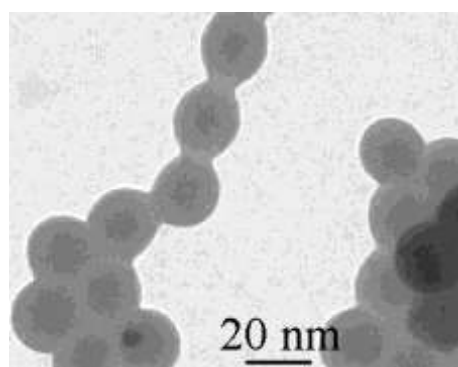
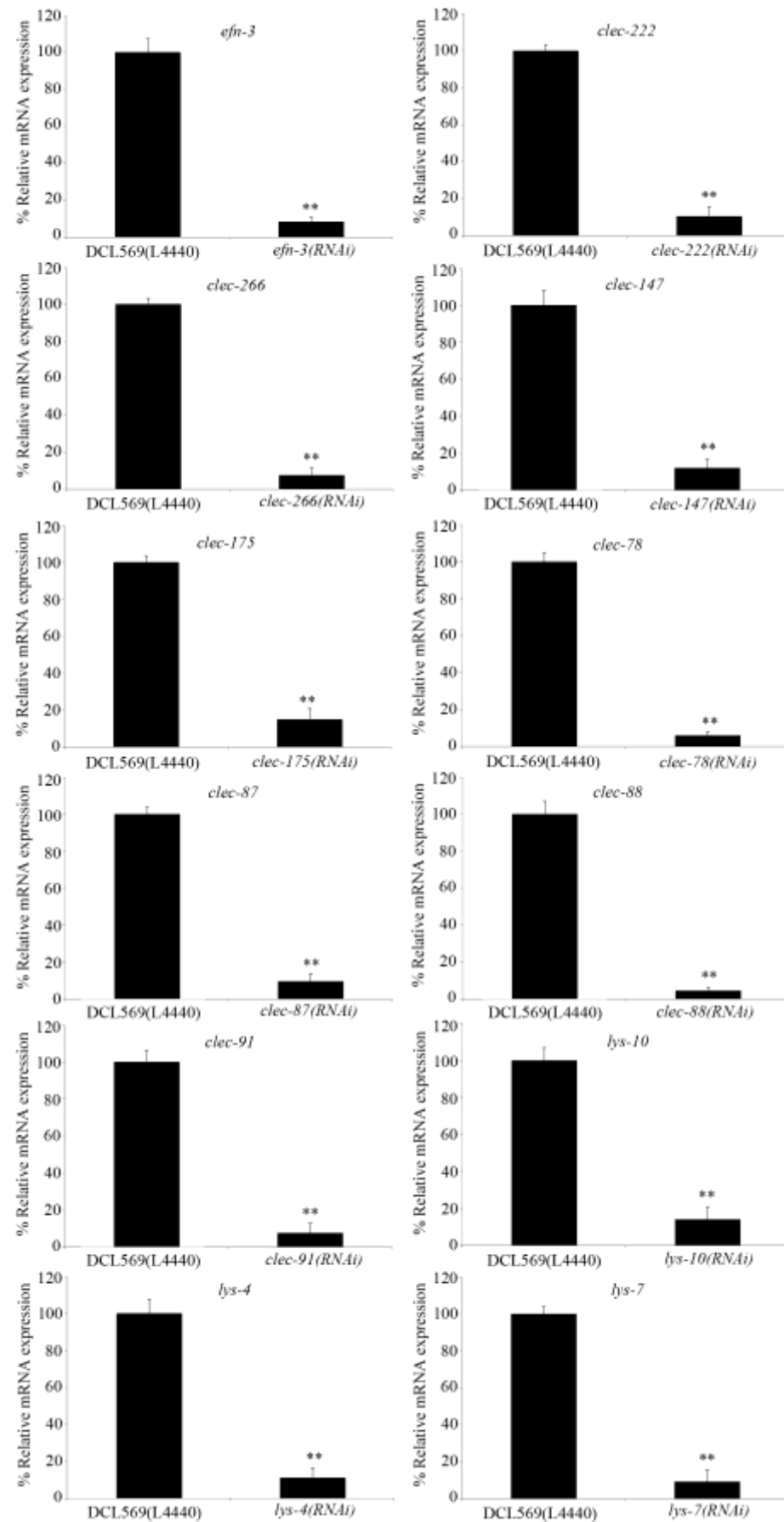


# Supplementary Materials: Nanoplastic Exposure at Predicted Environmental Concentrations Induces Activation of Germline Ephrin Signal Associated with Toxicity Formation in the *Caenorhabditis elegans* Offspring

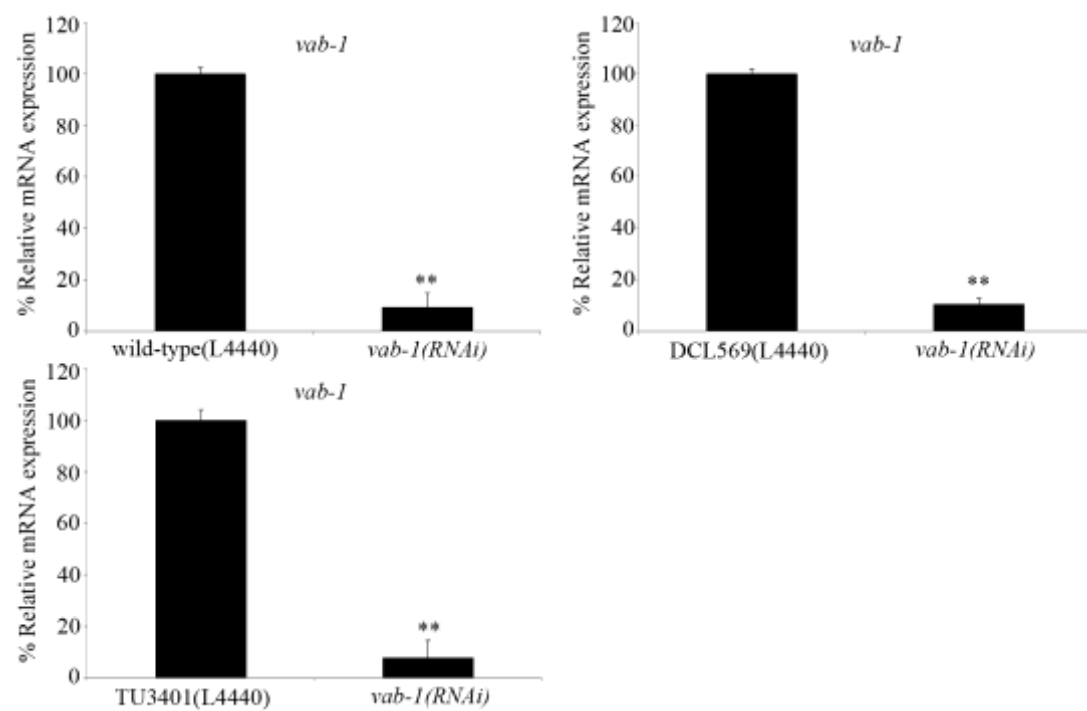
Yue Zhao, Xin Hua, Qian Bian and Dayong Wang



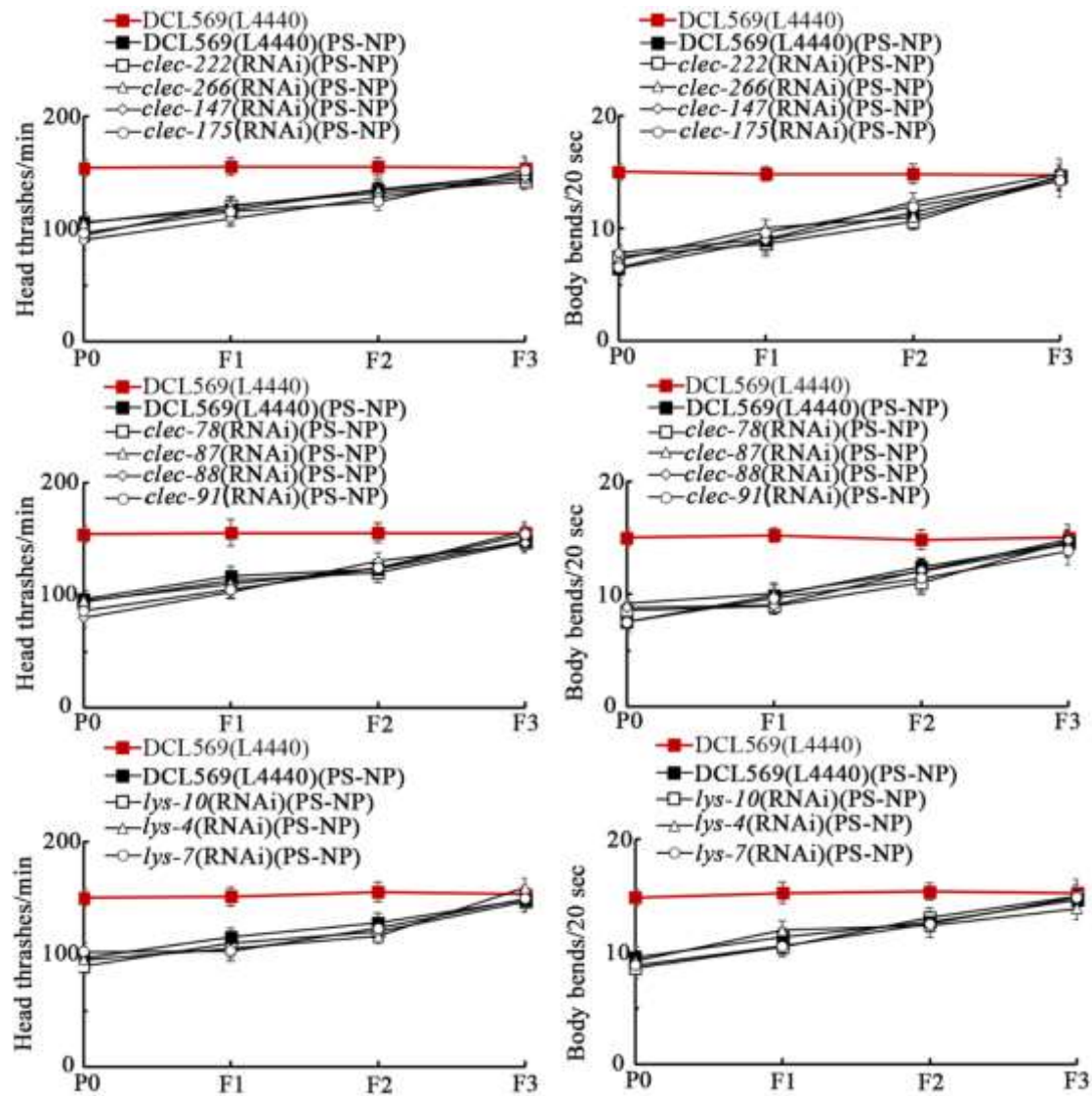
**Figure S1.** TEM image of PS-NPs before the sonication.



**Figure S2.** Germline RNAi efficiency of *efn-3*, *clec-222*, *clec-266*, *clec-147*, *clec-175*, *clec-78*, *clec-87*, *clec-88*, *clec-91*, *lys-10*, *lys-4*, or *lys-7*. \*\*P < 0.01 vs DCL569(L4440).



**Figure S3.** RNAi efficiency of *vab-1*. \*\* $P < 0.01$  vs wild-type(L4440), DCL569(L4440), or TU3401(L4440).



**Figure S4.** Effects of germline RNAi of *clec-222*, *clec-266*, *clec-147*, *clec-175*, *clec-78*, *clec-87*, *clec-88*, *clec-91*, *lys-10*, *lys-4*, or *lys-7* on transgenerational PS-NP toxicity in decreasing locomotion behavior. Exposure concentration of PS-NP was 1  $\mu$ g/L. Curves of DCL569(L4440)(PS-NP) showed a significant difference ( $P < 0.01$ ) compared to DCL569(L4440). After the PS-NP exposure, the curve of *clec-222*(RNAi) ( $P = 0.812$ ), *clec-266*(RNAi) ( $P = 0.879$ ), *clec-147*(RNAi) ( $P = 0.756$ ), *clec-175*(RNAi) ( $P = 0.857$ ), *clec-78*(RNAi) ( $P = 0.925$ ), *clec-87*(RNAi) ( $P = 0.970$ ), *clec-88*(RNAi) ( $P = 0.946$ ), *clec-91*(RNAi) ( $P = 0.879$ ), *lys-10*(RNAi) ( $P = 0.896$ ), *lys-4*(RNAi) ( $P = 0.948$ ), and *lys-7*(RNAi) ( $P = 0.978$ ), did not show significant difference compared to DCL569(L4440).

