.007828057
192451_s_at	WBGene00009023	F21G4.1	F21G4.1	coding	0.537790231	0.00223265	0.034205465
175262_at	WBGene00009097	F23H12.9	fipr-2	coding	2.859159782	6.22387E-05	0.005875177
192721_at	WBGene00009101	F25B3.4	F25B3.4	coding	1.133681678	0.000168916	0.009543423
192722_s_at	WBGene00009101	F25B3.4	F25B3.4	coding	1.083659804	0.000206808	0.010714
179090_at	WBGene00009102	F25B3.5	F25B3.5	coding	1.089233864	0.000439846	0.015725903
178186_at	WBGene00009130	F25H5.8	F25H5.8	coding	4.908391246	1.71518E-06	0.002579258
191521_s_at	WBGene00009142	F26A3.4	F26A3.4	coding	1.164471126	0.002781036	0.038485339
178600_at	WBGene00009157	F26E4.2	F26E4.2	coding	1.674897438	0.000120932	0.008061054
186832_at	WBGene00009192	F27E5.1	F27E5.1	coding	0.803526863	0.001483875	0.028014829
174675_at	WBGene00009221	F28F8.2	acs-2	coding	1.557440153	6.68072E-05	0.006007907
192195_at	WBGene00009221	F28F8.2	acs-2	coding	1.305091438	0.000528737	0.017041082
189221_at	WBGene00009226	F28G4.1	cyp-37B1	coding	0.777237056	0.002162209	0.033634847
174199_at	WBGene00009285	F31C3.3	F31C3.3	coding	-0.595623167	0.001435164	0.02736716
177790_at	WBGene00009285	F31C3.3	F31C3.3	coding	-0.816590016	0.000499664	0.016580554
183884_at	WBGene00009325	F32D8.15	F32D8.15	coding	0.607792121	0.003909796	0.045533398
193677_at	WBGene00009331	F32D8.7	F32D8.7	coding	0.768117046	0.000856539	0.021242022
192345_s_at	WBGene00009347	F32H5.1	F32H5.1	coding	0.799927013	0.002914138	0.039245022
187662_at	WBGene00009349	F32H5.3	F32H5.3	coding	1.015388212	0.000129995	0.008336115
192588_s_at	WBGene00009368	F33H2.5	F33H2.5	coding	-0.543842922	0.004541601	0.048941861
175556_at	WBGene00009380	F34H10.3	F34H10.3	coding	0.630036204	0.001594193	0.029005195
188790_at	WBGene00009380	F34H10.3	F34H10.3	coding	0.702022218	0.00101152	0.022640758
191198_at	WBGene00009384	F35B12.4	F35B12.4	coding	1.650121955	1.76798E-05	0.004092051
191213_at	WBGene00009386	F35B12.6	tag-290	coding	0.573582151	0.00231381	0.034763381
193419_at	WBGene00009388	F35B12.9	F35B12.9	coding	0.967221941	0.000231829	0.011329041
194056_s_at	WBGene00009393	F35C5.5	clec-62	coding	1.149874674	0.001483304	0.028014829
194044_at	WBGene00009394	F35C5.6	clec-63	coding	1.204137672	0.00169185	0.029794597
192559_s_at	WBGene00009396	F35C5.8	clec-65	coding	1.548222388	0.002145681	0.033594844
194067_at	WBGene00009397	F35C5.9	clec-66	coding	1.05959164	0.002708031	0.037862615
179993_at	WBGene00009405	F35C11.6	F35C11.6	coding	1.552681956	0.000154562	0.009107466
179695_at	WBGene00009429	F35E12.5	F35E12.5	coding	3.810824962	5.56181E-05	0.005711373
180342_at	WBGene00009430	F35E12.6	F35E12.6	coding	1.295113351	0.000874668	0.021390444
177556_at	WBGene00009447	F35H8.2	F35H8.2	coding	0.754174692	0.001951592	0.031722237
178772_at	WBGene00009475	F36F2.1	F36F2.1	coding	0.745803543	0.000590708	0.01790627
182917_at	WBGene00009504	F37B12.1	F37B12.1	coding	0.732728848	0.003507259	0.043021244
192636_at	WBGene00009512	F37H8.3	F37H8.3	coding	2.657391001	0.000120324	0.008055867
178138_at	WBGene00009533	F38B7.2	F38B7.2	coding	1.044500838	0.000255488	0.011947428
175289_at	WBGene00009562	F39H2.1	fip-22	coding	1.583061245	0.000234716	0.011390064
172159_x_at	WBGene00009620	F41E7.4	fip-5	coding	2.264389283	1.67237E-05	0.004092051
172844_x_at	WBGene00009621	F41E7.5	fipr-21	coding	2.769866278	2.30007E-05	0.0044556
178094_at	WBGene00009623	F41E7.7	F41E7.7	coding	1.068892464	0.000176409	0.009856835
177492_at	WBGene00009624	F41E7.8	cnc-8	coding	2.242741514	6.97801E-06	0.003059368
189756_s_at	WBGene00009658	F43G6.5	F43G6.5	coding	-0.846030907	0.001626201	0.029246964
177826_at	WBGene00009676	F44A6.4	F44A6.4	coding	0.704025587	0.001121666	0.024009967
191953_at	WBGene00009689	F44E5.2	F44E5.2	coding	-0.67368172	0.003000226	0.039857892
179587_at	WBGene00009702	F44F4.3	F44F4.3	coding	0.749822856	0.001040234	0.022826361
180315_at	WBGene00009710	F44G3.10	F44G3.10	coding	0.771362664	0.002912132	0.039245022
173550_at	WBGene00009724	F45D3.4	F45D3.4	coding	2.242809173	0.000988158	0.022348259
178900_s_at	WBGene00009724	F45D3.4	F45D3.4	coding	1.356935491	0.001410982	0.027178845
189681_at	WBGene00009729	F45E10.2	F45E10.2	coding	0.911338798	0.003567744	0.043260233
175278_at	WBGene00009750	F46A8.7	F46A8.7	coding	3.025516579	9.33679E-06	0.003493501
186715_at	WBGene00009779	F46C5.2	F46C5.2	coding	0.922395458	0.000318524	0.013320407
178165_at	WBGene00009791	F46F3.3	F46F3.3	coding	0.690998528	0.001814059	0.030633408
181137_at	WBGene00009796	F46G10.1	F46G10.1	coding	1.096542131	0.000417339	0.015355604

180985_s_at	WBGene00009797	F46G10.2	F46G10.2	coding	0.532758367	0.002742692	0.038136719
174627_at	WBGene00009801	F47A4.5	F47A4.5	coding	0.753955669	0.003258529	0.041546244
178834_at	WBGene00009803	F47B8.2	F47B8.2	coding	1.947153359	3.56865E-05	0.004923881
178790_at	WBGene00009804	F47B8.3	F47B8.3	coding	1.010121867	0.003526093	0.04307843
184170_at	WBGene00009811	F47B8.10	F47B8.10	coding	2.131648472	0.00087203	0.021390444
192099_s_at	WBGene00009842	F48C5.1	F48C5.1	coding	1.01873138	0.000569675	0.01749075
179412_at	WBGene00009863	F49B2.3	F49B2.3	coding	-0.684127287	0.000904354	0.02174742
180983_at	WBGene00009874	F49C12.4	F49C12.4	coding	1.777257898	0.001117213	0.024009967
174191_at	WBGene00009886	F49E2.2	F49E2.2	coding	0.683080943	0.003416241	0.042372052
192737_at	WBGene00009895	F49E11.10	scl-2	coding	1.30711024	0.000145694	0.008821739
189732_at	WBGene00009902	F49E12.9	F49E12.9	coding	0.975553956	0.003281719	0.041667144
179056_s_at	WBGene00009916	F52A8.3	F52A8.3	coding	1.394545592	3.82552E-05	0.004923881
188718_at	WBGene00009917	F52A8.4	glb-18	coding	0.558766997	0.002888248	0.039018345
192600_s_at	WBGene00009921	F52B5.2	F52B5.2	coding	-0.674691274	0.00254538	0.036391988
188253_s_at	WBGene00009922	F52B5.3	F52B5.3	coding	-0.906015981	0.001228171	0.025389573
181536_at	WBGene00009927	F52B11.5	F52B11.5	coding	0.572949684	0.003663445	0.043929047
179402_at	WBGene00009947	F52H3.5	F52H3.5	coding	1.038784221	0.000862004	0.021302013
174012_s_at	WBGene00009957	F53B2.8	F53B2.8	coding	3.057712431	4.76528E-05	0.005325197
194157_s_at	WBGene00009963	F53B6.8	fipr-26	coding	1.348381042	0.000939081	0.022129941
175151_at	WBGene00009971	F53C11.1	F53C11.1	coding	1.516392498	0.001120106	0.024009967
182388_at	WBGene00009971	F53C11.1	F53C11.1	coding	1.988964736	0.000715935	0.019585517
172706_x_at	WBGene00009982	F53F1.4	F53F1.4	coding	0.556064821	0.004291559	0.047608107
182491_at	WBGene00009995	F53F4.13	F53F4.13	coding	1.452768157	0.000326723	0.013519827
179553_at	WBGene00010001	F53F8.4	F53F8.4	coding	3.285226024	2.81351E-06	0.002579258
172240_x_at	WBGene00010005	F53H2.2	cnc-7	coding	1.82863787	5.20387E-05	0.005569603
173398_s_at	WBGene00010005	F53H2.2	cnc-7	coding	2.679702412	3.37031E-06	0.002579258
179214_at	WBGene00010019	F54B8.4	F54B8.4	coding	1.507732789	0.00027069	0.012280427
179078_s_at	WBGene00010041	F54C9.3	F54C9.3	coding	1.421608881	0.000221164	0.011056726
178723_at	WBGene00010049	F54D5.3	F54D5.3	coding	1.289428557	0.000616995	0.018204122
178724_s_at	WBGene00010049	F54D5.3	F54D5.3	coding	1.113480257	0.001726702	0.029950706
178820_at	WBGene00010050	F54D5.4	F54D5.4	coding	2.032235352	4.52057E-05	0.005230702
188893_at	WBGene00010063	F54F3.4	F54F3.4	coding	0.499643748	0.003249248	0.041462698
182808_s_at	WBGene00010086	F55B11.4	F55B11.4	coding	1.543351572	0.000616226	0.018204122
191524_at	WBGene00010117	F55F3.3	nkb-3	coding	0.759998438	0.002055364	0.032764689
183624_at	WBGene00010125	F55G11.5	dod-22	coding	1.847690137	4.06721E-05	0.005058446
183378_at	WBGene00010128	F55G11.8	F55G11.8	coding	0.980027241	0.002451551	0.03558613
180707_at	WBGene00010135	F55H12.4	F55H12.4	coding	3.461136035	6.57898E-06	0.003059368
181195_at	WBGene00010175	F56H11.2	F56H11.2	coding	1.054511943	0.000125387	0.008249475
178456_at	WBGene00010212	F57G4.8	fbxa-192	coding	1.10057975	0.001246209	0.025559899
177477_at	WBGene00010224	F58A3.4	F58A3.4	coding	0.704949513	0.003867671	0.045302291
190905_at	WBGene00010225	F58A3.5	ttr-31	coding	2.440190219	0.000605016	0.018161421
179206_at	WBGene00010236	F58B4.3	F58B4.3	coding	0.960576494	0.000867724	0.021373866
175776_s_at	WBGene00010251	F58E6.1	sta-2	coding	1.14886028	0.000727032	0.019731125
184175_at	WBGene00010262	F58E10.7	F58E10.7	coding	0.629092701	0.004005624	0.04597839
192216_at	WBGene00010290	F58H1.7	F58H1.7	coding	0.690493483	0.003075803	0.040298323
181912_at	WBGene00010291	F58H10.1	F58H10.1	coding	0.921760211	0.000452298	0.015893397
178460_at	WBGene00010293	F59A1.7	fbxa-108	coding	1.125636705	0.000270148	0.012280427
179177_at	WBGene00010306	F59A2.6	F59A2.6	coding	-0.831461604	0.002481978	0.035924853
175519_at	WBGene00010328	F59C6.11	F59C6.11	coding	0.676744669	0.003201042	0.04124512
182436_at	WBGene00010403	H19J13.1	otpl-8	coding	0.754312843	0.001400239	0.027011086
173511_at	WBGene00010425	H37A05.1	lpin-1	coding	0.512897955	0.002836703	0.038782239
190610_s_at	WBGene00010440	JC8.8	ttr-51	coding	2.618781868	2.98344E-05	0.004923881
183361_at	WBGene00010467	K01D12.8	K01D12.8	coding	-1.479073723	0.000298179	0.012971205
191871_s_at	WBGene00010470	K01D12.11	cdr-4	coding	1.417279435	0.000136555	0.008520185
191875_at	WBGene00010471	K01D12.12	cdr-6	coding	0.481211777	0.004353001	0.047985278
180815_at	WBGene00010484	K01H12.1	dph-3	coding	0.665774283	0.001149044	0.02445823
