

Table S1: Promoter details and primer sequences

Promoter (miRNA registry V4.0 and *V9.0)	Location WS130 and *WS175	Chromosome	*GW-Forward Primer	*GW-Reverse Primer	Forward Primer	Reverse Primer	Comment	Transgenic lines
<i>Plet-7</i>	Intergenic	X	NA	NA	ttcattgtcgactatcctttaatgtctcac	ctactctgcagccggtaccagtgtagaccgtc	⁵ SalI sites used for cloning are in italics	yes
<i>Plin-4</i>	Intergenic	II	NA	NA	accgtaccgggctattagtatgcaccagac	ggctcccccgggacaggccggaagcataaacctc	⁵ XmaI sites used for cloning are in italics	yes
<i>Plsy-6</i>	Intergenic	V	ggggacaacttgtatagaaaagttgTTTAAACCTTACAGTTTCGG	ggggactgctttttgtacaaactgtcatGCTTATTTTTCAGAAATAG	NA	NA		yes
<i>Pmir-1</i>	Intergenic	I	ggggacaacttgtatagaaaagttgATGACATCTGCAAGAAAC	ggggactgctttttgtacaaactgtcatATGGGCATGTAAGGAATATGC	NA	NA		yes
<i>Pmir-228</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgGAGATTCTATATTCGATTTTCCC	ggggactgctttttgtacaaactgtcatTACTTCATTAACTCATCACC	ggtagccccccgggaaaaagtgttatgtgacgtctactcttg	catcgacgtccggggcggaacggataaggaggaaaagtctc	⁵ XmaI sites used for cloning are in italics	yes
<i>Pmir-230</i>	Intergenic	X	ggggacaacttgtatagaaaagttgACACATTACAGTTTACTGG	ggggactgctttttgtacaaactgtcatACATCAGACAAAAAATAACAAGC	NA	NA		yes
<i>Pmir-231</i>	Intergenic	III	ggggacaacttgtatagaaaagttgGTTTACCATTTTAGAATTCCGC	ggggactgctttttgtacaaactgtcatTGTGGTGCTAACTTTGAAAATA	NA	NA		yes
<i>Pmir-232</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgCATACAATTTACATCATAACG	ggggactgctttttgtacaaactgtcatCAAACCTGCCCTGGAATCAA	NA	NA		yes
<i>Pmir-234</i>	Intergenic	II	ggggacaacttgtatagaaaagttgTGCATCCAATACAAATATCAG	ggggactgctttttgtacaaactgtcatTGTGTTCAACTTACATAG	atgtcttagtcgactcactgaagggtgtctctatagcagttgtg	ttctcgaggtcgcactagattgcggactgcgcatttttatac	⁵ SalI sites used for cloning are in italics	yes
<i>Pmir-235</i>	Intergenic	I	ggggacaacttgtatagaaaagttgTTTTTGCAGCTTCGTTTCAGCG	ggggactgctttttgtacaaactgtcatTAATTTTCACGGTGAACAATTTTGC	tcgcttggctgcacacaacactgttgctgtgcattttggtcac	gggagaggtcgcacttaattttcacgggtgaacaatttggcaat	⁵ SalI sites used for cloning are in italics	yes
<i>Pmir-236</i>	Intergenic	II	ggggacaacttgtatagaaaagttgCTTTAAATTAACACGGTGAG	ggggactgctttttgtacaaactgtcatACCGAAGAATACGACAGTAGC	NA	NA		yes
<i>Pmir-237</i>	Intergenic	X	NA	NA	cagtgatgcgcagactcactcactgtaggttgc	aattctggccaccacgcaatgtagaagtttg	⁵ MscI sites used for cloning are in italics	yes
<i>Pmir-238</i>	Intergenic	III	ggggacaacttgtatagaaaagttgAAAAGAACGTTGAGTTAC	ggggactgctttttgtacaaactgtcatGGAGAATTGCCATTTTCTTG	NA	NA		yes
<i>Pmir-239a</i>	Intergenic	X	ggggacaacttgtatagaaaagttgGAGCTTTTGAGGAAATTT	ggggactgctttttgtacaaactgtcatGTAGAGTATTTGACTGAG	NA	NA		no