**Table S1.** Information for *C. elegans* strains.

Strains	Genotype	Description
N2		Wild-type
DCL569	<i>mkcSi13[sun-1p::rde-1::sun-1 3'UTR + unc-119(+)]rde-1(mkc36)</i>	Germline RNAi knockdown tool
TU3401	<i>sid-1(pk3321);</i> <i>[pCF]90(myo-2p::mCherry)punc-119p::sid-1]</i>	Neuronal RNAi knockdown tool
	<i>Is(Pmex-5-efn-3)</i>	Nematodes overexpressing germline EFN-3

**Table S2.** Primer information for qRT-PCR.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>efn-3</i>	CGGAGTTTGTGCAACCGAAA	ACCCAACTACCGAGATTGCC
<i>vab-1</i>	CCCGTGGTGTCAGAAAGTGAA	GTGGTGGTAGTCGATAGCCG
<i>daf-7</i>	CCCTTCATCCCCAACAGACC	GACATTGGCGATTGAGACGC
<i>dbl-1</i>	TTTTGCGGCGAACAATCGT	TTCGCTGTTGCCTGTTTGTG
<i>jnk-1</i>	TATGCTCCACCTCCACTT	GGGTTCTTGCGTAATCTG
<i>mpk-1</i>	AACGGGCATCCACAAGCG	AGTGCAGAGGCGACCATCC
<i>glb-10</i>	TCAACGATCCGCGGAAAGAA	GAAATCAACATGCCGGGCTC
<i>nhl-2</i>	GGGGACGCCCTGTTATTCA	TGATTTGCAGCCAAGGCAAC
<i>ndk-1</i>	CCAAGGCCCATCTTGAGGTT	ATCCGTGGCAGATATTGCGT
<i>pat-12</i>	CAAACGGAGAGGTCCGTCAA	CGGCTCATGTCATCGTCGTA
<i>lin-23</i>	TGCCGGGGACAATGATGAAT	GTCAAAAGCAGCCATTTCTTGC
<i>wrt-3</i>	GCTTGCGGATTACTGTGGA	AGCTGGTTTCACATCGGGAAT
<i>egl-1</i>	GCCTCAACCTCTTCGGATCT	GCACATTGCTGCTAGCTTGG
<i>tba-1</i>	TCAACACTGCCATCGCCGCC	TCCAAGCGAGACCAGGCTTCAG

**Table S3.** Primer information for constructs generation.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>Pmex-5</i>	ATACTGCAGTTGTAGGCTCTTCTTGCA	TCAGGATCCTCTCTGTCTGAAACATTC
<i>efn-3/F15A2.5</i>	ATAGGATCCATGAGCTCAAGCTGGGCC	CAGCTCGAGCTAAAACAAAACACCGCT

**Table S4.** Dysregulated genes by germline RNAi knockdown of *ksr-1* after PS-NPs exposure.

Gene name	log2FC	Expressed in germline
Y57A10B.6	8.769209	+
C08F1.10	8.422187	
Y82E9BR.17	4.506934	
T05D4.2	4.418915	
Y73C8C.3	3.852964	
<i>vet-6</i>	3.749902	
<i>pes-2.1</i>	3.557689	
C17E4.2	3.548801	+
Y106G6D.1	3.425848	
<i>pap-2</i>	3.37	
<i>tbx-11</i>	3.317655	+
Y25C1A.6	3.295668	
<i>clcc-266</i>	3.258693	+
<i>fbxb-84</i>	3.236067	
C08F1.6	3.187794	
T22B2.1	3.181919	
T12D8.5	3.154467	
<i>efn-3</i>	3.134561	+
<i>pes-2.2</i>	3.112363	
<i>fbxb-103</i>	3.063931	
Y47H10A.2	3.033427	+
W04A8.5	2.962996	+
Y43F11A.1	2.894374	
<i>sdz-30</i>	2.857534	
Y44A6C.2	2.797981	
<i>skr-12</i>	2.752062	
<i>sepa-1</i>	2.705083	
<i>sdz-37</i>	2.672532	+
C35E7.5	2.654376	+
Y43F11A.4	2.625558	
W08E12.2	2.541129	
<i>fbxb-15</i>	2.452672	
<i>stdh-2</i>	2.424543	
K01G12.3	2.415352	+
<i>pes-10</i>	2.402182	
<i>ech-9</i>	2.393005	
<i>dmsr-16</i>	2.390111	
Y106G6D.2	2.385238	
Y65B4BR.1	2.351968	
<i>skr-8</i>	2.337743	
<i>sdz-25</i>	2.326385	
F17E9.2	2.285144	
M116.1	2.276742	
<i>btb-11</i>	2.25259	
<i>fbxc-28</i>	2.247712	+
<i>fbxc-51</i>	2.230555	
<i>dsl-2</i>	2.217453	+
T24C4.2	2.214628	+
<i>clcc-222</i>	2.210811	+
<i>btb-8</i>	2.190256	+
<i>btb-10</i>	2.177559	
Y82E9BR.17	2.128212	
<i>fkh-4</i>	2.118582	+

<i>skr-7</i>	2.089803	+
<i>F10A3.1</i>	2.059092	
<i>K10G6.5</i>	2.040173	
<i>spp-9</i>	-4.42418	
<i>Y39G8B.7</i>	-2.92212	
<i>dct-19</i>	-2.92118	
<i>F25D1.3</i>	-2.82734	
<i>C05B5.12</i>	-2.70422	
<i>F58B4.7</i>	-2.52453	
<i>oac-42</i>	-2.45072	
<i>grl-2</i>	-2.33915	
<i>F40C5.2</i>	-2.33238	+
<i>nhr-290</i>	-2.31174	
<i>lbp-8</i>	-2.25486	
<i>C35E7.5</i>	-2.20382	
<i>F41G3.3</i>	-2.1741	
<i>F36H2.4</i>	-2.1353	
<i>nhr-175</i>	-2.13115	
<i>R01E6.5</i>	-2.11718	
<i>ugt-34</i>	-2.10559	
<i>ZK945.8</i>	-2.0919	
<i>ZK402.5</i>	-2.07473	+
<i>ifa-3</i>	-2.0724	
<i>T05B4.12</i>	-2.05264	
<i>F31B9.4</i>	-2.03284	
<i>C05E11.7</i>	-2.01693	
<i>F49D11.14</i>	-2.01086	

Note:.

-Expression information of candidate genes is from <https://wormbase.org>.

-Statistical significance:  $P < 0.01$ .

**Table S5.** Dysregulated genes by germline RNAi knockdown of *ksr-2* after PS-NPs exposure.

Gene name	log2FC	Expressed in germ line
C29F5.8	14.4158093432	
C41G6.13	14.2060317226	
Y75B12B.8	14.1977543808	
F47B8.14	13.6746335916	
F47B8.18	13.4128136637	
<i>clec-19</i>	13.3221629302	
Y54G2A.57	13.2858080250	
K04A8.21	13.2723575788	
F57F4.2	13.1769287341	
<i>oac-39</i>	13.1563293514	
<i>scl-1</i>	12.4149876014	
ZK643.6	12.3524449265	
F17B5.4	12.0182831028	
M6.11	12.0129012063	
<i>oac-41</i>	12.0129012063	
ZK285.2	11.9210726265	+
F48G7.7	11.7697491878	
<i>wrt-7</i>	11.6638472222	
K08D12.7	11.5458293751	
C43F9.4	11.3926371915	
Y59A8B.26	11.2851255821	
Y59A8B.19	11.2024347777	
C03G6.6	11.1689522466	
F20E11.17	11.1096813532	
K09D9.9	11.0531239394	
T04C12.1	11.0319951941	
C33B4.5	10.9666863624	
Y71F9AM.8	10.9328887457	
<i>ttr-19</i>	10.9041063600	
<i>mltn-7</i>	10.8865572072	
C13A2.6	10.8447594452	
F40G12.5	10.7508943479	
<i>ilys-6</i>	10.7379045839	
C13A2.7	10.7049090816	
F46H5.11	10.6642917918	
Y57E12B.11	10.6435461157	
<i>lip1-8</i>	10.6011377708	
<i>ilys-3</i>	10.4815478651	
R08E5.4	10.4815478651	
<i>sek-5</i>	10.3931736897	
Y60C6A.2	10.3339794532	
F39G3.4	10.2812336928	
T20G5.13	10.2541195756	
F07G11.3	10.2077652757	
C07G3.10	10.1887983301	+
C54F6.17	10.1792205217	
C41C4.9	10.1695787026	
C54F6.15	10.1203786774	+
K01A2.9	10.1203786774	
<i>cnc-9</i>	10.0485519812	
Y97E10B.1	9.9506156788	
K04A8.19	9.9164349537	
<i>srj-32</i>	9.8695632574	



Y9C9A.5	9.8333822774	
Y71H9A.10	9.8333822774	
spp-20	9.8211174635	
C44H9.7	9.8211174635	
clec-38	9.7709881605	
Y57A10B.2	9.6923687753	
gmd-2	9.6923687753	
B0554.1	9.6513918062	
W02D7.11	9.6513918062	
Y39H10A.1	9.6374700324	
C13A2.9	9.6130456156	
fbxa-142	9.6092168562	
grd-8	9.5657717631	
scl-12	9.5502068167	
C18H7.1	9.5358124185	
ugt-27	9.4903230740	
F15H10.12	9.4903230740	
T05A8.6	9.3942460880	
clec-248	9.3264453450	
fip-1	9.2913114010	
scl-11	9.2363192623	
amt-1	9.1995403879	
pals-29	9.1804642818	
col-51	9.1570853953	
W07G4.7	9.1216741910	
K04A8.18	9.1015327855	
ptr-9	9.1015327855	
smf-2	9.1010563993	
F56H9.8	9.0393643677	
F58E6.4	8.9963787319	
F57A8.7	8.9743958841	
otpl-4	8.9293990462	
F01G10.4	8.9293990462	
Y46E12A.5	8.8591576650	
K07A1.20	8.8103551889	
K01A2.12	8.8103551889	
R13D11.10	8.8103551889	
T05H10.3	8.7928646897	+
col-37	8.7657156607	
F07C4.10	8.7598438831	
F15H10.9	8.7598438831	
T28A11.19	8.7598438831	
col-2	8.7514506370	
col-183	8.7435447567	
ceh-76	8.7339091846	
C13A2.10	8.7074997216	
col-185	8.6936995865	
col-108	8.6734093412	
col-85	8.6595841383	
Y68A4A.10	8.6531846656	
chil-15	8.6531846656	
C17G10.10	8.6531846656	
F56F11.1	8.6252405523	
str-143	8.6252405523	
C13A2.12	8.6010077679	
zmp-5	8.5967444698	

<i>col-52</i>	8.5967444698	
W09C2.9	8.5967444698	
<i>clcc-101</i>	8.5648831520	
W08E12.9	8.5380060416	
F35F10.7	8.5077149713	
<i>srj-23</i>	8.4767742398	
<i>scl-13</i>	8.4721248429	
C03H5.4	8.4451553682	
T13C5.10	8.4451553682	
<i>col-158</i>	8.4249954220	
<i>col-40</i>	8.4160908992	
<i>grl-25</i>	8.3679435992	
<i>grl-23</i>	8.3623407952	
<i>cut-1</i>	8.3489668420	
F15H10.5	8.3475681220	
<i>pals-6</i>	8.3264537385	
<i>col-50</i>	8.2968940360	
<i>col-102</i>	8.2354274728	
<i>col-36</i>	8.1770731522	
<i>col-72</i>	8.1758948170	
F47B8.13	8.0862438300	
<i>grl-9</i>	8.0049480838	
F07G11.1	7.9920689899	
<i>grl-20</i>	7.9793010676	
<i>col-43</i>	7.9427192380	
<i>col-84</i>	7.9362265688	
<i>col-44</i>	7.8208344554	
<i>cri-1</i>	7.8041693525	
<i>asp-9</i>	7.7249224148	
<i>col-45</i>	7.7155579688	
<i>daf-42</i>	7.6092721083	
<i>roc-1</i>	7.5042968541	
<i>spp-11</i>	7.4466157304	
<i>col-35</i>	7.4378905490	
K01D12.10	7.4235434897	
C33G8.13	7.4109644501	
Y57E12B.4	7.3693907473	
C10F3.7	7.2915223058	
<i>clcc-59</i>	7.2822627174	
C08A9.3	7.2092000018	+
<i>col-114</i>	7.0790054940	
ZK355.8	7.0584232676	
<i>grd-7</i>	7.0562802925	+
<i>fbxa-165</i>	6.9925941112	
<i>col-164</i>	6.9741703436	
C13A2.5	6.9590233001	
ZK355.3	6.8818952618	
<i>col-123</i>	6.8277538199	
<i>col-163</i>	6.8165929482	
<i>hsp-12.6</i>	6.7998048515	
<i>grl-19</i>	6.7868862221	
F23F1.2	6.7074946380	
<i>grl-24</i>	6.6893526528	
R05A10.1	6.6514327805	
F32G8.2	6.6359057667	
F53F4.4	6.5905106649	