190730_at	WBGene00010493	K02B9.2	meg-2	coding	-0.604342703	0.002835086	0.038782239
178299_at	WBGene00010503	K02C4.5	K02C4.5	coding	0.581501678	0.004078963	0.046375741
177832_at	WBGene00010509	K02E2.8	K02E2.8	coding	-1.050138201	0.000679944	0.018941669

174495_at	WBGene00010519	K03A11.1	K03A11.1	coding	-0.593830525	0.003494995	0.042974861
180454_s_at	WBGene00010522	K03A11.5	K03A11.5	coding	0.726556608	0.004624186	0.049318157
191625_s_at	WBGene00010538	K03H1.3	ttr-3	coding	1.238083721	0.000811173	0.020754566
191676_at	WBGene00010539	K03H1.4	ttr-2	coding	0.838488647	0.000493689	0.01653933
175101_s_at	WBGene00010569	K04G2.11	K04G2.11	coding	1.22839961	9.82826E-05	0.007227671
178884_at	WBGene00010647	K08C7.4	K08C7.4	coding	0.671475792	0.000985235	0.02232445
179650_at	WBGene00010658	K08D8.4	K08D8.4	coding	0.640573167	0.002964807	0.03963363
177700_at	WBGene00010660	K08D8.6	K08D8.6	coding	1.392363099	0.000400689	0.015036221
177701_s_at	WBGene00010660	K08D8.6	K08D8.6	coding	1.431990745	0.000331583	0.013519827
178425_at	WBGene00010660	K08D8.6	K08D8.6	coding	0.893872904	0.001918171	0.031482039
188632_at	WBGene00010661	K08E3.1	tyr-2	coding	2.488308155	7.57003E-05	0.006356313
178828_at	WBGene00010667	K08E4.3	K08E4.3	coding	0.941519269	0.000443901	0.015725903
188380_at	WBGene00010686	K08F9.3	K08F9.3	coding	1.903865141	0.000776271	0.020201655
190526_at	WBGene00010768	K11D2.1	K11D2.1	coding	1.009019773	0.00013808	0.008530679
192478_at	WBGene00010770	K11D2.4	K11D2.4	coding	-0.49080548	0.004322563	0.04785327
191725_s_at	WBGene00010772	K11D9.3	K11D9.3	coding	0.930265454	0.00134613	0.026500619
190978_at	WBGene00010790	K12G11.3	sodh-1	coding	1.221582886	9.64939E-05	0.007227671
178284_s_at	WBGene00010808	M01E5.6	sepa-1	coding	-0.789014548	0.000499595	0.016580554
178171_at	WBGene00010864	M04D8.6	xbx-3	coding	0.546285658	0.001930486	0.031581832
176918_at	WBGene00010884	M7.8	M7.8	coding	0.830377043	0.001703434	0.029796251
177116_at	WBGene00010887	M7.12	M7.12	coding	1.137837392	0.00016533	0.009409363
177115_at	WBGene00010901	M28.10	M28.10	coding	0.728436067	0.003852079	0.045242578
177205_at	WBGene00010907	M88.4	M88.4	coding	0.612644779	0.001730275	0.029950706
177257_at	WBGene00010928	M162.2	clec-258	coding	0.681116685	0.00133877	0.026389924
175452_at	WBGene00010944	M176.5	M176.5	coding	0.937339462	0.001050876	0.022914215
178412_at	WBGene00010977	R02D5.3	R02D5.3	coding	1.546411746	3.76587E-05	0.004923881
183510_at	WBGene00010982	R03A10.2	fip-32	coding	0.943613898	0.000625534	0.018370728
182944_at	WBGene00011019	R05A10.2	R05A10.2	coding	1.336136993	0.000797666	0.020547336
183248_at	WBGene00011021	R05A10.4	R05A10.4	coding	1.650059457	0.001837877	0.030892086
178352_at	WBGene00011026	R05D7.1	R05D7.1	coding	0.634765603	0.001400496	0.027011086
180412_at	WBGene00011042	R05H10.1	R05H10.1	coding	2.642844085	3.39421E-06	0.002579258
193996_at	WBGene00011043	R05H10.2	R05H10.2	coding	-0.595361271	0.003597339	0.043356356
192627_at	WBGene00011055	R06B9.4	arrd-14	coding	0.795758028	0.0013073	0.026076591
175546_at	WBGene00011060	R06C1.6	R06C1.6	coding	0.88375771	0.000380765	0.014724842
187447_at	WBGene00011072	R06F6.11	tag-209	coding	0.768185087	0.000734103	0.019820973
190821_at	WBGene00011076	R07B1.3	scav-5	coding	0.790734901	0.001695761	0.029796251
190822_s_at	WBGene00011076	R07B1.3	scav-5	coding	0.95139449	0.002514983	0.036069847
190798_at	WBGene00011097	R07B7.13	nhr-206	coding	0.758591182	0.003402741	0.042372052
188428_at	WBGene00011104	R07E3.3	cut-5	coding	0.579090752	0.003934627	0.045674531
190560_at	WBGene00011105	R07E3.4	R07E3.4	coding	0.68433818	0.002981445	0.039677766
188853_at	WBGene00011112	R07E5.4	R07E5.4	coding	1.058559423	0.001563759	0.028857959
178859_at	WBGene00011154	R09A8.5	R09A8.5	coding	0.677828383	0.001599313	0.029005195
187425_at	WBGene00011175	R09E10.5	R09E10.5	coding	-0.585140883	0.003971719	0.045798316
191756_s_at	WBGene00011185	R10D12.1	R10D12.1	coding	1.838655724	4.60834E-05	0.005265976
177734_at	WBGene00011215	R10E9.3	R10E9.3	coding	0.706553466	0.002740694	0.038136719
183646_at	WBGene00011223	R10H10.4	R10H10.4	coding	0.713950908	0.004401557	0.04829954
177692_at	WBGene00011236	R11A8.1	R11A8.1	coding	-0.600962898	0.003519418	0.043031466
189365_s_at	WBGene00011240	R11A8.7	R11A8.7	coding	-0.565351002	0.002320845	0.034763381
190987_at	WBGene00011262	R13H4.3	pho-8	coding	1.686488865	1.74674E-05	0.004092051
177923_at	WBGene00011263	R13H4.5	R13H4.5	coding	0.718829501	0.000618063	0.018204122
190473_at	WBGene00011284	R90.2	ttr-27	coding	1.919329754	6.05923E-05	0.005811796
191034_s_at	WBGene00011392	T03D8.3	sbt-1	coding	1.035603384	0.001414913	0.027220062
175508_at	WBGene00011423	T04B2.5	T04B2.5	coding	2.187788526	5.18834E-05	0.005569603
179175_at	WBGene00011423	T04B2.5	T04B2.5	coding	2.286930442	0.000131202	0.008344288
183970_at	WBGene00011428	T04C12.3	T04C12.3	coding	1.904421346	7.31279E-05	0.006243805
177575_at	WBGene00011432	T04D3.2	sdz-30	coding	-0.883142105	0.001335176	0.026353249
179349_at	WBGene00011446	T04F8.8	T04F8.8	coding	3.136597261	5.3824E-05	0.005673909
179210_at	WBGene00011494	T05F1.9	T05F1.9	coding	0.692824175	0.002782957	0.038485339
177505_at	WBGene00011548	T06G6.6	T06G6.6	coding	0.827104248	0.003770999	0.044635233

181494_s_at	WBGene00011560	T07C4.3	T07C4.3	coding	-0.503467378	0.004599078	0.049265546
173402_s_at	WBGene00011561	T07C4.5	ttr-15	coding	4.240290898	2.86246E-05	0.004923881
186399_at	WBGene00011562	T07C4.10	T07C4.10	coding	-0.55433061	0.00194979	0.031722237
183823_s_at	WBGene00011604	T08A11.1	T08A11.1	coding	-0.635711339	0.003436169	0.042458435
191670_at	WBGene00011643	T09B9.2	T09B9.2	coding	1.830225399	1.39661E-05	0.003806289
189578_at	WBGene00011672	T10B9.2	cyp-13A5	coding	2.416810011	0.000488681	0.016534578
182276_at	WBGene00011681	T10B10.4	T10B10.4	coding	0.482569315	0.003639889	0.043695921
182551_s_at	WBGene00011683	T10B10.6	phat-6	coding	1.565321673	3.81254E-05	0.004923881
189358_at	WBGene00011684	T10B10.8	T10B10.8	coding	0.831042744	0.002856789	0.038895436
177764_at	WBGene00011707	T11B7.2	T11B7.2	coding	2.594846496	9.57451E-06	0.003493501
175158_s_at	WBGene00011727	T12A7.6	T12A7.6	coding	1.059877738	0.000950023	0.022213328
172193_at	WBGene00011733	T12D8.5	T12D8.5	coding	1.836298173	9.88423E-06	0.003493501
179625_at	WBGene00011772	T14G8.4	T14G8.4	coding	1.453594029	6.13424E-05	0.005826763
191084_at	WBGene00011774	T14G10.4	ttr-54	coding	0.702802321	0.000663713	0.018872024
189610_at	WBGene00011791	T15H9.6	T15H9.6	coding	-0.854655678	0.001061711	0.023022944
187560_at	WBGene00011812	T16H12.2	T16H12.2	coding	-0.723218129	0.00097608	0.022273976
189076_at	WBGene00011888	T21B10.6	cutl-15	coding	0.660637569	0.001238804	0.025496457
190830_at	WBGene00011894	T21C9.8	ttr-23	coding	3.022789836	5.94521E-05	0.005804522
179287_s_at	WBGene00011908	T22A3.5	pash-1	coding	-0.473978428	0.003561756	0.043236071
178038_at	WBGene00011949	T23F6.1	T23F6.1	coding	1.257264982	0.000376175	0.014659235
178297_at	WBGene00011979	T24B8.5	T24B8.5	coding	2.478202805	1.13519E-05	0.003754078
177955_at	WBGene00011982	T24C2.3	T24C2.3	coding	-0.635488291	0.00159324	0.029005195
177523_at	WBGene00011984	T24C2.5	T24C2.5	coding	0.65091604	0.001647375	0.02942279
172236_x_at	WBGene00011997	T24F1.5	T24F1.5	coding	0.89165454	0.001842531	0.030892086
180818_at	WBGene00012005	T24H10.7	jun-1	coding	0.816621304	0.002493632	0.035984513
188946_at	WBGene00012005	T24H10.7	jun-1	coding	1.681690695	7.74593E-05	0.006468277
177598_at	WBGene00012034	T26C5.4	T26C5.4	coding	1.846400361	6.56236E-05	0.005936593
179100_at	WBGene00012038	T26E3.5	T26E3.5	coding	-0.663956547	0.003880022	0.045349943
179204_s_at	WBGene00012101	T27F2.4	T27F2.4	coding	1.71836555	3.21575E-05	0.004923881
179171_at	WBGene00012107	T27F6.8	T27F6.8	coding	1.73425692	0.000589502	0.01790627
179102_at	WBGene00012122	T28C6.8	T28C6.8	coding	0.595275409	0.001562618	0.028857959
191981_at	WBGene00012137	T28F4.2	asic-2	coding	0.655320248	0.000962048	0.022225177
178922_at	WBGene00012140	T28F4.5	T28F4.5	coding	1.591760126	0.0003148	0.013276952
180520_at	WBGene00012143	T28H10.2	T28H10.2	coding	1.345001377	0.004270754	0.047507993
186467_at	WBGene00012147	VC27A7L1	VC27A7L1	coding	0.658475094	0.003311371	0.041862085
186668_s_at	WBGene00012151	VH15N14R.1	VH15N14R.1	coding	-0.832915284	0.00439174	0.048226636
188064_at	WBGene00012178	W01C9.5	glb-27	coding	0.620761069	0.004756389	0.049878171
173274_s_at	WBGene00012185	W01F3.2	W01F3.2	coding	3.93056439	2.11543E-06	0.002579258
177817_at	WBGene00012185	W01F3.2	W01F3.2	coding	2.771194405	2.25805E-05	0.0044556
183861_at	WBGene00012216	W02D9.10	W02D9.10	coding	1.371777957	0.000458117	0.016005662
178428_at	WBGene00012297	W06D4.3	W06D4.3	coding	1.867368497	9.24176E-05	0.007085503
190170_s_at	WBGene00012364	W09D12.1	W09D12.1	coding	2.252855315	0.000127836	0.008321418
190906_at	WBGene00012383	Y5F2A.2	ttr-17	coding	0.875446728	0.001181845	0.024825881
181925_at	WBGene00012421	Y9C2UA.1	Y9C2UA.1	coding	0.664090001	0.003779564	0.044701803
184117_at	WBGene00012440	Y12A6A.2	Y12A6A.2	coding	0.770305031	0.001105085	0.023822815
171754_x_at	WBGene00012443	Y15E3A.4	Y15E3A.4	coding	0.511579779	0.004237641	0.047303925
172611_x_at	WBGene00012498	Y24F12A.3	Y24F12A.3	coding	-0.7699216	0.001241318	0.025496457
181665_at	WBGene00012548	Y37D8A.6	Y37D8A.6	coding	1.128100125	0.000613833	0.018204122
171992_x_at	WBGene00012584	Y38E10A.6	ceh-100	coding	-0.465873551	0.004448545	0.048468841
186209_s_at	WBGene00012584	Y38E10A.6	ceh-100	coding	-0.488795166	0.003737464	0.044411238
172635_x_at	WBGene00012593	Y38E10A.15	nspe-7	coding	5.352547325	6.06764E-06	0.003059368
172628_x_at	WBGene00012594	Y38E10A.16	nspe-5	coding	2.289497059	0.000139299	0.008557912
185850_at	WBGene00012623	Y38H6C.10	fbxa-149	coding	0.595201348	0.002346198	0.034763381
192608_at	WBGene00012639	Y38H8A.5	Y38H8A.5	coding	0.64094405	0.001262751	0.025675455
183896_at	WBGene00012646	Y39A1A.7	Y39A1A.7	coding	0.496784633	0.003707269	0.04415601
186368_at	WBGene00012654	Y39A1A.16	Y39A1A.16	coding	-0.673875761	0.001124416	0.024029608
185229_at	WBGene00012668	Y39B6A.5	Y39B6A.5	coding	1.084835996	0.000182118	0.010029544
185154_at	WBGene00012704	Y39C12A.1	Y39C12A.1	coding	1.803309272	0.00051845	0.016948557
183663_s_at	WBGene00012755	Y41C4A.8	Y41C4A.8	coding	0.501760885	0.003513719	0.043031466

191219_at	WBGene00012757	Y41C4A.11	Y41C4A.11	coding	1.529469547	0.001843606	0.030892086
186001_s_at	WBGene00012758	Y41C4A.12	Y41C4A.12	coding	0.763440603	0.001040839	0.022826361
186418_at	WBGene00012759	Y41C4A.13	Y41C4A.13	coding	1.651340739	9.88337E-05	0.007227671
193975_at	WBGene00012782	Y43C5A.2	Y43C5A.2	coding	1.068583978	0.000894867	0.021553379
179727_at	WBGene00012783	Y43C5A.3	Y43C5A.3	coding	2.801933815	2.26573E-05	0.0044556
181579_at	WBGene00012802	Y43F4B.3	set-25	coding	-0.676956821	0.001376744	0.026785817
181913_at	WBGene00012802	Y43F4B.3	set-25	coding	-0.487046244	0.003414499	0.042372052
172568_x_at	WBGene00012813	Y43F8B.2	Y43F8B.2	coding	0.828345386	0.001292152	0.025907819
173326_s_at	WBGene00012813	Y43F8B.2	Y43F8B.2	coding	0.943479272	0.001396952	0.027011086
186384_s_at	WBGene00012841	Y43F11A.1	Y43F11A.1	coding	-0.614474069	0.003187123	0.041153688
182843_at	WBGene00012850	Y44A6C.1	Y44A6C.1	coding	0.577124015	0.004440938	0.048464461
180617_s_at	WBGene00012853	Y44A6D.2	Y44A6D.2	coding	0.9386446	0.002691274	0.037767302
184128_s_at	WBGene00012859	Y45F3A.1	Y45F3A.1	coding	-0.793253387	0.001617704	0.029174403
187467_s_at	WBGene00012896	Y46G5A.4	Y46G5A.4	coding	-0.577532994	0.002219788	0.034077117
185215_at	WBGene00012916	Y46G5A.28	Y46G5A.28	coding	-0.728764623	0.001177416	0.024784444
179854_at	WBGene00012923	Y47D3A.2	fbxa-128	coding	0.615222797	0.001773899	0.030304294
191724_at	WBGene00012929	Y47D3A.16	rsks-1	coding	-0.646716474	0.002352174	0.034763381
191933_at	WBGene00012936	Y47D3A.29	Y47D3A.29	coding	-0.486930564	0.00317353	0.04105343
182279_at	WBGene00012947	Y47H9C.1	Y47H9C.1	coding	2.767804059	7.15427E-05	0.006177879
186390_at	WBGene00012961	Y47H10A.5	Y47H10A.5	coding	2.470199588	0.003016923	0.039980697
193926_at	WBGene00012968	Y48A6B.7	Y48A6B.7	coding	2.061229449	9.1181E-05	0.007085503
193927_s_at	WBGene00012968	Y48A6B.7	Y48A6B.7	coding	2.384912029	9.94992E-05	0.007227671
181805_at	WBGene00012987	Y48C3A.3	Y48C3A.3	coding	0.67739803	0.00075203	0.020016369
173221_s_at	WBGene00013018	Y48G10A.1	Y48G10A.1	coding	-0.651316469	0.002435262	0.035507702
189730_at	WBGene00013018	Y48G10A.1	Y48G10A.1	coding	-0.575359755	0.002782384	0.038485339
173373_s_at	WBGene00013019	Y48G10A.2	Y48G10A.2	coding	1.74852511	0.000230797	0.011314993
184568_at	WBGene00013019	Y48G10A.2	Y48G10A.2	coding	1.598919134	0.0004808	0.016393995
184698_at	WBGene00013035	Y49E10.16	Y49E10.16	coding	0.725598834	0.002420619	0.035373624
173412_s_at	WBGene00013077	Y51A2D.9	ttr-24	coding	1.19395411	0.000963705	0.022225177
191333_at	WBGene00013079	Y51A2D.11	ttr-26	coding	4.644690334	1.39029E-05	0.003806289
180128_at	WBGene00013104	Y51H4A.8	Y51H4A.8	coding	1.172021031	0.000114867	0.007828437
181216_s_at	WBGene00013181	Y53H1B.2	Y53H1B.2	coding	1.657997105	0.000133249	0.008437975
180099_s_at	WBGene00013200	Y54E5A.5	Y54E5A.5	coding	0.517349083	0.003272733	0.041587783
184804_at	WBGene00013215	Y54G11A.4	Y54G11A.4	coding	1.97842744	3.66866E-05	0.004923881
184574_at	WBGene00013222	Y54G11B.1	Y54G11B.1	coding	0.662422232	0.001023077	0.022765344
184994_s_at	WBGene00013236	Y56A3A.18	Y56A3A.18	coding	0.525679366	0.002253695	0.034394828
186108_at	WBGene00013292	Y57G11A.4	Y57G11A.4	coding	1.139225647	0.002341716	0.034763381
184948_at	WBGene00013295	Y57G11B.2	Y57G11B.2	coding	0.913931703	0.000322966	0.013411032
182294_at	WBGene00013359	Y60A3A.8	Y60A3A.8	coding	0.886334294	0.000997083	0.022483195
175124_at	WBGene00013448	Y66D12A.24	Y66D12A.24	coding	0.566805915	0.003517528	0.043031466
177490_at	WBGene00013481	Y69H2.3	Y69H2.3	coding	1.810232367	0.000225045	0.01120727
182787_s_at	WBGene00013481	Y69H2.3	Y69H2.3	coding	2.986531472	6.67556E-06	0.003059368
177665_at	WBGene00013482	Y69H2.7	Y69H2.7	coding	-3.026007479	1.51453E-06	0.002579258
184098_s_at	WBGene00013515	Y73F4A.2	Y73F4A.2	coding	1.490468598	0.000970239	0.022273976
180975_at	WBGene00013580	Y79H2A.3	Y79H2A.3	coding	-0.536856186	0.002699368	0.037811055
174834_at	WBGene00013591	Y81G3A.3	gcn-2	coding	-0.461809339	0.003957166	0.045706421
192834_at	WBGene00013591	Y81G3A.3	gcn-2	coding	-0.6821403	0.002246116	0.03434253
179868_at	WBGene00013592	Y81G3A.4	Y81G3A.4	coding	1.164673118	0.000315369	0.013276952
173410_s_at	WBGene00013593	Y87G2A.1	Y87G2A.1	coding	-1.124349621	8.86912E-05	0.007085503
181535_at	WBGene00013593	Y87G2A.1	Y87G2A.1	coding	-1.060060019	0.000129446	0.008336096
181922_at	WBGene00013595	Y87G2A.3	atg-4.1	coding	-0.914787496	0.000595933	0.017970228
185737_at	WBGene00013606	Y102A5A.1	cand-1	coding	-0.593288274	0.001836996	0.030892086
193291_at	WBGene00013609	Y102A5B.3	clec-37	coding	-0.788364299	0.000445491	0.015745519
186612_at	WBGene00013623	Y102A5C.19	fbxa-90	coding	1.206389184	0.000980316	0.022303662
172627_x_at	WBGene00013636	Y105C5A.12	Y105C5A.12	coding	4.18722689	9.42524E-07	0.002579258
190970_s_at	WBGene00013704	Y106G6D.8	Y106G6D.8	coding	1.443129354	0.000212118	0.010817996
193299_at	WBGene00013708	Y106G6E.4	Y106G6E.4	coding	0.566522346	0.001751681	0.03013232
185688_at	WBGene00013721	Y106G6H.9	Y106G6H.9	coding	-0.978802338	0.000407996	0.015235197
174156_s_at	WBGene00013735	Y111B2A.12	Y111B2A.12	coding	0.975061696	0.003048983	0.040050511

186826_at	WBGene00013735	Y111B2A.12	Y111B2A.12	coding	0.91536611	0.004483174	0.048737685
193715_at	WBGene00013736	Y111B2A.13	Y111B2A.13	coding	0.735324141	0.000741515	0.019846116
186945_s_at	WBGene00013799	Y116A8C.22	Y116A8C.22	coding	-0.850506334	0.000971622	0.022273976
186969_at	WBGene00013806	Y116A8C.29	Y116A8C.29	coding	1.045862385	0.000144277	0.008770912
188735_at	WBGene00013816	Y116F11A.1	Y116F11A.1	coding	-0.751819211	0.001008898	0.022615381
193095_at	WBGene00013846	ZC84.1	ZC84.1	coding	-0.710634609	0.002389597	0.035055105
186937_at	WBGene00013856	ZC168.2	ZC168.2	coding	1.633538652	0.000151825	0.009048793
190988_at	WBGene00013882	ZC410.5	ZC410.5	coding	1.030933415	0.000412182	0.015305255
191502_at	WBGene00013900	ZC443.5	ugt-18	coding	1.449356554	0.001567516	0.028857959
186811_s_at	WBGene00014000	ZK550.6	ZK550.6	coding	0.496475417	0.003339197	0.042010862
177660_at	WBGene00014006	ZK596.1	ZK596.1	coding	1.232892007	0.001191833	0.024930514
179401_at	WBGene00014039	ZK662.2	ZK662.2	coding	1.083432416	0.000875435	0.021390444
179048_at	WBGene00014081	ZK795.1	ZK795.1	coding	0.893846129	0.000532362	0.01704258
179528_at	WBGene00014108	ZK856.7	ZK856.7	coding	0.559786707	0.002302932	0.034756657
177681_s_at	WBGene00014136	ZK896.5	ZK896.5	coding	0.59320618	0.003993247	0.045907237
189160_at	WBGene00014138	ZK896.7	clec-186	coding	0.566953682	0.00180147	0.030538741
178393_at	WBGene00014140	ZK899.1	ZK899.1	coding	1.429591972	0.000581656	0.017751035
178397_s_at	WBGene00014143	ZK899.5	ZK899.5	coding	-0.472876341	0.004454807	0.048498677
193893_at	WBGene00014148	ZK909.3	ZK909.3	coding	1.982520713	0.000370575	0.014478134
188734_at	WBGene00014164	ZK945.1	lact-2	coding	1.20149498	0.001140932	0.02431962
190720_at	WBGene00014171	ZK970.1	ZK970.1	coding	0.73058977	0.001057402	0.022990543
190585_at	WBGene00014173	ZK970.7	ZK970.7	coding	5.043551461	1.42686E-05	0.003806289
183696_at	WBGene00014178	ZK1010.4	ZK1010.4	coding	0.986386484	0.000951924	0.022213328
184102_s_at	WBGene00014182	ZK1025.2	ZK1025.2	coding	2.380269438	9.68783E-06	0.003493501
182104_at	WBGene00014183	ZK1025.3	ZK1025.3	coding	3.011511302	2.3901E-06	0.002579258
180920_s_at	WBGene00014194	ZK1037.6	ZK1037.6	coding	2.334273752	0.000423403	0.015357722
189721_at	WBGene00014233	ZK1128.7	ZK1128.7	coding	0.804457068	0.002966796	0.03963363
192943_at	WBGene00014241	ZK1251.3	ZK1251.3	coding	0.883428973	0.000424561	0.015363051
187260_s_at	WBGene00014252	ZK1320.2	ZK1320.2	coding	0.994585707	0.001157797	0.024575687
187245_s_at	WBGene00014253	ZK1320.3	ZK1320.3	coding	1.242361215	0.003235042	0.041414554
191494_s_at	WBGene00014258	ZK1320.9	ZK1320.9	coding	0.725364566	0.00178876	0.03041055
179820_s_at	WBGene00014262	ZK1321.4	ZK1321.4	coding	0.735088391	0.000721877	0.01968072
174393_at	WBGene00014793	H40L08.2	H40L08.2	coding	1.214847848	0.000648512	0.018702237
190114_at	WBGene00014826	R13H4.2	R13H4.2	coding	1.4747107	0.000516007	0.016937966
175195_at	WBGene00014836	T09F5.12	T09F5.12	coding	1.067429333	0.000841344	0.021135108
181142_at	WBGene00015002	B0034.1	B0034.1	coding	1.494296193	2.45438E-05	0.004548985
189457_at	WBGene00015044	B0213.15	cyp-34A9	coding	0.448750194	0.004622785	0.049318157