Y6E2A.4	6.5882426273	
Y71F9AR.10	6.5541241402	
Y60C6A.3	6.4782968562	
H39E23.3	6.4619670867	
<i>tyr-3</i>	6.3933339477	
<i>grl-17</i>	6.3781746585	
<i>catp-2</i>	6.3421178700	
<i>droe-8</i>	6.2915945048	
C13A2.4	6.2631016547	
C13A2.3	6.1370885731	
C46A5.4	6.0676370680	
<i>acs-2</i>	6.0415850302	
K08D9.2	6.0401174322	
<i>cyp-33B1</i>	6.0335143122	
W01C9.2	5.9936130396	
H14N18.2	5.9832626873	
<i>grd-9</i>	5.9637987310	
K09E2.1	5.9626432555	
K08D9.6	5.9248473295	
<i>cpr-2</i>	5.8599826806	
<i>nas-10</i>	5.8307828215	
<i>pals-32</i>	5.7509061380	
<i>grd-4</i>	5.7216210449	
<i>dmd-10</i>	5.7195741932	
<i>nhr-246</i>	5.6817016154	
Y57E12B.1	5.6736163529	
<i>nas-28</i>	5.6729154236	
W07B8.4	5.6427805764	
F36G9.7	5.5959710902	
Y46H3A.5	5.5686571552	
F53F4.7	5.5632533922	
<i>pals-14</i>	5.4799171274	
F20D6.2	5.4230168305	
<i>cllec-228</i>	5.3955474278	
F59F5.4	5.3508101520	
<i>cest-35.2</i>	5.3465219765	
T20G5.12	5.3371693309	
<i>cllec-20</i>	5.3225273669	
Y38C1AB.7	5.3211420212	
C28D4.10	5.3125654231	+
<i>arrd-11</i>	5.2889661050	
<i>dmd-10</i>	5.2745215481	
W09C2.8	5.2219497769	
F59A6.10	5.1905195233	
C17G10.6	5.1494415475	
F32D8.8	5.1383349722	+
<i>zip-8</i>	5.1122397223	
T26C12.2	5.0983067488	
<i>lys-3</i>	5.0976135337	
C40H1.9	5.0657427325	
<i>lys-10</i>	5.0499377824	+
<i>mtl-1</i>	5.0172234098	
F20C5.7	5.0112879685	
<i>pals-37</i>	4.9883932857	
M02E1.4	4.9845582009	
W04G5.10	4.9232702547	

<i>pals-26</i>	4.8730112625	
<i>dos-3</i>	4.8728987271	
<i>fbxa-164</i>	4.8359773779	
Y9C9A.16	4.8267664688	
F15H10.10	4.8149568962	
<i>col-151</i>	4.7704875442	
<i>his-34</i>	4.7692471694	+
<i>pqn-97</i>	4.7588638195	
<i>pals-39</i>	4.7582260140	
<i>arrd-28</i>	4.7458374862	
<i>his-29</i>	4.7220416750	+
Y65B4BR.1	4.7137366522	
F26F2.1	4.7113889545	
C12D5.5	4.6997609112	
C29A12.6	4.6853620818	
C17C3.3	4.6796286640	
<i>pals-33</i>	4.6739556378	
Y34F4.2	4.6710642527	
<i>col-86</i>	4.6366883918	
<i>col-116</i>	4.6329221028	
Y47H9A.1	4.6227278930	
<i>cut-5</i>	4.6192877895	
<i>grl-3</i>	4.6192204635	+
<i>clec-61</i>	4.6161883157	
F45D11.16	4.6054984529	
F23B2.10	4.5536430772	
<i>oac-55</i>	4.5419444790	
<i>pals-27</i>	4.5041428815	
<i>col-33</i>	4.5032127744	
<i>tba-8</i>	4.4967102288	+
F07G11.4	4.4904482255	
Y116F11B.9	4.4881245622	
R07C12.1	4.4871107972	
F16B4.7	4.4848737567	
<i>cut-6</i>	4.4555476377	+
W01A11.7	4.4520524555	
F49H6.5	4.4332558117	
<i>sod-3</i>	4.4232749900	+
F53H2.1	4.4224758506	
ZC196.2	4.4143484475	
T22F3.11	4.4061918144	
W07A12.4	4.4016952748	
<i>lips-8</i>	4.3997577649	
C06E7.88	4.3719511629	
M60.7	4.3718175611	+
<i>clec-11</i>	4.3705989812	
F48F7.3	4.3521309721	
<i>col-171</i>	4.3396582497	
C36B7.4	4.3349689403	
<i>mltn-6</i>	4.3235464638	
<i>srh-146</i>	4.2954778334	
<i>fbxa-21</i>	4.2751897153	
F45D11.14	4.2726520541	
F45D11.15	4.2390029616	
T08E11.1	4.2158877601	
Y43F8B.23	4.1638696850	

<i>F10C2.7</i>	4.1436286926	
<i>col-87</i>	4.1346914817	
<i>cyp-35B1</i>	4.1300320937	
<i>his-28</i>	4.1049486208	+
<i>C13A2.1</i>	4.0977473792	+
<i>rgba-1</i>	4.0908354092	
<i>pals-30</i>	4.0908354092	
<i>his-17</i>	4.0511881737	+
<i>math-42</i>	4.0421045719	
<i>W03G1.5</i>	4.0367017594	
<i>Y110A2AL.4</i>	4.0299145976	
<i>M05D6.8</i>	4.0295926585	+
<i>T12D8.5</i>	4.0267636132	
<i>his-50</i>	4.0055018228	+
<i>his-1</i>	4.0017201240	+
<i>C48B4.13</i>	3.9823302693	+
<i>C50F7.5</i>	3.9759365454	
<i>pals-38</i>	3.9736115567	
<i>cllec-234</i>	3.9648606914	
<i>ZK218.3</i>	3.9637208552	
<i>F38B7.11</i>	3.9586994888	
<i>F42C5.3</i>	3.9470259117	+
<i>cllec-55</i>	3.9441204263	
<i>C05G5.7</i>	3.9271932956	
<i>lact-6</i>	3.9212947298	
<i>W03F9.4</i>	3.9092448149	+
<i>T14A8.2</i>	3.9001503126	+
<i>ref-2</i>	3.8986891608	
<i>his-27</i>	3.8916853069	+
<i>fbxa-138</i>	3.8893222602	
<i>arrd-16</i>	3.8788703307	
<i>C31H5.1</i>	3.8734965673	
<i>his-32</i>	3.8570123101	+
<i>F11A5.17</i>	3.8475316490	
<i>M03A1.3</i>	3.8280054019	
<i>Y73B6BL.37</i>	3.8273802533	
<i>F10B5.3</i>	3.8258596143	
<i>F13E9.8</i>	3.8132297945	
<i>his-49</i>	3.8112115493	+
<i>F14F3.4</i>	3.8010254424	
<i>Y47D3B.3</i>	3.7815035676	
<i>ZC443.3</i>	3.7753188764	+
<i>cllec-9</i>	3.7150948301	
<i>srh-2</i>	3.6925430627	+
<i>hpx-2</i>	3.6639114091	
<i>pqn-16</i>	3.6600915462	
<i>otpl-6</i>	3.6600915462	
<i>lipl-4</i>	3.6288269273	
<i>Y43F8B.15</i>	3.6210494792	
<i>ftn-1</i>	3.6203083874	
<i>C25F9.2</i>	3.6070644759	
<i>W04G5.9</i>	3.6056407779	
<i>lmd-4</i>	3.6016484947	
<i>ZC443.2</i>	3.5984520965	+
<i>F44A2.7</i>	3.5928874034	
<i>T14B1.1</i>	3.5918964742	

<i>icl-1</i>	3.5862175592	+
<i>znf-782</i>	3.5796938488	+
<i>asp-16</i>	3.5744420451	
<i>F01D4.8</i>	3.5672428550	
<i>K06C4.1</i>	3.5520137486	
<i>dlhd-1</i>	3.5473850370	
<i>C17D12.3</i>	3.5297149989	
<i>aqp-6</i>	3.5259141264	
<i>cest-7</i>	3.5232169868	
<i>ifas-2</i>	3.5206996687	
<i>T20D4.12</i>	3.4947787583	
<i>C35A5.11</i>	3.4938534200	+
<i>F12A10.9</i>	3.4721486190	
<i>cyp-13A3</i>	3.4715656217	+
<i>gst-3</i>	3.4710925082	
<i>tsp-17</i>	3.4615580698	+
<i>ins-11</i>	3.4568076262	+
<i>cutl-23</i>	3.4525052190	+
<i>Y47H10A.3</i>	3.4459699340	
<i>cng-3</i>	3.4424804882	
<i>cllec-34</i>	3.4351789867	
<i>T10C6.15</i>	3.4340218826	
<i>F20B6.4</i>	3.4243030263	
<i>srw-85</i>	3.4168025452	
<i>pals-2</i>	3.4147524019	
<i>W03D2.9</i>	3.4137286767	
<i>T06E4.7</i>	3.4013654660	+
<i>W09G12.8</i>	3.3917732950	
<i>his-11</i>	3.3814475429	+
<i>srx-128</i>	3.3812486864	
<i>cllec-17</i>	3.3799787587	
<i>Y18H1A.14</i>	3.3706181416	
<i>T05E11.8</i>	3.3553642176	
<i>his-15</i>	3.3534005218	+
<i>irl-34</i>	3.3516778417	+
<i>cyp-13A8</i>	3.3508541602	
<i>oac-40</i>	3.3496298148	
<i>ugt-4</i>	3.3461231270	
<i>R04B5.6</i>	3.3414207191	
<i>dod-3</i>	3.3405718641	
<i>W08E12.2</i>	3.3258915888	
<i>F14H8.2</i>	3.3249194617	
<i>fbxa-66</i>	3.3190237151	
<i>dach-1</i>	3.3093575839	
<i>fbxa-182</i>	3.3041505099	
<i>cpr-1</i>	3.2979664717	
<i>F26G1.3</i>	3.2976207002	
<i>C17F4.12</i>	3.2864720735	
<i>cllec-15</i>	3.2858853645	
<i>sre-6</i>	3.2841968884	
<i>fbxa-136</i>	3.2790594357	
<i>cllec-13</i>	3.2764535554	
<i>K03D3.2</i>	3.2732690877	+
<i>gcy-8</i>	3.2730235799	
<i>T26H5.8</i>	3.2724865475	
<i>nhr-221</i>	3.2716080645	

<i>his-44</i>	3.2663783946	+
Y39G8B.5	3.2521734441	
<i>txt-3</i>	3.2443211168	
<i>F10A3.1</i>	3.2431358480	
<i>nhr-30</i>	3.2369918948	
<i>F09F7.6</i>	3.2227360987	
<i>ZK185.4</i>	3.2214738563	
<i>cyp-23A1</i>	3.2209983602	
<i>F09C6.3</i>	3.2168504894	
<i>F32G8.3</i>	3.2080845757	
<i>clcc-78</i>	3.2047677818	+
<i>pqn-98</i>	3.1991463738	
Y39A1A.9	3.1975733785	
<i>rab-11.2</i>	3.1964239045	
<i>tsp-6</i>	3.1925701866	
<i>his-22</i>	3.1856971121	+
<i>F32D8.12</i>	3.1711368734	
<i>hil-1</i>	3.1700743842	
<i>mls-2</i>	3.1688939057	
<i>C08E3.13</i>	3.1662561693	
<i>F40F9.10</i>	3.1624040220	
<i>R07C12.3</i>	3.1549342933	
<i>nspg-5</i>	3.1499819187	
<i>T23F6.5</i>	3.1480907571	+
<i>irl-2</i>	3.1440956465	
<i>atf-8</i>	3.1432164351	
<i>his-45</i>	3.1390635327	+
<i>gpa-13</i>	3.1290163187	
<i>T07G12.4</i>	3.1252684870	
<i>nhr-159</i>	3.1189667872	
<i>cyp-35B2</i>	3.1189084631	
<i>ugt-53</i>	3.1170411926	
<i>his-6</i>	3.1082607580	+
<i>cyp-13A1</i>	3.1060991661	
<i>spp-2</i>	3.1058557118	
<i>sodh-1</i>	3.0993971096	+
<i>his-55</i>	3.0978911893	+
<i>cpr-4</i>	3.0918506931	
<i>hen-1</i>	3.0916851505	+
<i>clcc-60</i>	3.0877655546	
<i>ZK856.14</i>	3.0868606562	
<i>nhr-21</i>	3.0761231117	+
<i>R06A10.1</i>	3.0745285413	
<i>ugt-59</i>	3.0708864806	
<i>cut-3</i>	3.0673905901	+
<i>F09E10.6</i>	3.0671693813	
<i>B0310.3</i>	3.0624623721	
<i>npax-3</i>	3.0614531667	
<i>eol-1</i>	3.0605078516	
<i>fk-7</i>	3.0599709652	+
<i>zig-3</i>	3.0542214268	+
<i>T07H8.11</i>	3.0533268615	
<i>sel-7</i>	3.0506028297	+
<i>dyf-19</i>	3.0494954598	+
<i>his-59</i>	3.0491592797	+
<i>W04G5.8</i>	3.0411459228	