188343_at	WBGene00015048	B0218.2	faah-2	coding	1.1254637	0.000243852	0.011680425
180562_at	WBGene00015052	B0218.8	clec-52	coding	2.313978734	0.000270414	0.012280427
185026_at	WBGene00015076	B0238.12	B0238.12	coding	2.217897661	0.000105076	0.007462377
173945_s_at	WBGene00015128	B0303.7	B0303.7	coding	0.592066418	0.00153592	0.028636206
173204_s_at	WBGene00015141	B0310.5	ugt-46	coding	0.568829863	0.001972614	0.031859505
187570_at	WBGene00015142	B0310.6	B0310.6	coding	1.308231538	0.000314455	0.013276952
183142_at	WBGene00015152	B0348.2	B0348.2	coding	1.106688712	0.00246066	0.03568427
175095_at	WBGene00015172	B0410.3	B0410.3	coding	1.101727946	0.00021598	0.010883492
187512_at	WBGene00015179	B0416.3	B0416.3	coding	1.008678702	0.002969372	0.03963363
187483_at	WBGene00015182	B0416.7	B0416.7	coding	2.138032448	3.20049E-05	0.004923881
189040_at	WBGene00015264	B0563.7	B0563.7	coding	1.078192302	0.000492902	0.01653933
185295_s_at	WBGene00015278	C01B10.3	C01B10.3	coding	2.277206354	0.000147189	0.008876924
173737_at	WBGene00015295	C01C10.3	acl-12	coding	0.642433466	0.002218442	0.034077117
187734_s_at	WBGene00015295	C01C10.3	acl-12	coding	0.598360455	0.001606502	0.029066206
187168_s_at	WBGene00015321	C02B8.2	fbxc-38	coding	-0.690434972	0.002133375	0.033494868
189065_at	WBGene00015332	C02C2.1	tyr-1	coding	1.473265739	0.000232907	0.011345274
174177_at	WBGene00015350	C02F5.7	C02F5.7	coding	0.538513853	0.004353974	0.047985278
191772_at	WBGene00015350	C02F5.7	C02F5.7	coding	0.514214616	0.004514578	0.04886934
176757_at	WBGene00015354	C02F12.3	C02F12.3	coding	1.391908025	0.000836678	0.021116003
176803_at	WBGene00015382	C03B1.14	C03B1.14	coding	0.972704702	0.000708781	0.019444147
172657_x_at	WBGene00015385	C03B8.2	C03B8.2	coding	0.594797824	0.003945739	0.045674531
185286_at	WBGene00015398	C03G6.13	tag-293	coding	1.884434949	1.77239E-05	0.004092051

181946_at	WBGene00015403	C03H5.1	clec-10	coding	0.65576147	0.001241438	0.025496457
181947_s_at	WBGene00015403	C03H5.1	clec-10	coding	1.069410382	0.000773914	0.020201655
180233_s_at	WBGene00015423	C04E6.7	C04E6.7	coding	0.810101203	0.001920378	0.031484253
184285_at	WBGene00015437	C04E12.7	scrm-3	coding	0.721228029	0.000699575	0.0192263
191543_at	WBGene00015455	C04G6.5	C04G6.5	coding	1.176801224	0.000403132	0.01509064
185566_at	WBGene00015494	C05E11.3	C05E11.3	coding	0.518590542	0.003214871	0.041301449
183766_at	WBGene00015499	C06A5.1	C06A5.1	coding	-0.680274498	0.000815969	0.020842174
183120_at	WBGene00015545	C06G1.1	C06G1.1	coding	0.527089454	0.004070653	0.046375741
183269_s_at	WBGene00015577	C07G3.9	ugt-64	coding	-0.732099997	0.003572427	0.043261953
172309_x_at	WBGene00015593	C08E3.1	C08E3.1	coding	4.097262922	2.35069E-05	0.0044556
185434_at	WBGene00015602	C08E3.10	fbxa-158	coding	1.356077901	0.000856781	0.021242022
172565_x_at	WBGene00015605	C08E3.13	C08E3.13	coding	3.342099291	7.08508E-06	0.003059368
180495_at	WBGene00015621	C09B7.2	C09B7.2	coding	0.552782261	0.001788856	0.03041055
181956_at	WBGene00015645	C09E8.2	lips-7	coding	0.816066682	0.002095165	0.033073376
181793_at	WBGene00015646	C09E8.3	mlt-10	coding	-0.508196799	0.004171532	0.046892709
174580_at	WBGene00015650	C09G4.2	C09G4.2	coding	1.368680912	3.42808E-05	0.004923881
191979_at	WBGene00015650	C09G4.2	C09G4.2	coding	1.438757312	3.37369E-05	0.004923881
188162_at	WBGene00015660	C09H5.2	catp-3	coding	1.837999754	0.000480148	0.016393995
188163_s_at	WBGene00015660	C09H5.2	catp-3	coding	1.656924547	0.000524969	0.017041082
183526_at	WBGene00015759	C14C6.5	C14C6.5	coding	2.315551553	7.00409E-05	0.006153076
183527_s_at	WBGene00015759	C14C6.5	C14C6.5	coding	2.09004738	9.11769E-05	0.007085503
183089_at	WBGene00015791	C15C7.5	C15C7.5	coding	0.623803662	0.001868964	0.031009294
175267_at	WBGene00015805	C15H9.11	C15H9.11	coding	1.607757382	0.000157248	0.009191749
182754_at	WBGene00015823	C16B8.3	C16B8.3	coding	0.96950046	0.004409137	0.048312953
184261_at	WBGene00015852	C16C8.14	C16C8.14	coding	-0.503837769	0.003872601	0.045308541
175122_at	WBGene00015857	C16D9.1	C16D9.1	coding	2.60277625	0.001278023	0.025794673
182108_at	WBGene00015857	C16D9.1	C16D9.1	coding	2.229559703	0.003969414	0.045798316
180379_s_at	WBGene00015913	C17F4.7	C17F4.7	coding	1.618921953	0.000344178	0.013765289
184533_at	WBGene00015933	C17H12.8	C17H12.8	coding	2.233025131	0.000357608	0.014080104
184534_s_at	WBGene00015933	C17H12.8	C17H12.8	coding	2.1277955	0.001252054	0.02564517
187029_at	WBGene00015935	C17H12.10	C17H12.10	coding	1.620321815	0.000679811	0.018941669
184853_at	WBGene00015947	C18A11.1	C18A11.1	coding	1.805943673	1.85782E-05	0.004092051
184562_at	WBGene00015948	C18A11.2	C18A11.2	coding	1.06275051	0.000425624	0.015364922
179959_at	WBGene00015954	C18B2.3	C18B2.3	coding	0.71389033	0.002389396	0.035055105
179922_s_at	WBGene00015955	C18B2.4	C18B2.4	coding	0.810662994	0.000566795	0.017437562
181643_at	WBGene00015980	C18G1.1	C18G1.1	coding	0.631889115	0.00422263	0.047223692
181199_at	WBGene00015993	C18H7.1	C18H7.1	coding	1.212401048	5.84052E-05	0.005804522
192648_at	WBGene00016003	C18H9.5	C18H9.5	coding	1.721791193	0.000758763	0.020160277
185951_at	WBGene00016008	C23F12.3	C23F12.3	coding	0.525470058	0.002632078	0.03707841
186448_at	WBGene00016009	C23F12.4	C23F12.4	coding	0.511462859	0.002561491	0.036497169
182261_at	WBGene00016018	C23H3.2	C23H3.2	coding	1.140817172	0.001705668	0.029796251
181967_at	WBGene00016028	C24A1.1	flp-24	coding	1.038336188	0.000388339	0.014795181
181559_at	WBGene00016033	C24A3.2	C24A3.2	coding	0.642455791	0.004668154	0.049522313
185721_at	WBGene00016095	C25E10.5	C25E10.5	coding	1.975044004	3.1442E-05	0.004923881
185690_at	WBGene00016097	C25E10.8	C25E10.8	coding	3.086094525	6.45034E-05	0.005892766
186880_at	WBGene00016099	C25E10.10	C25E10.10	coding	1.383245046	0.000423373	0.015357722
174294_at	WBGene00016106	C25F6.7	C25F6.7	coding	0.457106836	0.004078242	0.046375741
184624_s_at	WBGene00016119	C25H3.10	C25H3.10	coding	3.971569309	8.83581E-05	0.007085503
175093_at	WBGene00016136	C26B9.7	C26B9.7	coding	0.607964605	0.003810676	0.044895086
189263_at	WBGene00016147	C26F1.2	cyp-32A1	coding	1.216335322	0.000160591	0.009244951
189264_s_at	WBGene00016147	C26F1.2	cyp-32A1	coding	2.492802868	5.50282E-05	0.005689244
183214_at	WBGene00016150	C26F1.7	hint-3	coding	0.943762511	0.000550464	0.017249388
191777_at	WBGene00016173	C27H5.3	fust-1	coding	-0.508813868	0.003532635	0.043089079
185803_at	WBGene00016180	C28C12.4	C28C12.4	coding	0.93401254	0.000801468	0.020575518
187165_at	WBGene00016181	C28C12.11	C28C12.11	coding	0.716725138	0.000768841	0.020201655
188840_s_at	WBGene00016189	C28G1.4	C28G1.4	coding	-0.55195874	0.003433011	0.042458435
187278_at	WBGene00016196	C28H8.5	C28H8.5	coding	1.520147838	8.09596E-05	0.006650937
192112_s_at	WBGene00016201	C28H8.11	C28H8.11	coding	0.780497922	0.001659653	0.029535601
176437_at	WBGene00016262	C30F12.3	C30F12.3	coding	0.991168022	0.000290935	0.012816326

193390_at	WBGene00016293	C31H2.3	C31H2.3	coding	0.716525554	0.000852365	0.02120412
179761_at	WBGene00016297	C32B5.4	fbxc-15	coding	-0.592468288	0.0034672	0.04277151
180091_at	WBGene00016321	C32E8.3	C32E8.3	coding	0.61209844	0.00166494	0.029595037
174502_s_at	WBGene00016330	C32E12.4	C32E12.4	coding	-0.634364703	0.003788984	0.044743574
185969_s_at	WBGene00016332	C32F10.4	C32F10.4	coding	1.025844194	0.00067155	0.018880387
183569_at	WBGene00016362	C33G8.4	C33G8.4	coding	0.521248324	0.003436233	0.042458435
184393_at	WBGene00016379	C33H5.13	C33H5.13	coding	1.137697003	0.000684349	0.018944877
174951_at	WBGene00016407	C34D10.2	C34D10.2	coding	1.026879518	0.000880366	0.02145427
184546_s_at	WBGene00016417	C34F11.8	C34F11.8	coding	1.782808331	0.000852462	0.02120412
183115_at	WBGene00016425	C34H4.2	C34H4.2	coding	1.29999267	8.0359E-05	0.006650937
189773_s_at	WBGene00016431	C35A11.4	C35A11.4	coding	0.899710824	0.001065631	0.02307045
175059_at	WBGene00016436	C35B1.7	C35B1.7	coding	0.477365171	0.004710046	0.049572913
190499_s_at	WBGene00016450	C35D10.14	clec-5	coding	0.954460953	0.000769044	0.020201655
173323_at	WBGene00016453	C35E7.1	vet-2	coding	-0.649353741	0.004574524	0.049133296
172811_x_at	WBGene00016462	C35E7.10	C35E7.10	coding	-0.645257938	0.002887661	0.039018345
172814_x_at	WBGene00016462	C35E7.10	C35E7.10	coding	-0.675518816	0.0018484	0.030892922
181164_at	WBGene00016507	C37H5.3	C37H5.3	coding	0.852851788	0.000413152	0.015305255
185630_at	WBGene00016533	C39D10.6	C39D10.6	coding	0.84869074	0.001100562	0.023759006
184305_at	WBGene00016563	C41D11.4	C41D11.4	coding	-0.655433141	0.00399828	0.045930352
180540_at	WBGene00016596	C42D4.3	C42D4.3	coding	4.271953859	2.48582E-05	0.004551743
173930_s_at	WBGene00016630	C44B7.10	C44B7.10	coding	0.695425266	0.001030893	0.022826361
176691_at	WBGene00016658	C45B2.1	C45B2.1	coding	1.651125539	8.40266E-05	0.006829068
176680_at	WBGene00016659	C45B2.2	C45B2.2	coding	5.08530239	5.45066E-05	0.005673909
176784_s_at	WBGene00016706	C46C11.3	C46C11.3	coding	0.483624584	0.004628818	0.049332939
192363_at	WBGene00016716	C46F4.2	acs-17	coding	0.529172527	0.003825443	0.044999296
183550_at	WBGene00016721	C46G7.1	C46G7.1	coding	0.847445157	0.001469099	0.027839617
184268_s_at	WBGene00016733	C46H11.9	phat-2	coding	0.8151236	0.002813877	0.03874549
176006_at	WBGene00016735	C46H11.11	fhod-1	coding	-0.730357322	0.000591456	0.01790627
182249_at	WBGene00016738	C47D2.1	C47D2.1	coding	0.696473474	0.000830635	0.021116003
174347_s_at	WBGene00016769	C49C8.5	C49C8.5	coding	0.866636116	0.000541902	0.017122316
180177_at	WBGene00016781	C49G7.3	C49G7.3	coding	1.771380984	0.000155207	0.009107466
182713_s_at	WBGene00016782	C49G7.4	phat-3	coding	1.777116826	5.0352E-05	0.005493978
180192_at	WBGene00016783	C49G7.5	irg-2	coding	1.545803386	0.002033015	0.032455639
184711_at	WBGene00016788	C49G7.10	C49G7.10	coding	4.791408207	2.97216E-05	0.004923881
180079_at	WBGene00016840	C50F2.7	C50F2.7	coding	1.148529388	0.000433525	0.015613063
183381_at	WBGene00016845	C50F7.5	C50F7.5	coding	2.879369251	5.02991E-05	0.005493978
188156_at	WBGene00016862	C52A10.1	C52A10.1	coding	3.516313189	4.13232E-05	0.005058446
180650_at	WBGene00016866	C52B9.3	coel-1	coding	1.055792851	0.001283413	0.025834855
173138_s_at	WBGene00016894	C53B7.3	C53B7.3	coding	2.306992569	3.32421E-06	0.002579258
180628_at	WBGene00016894	C53B7.3	C53B7.3	coding	1.974294987	3.24478E-05	0.004923881
174173_at	WBGene00016898	C53C9.2	C53C9.2	coding	1.658230897	0.000593929	0.01794539
187500_at	WBGene00016898	C53C9.2	C53C9.2	coding	0.918557078	0.000331283	0.013519827
186365_at	WBGene00016900	C53C11.2	C53C11.2	coding	0.873480194	0.001677922	0.029686919
180064_at	WBGene00016915	C54D2.1	C54D2.1	coding	0.617199014	0.00197064	0.031859505
172880_x_at	WBGene00016954	C55C3.4	C55C3.4	coding	-0.626884276	0.003173956	0.04105343
180840_at	WBGene00016958	C55F2.2	ilys-4	coding	1.419475947	0.000616646	0.018204122
187267_at	WBGene00016977	C56G2.1	C56G2.1	coding	-0.962596601	0.000608669	0.018173957
182186_at	WBGene00016999	D1005.5	D1005.5	coding	1.483439491	0.001823926	0.030731745
176025_at	WBGene00017041	D2007.1	D2007.1	coding	1.176197166	0.000184297	0.010051863
187178_s_at	WBGene00017054	D2024.7	gstk-2	coding	0.504165055	0.002888251	0.039018345
180123_at	WBGene00017066	D2092.5	D2092.5	coding	-0.75703915	0.001231222	0.025389573
187176_s_at	WBGene00017073	D2096.6	D2096.6	coding	0.85615176	0.002210173	0.034062519
183473_at	WBGene00017076	D2096.9	D2096.9	coding	0.802087905	0.00138161	0.026816998
185220_s_at	WBGene00017078	D2096.11	D2096.11	coding	-0.536368524	0.002731113	0.038070947
182723_at	WBGene00017126	E04F6.6	E04F6.6	coding	0.865707386	0.002915359	0.039245022
182486_at	WBGene00017127	E04F6.8	E04F6.8	coding	3.245087421	1.66992E-06	0.002579258
192171_at	WBGene00017135	EEED8.4	EEED8.4	coding	-0.584712431	0.001801565	0.030538741
192172_s_at	WBGene00017135	EEED8.4	EEED8.4	coding	-0.546214509	0.002417723	0.03536531
172898_x_at	WBGene00017140	EEED8.12	EEED8.12	coding	-0.51751984	0.003263553	0.041575423

183206_at	WBGene00017197	F07C3.9	F07C3.9	coding	0.573591254	0.003166193	0.041036706
183989_at	WBGene00017226	F07G6.7	fbxa-53	coding	1.411854929	0.0039165	0.045560053
182176_at	WBGene00017227	F07G6.8	F07G6.8	coding	0.440637104	0.004709659	0.049572913
175114_s_at	WBGene00017262	F08F3.4	F08F3.4	coding	1.741428041	0.000388764	0.014795181
183676_s_at	WBGene00017270	F08F8.5	numr-1	coding	3.83102196	3.59413E-05	0.004923881
185985_s_at	WBGene00017296	F09E10.6	F09E10.6	coding	0.618839572	0.001423176	0.027315592
185051_at	WBGene00017297	F09E10.7	F09E10.7	coding	1.30379112	0.000387495	0.014795181
172344_x_at	WBGene00017305	F09F7.8	nspb-12	coding	2.404814446	0.000118221	0.007982145
185335_at	WBGene00017335	F10D2.10	F10D2.10	coding	0.55313544	0.00397882	0.045810689
181682_at	WBGene00017338	F10D7.1	F10D7.1	coding	0.813358579	0.000646395	0.018702237
174632_at	WBGene00017342	F10D7.5	F10D7.5	coding	0.464651852	0.004383139	0.048224543
181978_at	WBGene00017343	F10E7.1	F10E7.1	coding	-0.475814838	0.004054356	0.046355741
183822_s_at	WBGene00017344	F10E7.2	F10E7.2	coding	-0.586530636	0.001878089	0.031092809
175175_at	WBGene00017361	F10E9.12	F10E9.12	coding	1.341917003	0.000182392	0.010029544
173633_at	WBGene00017372	F10G7.9	F10G7.9	coding	-0.648532316	0.001378241	0.026785817
180070_s_at	WBGene00017372	F10G7.9	F10G7.9	coding	-0.692667038	0.002338476	0.034763381
180766_at	WBGene00017418	F13B6.3	F13B6.3	coding	0.853446267	0.000511533	0.016827455
182515_at	WBGene00017420	F13B9.2	F13B9.2	coding	0.63272781	0.001100347	0.023759006
181532_at	WBGene00017437	F13H8.4	nmgp-1	coding	1.017869468	0.000435591	0.015650381
181117_at	WBGene00017445	F14B8.2	F14B8.2	coding	0.727811991	0.001258668	0.025674383
176786_at	WBGene00017471	F14H12.3	F14H12.3	coding	1.458511424	3.01372E-05	0.004923881
176787_s_at	WBGene00017471	F14H12.3	F14H12.3	coding	1.760364894	3.12003E-05	0.004923881
173658_at	WBGene00017478	F15A8.6	F15A8.6	coding	0.585319775	0.00174106	0.03000072
181539_at	WBGene00017504	F16B4.2	F16B4.2	coding	1.44448471	0.001779629	0.030321523
183062_at	WBGene00017506	F16B4.4	F16B4.4	coding	4.123238078	5.7763E-06	0.003059368
190872_at	WBGene00017510	F16B4.9	nhr-178	coding	0.806131047	0.002704897	0.037853611
181264_at	WBGene00017513	F16F9.1	F16F9.1	coding	0.636593546	0.001363045	0.026695312
188201_at	WBGene00017515	F16F9.4	F16F9.4	coding	0.539463754	0.003472809	0.042805957
186158_at	WBGene00017530	F16H11.1	F16H11.1	coding	1.075016776	0.000465005	0.016082871
186304_at	WBGene00017574	F18F11.1	F18F11.1	coding	0.599683187	0.00151366	0.028353017
182444_at	WBGene00017582	F18G5.6	F18G5.6	coding	1.024486617	0.000929607	0.022075261
186930_s_at	WBGene00017606	F19F10.10	F19F10.10	coding	-0.488188665	0.003886522	0.045349943
187406_s_at	WBGene00017607	F19F10.11	F19F10.11	coding	-0.517161306	0.002972913	0.03963363
187477_s_at	WBGene00017607	F19F10.11	F19F10.11	coding	-0.722296774	0.003396044	0.042372052
172426_x_at	WBGene00017613	F20A1.1	F20A1.1	coding	0.527664996	0.003839182	0.045125974
186043_at	WBGene00017621	F20A1.10	F20A1.10	coding	2.191199909	4.6585E-05	0.005283579
181957_at	WBGene00017628	F20B6.4	F20B6.4	coding	0.532670157	0.004673725	0.049522313
189488_at	WBGene00017637	F20D6.8	F20D6.8	coding	0.544525338	0.003717629	0.044244736
185628_at	WBGene00017663	F21D12.3	F21D12.3	coding	0.659689223	0.001055744	0.022987387
183815_at	WBGene00017667	F21E9.3	ttr-37	coding	0.965351412	0.001935673	0.031607245
184150_at	WBGene00017671	F21F3.1	pgal-1	coding	1.204743483	0.000137009	0.008520185
187282_at	WBGene00017698	F22B7.9	F22B7.9	coding	0.534361373	0.004049021	0.046338124
184400_at	WBGene00017726	F22H10.2	F22H10.2	coding	2.450385559	5.94658E-06	0.003059368
184289_at	WBGene00017727	F22H10.3	F22H10.3	coding	2.09455161	3.59167E-05	0.004923881
179826_s_at	WBGene00017738	F23C8.9	F23C8.9	coding	-0.581518914	0.002451091	0.03558613
190070_at	WBGene00017747	F23F1.6	F23F1.6	coding	0.624154519	0.001272353	0.025748637
176007_at	WBGene00017764	F25A2.1	F25A2.1	coding	0.967290997	0.000873316	0.021390444
183450_at	WBGene00017772	F25B4.9	clec-1	coding	2.099014296	2.01168E-05	0.004239314
189616_at	WBGene00017798	F25G6.7	F25G6.7	coding	-0.456229678	0.004498699	0.048792389
189058_at	WBGene00017806	F26A1.8	F26A1.8	coding	0.864745609	0.001046593	0.022860953
172564_x_at	WBGene00017813	F26A10.1	F26A10.1	coding	1.091478519	0.000465618	0.016082871
175037_at	WBGene00017837	F26G1.1	F26G1.1	coding	-0.513478928	0.003541469	0.043127605
181202_at	WBGene00017838	F26G1.2	F26G1.2	coding	2.554130682	5.10861E-06	0.00298618
181052_at	WBGene00017840	F26G1.4	ttm-2	coding	0.65313662	0.002632426	0.03707841
181410_s_at	WBGene00017841	F26G1.5	F26G1.5	coding	1.289928114	0.000204589	0.010685022
185241_at	WBGene00017894	F28B12.1	F28B12.1	coding	0.542343087	0.003758454	0.04455615
189400_s_at	WBGene00017895	F28B12.3	vrk-1	coding	-0.482230062	0.004762023	0.049878171
184744_at	WBGene00017901	F28E10.2	F28E10.2	coding	1.347856086	0.000114346	0.007828057
182304_s_at	WBGene00017909	F28H1.4	F28H1.4	coding	0.575671754	0.00414235	0.046668228

182187_s_at	WBGene00017930	F29G9.1	F29G9.1	coding	-1.627064889	0.000580463	0.017750264
183621_at	WBGene00017964	F31F7.1	F31F7.1	coding	2.114991805	0.000180459	0.010029544
190628_at	WBGene00017970	F32A5.4	F32A5.4	coding	0.791584117	0.001375843	0.026785817
189171_at	WBGene00017971	F32A5.8	F32A5.8	coding	0.71893937	0.000848624	0.02120412
176681_at	WBGene00018031	F35B3.4	F35B3.4	coding	3.393113263	3.44758E-05	0.004923881
174220_at	WBGene00018044	F35D11.3	F35D11.3	coding	0.556596538	0.002847877	0.038852816
185451_at	WBGene00018044	F35D11.3	F35D11.3	coding	0.553340574	0.002859593	0.038895436
183694_at	WBGene00018085	F36A4.8	ttr-20	coding	0.71849943	0.002212114	0.034062519
185415_at	WBGene00018117	F36H12.1	nlp-47	coding	0.921012666	0.001574814	0.0288964
171919_x_at	WBGene00018145	F37C4.5	F37C4.5	coding	1.274132237	9.29958E-05	0.007085503
181941_s_at	WBGene00018145	F37C4.5	F37C4.5	coding	1.352134676	6.36797E-05	0.005892766
194212_x_at	WBGene00018145	F37C4.5	F37C4.5	coding	1.244974546	0.000134375	0.008473987
183407_at	WBGene00018251	F40H3.3	F40H3.3	coding	0.646832257	0.003957735	0.045706421
175470_at	WBGene00018257	F41B4.1	F41B4.1	coding	1.021055286	0.001618241	0.029174403
175918_at	WBGene00018259	F41B4.3	F41B4.3	coding	1.664839239	2.54843E-05	0.004556601
192823_at	WBGene00018268	F41C3.2	F41C3.2	coding	1.485774479	3.21061E-05	0.004923881
180419_at	WBGene00018274	F41C3.8	F41C3.8	coding	0.771370992	0.000617394	0.018204122
183653_at	WBGene00018282	F41D9.2	F41D9.2	coding	0.76001956	0.000892826	0.021553379
172385_x_at	WBGene00018298	F41G3.1	F41G3.1	coding	1.39238472	0.000121751	0.008080227