<i>F32D8.2</i>	3.0390618039	
<i>F07C4.6</i>	3.0384435763	
<i>nhr-137</i>	3.0370369330	
<i>kreg-1</i>	3.0361656453	
<i>DH11.2</i>	3.0281324932	
<i>T19C9.8</i>	3.0232888255	
<i>F33H12.7</i>	3.0196056308	
<i>R07A4.3</i>	3.0147033126	
<i>C09G5.13</i>	3.0142439885	
<i>mltn-1</i>	3.0086008027	+
<i>his-2</i>	3.0082117663	+
<i>F14D7.10</i>	3.0082117663	
<i>F43C11.8</i>	3.0068342998	
<i>F48C1.11</i>	3.0023346554	
<i>his-14</i>	2.9980402507	+
<i>his-4</i>	2.9975336729	+
<i>his-62</i>	2.9881354277	+
<i>his-10</i>	2.9862991687	+
<i>K03B4.8</i>	2.9861143438	
<i>Y39B6A.1</i>	2.9753941132	
<i>Y41D4A.1</i>	2.9625021305	
<i>E02H4.4</i>	2.9585866801	
<i>F37A4.6</i>	2.9577244467	+
<i>K02C4.2</i>	2.9543791244	+
<i>his-18</i>	2.9469998784	+
<i>R05A10.7</i>	2.9452990077	
<i>nhr-147</i>	2.9345339125	+
<i>C09B8.4</i>	2.9345339125	
<i>F32D8.11</i>	2.9326997393	
<i>ZC395.5</i>	2.9272408774	
<i>ZC204.12</i>	2.9204510997	+
<i>oac-56</i>	2.9197543381	
<i>E04D5.4</i>	2.9146960358	
<i>math-34</i>	2.9112633441	
<i>F37A8.5</i>	2.9108921344	+
<i>ZK105.13</i>	2.9096341922	
<i>EEED8.2</i>	2.8977457047	
<i>Y51B9A.9</i>	2.8941783347	
<i>mpst-2</i>	2.8881260707	
<i>skpo-2</i>	2.8817333804	+
<i>T20D4.11</i>	2.8806944444	
<i>his-63</i>	2.8683524968	+
<i>sqst-3</i>	2.8633890053	
<i>cky-1</i>	2.8628647778	
<i>F21C10.10</i>	2.8617919333	
<i>C04A11.5</i>	2.8613249550	+
<i>ZC239.14</i>	2.8598637019	
<i>skr-5</i>	2.8509125356	+
<i>bnc-1</i>	2.8492268884	
<i>his-12</i>	2.8485498440	+
<i>T22B7.3</i>	2.8469392437	+
<i>peb-1</i>	2.8419828793	+
<i>ZK1240.1</i>	2.8392902595	
<i>F07B7.8</i>	2.8392902595	
<i>cyp-37B1</i>	2.8170845559	
<i>clec-42</i>	2.8138395623	



<i>cutl-9</i>	2.8113969501	+
<i>his-9</i>	2.8093566389	+
<i>ceh-16</i>	2.8086815753	+
ZK836.3	2.8057401494	
C23H5.15	2.7948919135	
<i>his-52</i>	2.7927052626	+
<i>his-25</i>	2.7922138151	+
<i>his-13</i>	2.7912199217	+
Y22D7AL.16	2.7848857641	
M01B2.13	2.7794366875	
<i>ddo-2</i>	2.7781551510	
T12E12.6	2.7757245755	
<i>oac-37</i>	2.7741188705	
C12D5.3	2.7692211246	
<i>his-5</i>	2.7645756803	+
T01B10.5	2.7576677552	
F47B10.8	2.7555905215	+
F17B5.1	2.7370963108	
T10G3.8	2.7367954728	
F47B8.4	2.7304856149	
<i>anoh-1</i>	2.7238700391	
F32D1.11	2.7211200839	
<i>prdm-14</i>	2.7120621736	+
C39D10.5	2.7120621736	
<i>fbxa-52</i>	2.7120621736	
ZK993.2	2.7120621736	
Y116A8C.43	2.7086642770	
<i>fipr-24</i>	2.6964778529	
<i>bro-1</i>	2.6940445742	
<i>srd-53</i>	2.6905152349	
<i>his-16</i>	2.6882412501	+
<i>fbxa-24</i>	2.6845561696	
T05C1.3	2.6824903426	+
<i>his-54</i>	2.6763299861	+
C38D9.2	2.6583927339	+
<i>his-43</i>	2.6545992817	+
C18H9.1	2.6533237454	
B0507.6	2.6475117128	
<i>scl-2</i>	2.6399235041	
<i>his-60</i>	2.6378475408	+
<i>clec-12</i>	2.6349373946	
<i>his-46</i>	2.6200542354	+
<i>his-56</i>	2.6196170880	+
Y69H2.10	2.6168045307	
F47B10.3	2.6145108119	
<i>fbxa-166</i>	2.6136859578	
F44A6.5	2.6125573149	+
B0205.4	2.6107546346	
<i>btb-16</i>	2.6084386878	
T05A8.8	2.6063258865	
C26B9.7	2.6004273087	+
C14A11.2	2.5991460617	
<i>nnt-1</i>	2.5942214772	+
<i>nhr-260</i>	2.5938218784	
<i>his-20</i>	2.5932743963	+
<i>far-7</i>	2.5859547767	

F23H12.5	2.5856562868	
C03B1.5	2.5772435493	
<i>ins-35</i>	2.5717526244	+
<i>acr-14</i>	2.5706628366	
<i>rol-8</i>	2.5706006353	
T07G12.5	2.5688058958	
F26D11.2	2.5681964546	
<i>dhc-3</i>	2.5677643754	
<i>ast-1</i>	2.5659551712	
<i>trp-4</i>	2.5628759415	
<i>hacd-1</i>	2.5614801588	
T19C3.3	2.5581183238	
F42G2.5	2.5546369309	
F49C12.10	2.5545664591	
<i>cla-1</i>	2.5542519287	
<i>sre-4</i>	2.5532538881	
Y46G5A.38	2.5514127285	
C43H6.6	2.5509686513	
<i>his-66</i>	2.5490982904	+
<i>dpy-1</i>	2.5477415192	+
<i>slc-36.5</i>	2.5458460904	+
<i>gcy-36</i>	2.5456903616	
W09C2.7	2.5433979925	
<i>lmd-5</i>	2.5388527471	
C35A11.2	2.5385364285	
Y34F4.6	2.5345958294	
<i>comt-1</i>	2.5312261326	
<i>cyp-14A1</i>	2.5286136949	
<i>his-58</i>	2.5250556015	+
H40L08.3	2.5240900265	+
<i>cbn-1</i>	2.5197329870	+
<i>ugt-57</i>	2.5189085323	
<i>mfb-1</i>	2.5184795433	
<i>pag-3</i>	2.5144517270	
<i>oac-14</i>	2.5125216729	
<i>clcc-145</i>	2.5118303786	
C44F1.1	2.5111785879	
<i>fbxa-163</i>	2.5042706137	
F15B9.6	2.4968892948	
K03A11.4	2.4957693253	
<i>his-65</i>	2.4933350807	+
<i>math-37</i>	2.4911231125	
T06G6.6	2.4875889837	+
K02A2.5	2.4860381977	+
F57B9.3	2.4847706948	
<i>gpdh-1</i>	2.4841217674	+
ZK1225.1	2.4685264193	
<i>his-26</i>	2.4682001420	+
B0507.8	2.4653501072	
<i>his-48</i>	2.4642762973	+
<i>kqb-2</i>	2.4618880717	
C28C12.4	2.4600504012	
<i>nhr-208</i>	2.4590696963	+
C15F1.2	2.4576839541	
Y110A2AL.3	2.4555148541	
<i>his-47</i>	2.4509077293	+

<i>F47F2.3</i>	2.4479533162	
<i>pals-31</i>	2.4465860870	+
<i>his-57</i>	2.4442672866	+
Y71H2AM.25	2.4430513416	
<i>F26G1.9</i>	2.4395047112	+
<i>lim-4</i>	2.4365639390	
<i>col-46</i>	2.4187480409	
<i>Y6G8.2</i>	2.4147108052	
<i>F39F10.4</i>	2.4064563309	+
<i>F53A9.7</i>	2.4039768414	
<i>F32D8.3</i>	2.4035891819	+
<i>Y6E2A.5</i>	2.4031428624	
<i>F15E6.3</i>	2.4022018168	
<i>dct-1</i>	2.4016876401	
<i>K01A2.4</i>	2.3964880149	
<i>C54C8.4</i>	2.3958306964	
<i>Y49G5A.1</i>	2.3946795222	
<i>C54E4.12</i>	2.3946795222	
<i>T20D4.10</i>	2.3916306277	
<i>H41C03.1</i>	2.3914262166	+
<i>lys-4</i>	2.3892643115	+
<i>col-128</i>	2.3884742206	
<i>pef-1</i>	2.3855957336	
<i>C09G1.2</i>	2.3828790544	
<i>C06B3.6</i>	2.3732685731	+
<i>slc-36.3</i>	2.3716439740	+
<i>ZC13.10</i>	2.3708834672	
<i>cutl-14</i>	2.3675649118	+
<i>F20A1.6</i>	2.3668343822	+
<i>T04C12.8</i>	2.3635632324	
<i>C02G6.3</i>	2.3619589457	
<i>K09C4.4</i>	2.3614111123	
<i>mam-5</i>	2.3609539691	
<i>unk-1</i>	2.3583999634	
<i>gcy-3</i>	2.3553093991	
<i>lag-2</i>	2.3551011637	+
<i>K09F6.11</i>	2.3551011637	
<i>tax-2</i>	2.3505221167	
<i>F26F12.3</i>	2.3453436896	
<i>nas-23</i>	2.3414832324	
<i>ugt-52</i>	2.3403840238	
<i>C17F4.2</i>	2.3384737091	+
<i>mltn-3</i>	2.3335200894	
<i>mlt-11</i>	2.3327962272	
<i>cdh-7</i>	2.3306483894	
Y46G5A.36	2.3299751708	
<i>ZC443.4</i>	2.3294718494	
<i>C30B5.6</i>	2.3288449053	
<i>K09F6.10</i>	2.3281364692	
<i>K02H11.4</i>	2.3273765150	
<i>npax-1</i>	2.3258582311	+
<i>F26G1.10</i>	2.3255300982	
<i>C34F6.1</i>	2.3252494152	
<i>ZK54.3</i>	2.3243932679	
<i>F33H2.8</i>	2.3241470380	
<i>C05C8.8</i>	2.3209931414	

<i>col-176</i>	2.3209720923	
<i>odr-1</i>	2.3201754551	
<i>K10C9.1</i>	2.3201754551	
<i>fut-2</i>	2.3170652982	
<i>best-5</i>	2.3156212335	
<i>srg-7</i>	2.3155882891	
<i>hil-7</i>	2.3136625806	+
<i>acdh-2</i>	2.3086482336	
<i>grl-22</i>	2.3078294969	
<i>F57G12.2</i>	2.3039105184	
<i>R11G1.7</i>	2.2999931889	+
<i>acdh-1</i>	2.2996829474	+
<i>F35F10.1</i>	2.2987133546	
<i>Y110A2AL.9</i>	2.2978235762	
<i>aat-8</i>	2.2925483972	
<i>col-89</i>	2.2894731639	
<i>nlp-2</i>	2.2887596935	
<i>pals-1</i>	2.2887250351	
<i>C15C8.8</i>	2.2887111737	+
<i>lgc-1</i>	2.2887111737	+
<i>B0462.5</i>	2.2872964350	
<i>F38E11.6</i>	2.2856362742	+
<i>zmp-2</i>	2.2849107617	+
<i>cdh-10</i>	2.2847767177	
<i>del-8</i>	2.2841644919	
<i>T01D3.3</i>	2.2840786037	
<i>T17H7.1</i>	2.2826254610	
<i>acs-21</i>	2.2819626869	
<i>dpy-9</i>	2.2808587434	
<i>C39B5.14</i>	2.2796756784	
<i>tyr-1</i>	2.2796367427	+
<i>ptr-10</i>	2.2786479532	+
<i>bus-1</i>	2.2780565195	
<i>aptf-1</i>	2.2773193488	
<i>F47H4.2</i>	2.2769500652	
<i>twk-7</i>	2.2766811583	
<i>K09H11.6</i>	2.2755733131	
<i>ubc-8</i>	2.2750625660	
<i>F52C9.5</i>	2.2742605661	
<i>T04H1.12</i>	2.2729113327	
<i>ddn-1</i>	2.2721499576	
<i>C06G3.3</i>	2.2706492851	
<i>F35D2.6</i>	2.2685753062	
<i>C07A4.2</i>	2.2631435585	
<i>grl-10</i>	2.2626164151	+
<i>fbn-1</i>	2.2621135832	
<i>srd-49</i>	2.2612732331	
<i>T10G3.1</i>	2.2587682036	
<i>EGAP4.1</i>	2.2568276271	
<i>Y46E12BR.1</i>	2.2560217382	
<i>C07F11.2</i>	2.2557574139	
<i>T28F4.5</i>	2.2556406284	+
<i>rml-3</i>	2.2528300133	
<i>R04E5.7</i>	2.2515786055	
<i>Y2H9A.4</i>	2.2503006160	
<i>myrf-1</i>	2.2500578947	+

<i>scl-5</i>	2.2472657916	
Y37A1B.7	2.2428023247	+
<i>nhr-113</i>	2.2427917870	
K08F9.1	2.2407204338	
<i>lipl-2</i>	2.2397615242	
B0554.7	2.2390951276	
W09G12.7	2.2361384449	
<i>his-7</i>	2.2358171834	+
<i>maph-9</i>	2.2349582985	+
<i>cllec-72</i>	2.2336828506	
<i>math-28</i>	2.2333291197	
B0294.1	2.2314835948	
<i>lpr-1</i>	2.2312624094	+
T21B4.15	2.2308737788	
<i>fkf-7</i>	2.2306770330	
T22F7.3	2.2295445806	
C05E11.7	2.2293894901	
F48G7.10	2.2267503808	+
T02G5.3	2.2252412122	+
T04C12.7	2.2235057618	
F26A1.8	2.2234232841	
R03H10.2	2.2228749765	
<i>droe-4</i>	2.2169954775	
T27F6.8	2.2163551154	+
C54D10.9	2.2161855079	
Y71G12B.32	2.2147025415	
<i>ztf-14</i>	2.2135530940	
F54B11.10	2.2121314874	
ZC84.6	2.2111610274	
<i>fbxa-30</i>	2.2103892206	
K06A9.2	2.2078008819	
F20C5.5	2.2020196727	+
F09C6.11	2.1947352358	
<i>cllec-169</i>	2.1942125835	
Y4C6B.4	2.1940024791	
<i>cllec-47</i>	2.1935839562	
C06C3.12	2.1899966112	
<i>daao-1</i>	2.1881077802	
<i>nhr-19</i>	2.1852061255	
C30F2.4	2.1841963847	
<i>dod-20</i>	2.1835545695	
<i>his-64</i>	2.1833983515	+
<i>nhr-263</i>	2.1796474090	+
T20B3.1	2.1795846271	
C17G10.7	2.1792089481	+
<i>fbxl-1</i>	2.1783229968	+
<i>nhr-157</i>	2.1762281293	
<i>lgmn-1</i>	2.1761360774	
T08G5.15	2.1757627398	
C48D5.3	2.1736987897	
C17F4.3	2.1695889510	
Y105E8A.13	2.1673801012	+
C08D8.1	2.1662611786	
<i>lys-7</i>	2.1662331087	+
<i>aakg-4</i>	2.1651705419	
F57C9.6	2.1625795876	+

<i>nas-4</i>	2.1619733944	+
Y73B6BL.44	2.1614313966	
<i>tsp-1</i>	2.1603451033	
<i>glb-21</i>	2.1582754915	
F13G3.3	2.1535106452	
<i>acer-1</i>	2.1520368438	+
<i>fat-5</i>	2.1485948155	
<i>spp-18</i>	2.1474003899	
T12A7.6	2.1461467758	
R07E3.6	2.1460986072	
<i>nhr-150</i>	2.1456102571	
F42C5.4	2.1445171734	
<i>cup-16</i>	2.1431391617	
<i>let-4</i>	2.1428546910	
C08F11.3	2.1414852618	
R05H5.7	2.1409566472	
<i>igdb-3</i>	2.1401893430	+
C25E10.16	2.1399101245	
<i>tsp-2</i>	2.1380267344	
F47B8.2	2.1369889194	
F21H7.12	2.1360138933	+
<i>ztf-30</i>	2.1352461083	
F28G4.2	2.1345898519	
<i>clcc-82</i>	2.1343130569	
Y23H5B.3	2.1333341951	
<i>arl-3</i>	2.1293446765	
<i>dpy-7</i>	2.1280993019	
<i>wrt-2</i>	2.1263242492	
T14B4.19	2.1214765465	
R13H4.7	2.1174564280	
<i>igcm-1</i>	2.1167367759	
K02E10.5	2.1158035388	
<i>his-21</i>	2.1138129048	+
F44G3.10	2.1124946094	
<i>hsp-12.3</i>	2.1114617620	
<i>clcc-194</i>	2.1097512979	
W08E12.3	2.1079336281	
C27H5.6	2.1077641857	+
ZK757.1	2.1052528258	
<i>dhs-16</i>	2.1045015150	
<i>sru-40</i>	2.1009598220	
Y65B4BL.1	2.1002766203	+
C45G7.4	2.0979512952	+
K02E10.4	2.0957493217	
<i>dpy-8</i>	2.0949820493	
K02F6.8	2.0941927383	
<i>frpr-10</i>	2.0941927383	
<i>acc-1</i>	2.0934299475	+
<i>oac-29</i>	2.0910069059	
F35D2.1	2.0906578903	
Y44A6C.1	2.0898692106	
ZK971.1	2.0877245084	
W03D8.8	2.0871878992	
Y43C5A.3	2.0869477994	
C09F9.2	2.0859643287	
<i>nlp-52</i>	2.0818294871	

<i>dpy-10</i>	2.0807023821	+
<i>ceh-2</i>	2.0796515028	+
<i>nhr-227</i>	2.0796515028	
<i>F59G1.4</i>	2.0784703624	+
<i>atf-2</i>	2.0778348155	
<i>otpl-5</i>	2.0767327158	
<i>ttr-23</i>	2.0757595556	
<i>fbxa-158</i>	2.0731835404	
<i>F20C5.6</i>	2.0702871661	+
<i>fkh-8</i>	2.0699887203	
<i>faah-6</i>	2.0688921572	
<i>Y54G2A.76</i>	2.0683825217	
<i>twk-11</i>	2.0679153445	
<i>F01G10.6</i>	2.0653317240	
<i>ZC449.2</i>	2.0650589740	+
<i>ztf-2</i>	2.0617471934	
<i>F25E5.8</i>	2.0593689213	+
<i>wht-1</i>	2.0591755212	
<i>oac-24</i>	2.0579598205	
<i>C06E4.8</i>	2.0569468283	+
<i>igcm-2</i>	2.0536678721	+
<i>mltn-8</i>	2.0532439356	
<i>E04F6.9</i>	2.0522750021	
<i>Y41G9A.5</i>	2.0521487722	
<i>marc-5</i>	2.0518473864	
<i>math-15</i>	2.0468956945	
<i>cest-29</i>	2.0468956945	
<i>tag-272</i>	2.0448050941	
<i>bus-12</i>	2.0447473102	
<i>talp-3</i>	2.0417601545	
<i>hil-3</i>	2.0413895383	+
<i>C15C8.5</i>	2.0411656681	
<i>fozi-1</i>	2.0405655276	+
<i>dpf-6</i>	2.0378321278	
<i>T13C5.3</i>	2.0369924593	+
<i>H03E18.1</i>	2.0361361166	
<i>trpl-3</i>	2.0339552952	
<i>K10D3.4</i>	2.0333957554	
<i>col-172</i>	2.0307793706	
<i>osr-1</i>	2.0303629223	
<i>iron-1</i>	2.0301874687	
<i>clcc-75</i>	2.0282557538	
<i>K10H10.5</i>	2.0280001182	
<i>C14A4.9</i>	2.0265512716	+
<i>R03H10.7</i>	2.0263001533	+
<i>clcc-180</i>	2.0262390626	
<i>nhr-68</i>	2.0254352939	
<i>C15A7.2</i>	2.0252427859	
<i>C29F9.2</i>	2.0248688737	
<i>M01H9.3</i>	2.0221375622	+
<i>ZK593.2</i>	2.0218210480	
<i>F57F5.3</i>	2.0211232383	+
<i>B0348.2</i>	2.0193690876	
<i>noah-2</i>	2.0179281231	
<i>F13H6.5</i>	2.0158831310	
<i>cutl-21</i>	2.0135019565	

<i>T26C5.2</i>	2.0113781791	
<i>col-111</i>	2.0071525906	
<i>spi-1</i>	2.0071351283	+
<i>lpr-5</i>	2.0070436921	
<i>F45D3.4</i>	2.0067508087	+
<i>dgk-3</i>	2.0065024720	
<i>Y64H9A.2</i>	2.0045578060	+
<i>dex-1</i>	2.0027527073	
<i>R11D1.2</i>	2.0011049682	
<i>sup-26</i>	2.0007826429	+
<i>pzf-1</i>	-11.1774448148	+
<i>F43G6.7</i>	-10.2633281267	+
<i>vet-2</i>	-10.1308033891	+
<i>M151.3</i>	-9.6544046392	+
<i>T25E12.6</i>	-9.4298331635	+
<i>nspe-6</i>	-9.3768002659	
<i>F31F6.1</i>	-9.3029138949	+
<i>T24E12.1</i>	-9.2645014786	+
<i>Y67D8B.3</i>	-9.0997265377	
<i>skr-15</i>	-8.8631568291	+
<i>btb-7</i>	-8.8631568291	+
<i>fbxc-42</i>	-8.8631568291	+
<i>F17A2.13</i>	-8.8372179490	+
<i>Y71A12B.23</i>	-8.8108041499	
<i>ceh-40</i>	-8.8108041499	+
<i>C45H4.14</i>	-8.6709542721	+
<i>B0281.5</i>	-8.6709542721	+
<i>enri-2</i>	-8.5484121234	+
<i>skr-13</i>	-8.5484121234	+
<i>F02D10.6</i>	-8.5160782207	+
<i>gadr-2</i>	-8.4830029993	+
<i>C47F8.1</i>	-8.4491516677	+
<i>C46E10.8</i>	-8.4491516677	+
<i>F26G5.1</i>	-6.5215988549	+
<i>F12E12.1</i>	-6.1538236661	+
<i>vit-4</i>	-5.9935456841	+
<i>vit-3</i>	-5.8797465248	+
<i>F19H6.4</i>	-5.8275202988	+
<i>K04C1.5</i>	-5.7843894820	+
<i>W06D11.3</i>	-5.6073442481	+
<i>vet-1</i>	-5.5227437483	
<i>skr-7</i>	-5.4362779396	+
<i>skr-14</i>	-5.4244747282	+
<i>C17E7.4</i>	-5.4231019319	+
<i>spp-9</i>	-5.4132165616	
<i>T02G6.5</i>	-5.3417345260	+
<i>sea-1</i>	-5.3066529512	+
<i>nhr-2</i>	-5.2875593676	+
<i>tbx-33</i>	-5.2632531735	+
<i>F23D12.2</i>	-5.2485969669	+
<i>ceh-49</i>	-5.2214397080	+
<i>ztf-25</i>	-5.1681058736	+
<i>meg-1</i>	-5.1630464169	+
<i>F22E5.17</i>	-5.1034300489	+
<i>ZK177.1</i>	-5.0583494280	+
<i>R04D3.3</i>	-5.0447251073	+