186159_at	WBGene00018318	F41H10.5	F41H10.5	coding	0.805757989	0.001854588	0.030892922
183902_at	WBGene00018393	F43E2.5	msra-1	coding	2.839174371	3.76034E-05	0.004923881
176773_at	WBGene00018452	F45D11.5	F45D11.5	coding	0.837726136	0.002013062	0.032204754
181827_at	WBGene00018465	F45E1.4	F45E1.4	coding	1.256980738	7.07817E-05	0.006177879
182286_at	WBGene00018465	F45E1.4	F45E1.4	coding	1.18428623	0.000391345	0.014795181
183320_at	WBGene00018470	F45E4.5	F45E4.5	coding	2.43185404	3.16331E-05	0.004923881
185816_at	WBGene00018476	F45E12.6	F45E12.6	coding	0.676176568	0.002888124	0.039018345
186528_s_at	WBGene00018492	F46E10.11	F46E10.11	coding	3.888930802	2.07442E-06	0.002579258
184462_at	WBGene00018510	F46F11.7	F46F11.7	coding	0.685947574	0.000768097	0.020201655
187668_at	WBGene00018562	F47D12.6	F47D12.6	coding	1.081001048	0.000528903	0.017041082
181519_at	WBGene00018565	F47E1.1	F47E1.1	coding	0.920255155	0.002349489	0.034763381
182681_at	WBGene00018590	F48B9.4	nlp-37	coding	0.959476053	0.000282398	0.012586174
189786_at	WBGene00018591	F48B9.5	npax-2	coding	1.331338019	0.000562172	0.017412754
180925_at	WBGene00018643	F49F1.1	F49F1.1	coding	0.534130933	0.003080864	0.040329857
180727_at	WBGene00018645	F49F1.5	F49F1.5	coding	1.076479261	0.002257443	0.034394828
180973_at	WBGene00018646	F49F1.6	F49F1.6	coding	0.746748145	0.003039838	0.040050511
181132_s_at	WBGene00018647	F49F1.7	F49F1.7	coding	0.954715194	0.00035222	0.013951734
184820_at	WBGene00018655	F49H12.4	F49H12.4	coding	0.469122412	0.003514854	0.043031466
182037_at	WBGene00018690	F52D2.8	fbxa-46	coding	-1.026771546	0.000892422	0.021553379
191287_at	WBGene00018696	F52E1.8	pho-6	coding	1.173885125	0.001004049	0.022573274
180261_s_at	WBGene00018702	F52E4.5	F52E4.5	coding	1.845625911	3.77977E-05	0.004923881
180453_at	WBGene00018724	F53A9.1	F53A9.1	coding	2.78671967	2.62929E-06	0.002579258
180642_at	WBGene00018725	F53A9.2	F53A9.2	coding	3.830899958	5.37383E-06	0.003024868
172363_x_at	WBGene00018729	F53A9.6	F53A9.6	coding	3.841024334	9.55965E-07	0.002579258
180612_s_at	WBGene00018731	F53A9.8	F53A9.8	coding	2.809352182	1.13625E-05	0.003754078
187402_at	WBGene00018732	F53A9.9	F53A9.9	coding	1.854157231	0.000105893	0.007485405
186288_at	WBGene00018734	F53A10.2	F53A10.2	coding	-0.580378817	0.001632353	0.029289854
178695_at	WBGene00018744	F53B3.6	F53B3.6	coding	1.786039784	3.45958E-05	0.004923881
182777_at	WBGene00018749	F53C3.5	F53C3.5	coding	0.797876767	0.002179124	0.033794211
176586_s_at	WBGene00018776	F53H1.1	F53H1.1	coding	-0.609740714	0.003315222	0.041862085
188547_at	WBGene00018776	F53H1.1	F53H1.1	coding	-0.68082284	0.001467132	0.027837039
188548_s_at	WBGene00018776	F53H1.1	F53H1.1	coding	-0.99811912	0.000722585	0.01968072
181792_s_at	WBGene00018778	F53H1.4	F53H1.4	coding	-0.763248788	0.000774243	0.020201655
172583_x_at	WBGene00018803	F54D10.2	fbxa-24	coding	1.536251462	0.001945434	0.031689926
180150_at	WBGene00018823	F54E2.1	F54E2.1	coding	2.460376579	6.47514E-05	0.005892766
187829_s_at	WBGene00018874	F55C12.7	tag-234	coding	1.326496591	0.000468852	0.016157852
180613_at	WBGene00018899	F55G1.1	F55G1.1	coding	0.538070864	0.002520754	0.036107841
173302_at	WBGene00018900	F55G1.4	rod-1	coding	-0.662243311	0.001385052	0.026849517
181020_at	WBGene00018900	F55G1.4	rod-1	coding	-0.741573791	0.004087307	0.046375741
192024_s_at	WBGene00018915	F56A4.7	str-267	coding	1.760413153	1.98844E-05	0.004239314

176756_s_at	WBGene00018921	F56A6.1	sago-2	coding	0.732554177	0.002098037	0.033073376
180806_at	WBGene00018945	F56C3.8	F56C3.8	coding	1.600838741	4.27458E-05	0.005058446
180704_at	WBGene00018946	F56C3.9	F56C3.9	coding	0.887349158	0.00169597	0.029796251
183940_at	WBGene00018966	F56D2.5	F56D2.5	coding	1.353923883	0.002690551	0.037767302
181565_at	WBGene00018971	F56D6.2	clec-67	coding	1.176210186	0.000884782	0.021477022
189049_s_at	WBGene00018984	F56F10.1	F56F10.1	coding	0.560290219	0.003555817	0.043198485
190361_s_at	WBGene00018986	F56F10.3	cdo-1	coding	1.393310849	0.002384871	0.035055105
192239_at	WBGene00018997	F57B9.3	F57B9.3	coding	0.631504124	0.004254609	0.047405827
185943_at	WBGene00019002	F57B10.4	F57B10.4	coding	-0.707511081	0.000844335	0.021175257
187735_at	WBGene00019011	F57C9.4	F57C9.4	coding	-0.596980877	0.003940172	0.045674531
181855_at	WBGene00019022	F58A6.1	F58A6.1	coding	0.587395284	0.002098735	0.033073376
184706_at	WBGene00019045	F58E1.14	fbxb-47	coding	-0.56216916	0.002090327	0.033073376
183014_at	WBGene00019090	F59A7.2	F59A7.2	coding	1.020644475	0.000192397	0.010259836
185802_at	WBGene00019111	F59E11.5	F59E11.5	coding	0.910725447	0.00051856	0.016948557
185185_at	WBGene00019113	F59E11.7	F59E11.7	coding	2.789177809	1.32986E-05	0.003806289
174168_s_at	WBGene00019124	F59E12.9	F59E12.9	coding	-0.498288519	0.00304182	0.040050511
185155_at	WBGene00019149	H03E18.2	H03E18.2	coding	1.022933905	0.002514901	0.036069847
176384_at	WBGene00019160	H05L03.3	H05L03.3	coding	1.289822103	0.000246109	0.011680425
185177_at	WBGene00019182	H10E21.1	H10E21.1	coding	0.45426441	0.0045392	0.048941861
185453_at	WBGene00019197	H14A12.5	H14A12.5	coding	1.736167979	0.000264983	0.01225006
185723_at	WBGene00019203	H14N18.3	ttr-47	coding	0.780814548	0.00230144	0.034756657
188980_at	WBGene00019233	H23N18.2	ugt-14	coding	-0.558596561	0.004082026	0.046375741
179758_at	WBGene00019300	K02D7.5	K02D7.5	coding	0.782738198	0.00054744	0.017190056
176252_at	WBGene00019304	K02D10.4	K02D10.4	coding	0.861106675	0.000333452	0.013519827
185649_at	WBGene00019320	K02E10.6	K02E10.6	coding	0.942485854	0.000647866	0.018702237
181450_at	WBGene00019332	K02F3.9	K02F3.9	coding	1.337060859	0.003303654	0.04184078
188439_at	WBGene00019361	K03E5.2	K03E5.2	coding	1.278352986	0.000935783	0.022129941
180627_at	WBGene00019388	K04F1.9	K04F1.9	coding	1.769766093	0.000671077	0.018880387
183702_at	WBGene00019404	K05B2.4	K05B2.4	coding	0.898357024	0.000959331	0.022225177
186179_at	WBGene00019411	K05F1.10	K05F1.10	coding	0.652025134	0.002219133	0.034077117
173277_at	WBGene00019468	K07B1.8	K07B1.8	coding	-1.729816613	0.003046262	0.040050511
191793_at	WBGene00019478	K07C11.5	cri-2	coding	1.566591541	6.08024E-05	0.005811796
186360_at	WBGene00019480	K07C11.8	K07C11.8	coding	1.058747493	0.000246909	0.011680425
180476_at	WBGene00019489	K07E1.1	K07E1.1	coding	1.044499523	0.002352083	0.034763381
183392_at	WBGene00019490	K07E3.1	K07E3.1	coding	-0.611698006	0.002798386	0.038611227
176311_at	WBGene00019538	K08D12.4	K08D12.4	coding	0.659197434	0.001566056	0.028857959
184107_at	WBGene00019564	K09D9.1	K09D9.1	coding	5.142235223	4.54305E-05	0.005230702
173495_at	WBGene00019655	K11G9.5	K11G9.5	coding	1.528035217	0.000636141	0.018592431
179733_s_at	WBGene00019655	K11G9.5	K11G9.5	coding	1.29027152	0.000203269	0.010652702
192003_s_at	WBGene00019656	K11G12.5	K11G12.5	coding	0.480488297	0.003591482	0.043356356
184313_s_at	WBGene00019660	K11H12.4	K11H12.4	coding	1.98651468	0.000107873	0.007555091
184520_at	WBGene00019712	M01E11.3	M01E11.3	coding	-0.677926064	0.003122968	0.040670844
185517_at	WBGene00019713	M01E11.4	pqn-52	coding	0.634941664	0.00228656	0.034657509
184093_at	WBGene00019717	M01H9.1	trx-3	coding	0.866673566	0.000784415	0.020343921
190094_s_at	WBGene00019730	M02D8.4	asns-2	coding	0.860438356	0.000470917	0.016192304
174060_at	WBGene00019734	M02E1.2	M02E1.2	coding	1.234763192	0.000104362	0.007462377
184035_at	WBGene00019738	M02F4.7	clec-265	coding	1.983103844	0.000303436	0.013102214
176002_at	WBGene00019744	M02H5.8	M02H5.8	coding	1.128707765	0.001264761	0.025675455
172447_at	WBGene00019750	M03D4.3	M03D4.3	coding	0.785899599	0.002258589	0.034394828
181683_at	WBGene00019754	M03E7.2	M03E7.2	coding	0.880290529	0.000459267	0.016009049
174254_at	WBGene00019759	M03F4.6	M03F4.6	coding	0.496589668	0.003596844	0.043356356
181713_s_at	WBGene00019759	M03F4.6	M03F4.6	coding	0.459798647	0.004102795	0.046375741
184106_at	WBGene00019761	M03F8.1	M03F8.1	coding	1.121949688	0.000197841	0.010469688
188979_at	WBGene00019770	M04F3.4	M04F3.4	coding	0.527021065	0.002619888	0.037046245
180311_at	WBGene00019772	M04G7.1	M04G7.1	coding	0.638258773	0.002573614	0.036577338
177279_at	WBGene00019780	M60.4	M60.4	coding	2.474134515	1.32783E-05	0.003806289
173685_s_at	WBGene00019781	M60.6	M60.6	coding	1.211815213	0.000268726	0.012280427
180784_at	WBGene00019812	R01H2.4	R01H2.4	coding	0.571249691	0.001621616	0.029200623
184049_at	WBGene00019820	R02D3.2	cogc-8	coding	-0.469691913	0.004435929	0.048464461

193931_at	WBGene00019828	R02E12.4	R02E12.4	coding	0.734845778	0.004096951	0.046375741
186182_s_at	WBGene00019830	R02E12.6	hrg-1	coding	0.54530744	0.002319416	0.034763381
186074_at	WBGene00019858	R03H10.6	R03H10.6	coding	1.094424293	0.000442459	0.015725903
184183_s_at	WBGene00019868	R04B3.3	R04B3.3	coding	0.614564229	0.00454704	0.048941861
175850_at	WBGene00019904	R05G9.2	R05G9.2	coding	0.982544136	0.000553034	0.017258739
175872_at	WBGene00019914	R06B10.3	clec-150	coding	2.616104948	3.01522E-06	0.002579258
186278_at	WBGene00019914	R06B10.3	clec-150	coding	2.759619557	9.39396E-06	0.003493501
189877_at	WBGene00019940	R07G3.3	npp-21	coding	-0.550889952	0.00393577	0.045674531
184612_s_at	WBGene00019953	R08C7.10	wapl-1	coding	-0.460542562	0.004112299	0.046432926
189519_at	WBGene00019967	R08F11.3	cyp-33C8	coding	1.31821435	0.000153422	0.009107466