<i>F53F8.3</i>	-5.0413664034	+
<i>meg-4</i>	-4.9991678730	+
<i>R04D3.4</i>	-4.9965275296	+
<i>fkh-3</i>	-4.9830693602	+
<i>sri-40</i>	-4.9282444734	+
<i>Y47D7A.7</i>	-4.8919963894	
<i>fbxa-170</i>	-4.8792988203	+
<i>Y45F10C.2</i>	-4.8669746296	
<i>cdc-25.3</i>	-4.8032298663	+
<i>rgs-11</i>	-4.7650235855	+
<i>C01G6.3</i>	-4.7486386227	+
<i>Y53G8AM.4</i>	-4.7460875262	
<i>C31G12.1</i>	-4.7452483472	+
<i>C49F5.3</i>	-4.7136882337	+
<i>F54F7.6</i>	-4.6888702331	+
<i>fbxc-32</i>	-4.6886013864	+
<i>dod-21</i>	-4.6816682629	
<i>F22F4.5</i>	-4.6694197939	
<i>vit-1</i>	-4.6463114377	+
<i>C04B4.2</i>	-4.6419930617	+
<i>ent-5</i>	-4.6341622665	+
<i>Y75D11A.3</i>	-4.6073368299	+
<i>ccch-5</i>	-4.5713231728	
<i>C32H11.9</i>	-4.5496800065	
<i>Y57G11B.5</i>	-4.5263757701	
<i>vit-5</i>	-4.5193713066	+
<i>dod-23</i>	-4.4731902387	+
<i>F02E8.4</i>	-4.4557792139	+
<i>C17E7.12</i>	-4.4347147307	+
<i>F14H3.6</i>	-4.4275385940	+
<i>rgs-9</i>	-4.4213025806	+
<i>ssp-19</i>	-4.4179515416	+
<i>F14H3.3</i>	-4.3961166559	+
<i>R09F10.8</i>	-4.3796469563	+
<i>F08F3.6</i>	-4.3354014800	+
<i>btb-6</i>	-4.3077954621	+
<i>F56D6.12</i>	-4.2837592825	
<i>meg-2</i>	-4.2690786513	+
<i>ugt-63</i>	-4.2321801170	+
<i>col-143</i>	-4.2200246044	
<i>nos-2</i>	-4.2172268064	+
<i>lsy-27</i>	-4.2033589019	+
<i>ttr-42</i>	-4.1905535208	+
<i>Y62H9A.3</i>	-4.1861682490	
<i>F40G12.11</i>	-4.1833517001	+
<i>T12G3.6</i>	-4.1691701320	+
<i>C08F11.12</i>	-4.1577868350	+
<i>F31F6.2</i>	-4.1561648155	+
<i>F31B9.3</i>	-4.1391411618	+
<i>Y41C4A.32</i>	-4.1353933186	
<i>F31F6.3</i>	-4.1334492697	+
<i>tbx-36</i>	-4.1333316875	+
<i>Y47D7A.6</i>	-4.1262639282	
<i>T24E12.11</i>	-4.1262639282	+
<i>Y62H9A.5</i>	-4.1206067583	+
<i>tbx-9</i>	-4.1142879654	+

K03A11.1	-4.1049481388	
<i>ule-5</i>	-4.0747783353	+
F14H3.4	-4.0655692738	+
W02D9.6	-4.0514840802	
C50E3.12	-4.0507097543	+
F15A4.10	-4.0145799353	+
R05G9.3	-4.0118468562	+
C50E3.11	-4.0111444176	+
M151.7	-4.0001688007	+
<i>nspb-4</i>	-3.9979798300	+
F14H3.5	-3.9815615586	+
Y17G7B.19	-3.9758648924	
E02H4.6	-3.9691717190	+
<i>rgs-8.2</i>	-3.9681515514	
<i>rgs-8.1</i>	-3.9502430491	+
Y25C1A.14	-3.9477598034	
T04D3.1	-3.9443185563	+
<i>meg-3</i>	-3.9432423472	+
<i>puf-5</i>	-3.9418253568	+
T06D4.1	-3.9406935892	+
<i>oac-20</i>	-3.9333189408	
F14D7.2	-3.9078952898	+
C27C12.3	-3.9061755736	+
ZK829.9	-3.9057039619	+
Y105C5B.20	-3.8935191344	+
<i>msrp-5</i>	-3.8605208958	+
<i>fbxc-50</i>	-3.8538622633	+
T01G5.7	-3.8333096232	+
C46C2.5	-3.7987387064	+
R09A8.2	-3.7837127712	+
<i>nas-27</i>	-3.7725123255	
R09A8.1	-3.7695233186	+
<i>try-1</i>	-3.7674181319	+
C50E3.13	-3.7640536911	+
F19B10.5	-3.7474439558	+
F02H6.2	-3.7442256027	+
F39F10.3	-3.7311518831	+
<i>clcc-91</i>	-3.7125635486	+
<i>hrg-4</i>	-3.7078930972	+
<i>oma-2</i>	-3.6812680964	+
B0513.4	-3.6811584477	+
F43G6.10	-3.6799822369	+
<i>clcc-87</i>	-3.6798426507	+
<i>fkh-4</i>	-3.6758358394	+
<i>perm-2</i>	-3.6661249399	+
F49F1.7	-3.6365555519	
<i>egg-1</i>	-3.6310050837	+
<i>pos-1</i>	-3.6248474318	+
<i>ule-3</i>	-3.6160973921	+
<i>ule-1</i>	-3.6145763851	+
Y49F6C.8	-3.5968826578	+
R04D3.2	-3.5906460588	+
Y51F10.2	-3.5711492836	+
Y66A7A.9	-3.5532936906	
C17E7.9	-3.5523342654	+
K08H2.3	-3.5374546715	+

<i>F02H6.3</i>	-3.5340470364	+
<i>B0416.4</i>	-3.5128181174	+
<i>K04G2.10</i>	-3.5061457201	+
<i>Y54F10AM.11</i>	-3.5021924974	+
<i>vit-2</i>	-3.4912748708	+
<i>cyp-13B2</i>	-3.4878845665	+
<i>F42A10.7</i>	-3.4873687493	
<i>ZC373.2</i>	-3.4872090154	
<i>msp-63</i>	-3.4868185111	+
<i>W02D9.7</i>	-3.4786288080	
<i>D1054.10</i>	-3.4758012779	+
<i>drd-50</i>	-3.4631137428	
<i>19H5.7</i>	-3.4540332349	
<i>cpg-1</i>	-3.4416082457	+
<i>T01C3.3</i>	-3.4313282764	+
<i>K10C2.8</i>	-3.4302413145	+
<i>msrp-6</i>	-3.4277548274	+
<i>msp-49</i>	-3.4259157466	+
<i>C35E7.5</i>	-3.4227141895	+
<i>era-1</i>	-3.4152081936	+
<i>rme-2</i>	-3.4036931691	+
<i>flh-3</i>	-3.3991329705	+
<i>gln-5</i>	-3.3979437123	+
<i>col-8</i>	-3.3977458210	+
<i>cpg-2</i>	-3.3925823244	+
<i>perm-4</i>	-3.3914309966	+
<i>gfat-2</i>	-3.3885183552	+
<i>msp-50</i>	-3.3871602105	+
<i>Y53H1C.3</i>	-3.3859107046	
<i>F54D10.7</i>	-3.3808592826	+
<i>cpg-3</i>	-3.3797979056	+
<i>T15H9.5</i>	-3.3744162157	
<i>ZC412.8</i>	-3.3733648480	
<i>W05F2.3</i>	-3.3730085882	+
<i>scl-17</i>	-3.3703196954	
<i>nspe-1</i>	-3.3559520196	
<i>col-178</i>	-3.3519573293	+
<i>C05C10.5</i>	-3.3506590140	+
<i>H12D21.3</i>	-3.3487534982	
<i>col-20</i>	-3.3476986063	+
<i>K09E3.7</i>	-3.3194920403	+
<i>col-137</i>	-3.3096226744	+
<i>ceh-83</i>	-3.3014332912	+
<i>C01G8.1</i>	-3.2954135406	+
<i>puf-3</i>	-3.2953127976	+
<i>col-119</i>	-3.2897527378	+
<i>ZK813.1</i>	-3.2830469633	
<i>ZK813.3</i>	-3.2771905405	
<i>ZC190.7</i>	-3.2730227804	
<i>clec-97</i>	-3.2729596845	
<i>Y37D8A.19</i>	-3.2592806148	+
<i>Y62H9A.4</i>	-3.2563647815	+
<i>ZC308.4</i>	-3.2527660911	+
<i>mex-1</i>	-3.2466605892	+
<i>ssp-33</i>	-3.2464224871	+
<i>vit-6</i>	-3.2367408169	+

<i>nspg-7.2</i>	-3.2281980268	
<i>BE10.5</i>	-3.2189901082	
<i>chs-1</i>	-3.2134174953	+
<i>C24D10.5</i>	-3.2081075866	+
<i>T20B6.1</i>	-3.1914218039	
<i>F08B4.8</i>	-3.1910169167	
<i>msp-38</i>	-3.1887677540	+
<i>T21C9.13</i>	-3.1863760093	+
<i>col-181</i>	-3.1828401867	+
<i>egg-3</i>	-3.1821654172	+
<i>C45B2.1</i>	-3.1749035402	+
<i>gyg-2</i>	-3.1721911633	+
<i>W06D11.1</i>	-3.1656571697	+
<i>nspc-2</i>	-3.1629117705	
<i>col-179</i>	-3.1619609329	
<i>egg-5</i>	-3.1590712539	+
<i>F08H9.2</i>	-3.1537863820	+
<i>ssp-10</i>	-3.1496284082	+
<i>memi-3</i>	-3.1483004267	+
<i>col-101</i>	-3.1453615303	+
<i>K08C9.1</i>	-3.1451787101	+
<i>F36D1.4</i>	-3.1411810336	
<i>EEED8.3</i>	-3.1231406369	+
<i>Y4C6A.3</i>	-3.1213828989	+
<i>msp-65</i>	-3.1207249845	+
<i>msp-58</i>	-3.1115679607	+
<i>C10G8.4</i>	-3.1077775123	+
<i>msp-64</i>	-3.1029743840	+
<i>col-122</i>	-3.0934352907	
<i>cyb-2.2</i>	-3.0918937257	+
<i>col-140</i>	-3.0882223557	
<i>F58A6.9</i>	-3.0833479223	
<i>col-80</i>	-3.0802756965	+
<i>puf-11</i>	-3.0776611955	+
<i>C30G12.2</i>	-3.0760222242	
<i>col-96</i>	-3.0712689214	
<i>C04H5.7</i>	-3.0675269940	+
<i>T10B5.8</i>	-3.0648261667	
<i>egg-2</i>	-3.0563644857	+
<i>F53F4.18</i>	-3.0545144953	
<i>lido-12</i>	-3.0543205355	+
<i>ssq-1</i>	-3.0521096423	+
<i>Y39E4B.5</i>	-3.0487950911	+
<i>mesp-1</i>	-3.0478836942	+
<i>col-142</i>	-3.0432025404	
<i>col-124</i>	-3.0385009029	+
<i>mrac-3</i>	-3.0245255086	+
<i>T10C6.7</i>	-3.0217708187	+
<i>F55B11.3</i>	-3.0178868614	+
<i>msp-76</i>	-3.0166694515	+
<i>T09B4.3</i>	-3.0113874932	
<i>ht-3</i>	-3.0042100846	+
<i>T22B7.7</i>	-2.9994538638	
<i>mex-6</i>	-2.9990230006	+
<i>nspc-5</i>	-2.9941897842	
<i>F10D11.3</i>	-2.9926401377	+

<i>clec-88</i>	-2.9911382635	+
<i>C29F7.10</i>	-2.9901652087	+
<i>msp-152</i>	-2.9868148646	+
<i>F32D1.7</i>	-2.9824727734	+
<i>nep-7</i>	-2.9816920808	
<i>nsph-4.1</i>	-2.9694438069	
<i>clec-175</i>	-2.9626497281	+
<i>msrp-4</i>	-2.9583976169	
<i>F48E3.4</i>	-2.9573154700	+
<i>C06C6.7</i>	-2.9459181580	+
<i>T27A8.2</i>	-2.9455763417	+
<i>F22E5.1</i>	-2.9423691040	
<i>gln-6</i>	-2.9383360692	+
<i>nspd-2</i>	-2.9382598092	+
<i>msp-78</i>	-2.9377192272	+
<i>col-19</i>	-2.9355248066	
<i>ZK813.2</i>	-2.9295753958	
<i>msp-113</i>	-2.9291854688	+
<i>R102.8</i>	-2.9246071935	+
<i>ZK39.10</i>	-2.9239203560	
<i>col-184</i>	-2.9223342175	
<i>ZK813.7</i>	-2.9192650039	
<i>T16G1.13</i>	-2.9180804311	
<i>fbxb-67</i>	-2.9170752108	+
<i>msd-4</i>	-2.9022231519	+
<i>puf-7</i>	-2.8994794145	+
<i>Y71F9B.15</i>	-2.8982071873	
<i>H08M01.1</i>	-2.8961247141	+
<i>msp-59</i>	-2.8959363772	+
<i>C10A4.4</i>	-2.8933727878	+
<i>ssp-34</i>	-2.8868768232	
<i>nspd-10</i>	-2.8848366822	
<i>nspc-6</i>	-2.8846107912	
<i>col-93</i>	-2.8761579404	
<i>puf-6</i>	-2.8704686705	+
<i>Y38C1AA.7</i>	-2.8685230114	
<i>kca-1</i>	-2.8676140674	+
<i>spn-4</i>	-2.8668186649	+
<i>msp-33</i>	-2.8667490803	+
<i>nspd-4</i>	-2.8643831134	
<i>msp-45</i>	-2.8604437841	+
<i>skpo-1</i>	-2.8547272490	+
<i>W10G11.3</i>	-2.8491714695	
<i>msp-3</i>	-2.8472284256	+
<i>nspe-2</i>	-2.8471751271	+
<i>T11F8.1</i>	-2.8448125477	+
<i>gna-2</i>	-2.8430123676	+
<i>msp-77</i>	-2.8426011828	+
<i>C39D10.7</i>	-2.8400677470	+
<i>col-106</i>	-2.8388910487	
<i>F18A1.7</i>	-2.8363943546	+
<i>msp-36</i>	-2.8250078044	+
<i>ZK402.5</i>	-2.8227956663	+
<i>ssp-9</i>	-2.8199359948	+
<i>msp-10</i>	-2.8185400383	+
<i>ssq-2</i>	-2.8170039212	

<i>K07A1.6</i>	-2.8121380989	+
<i>msrp-3</i>	-2.8095233309	+
<i>cbd-1</i>	-2.8089157034	+
<i>Y75B12B.1</i>	-2.8022167887	+
<i>cpar-1</i>	-2.7982284683	+
<i>ssq-4</i>	-2.7961572249	
<i>nspc-1</i>	-2.7960241360	
<i>R03G8.6</i>	-2.7957110258	
<i>F34D10.8</i>	-2.7953005350	+
<i>F36D3.16</i>	-2.7899320535	
<i>col-81</i>	-2.7854878564	
<i>srg-10</i>	-2.7841591848	
<i>F17E9.5</i>	-2.7760771715	+
<i>F55B11.2</i>	-2.7753224019	+
<i>Y48B6A.10</i>	-2.7660440233	+
<i>rmd-1</i>	-2.7654617323	+
<i>ssp-11</i>	-2.7651795879	
<i>Y39F10C.3</i>	-2.7616301842	
<i>Y51B9A.5</i>	-2.7606334017	
<i>abu-2</i>	-2.7606226962	
<i>C11E4.7</i>	-2.7598892415	
<i>col-7</i>	-2.7592776548	
<i>msp-79</i>	-2.7588466196	+
<i>dct-19</i>	-2.7571150879	
<i>nspd-3</i>	-2.7561933627	
<i>msp-51</i>	-2.7548454037	+
<i>T07E3.2</i>	-2.7545485271	
<i>EEED8.15</i>	-2.7489472870	+
<i>H29C22.1</i>	-2.7477803374	+
<i>col-88</i>	-2.7449079583	
<i>B0261.5</i>	-2.7430142101	+
<i>F57C2.4</i>	-2.7401850466	+
<i>F27C1.1</i>	-2.7390188302	+
<i>msp-142</i>	-2.7371569543	+
<i>msd-1</i>	-2.7309270323	+
<i>egg-4</i>	-2.7303846224	+
<i>spsb-2</i>	-2.7290943423	+
<i>nspe-4</i>	-2.7278472039	+
<i>nspd-5</i>	-2.7270058627	+
<i>C10C5.3</i>	-2.7264804489	+
<i>F53B6.4</i>	-2.7251419472	+
<i>mex-5</i>	-2.7249365392	+
<i>Y73B6BL.288</i>	-2.7228533197	+
<i>col-133</i>	-2.7219218825	
<i>sss-1</i>	-2.7187272035	+
<i>C44B7.5</i>	-2.7180654426	+
<i>C33F10.1</i>	-2.7169821460	
<i>R04A9.9</i>	-2.7163643283	
<i>F21H7.5</i>	-2.7112954860	+
<i>Y45F10C.4</i>	-2.7023027981	
<i>irld-18</i>	-2.7012194676	
<i>34I24.1</i>	-2.7001671169	+
<i>nspd-1</i>	-2.6988967082	
<i>tdc-1</i>	-2.6980445221	+
<i>F36H2.6</i>	-2.6939566159	
<i>Y106G6A.4</i>	-2.6938915595	

<i>pqn-90</i>	-2.6936192826	
Y51A2B.6	-2.6933212700	
<i>ssp-37</i>	-2.6924109207	
<i>msd-2</i>	-2.6886839601	
<i>col-129</i>	-2.6860744057	+
<i>T27E7.1</i>	-2.6854609570	+
<i>col-139</i>	-2.6838419470	
<i>nspd-7</i>	-2.6834808913	
<i>msd-3</i>	-2.6822254100	+
<i>ubxn-5</i>	-2.6789048239	
<i>ttr-50</i>	-2.6785468712	+
<i>memi-2</i>	-2.6763809882	+
K03B4.6	-2.6742547707	
T08B2.12	-2.6740302747	
K11D12.13	-2.6730925709	+
W06A7.4	-2.6724518633	+
F26B1.8	-2.6699597614	
Y59E9AR.7	-2.6690017071	+
<i>memi-1</i>	-2.6670946738	+
Y47D3B.12	-2.6661970549	
<i>oma-1</i>	-2.6654302348	+
T24D1.3	-2.6644117420	+
F53H4.2	-2.6626259432	
<i>msp-31</i>	-2.6589888419	+
C48E7.7	-2.6589743152	+
F10C1.3	-2.6579556345	+
<i>szy-4</i>	-2.6575725295	+
<i>trcs-1</i>	-2.6555813436	+
<i>msp-19</i>	-2.6537994870	+
F41E6.1	-2.6522689186	
W06B4.1	-2.6487033550	+
D1086.6	-2.6469886080	
T04G9.7	-2.6467269126	+
K08D8.11	-2.6442074362	
F56D6.19	-2.6442074362	
F59A6.12	-2.6411241189	+
<i>nsph-4.2</i>	-2.6405105356	
C15C6.2	-2.6394643366	+
C34F11.2	-2.6379468366	+
Y59E9AR.1	-2.6343908692	
<i>nspd-6</i>	-2.6239371340	+
<i>tbh-1</i>	-2.6231812592	+
D1086.11	-2.6222303789	+
<i>cyb-2.1</i>	-2.6187883226	+
C17F3.1	-2.6152035506	+
C34D4.3	-2.6145964594	+
<i>perm-1</i>	-2.6144078719	+
<i>clec-218</i>	-2.6093461173	
Y46B2A.4	-2.6075320816	
<i>sysm-1</i>	-2.6028201256	
<i>msp-81</i>	-2.5988194148	+
W03B1.3	-2.5923472831	
C44B9.3	-2.5903255376	+
<i>nsph-3.2</i>	-2.5891792586	+
Y71G12B.33	-2.5842266011	
<i>rpl-42</i>	-2.5795729413	+

T10C6.10	-2.5770444229	+
col-62	-2.5700535547	
Y67D8B.5	-2.5676276764	
F36H12.5	-2.5653292326	+
Y69E1A.1	-2.5583049789	
mpst-6	-2.5549872267	
mpst-5	-2.5513380829	
Y49E10.29	-2.5502760879	
F58B4.7	-2.5437574829	
Y53F4B.24	-2.5419073370	
F55B11.5	-2.5409990613	+
msp-55	-2.5380169031	+
Y18D10A.11	-2.5377829363	+
Y52B11A.8	-2.5372056108	+
F59A1.13	-2.5368556953	
C27D9.1	-2.5359960788	+
nasp-2	-2.5325824779	+
Y39G10AR.16	-2.5324433459	
F49D11.14	-2.5281374440	
W09C3.7	-2.5258754850	
C30G7.4	-2.5239857485	+
D2045.5	-2.5188990959	+
Y39B6A.10	-2.5175498873	+
C45B11.8	-2.5134537696	+
Y38F2AR.10	-2.5129120429	
cey-2	-2.5109868659	+
F36D3.4	-2.5086663668	+
B0025.5	-2.5083518916	
C28D4.7	-2.5042944424	+
B0524.2	-2.5030932029	+
C18G1.9	-2.5025437966	+
F52F12.8	-2.5007035855	+
ZK1307.4	-2.4989318597	
F35H8.4	-2.4971346206	+
nsph-3.1	-2.4965383746	
lido-9	-2.4963790469	+
R09E10.6	-2.4957775375	+
nspb-7	-2.4952373759	
F33D11.1	-2.4947076307	+
ZK938.1	-2.4936772264	
H11L12.1	-2.4882042995	+
parg-2	-2.4864723792	
F13A2.4	-2.4863008962	+
F21F8.5	-2.4788226334	+
mei-2	-2.4776689148	+
F48C1.9	-2.4768309299	
msp-74	-2.4721364068	+
Y51H7C.3	-2.4687729435	+
F41H10.1	-2.4673404471	
abu-9	-2.4629612358	
msp-56	-2.4613310941	+
nep-10	-2.4577997431	+
C53B4.3	-2.4559741127	
msp-53	-2.4516642724	+
ssp-31	-2.4506681536	
col-159	-2.4465809754	



<i>dml-1</i>	-2.4464321392	
<i>E02H9.7</i>	-2.4421661881	+
<i>Y57A10B.7</i>	-2.4387488927	
<i>C05B5.12</i>	-2.4376850622	
<i>C02F5.2</i>	-2.4365761432	+
<i>F55H12.5</i>	-2.4355065520	+
<i>Y106G6H.13</i>	-2.4346290037	
<i>F59H6.15</i>	-2.4334187515	
<i>F54D5.5</i>	-2.4330360940	+
<i>F30A10.12</i>	-2.4287080971	+
<i>C05B5.2</i>	-2.4275321132	+
<i>C14B1.9</i>	-2.4273430126	+
<i>pqn-57</i>	-2.4262832390	
<i>C33F10.11</i>	-2.4231850563	+
<i>fat-7</i>	-2.4200677094	
<i>T05F1.2</i>	-2.4195204436	+
<i>nspb-3</i>	-2.4182463128	
<i>F56D6.14</i>	-2.4170611898	
<i>Y52D5A.2</i>	-2.4165686844	
<i>msrp-2</i>	-2.4150537484	
<i>ZK84.5</i>	-2.4138454017	
<i>K07F5.17</i>	-2.4103840813	+
<i>C04F12.12</i>	-2.4103840813	
<i>nsph-2</i>	-2.4088070030	+
<i>Y6E2A.10</i>	-2.4074674259	
<i>M02H5.8</i>	-2.4069538928	
<i>DY3.8</i>	-2.4060255799	+
<i>ssp-35</i>	-2.4037082291	+
<i>T23B3.5</i>	-2.4023192537	+
<i>T05G5.4</i>	-2.3978950317	+
<i>C10C5.5</i>	-2.3928140896	
<i>nspe-8</i>	-2.3912940447	
<i>F47D12.7</i>	-2.3874218737	+
<i>F52D2.12</i>	-2.3862983179	+
<i>T22A3.12</i>	-2.3822663984	+
<i>F47B3.2</i>	-2.3806430231	+
<i>W03B1.5</i>	-2.3806430231	
<i>F17E9.4</i>	-2.3757669080	+
<i>msrp-1</i>	-2.3685560750	+
<i>mom-2</i>	-2.3666369983	+
<i>F52H3.6</i>	-2.3645142493	+
<i>nlp-25</i>	-2.3640728248	
<i>C32E12.1</i>	-2.3638994477	+
<i>acp-3</i>	-2.3632373089	+
<i>K04G2.4</i>	-2.3610327411	+
<i>F35C5.1</i>	-2.3602852144	+
<i>C50E10.1</i>	-2.3559617100	
<i>fipr-7</i>	-2.3526263657	+
<i>C47A4.5</i>	-2.3515345322	
<i>C08A9.10</i>	-2.3514866192	+
<i>F41G3.5</i>	-2.3480030692	+
<i>C55C3.6</i>	-2.3422511893	
<i>R105.1</i>	-2.3405276283	+
<i>nspe-3</i>	-2.3379091317	
<i>F36A4.5</i>	-2.3377561253	+
<i>T08B6.9</i>	-2.3368156810	