186072_s_at	WBGene00019968	R08F11.4	R08F11.4	coding	1.102212457	0.000216266	0.010883492
185414_at	WBGene00019988	R09F10.5	R09F10.5	coding	0.590365391	0.003624856	0.043618813
188521_at	WBGene00020004	R11E3.2	R11E3.2	coding	-0.452022653	0.004424591	0.04841248
189802_s_at	WBGene00020007	R11F4.1	R11F4.1	coding	1.069280085	0.000736949	0.019820973
173561_s_at	WBGene00020029	R12C12.9	R12C12.9	coding	0.84275523	0.000914937	0.021880596
172346_x_at	WBGene00020033	R12E2.7	R12E2.7	coding	1.60014415	0.000162134	0.009298519
175990_at	WBGene00020047	R13A5.3	ttr-32	coding	1.778906603	3.85539E-05	0.004923881
176118_at	WBGene00020049	R13A5.6	ttr-8	coding	2.125047356	0.000328057	0.013519827
176360_at	WBGene00020052	R13A5.10	R13A5.10	coding	0.885448247	0.000874909	0.021390444
182871_at	WBGene00020143	T01C8.2	T01C8.2	coding	1.483826371	9.97939E-05	0.007227671
190037_s_at	WBGene00020146	T01C8.5	T01C8.5	coding	0.719944292	0.000924058	0.021977837
191004_at	WBGene00020153	T01G6.6	nhr-212	coding	0.573137855	0.002227278	0.034157586
182325_at	WBGene00020201	T04A6.2	T04A6.2	coding	0.800060413	0.00438823	0.048224543
191002_at	WBGene00020224	T05A7.7	T05A7.7	coding	0.467474211	0.004164245	0.046845442
182235_at	WBGene00020248	T05C1.1	T05C1.1	coding	1.240850338	5.71913E-05	0.005756248
182209_s_at	WBGene00020261	T05E7.5	vet-1	coding	-0.530331365	0.004328027	0.047872897
188532_s_at	WBGene00020263	T05E8.3	T05E8.3	coding	-0.698965719	0.001808409	0.030606022
182457_at	WBGene00020317	T07E3.6	pdf-1	coding	0.808871578	0.003047118	0.040050511
182980_at	WBGene00020341	T08B1.4	T08B1.4	coding	1.148656276	0.000382203	0.014730198
180625_at	WBGene00020345	T08B2.4	T08B2.4	coding	0.899635528	0.001285415	0.025840922
176871_at	WBGene00020346	T08B2.5	T08B2.5	coding	-0.465638076	0.004059711	0.046355741
185449_s_at	WBGene00020349	T08B2.11	T08B2.11	coding	-0.626426594	0.003309091	0.041862085
185288_at	WBGene00020363	T08E11.7	fbxa-3	coding	1.532902765	0.001581065	0.028950625
189666_s_at	WBGene00020369	T08H10.1	T08H10.1	coding	1.05361024	0.001364989	0.026698965
190674_at	WBGene00020373	T09A12.2	T09A12.2	coding	1.017833416	0.000188619	0.010165385
185182_s_at	WBGene00020421	T10E10.4	T10E10.4	coding	1.799318565	6.27534E-05	0.005881467
189688_at	WBGene00020446	T12B3.3	T12B3.3	coding	0.602571236	0.002156378	0.033594844
182259_at	WBGene00020467	T12F5.2	T12F5.2	coding	-0.587220463	0.004690656	0.049538018
189517_at	WBGene00020471	T13B5.3	pho-14	coding	1.878821277	5.87198E-05	0.005804522
192113_s_at	WBGene00020496	T13H2.5	spat-3	coding	-0.626147309	0.001555519	0.028795095
183575_at	WBGene00020497	T14A8.2	T14A8.2	coding	1.010370923	0.000770568	0.020201655
175294_s_at	WBGene00020551	T17H7.7	T17H7.7	coding	0.782811103	0.004098301	0.046375741
180614_at	WBGene00020551	T17H7.7	T17H7.7	coding	0.870808228	0.004068822	0.046375741
180418_at	WBGene00020571	T19D7.3	lpr-7	coding	0.606439847	0.002861238	0.038895436
181055_at	WBGene00020571	T19D7.3	lpr-7	coding	0.555592943	0.003945957	0.045674531
180999_at	WBGene00020595	T20B5.2	T20B5.2	coding	1.478261763	0.000589646	0.01790627
190270_at	WBGene00020651	T21D12.12	T21D12.12	coding	1.866169963	0.000193263	0.010269952
182628_s_at	WBGene00020658	T21F4.1	T21F4.1	coding	1.200763877	9.77417E-05	0.007227671
181097_at	WBGene00020662	T21H3.1	T21H3.1	coding	2.213429323	3.85388E-05	0.004923881
180524_at	WBGene00020670	T22B2.6	T22B2.6	coding	1.053937284	0.000125345	0.008249475
180616_at	WBGene00020672	T22B7.3	T22B7.3	coding	-0.620961441	0.002851057	0.038861308
183178_at	WBGene00020690	T22E5.1	T22E5.1	coding	1.060760541	0.000688769	0.018963598
176755_at	WBGene00020703	T22F7.4	T22F7.4	coding	1.013283151	0.001771575	0.030304294
184818_at	WBGene00020720	T23B12.5	T23B12.5	coding	1.729287263	2.71774E-05	0.00480282
184855_at	WBGene00020722	T23B12.8	T23B12.8	coding	0.97039445	0.000267341	0.012280427
172872_x_at	WBGene00020736	T23F2.3	T23F2.3	coding	1.224588042	0.000284233	0.012607367
187571_at	WBGene00020737	T23F2.4	T23F2.4	coding	0.921233293	0.002814516	0.038745499
180240_at	WBGene00020740	T23F4.2	T23F4.2	coding	1.11280074	9.32426E-05	0.007085503
188383_at	WBGene00020742	T23H2.3	T23H2.3	coding	-1.097774955	9.44037E-05	0.007138048

182815_at	WBGene00020760	T24C4.4	T24C4.4	coding	2.872315902	2.03625E-05	0.004239314
184236_at	WBGene00020766	T24C12.4	T24C12.4	coding	1.149443949	0.00031935	0.013320407
175017_s_at	WBGene00020784	T24H7.5	tat-4	coding	0.534564175	0.003230658	0.041414554
188289_s_at	WBGene00020784	T24H7.5	tat-4	coding	0.485233196	0.003232654	0.041414554
183218_at	WBGene00020792	T25B6.6	T25B6.6	coding	1.568817957	0.000336575	0.013532472
187428_at	WBGene00020803	T25E4.1	T25E4.1	coding	1.271089047	0.000247473	0.011680425
175193_at	WBGene00020806	T25F10.3	T25F10.3	coding	0.594385071	0.003269574	0.04158242
186385_at	WBGene00020806	T25F10.3	T25F10.3	coding	0.49693885	0.003166607	0.041036706
186041_at	WBGene00020811	T25G12.3	T25G12.3	coding	0.972118894	0.00034865	0.013871174
190028_at	WBGene00020849	T27B7.2	nhr-225	coding	0.967629789	0.000182799	0.010029544
179928_s_at	WBGene00020854	T27C4.1	T27C4.1	coding	0.792872758	0.004202734	0.047112712
171986_x_at	WBGene00020862	T27E4.4	fip-2	coding	1.24197217	0.002319795	0.034763381
172284_x_at	WBGene00020862	T27E4.4	fip-2	coding	1.370900561	0.000398943	0.015007773
173756_at	WBGene00020865	T27E4.7	T27E4.7	coding	1.082286709	0.000207309	0.010714
173757_s_at	WBGene00020865	T27E4.7	T27E4.7	coding	1.105194289	0.000229367	0.011281303
180703_at	WBGene00020886	T28B4.3	ttr-6	coding	0.586605357	0.00304516	0.040050511
181524_at	WBGene00020887	T28B4.4	T28B4.4	coding	1.191851051	0.000219954	0.011032551
185343_at	WBGene00020893	T28C12.6	T28C12.6	coding	0.857414083	0.002752465	0.038202703
187493_at	WBGene00020895	T28D9.3	T28D9.3	coding	0.705503629	0.003628319	0.043625948
186066_at	WBGene00020912	W01A11.7	W01A11.7	coding	1.125624217	8.09586E-05	0.006650937
185402_at	WBGene00020929	W02C12.2	W02C12.2	coding	0.582696519	0.004388376	0.048224543
184004_s_at	WBGene00020973	W03B1.3	W03B1.3	coding	-0.462266652	0.004279408	0.047507993
181874_at	WBGene00020995	W03F8.6	W03F8.6	coding	1.318650957	0.000312045	0.013276952
189824_at	WBGene00020998	W03F8.10	W03F8.10	coding	-0.770543409	0.00097524	0.022273976
180966_s_at	WBGene00021018	W04B5.1	W04B5.1	coding	0.717461026	0.002583551	0.036627618
179806_at	WBGene00021048	W05H9.1	W05H9.1	coding	0.689726964	0.001190008	0.024930514
184338_s_at	WBGene00021053	W06A11.2	W06A11.2	coding	-0.935797012	0.000473214	0.016234545
186226_at	WBGene00021055	W06A11.4	W06A11.4	coding	-0.461967398	0.003918081	0.045560053
175426_s_at	WBGene00021059	W06B11.1	W06B11.1	coding	0.720074598	0.001044336	0.022860953
184218_at	WBGene00021059	W06B11.1	W06B11.1	coding	0.71377931	0.00132612	0.026242667
184453_at	WBGene00021060	W06B11.3	dct-11	coding	0.653146691	0.00201171	0.032204754
182886_at	WBGene00021071	W07B8.3	W07B8.3	coding	0.86215385	0.0003174	0.013320407
187780_at	WBGene00021071	W07B8.3	W07B8.3	coding	0.791359305	0.001217345	0.025274878
172515_x_at	WBGene00021079	W08A12.2	W08A12.2	coding	2.073792857	0.000159556	0.009244951
184769_at	WBGene00021083	W08E12.2	W08E12.2	coding	0.905547582	0.002341933	0.034763381
172503_x_at	WBGene00021084	W08E12.3	W08E12.3	coding	1.294729875	6.30793E-05	0.005881467
172545_x_at	WBGene00021085	W08E12.4	W08E12.4	coding	1.106721662	0.000309689	0.013258167
184591_at	WBGene00021089	W08E12.8	W08E12.8	coding	0.505949848	0.002880143	0.039018345
184103_s_at	WBGene00021107	W09B7.2	W09B7.2	coding	1.674687369	3.5074E-05	0.004923881
185147_at	WBGene00021116	W09G10.3	W09G10.3	coding	0.597804246	0.00189114	0.031230786
184531_s_at	WBGene00021134	W10G11.1	W10G11.1	coding	0.788645086	0.001036984	0.022826361
184774_at	WBGene00021180	Y9C9A.13	Y9C9A.13	coding	-0.696546541	0.00410166	0.046375741
172310_x_at	WBGene00021186	Y9D1A.1	Y9D1A.1	coding	-1.041967104	0.000633841	0.018560926
172294_x_at	WBGene00021187	Y9D1A.2	Y9D1A.2	coding	-1.293718393	0.000464905	0.016082871
184214_s_at	WBGene00021205	Y17G9B.8	Y17G9B.8	coding	-0.687133986	0.00215718	0.033594844
175253_s_at	WBGene00021219	Y19D10A.4	Y19D10A.4	coding	3.934929649	1.59652E-06	0.002579258
180813_s_at	WBGene00021219	Y19D10A.4	Y19D10A.4	coding	4.056233971	1.69955E-06	0.002579258
180592_s_at	WBGene00021224	Y19D10A.9	clec-209	coding	4.704491105	3.61164E-07	0.002579258
176347_at	WBGene00021253	Y22D7AL.15	Y22D7AL.15	coding	2.801357104	5.24259E-05	0.005571809
176305_at	WBGene00021264	Y22D7AR.11	fbxa-13	coding	0.68170148	0.001546851	0.028739661
176905_at	WBGene00021281	Y24D9A.1	ell-1	coding	-0.762032416	0.001752663	0.03013232
176893_at	WBGene00021282	Y24D9A.2	set-21	coding	-0.565671646	0.004196249	0.047100878
176074_s_at	WBGene00021309	Y32G9B.1	Y32G9B.1	coding	0.713307066	0.000607037	0.018161421
175109_at	WBGene00021325	Y34B4A.9	Y34B4A.9	coding	0.750558147	0.002063504	0.032770258
177236_s_at	WBGene00021361	Y37E11AL.5	Y37E11AL.5	coding	-0.650710424	0.00309228	0.040374978
177300_at	WBGene00021365	Y37E11AM.1	smgl-2	coding	-0.566008902	0.004237227	0.047303925
177167_at	WBGene00021400	Y38C1AA.9	Y38C1AA.9	coding	1.918461928	0.000228071	0.011253966
173272_s_at	WBGene00021411	Y38C9A.1	Y38C9A.1	coding	-0.495034938	0.00366509	0.043929047
186042_at	WBGene00021411	Y38C9A.1	Y38C9A.1	coding	-0.782300356	0.000738168	0.019820973