<i>F26F4.2</i>	-2.3360434363	+
<i>F47B8.10</i>	-2.3339941695	+
<i>T04B2.8</i>	-2.3310081556	
<i>Y22D7AR.10</i>	-2.3283787909	+
<i>lec-153</i>	-2.3283406505	
<i>C46E10.1</i>	-2.3255942618	
<i>Y45F10B.3</i>	-2.3247767014	
<i>gipc-2</i>	-2.3232046043	+
<i>M162.7</i>	-2.3191922919	+
<i>T03F6.6</i>	-2.3179940095	
<i>spe-12</i>	-2.3178843747	
<i>misp-57</i>	-2.3175144185	+
<i>fbxa-215</i>	-2.3137854622	+
<i>K01D12.7</i>	-2.3137391041	+
<i>K07A1.5</i>	-2.3131819207	+
<i>ZK849.6</i>	-2.3079468376	
<i>cylc-1</i>	-2.3072763143	+
<i>F36A4.4</i>	-2.3070225434	
<i>dgtr-1</i>	-2.3049976639	+
<i>M02B1.4</i>	-2.3049322479	+
<i>K06A5.2</i>	-2.3036140028	
<i>C09B9.4</i>	-2.3026761563	+
<i>Y53F4B.36</i>	-2.3000979540	
<i>rmd-3</i>	-2.2999008674	+
<i>Y59H11AM.1</i>	-2.2992354842	
<i>C10G11.8</i>	-2.2983034124	+
<i>T23G11.1</i>	-2.2978195201	
<i>T04B2.7</i>	-2.2968442196	
<i>K08A2.2</i>	-2.2967609812	+
<i>smz-1</i>	-2.2946548882	+
<i>T12B5.15</i>	-2.2941295316	
<i>nspa-1</i>	-2.2928497718	
<i>ule-4</i>	-2.2928460692	+
<i>C39H7.1</i>	-2.2926004696	+
<i>nspa-5</i>	-2.2902751724	
<i>nos-1</i>	-2.2893733307	+
<i>Y66D12A.3</i>	-2.2872588299	
<i>27B7.6</i>	-2.2868605900	+
<i>rgs-10</i>	-2.2856207419	+
<i>nduo-3</i>	-2.2837746640	
<i>spe-27</i>	-2.2812393903	
<i>gpd-1</i>	-2.2779952393	+
<i>ZK858.2</i>	-2.2689104582	
<i>ZC53.1</i>	-2.2673148068	+
<i>C50F7.3</i>	-2.2669772999	+
<i>T20B6.2</i>	-2.2660888611	
<i>W03D8.3</i>	-2.2659489802	+
<i>F28A10.7</i>	-2.2652724455	
<i>F36A2.10</i>	-2.2643396864	+
<i>col-141</i>	-2.2634691824	
<i>F36H12.4</i>	-2.2628066204	+
<i>C16A11.7</i>	-2.2619884961	
<i>nspb-1</i>	-2.2585095385	
<i>F20D6.6</i>	-2.2557268052	+
<i>misp-40</i>	-2.2529404085	+
<i>B0261.6</i>	-2.2517353393	+

C47A4.3	-2.2476093390	+
<i>lido-16</i>	-2.2470285308	
Y43F8C.9	-2.2464062509	
F56D6.13	-2.2436198518	
C05C12.5	-2.2432257330	+
<i>nas-20</i>	-2.2431357046	
C46H11.6	-2.2407953424	+
C27D8.2	-2.2397748862	+
K01H12.4	-2.2355760447	+
<i>pie-1</i>	-2.2333559870	+
<i>snb-6</i>	-2.2331681809	
C14C10.1	-2.2321363648	+
<i>dct-9</i>	-2.2274058186	+
<i>efn-3</i>	-2.2246315532	+
R102.10	-2.2226183416	+
Y59H11AM.4	-2.2208951570	
T22D1.5	-2.2198567990	+
E03H12.5	-2.2185956048	+
Y51A2B.5	-2.2183484683	
ZC449.8	-2.2176535390	+
<i>fipr-8</i>	-2.2168972653	
<i>fbxa-147</i>	-2.2158089021	
<i>wdr-5.3</i>	-2.2140239192	+
Y43F8C.5	-2.2124387920	
<i>mex-3</i>	-2.2116045174	+
C14A6.6	-2.2109767312	+
Y41E3.18	-2.2106429051	
<i>acs-15</i>	-2.2081312894	+
C45B2.8	-2.2030138492	
F32H2.7	-2.2017166447	+
F43E2.6	-2.2004714355	+
<i>ddo-3</i>	-2.1981428178	+
K08D12.6	-2.1971900199	+
R08A2.1	-2.1953481006	+
K04H4.5	-2.1952890915	+
F13A7.1	-2.1936843150	+
<i>inx-22</i>	-2.1933791204	+
T16G12.8	-2.1917971138	+
<i>nspb-8</i>	-2.1914816562	
T06A10.107	-2.1894457348	
D2062.1	-2.1885779008	+
C27D8.1	-2.1878123714	+
<i>cyb-1</i>	-2.1872820447	+
R10E9.2	-2.1868020438	+
F46F5.10	-2.1855121272	
Y38H8A.4	-2.1854273504	
F16C3.4	-2.1831877821	+
C04F12.7	-2.1826803744	+
<i>spch-3</i>	-2.1824049931	+
<i>cyb-3</i>	-2.1813258571	+
Y38E10A.17	-2.1810901957	+
F42A9.3	-2.1808865691	
K07H8.7	-2.1789277128	+
<i>spch-1</i>	-2.1781865489	+
B0379.7	-2.1780418624	+
T13F3.8	-2.1770752938	+

<i>B0379.2</i>	-2.1764480937	+
<i>snf-2</i>	-2.1753427168	+
<i>spch-2</i>	-2.1713609007	+
<i>F36H1.3</i>	-2.1707634130	+
<i>aptf-2</i>	-2.1701131925	+
<i>clp-8</i>	-2.1696981396	+
<i>Y71G12B.22</i>	-2.1686691686	
<i>gsp-4</i>	-2.1686296497	+
<i>F54F7.3</i>	-2.1664267973	
<i>K02F6.7</i>	-2.1658048072	+
<i>Y57G11A.2</i>	-2.1645108429	
<i>Y51H7C.9</i>	-2.1642963976	
<i>R10E4.6</i>	-2.1642897000	+
<i>W03B1.9</i>	-2.1628427935	
<i>phy-3</i>	-2.1620474721	+
<i>C45G9.9</i>	-2.1619033913	+
<i>T23F11.2</i>	-2.1618877751	+
<i>T28B8.6</i>	-2.1607116624	
<i>C01G12.9</i>	-2.1600530992	+
<i>Y57G11C.23</i>	-2.1594072162	
<i>F58E6.5</i>	-2.1575299528	+
<i>W04A4.2</i>	-2.1542001051	+
<i>Y43C5B.3</i>	-2.1538011039	
<i>W04E12.4</i>	-2.1518734123	+
<i>K12B6.11</i>	-2.1502826403	
<i>irld-8</i>	-2.1501747290	+
<i>nspb-10</i>	-2.1500406686	
<i>C35B1.4</i>	-2.1497977466	+
<i>F21D9.2</i>	-2.1491867144	
<i>smz-2</i>	-2.1474920267	+
<i>K10D6.3</i>	-2.1438822185	+
<i>ZC250.5</i>	-2.1423167132	
<i>cyp-31A5</i>	-2.1418780203	+
<i>pph-4.2</i>	-2.1408562036	+
<i>C43G2.3</i>	-2.1407263633	+
<i>ZK353.3</i>	-2.1404219087	
<i>clcc-209</i>	-2.1379370605	
<i>C02F5.5</i>	-2.1378350827	+
<i>ZK354.6</i>	-2.1363458799	
<i>nep-19</i>	-2.1350785416	
<i>F25H5.8</i>	-2.1343617390	+
<i>R02F2.4</i>	-2.1341662963	+
<i>W09D6.4</i>	-2.1337294810	+
<i>F56A4.2</i>	-2.1320600165	
<i>Y57G11C.52</i>	-2.1319759800	
<i>C27D6.11</i>	-2.1316703320	+
<i>Y53F4B.19</i>	-2.1293269464	
<i>C55C3.4</i>	-2.1283252652	+
<i>F26E4.5</i>	-2.1282380444	+
<i>T16A9.5</i>	-2.1246086250	
<i>snf-5</i>	-2.1243847288	
<i>F54H12.5</i>	-2.1232509843	+
<i>kfp-15</i>	-2.1218864631	+
<i>Y53C10A.10</i>	-2.1216665812	+
<i>Y23H5B.12</i>	-2.1213510305	
<i>K01D12.15</i>	-2.1210721409	+

F30A10.13	-2.1200024324	+
Y71G12B.3	-2.1189060923	
F21F3.2	-2.1170722044	+
col-126	-2.1162441444	
clp-6	-2.1161863856	
acdh-5	-2.1154531039	+
K09E4.1	-2.1139269210	+
C17C3.11	-2.1133312502	+
C06A1.3	-2.1132031401	+
R13H9.5	-2.1125997105	+
F40H6.1	-2.1070142142	+
neg-1	-2.1058899408	+
C17H12.12	-2.1030885285	+
F30A10.14	-2.1011576536	+
C27D6.3	-2.0991468303	+
Y116A8C.23	-2.0987865909	
decr-1.1	-2.0971636653	+
T28B8.4	-2.0964891767	
C33C12.4	-2.0932286318	+
K07A3.3	-2.0929401485	+
Y73F8A.20	-2.0923737912	
col-127	-2.0913035623	
C02E7.7	-2.0908239131	+
M28.9	-2.0907950521	+
W03D8.5	-2.0890909060	
Y39E4A.1	-2.0886997040	
C32E8.4	-2.0883279537	+
nep-8	-2.0877752251	+
F55D12.6	-2.0856613981	
cyp-31A2	-2.0847214256	+
htas-1	-2.0829923796	+
K08F4.5	-2.0816084098	+
T05D4.5	-2.0793329199	
F13H8.12	-2.0787168071	+
cav-1	-2.0740851776	+
Y57G11C.14	-2.0736904926	+
K04C2.8	-2.0733132536	
W09C3.8	-2.0726805293	
K06A4.6	-2.0715931517	
K06A4.6	-2.0713135551	
ZK945.7	-2.0711694191	
C31H1.5	-2.0706142655	+
D1086.17	-2.0702020968	+
Y59A8B.12	-2.0694856509	+
C04F12.16	-2.0692720136	
ZK596.2	-2.0685634751	
F11E6.3	-2.0685058842	+
basl-1	-2.0682146768	+
D1022.3	-2.0671858922	+
lab-1	-2.0650412836	+
R07C3.13	-2.0636468535	+
C49F5.6	-2.0620472682	+
H04D03.6	-2.0620286340	+
Y39B6A.30	-2.0586714182	
T04F3.3	-2.0584616987	
sfxn-1.2	-2.0584213207	+

C39B5.5	-2.0576935906	
<i>daf-18</i>	-2.0567207100	+
<i>nspd-9</i>	-2.0564346709	+
Y57G7A.5	-2.0559947502	+
F13E9.5	-2.0536229444	+
<i>col-135</i>	-2.0524306545	+
R10E4.7	-2.0507837628	
W03D8.9	-2.0494727491	
C17G1.2	-2.0477137884	+
Y57G11C.5	-2.0469791160	
Y41C4A.18	-2.0442410574	
F36H12.17	-2.0415305648	+
C36F7.5	-2.0409207392	+
ZK688.10	-2.0388266495	
<i>fis-1</i>	-2.0383320599	
T22B3.3	-2.0372473449	+
W03D8.1	-2.0370138540	
F02E9.3	-2.0368148082	+
Y54E2A.5	-2.0338644934	
C18H7.4	-2.0337966717	+
H12D21.5	-2.0328502185	+
<i>cyp-13A4</i>	-2.0324789308	
F07A5.2	-2.0322486199	+
Y69A2AR.19	-2.0319209469	
<i>gsp-3</i>	-2.0300971992	+
F07G6.10	-2.0296437944	
<i>col-160</i>	-2.0241577573	
<i>pal-1</i>	-2.0238510082	+
<i>nep-24</i>	-2.0236799007	
W06F12.3	-2.0208570122	
B0524.5	-2.0205223272	+
F40F9.3	-2.0200320296	+
Y65B4A.9	-2.0195039170	
<i>ugt-41</i>	-2.0185651992	
M88.3	-2.0176857011	+
F53G12.8	-2.0168293385	+
C16C8.12	-2.0158826922	+
R08C7.8	-2.0150821015	+
F54C1.8	-2.0147030599	
F58F12.2	-2.0142139218	+
<i>ssq-3</i>	-2.0134423367	
ZK945.8	-2.0121562066	
<i>clcc-147</i>	-2.0112189437	+
<i>col-162</i>	-2.0109644991	
C30F12.4	-2.0103191220	+
B0207.11	-2.0091346469	
C06E2.5	-2.0069301109	+
R193.2	-2.0066657974	
<i>nspc-7</i>	-2.0059376094	
<i>ify-1</i>	-2.0058745528	+
M110.7	-2.0039262723	+
<i>ssp-36</i>	-2.0016856901	
Y40H4A.2	-2.0014039592	
T28H11.7	-2.0004023834	
F32B6.4	-2.0000783752	+

Note:.-Expression information of candidate genes is from <https://wormbase.org>.-Statistical significance:  $P < 0.01$ .