186758_at	WBGene00021445	Y39A3CR.5	Y39A3CR.5	coding	0.576058695	0.004091053	0.046375741
186966_at	WBGene00021446	Y39A3CR.6	hlh-33	coding	0.776314607	0.001871445	0.0310166
186770_at	WBGene00021452	Y39F10A.1	Y39F10A.1	coding	0.44876868	0.004222727	0.047223692
185877_s_at	WBGene00021497	Y40C5A.4	Y40C5A.4	coding	0.685296332	0.000735909	0.019820973
191017_at	WBGene00021503	Y40D12A.2	Y40D12A.2	coding	1.204512305	0.004745087	0.049803752
176044_at	WBGene00021518	Y41D4B.16	Y41D4B.16	coding	2.214001978	4.12853E-05	0.005058446
186099_at	WBGene00021526	Y41G9A.2	Y41G9A.2	coding	0.527495578	0.002637166	0.037110786
177053_at	WBGene00021537	Y42H9AR.2	Y42H9AR.2	coding	-0.563852347	0.002824281	0.038782239
177152_at	WBGene00021556	Y45G5AM.3	Y45G5AM.3	coding	1.216811096	0.000181267	0.010029544
186819_s_at	WBGene00021566	Y45G12C.3	Y45G12C.3	coding	1.216332116	9.26559E-05	0.007085503
172184_x_at	WBGene00021580	Y46C8AL.2	clec-174	coding	2.943752861	7.24683E-06	0.003059368
177059_at	WBGene00021583	Y46C8AL.5	clec-72	coding	0.94039099	0.002513603	0.036069847
177060_s_at	WBGene00021583	Y46C8AL.5	clec-72	coding	0.978584078	0.000716512	0.019585517
176525_s_at	WBGene00021595	Y46E12BL.2	Y46E12BL.2	coding	-0.50084173	0.003888057	0.045349943
172531_x_at	WBGene00021605	Y46H3C.5	Y46H3C.5	coding	-1.515968185	0.001894643	0.031230786
173774_s_at	WBGene00021645	Y47G6A.19	Y47G6A.19	coding	1.075928182	0.000681741	0.018941669
173079_s_at	WBGene00021680	Y48G1C.7	Y48G1C.7	coding	-0.529045368	0.002580912	0.036624377
176975_s_at	WBGene00021680	Y48G1C.7	Y48G1C.7	coding	-0.622057223	0.002208884	0.034062519
176936_at	WBGene00021702	Y48G9A.9	Y48G9A.9	coding	0.846405953	0.000793112	0.020464714
186862_at	WBGene00021775	Y51H7BR.3	Y51H7BR.3	coding	0.662810114	0.001035671	0.022826361
176304_at	WBGene00021796	Y52E8A.3	Y52E8A.3	coding	0.778230822	0.001936199	0.031607245
187229_s_at	WBGene00021832	Y54E10A.12	Y54E10A.12	coding	-0.791067186	0.003384877	0.042372052
173229_s_at	WBGene00021843	Y54E10BR.4	Y54E10BR.4	coding	0.598371579	0.001433771	0.02736716
177233_s_at	WBGene00021843	Y54E10BR.4	Y54E10BR.4	coding	0.645573024	0.001034381	0.022826361
172971_s_at	WBGene00021876	Y54G2A.11	Y54G2A.11	coding	1.01761678	0.000940712	0.022129941
175441_s_at	WBGene00021900	Y54H5A.2	Y54H5A.2	coding	0.779963437	0.002914817	0.039245022
186903_at	WBGene00021909	Y55B1BL.1	Y55B1BL.1	coding	0.964469609	0.001195317	0.024930514
176532_at	WBGene00021913	Y55B1BR.3	Y55B1BR.3	coding	-0.508987921	0.003704265	0.04415601
187608_s_at	WBGene00021927	Y55F3AM.10	Y55F3AM.10	coding	0.470650794	0.003800848	0.044814461
184451_at	WBGene00021965	Y57G7A.1	Y57G7A.1	coding	0.864149136	0.000886044	0.021477022
176260_at	WBGene00021975	Y58A7A.1	Y58A7A.1	coding	1.06875283	0.002195915	0.033920855
176141_s_at	WBGene00021977	Y58A7A.3	Y58A7A.3	coding	3.449186736	0.002834415	0.038782239
176209_at	WBGene00021979	Y58A7A.5	Y58A7A.5	coding	2.310328534	5.6627E-05	0.005756248
176800_s_at	WBGene00021986	Y59C2A.3	Y59C2A.3	coding	-0.499460777	0.003705582	0.04415601
177312_at	WBGene00022012	Y59H11AR.4	Y59H11AR.4	coding	1.952267143	0.000859948	0.021285818
186211_at	WBGene00022013	Y60C6A.1	Y60C6A.1	coding	2.593229152	0.001019955	0.022730273
177172_at	WBGene00022019	Y61A9LA.8	sut-2	coding	-0.490858967	0.004594877	0.049265546
177055_at	WBGene00022033	Y65B4BL.1	Y65B4BL.1	coding	-1.147876474	0.000286283	0.012648047
185114_at	WBGene00022045	Y66H1A.3	tag-313	coding	0.476639782	0.003869086	0.045302291
176280_at	WBGene00022093	Y69A2AR.22	Y69A2AR.22	coding	0.500189211	0.004008512	0.04597839
176776_at	WBGene00022103	Y71D11A.1	cdh-12	coding	-0.562544288	0.004130602	0.046570388
176544_at	WBGene00022144	Y71G12B.4	pghm-1	coding	0.883755525	0.002645761	0.03719729
176650_s_at	WBGene00022151	Y71G12B.11	Y71G12B.11	coding	-0.6513442	0.001975316	0.031869277
176285_s_at	WBGene00022178	Y71H2AM.13	Y71H2AM.13	coding	0.606225673	0.001913073	0.031466317
185811_at	WBGene00022194	Y71H2B.4	Y71H2B.4	coding	0.514042754	0.002799682	0.038611227
185081_at	WBGene00022261	Y73C8C.2	clec-210	coding	0.871588756	0.000497469	0.016580554
172604_x_at	WBGene00022262	Y73C8C.3	Y73C8C.3	coding	-0.678654696	0.004058357	0.046355741
176888_at	WBGene00022271	Y73E7A.4	cpx-1	coding	0.596049221	0.002386734	0.035055105
184985_s_at	WBGene00022276	Y74C9A.2	nlp-40	coding	1.351934377	6.98753E-05	0.006153076
174607_at	WBGene00022284	Y75B7AL.1	glb-33	coding	0.653649911	0.000982508	0.02232012
187013_at	WBGene00022307	Y77E11A.2	Y77E11A.2	coding	0.851320309	0.00088087	0.02145427
174281_at	WBGene00022314	Y77E11A.14	Y77E11A.14	coding	0.575278458	0.001544613	0.0287332
176222_at	WBGene00022326	Y82E9BL.10	fbxa-14	coding	0.913271658	0.000494069	0.01653933
176203_at	WBGene00022329	Y82E9BL.13	fbxa-79	coding	1.356718385	0.001894046	0.031230786
176189_at	WBGene00022361	Y92H12A.5	Y92H12A.5	coding	-0.719714722	0.002157426	0.033594844
177038_at	WBGene00022382	Y94H6A.10	Y94H6A.10	coding	1.21328239	0.000128801	0.008329886
185406_at	WBGene00022383	Y95B8A.2	Y95B8A.2	coding	2.142814655	1.23942E-05	0.003806289
176539_at	WBGene00022417	Y102A11A.7	Y102A11A.7	coding	0.717827835	0.001598311	0.029005195
176553_s_at	WBGene00022434	Y108G3AL.2	Y108G3AL.2	coding	-0.638928387	0.001230758	0.025389573

175367_s_at	WBGene00022441	Y110A2AL.4	Y110A2AL.4	coding	0.588718989	0.002330227	0.034763381
187531_at	WBGene00022441	Y110A2AL.4	Y110A2AL.4	coding	0.566118508	0.004211211	0.047164319
176246_at	WBGene00022472	Y119C1B.6	Y119C1B.6	coding	1.110948153	0.000379256	0.014703911
176250_s_at	WBGene00022473	Y119C1B.8	bet-1	coding	-0.504321934	0.002832525	0.038782239
176165_at	WBGene00022484	Y119D3B.6	fbxa-77	coding	0.793130296	0.000838238	0.021116003
176166_s_at	WBGene00022484	Y119D3B.6	fbxa-77	coding	1.427918123	7.22862E-05	0.006206814
176133_at	WBGene00022485	Y119D3B.7	fbxa-63	coding	0.671039548	0.003324061	0.041889784
176135_s_at	WBGene00022494	Y119D3B.18	fbxa-91	coding	1.597982024	0.004082637	0.046375741
189909_at	WBGene00022518	ZC123.3	ZC123.3	coding	-0.685278551	0.002183775	0.033831816
181856_at	WBGene00022538	ZC190.4	ZC190.4	coding	-0.533547147	0.002566676	0.036524663
184174_at	WBGene00022562	ZC204.12	ZC204.12	coding	1.256965212	0.004435363	0.048464461
190806_s_at	WBGene00022582	ZC262.5	ZC262.5	coding	1.010020169	0.000453021	0.015893397
181785_at	WBGene00022586	ZC308.4	ZC308.4	coding	-0.576311639	0.003530911	0.043089079
180549_at	WBGene00022588	ZC317.2	ZC317.2	coding	0.801115221	0.000390121	0.014795181
177276_at	WBGene00022643	ZK6.8	ZK6.8	coding	0.68849467	0.002155741	0.033594844
175170_s_at	WBGene00022644	ZK6.10	dod-19	coding	2.937868255	4.29359E-05	0.005058446
177463_at	WBGene00022644	ZK6.10	dod-19	coding	2.695692188	8.61644E-05	0.006965556
177783_at	WBGene00022645	ZK6.11	ZK6.11	coding	1.72858522	0.000391318	0.014795181
178652_at	WBGene00022649	ZK84.1	ZK84.1	coding	0.734156701	0.003394707	0.042372052
175897_at	WBGene00022656	ZK105.5	ZK105.5	coding	2.284812373	0.002120251	0.033323239
182929_s_at	WBGene00022668	ZK154.6	ZK154.6	coding	0.500808082	0.003748303	0.044470495
172409_x_at	WBGene00022730	ZK402.3	ZK402.3	coding	0.594850765	0.00131154	0.026076591
182403_at	WBGene00022736	ZK418.7	ZK418.7	coding	0.507964879	0.004705155	0.049572913
179876_at	WBGene00022741	ZK430.5	ZK430.5	coding	-1.108029655	0.000605719	0.018161421
174473_at	WBGene00022745	ZK470.2	ZK470.2	coding	0.734921682	0.004622431	0.049318157
181305_s_at	WBGene00022781	ZK622.3	pmt-1	coding	0.539430974	0.002316973	0.034763381
176093_at	WBGene00022786	ZK652.8	ZK652.8	coding	-1.90173669	7.1311E-05	0.006177879
181399_at	WBGene00022789	ZK682.5	ZK682.5	coding	0.563880728	0.004505694	0.048807937
173691_s_at	WBGene00022797	ZK688.2	ZK688.2	coding	1.920960908	0.000165924	0.009409363
186444_s_at	WBGene00022848	ZK1055.7	ZK1055.7	coding	1.762541868	0.000331114	0.013519827
190738_at	WBGene00022887	ZK1290.5	ZK1290.5	coding	1.044560241	0.000651883	0.018763848
191194_at	WBGene00023408	T09A5.1	cex-2	coding	0.745990312	0.00093749	0.022129941
187613_at	WBGene00043279	F22D6.8	F22D6.8	coding	1.442444248	0.000775473	0.020201655
192815_s_at	WBGene00044019	C55A6.12	C55A6.12	coding	1.168092272	0.00075189	0.020016369
178889_at	WBGene00044078	T04A8.4	tag-243	coding	0.611346696	0.002286269	0.034657509
180450_at	WBGene00044696	F52E1.14	F52E1.14	coding	1.551412887	0.000352511	0.013951734
177331_at	WBGene00044699	VC5.6	nhr-286	coding	0.780641172	0.000670415	0.018880387
176652_s_at	WBGene00044734	Y19D10A.16	Y19D10A.16	coding	1.277827825	0.001840856	0.030892086
189744_s_at	WBGene00044734	Y19D10A.16	Y19D10A.16	coding	1.020490895	0.001691528	0.029794597
192120_s_at	WBGene00044789	T07A9.14	T07A9.14	coding	-0.531195509	0.003680718	0.043977632
175885_at	WBGene00044811	F12E12.11	F12E12.11	coding	1.004831178	0.000207964	0.010714
182339_at	WBGene00045387	K09H9.8	K09H9.8	coding	0.852732139	0.004028443	0.046172154
183907_at	WBGene00050875	ZK1025.7	bah-1	coding	1.479856655	0.002485849	0.035946657
181695_at	WBGene00077593	C49G7.12	C49G7.12	coding	2.435298826	0.000741716	0.019846116
188635_at	WBGene00077697	F58E6.13	F58E6.13	coding	0.905739609	0.001267048	0.025675455
178794_at	WBGene00077770	M04D5.3	M04D5.3	coding	2.127592506	0.000382842	0.014730198
181898_at	WBGene00189954	F40G9.18	F40G9.18	coding	-0.591664441	0.004635135	0.049365645
181800_at	WBGene00195085	C56E6.9	C56E6.9	coding	-0.759952317	0.003248499	0.041462698