<i>Pmir-239b</i>	Intergenic	X	ggggacaacttgtatagaaaagttgAAACGTCGCTATTTGTAT	ggggactgctttttgtacaaactgtcatCTGTAACCTTTTCAGAAATAAAGG	NA	NA		no
<i>Pmir-240-786</i>	Intergenic/operon	X	ggggacaacttgtatagaaaagttgTTATCTATCCGACCATACC	ggggactgctttttgtacaaactgtcatCGAAATAGCAATAGACAGGA	NA	NA		yes
<i>Pmir-241</i>	Intergenic	V	NA	NA	ctccagtcgaccactcattctctctctc	gcacctcccgaggacttggacaccccccggttg	⁵ SalI and XmaI sites used for cloning are in italics	yes
<i>Pmir-242</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgTCAACGCGTACACTTG	ggggactgctttttgtacaaactgtcatCGAGCCACGAGGGAACTATTC	NA	NA		yes
<i>Pmir-243</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgATCGTGTGACATGACGTTG	ggggactgctttttgtacaaactgtcatGTGAACAGAAATTCCTGTGAGTAAC	NA	NA	Annotated in WS175 as intronic (intron of R08C.12).	yes
<i>Pmir-244</i>	Intergenic	I	ggggacaacttgtatagaaaagttgCCCCCTTTGACAATCGAATA	ggggactgctttttgtacaaactgtcatATGAGGGGAAAAAAATIAAAAAATG	NA	NA		yes
<i>Pmir-245</i>	Intergenic	I	ggggacaacttgtatagaaaagttgATTCCAACCGAATTTAAATC	ggggactgctttttgtacaaactgtcatATAGCTCTCCAACATTGAATTC	NA	NA		yes
<i>Pmir-246</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgGAGTGTGCGAGCGGGAAAC	ggggactgctttttgtacaaactgtcatTGCTGAATATTGTGAGC	NA	NA		yes
<i>Pmir-247-797</i>	Intergenic/operon	X	ggggacaacttgtatagaaaagttgAATTTGGAAGAAGAAAAATC	ggggactgctttttgtacaaactgtcatATTGTAGACAACATGATGTGC	NA	NA		yes
<i>Pmir-249</i>	Intergenic	X	ggggacaacttgtatagaaaagttgAGTTAACTTCAGCTCTTG	ggggactgctttttgtacaaactgtcatGAGTATAGATACACAATATGC	NA	NA		no
<i>Pmir-251</i>	Intergenic	X	ggggacaacttgtatagaaaagttgTCCTATTCAATTGATTGTCG	ggggactgctttttgtacaaactgtcatGCAAGGGGATCATTTTCAAC	NA	NA		yes
<i>Pmir-252</i>	Intergenic	II	ggggacaacttgtatagaaaagttgAGATGATATTCAAGACATATCG	vw	NA	NA		yes
<i>Pmir-255</i>	Intergenic	V	ggggacaacttgtatagaaaagttgAACGAGTTGTGTGAGTCTTG	ggggactgctttttgtacaaactgtcatCACTGAAGAATTAACAG	NA	NA		yes
<i>Pmir-256</i>	Intergenic	V	ggggacaacttgtatagaaaagttgTCTCGTGGAGAAATGGC	ggggactgctttttgtacaaactgtcatTTCTCAATATTCACTTAGACAGC	NA	NA		no
<i>Pmir-257</i>	Intergenic	V	ggggacaacttgtatagaaaagttgAATCTCCCTGACGACTCC	ggggactgctttttgtacaaactgtcatTTACTTCGAAACAGCTTC	tactggaaccggggtgacgactccctctcgatcaccagagtg.	tactctgcgccgggagcggaatattacttcgcaaacag	Annotated in WS175 as intronic (intron of R08C.12).	yes
<i>Pmir-258</i>	Intergenic	X	ggggacaacttgtatagaaaagttgCCTAAATTTCCCAAAAAATGG	ggggactgctttttgtacaaactgtcatCCTGCGGATCGACTATTG	NA	NA		yes
<i>Pmir-259</i>	Intergenic	V	ggggacaacttgtatagaaaagttgACTTTAAAGTCTTCTGGAAAAAG	ggggactgctttttgtacaaactgtcatAACCGAACCTACCCTATG	NA	NA		yes
<i>Pmir-261</i>	Intergenic	II	ggggacaacttgtatagaaaagttgTGGTAAACATCAAGCAAAAC	ggggactgctttttgtacaaactgtcatATCCATATTCACCGTGAAA	NA	NA		yes
<i>Pmir-262</i>	Intergenic	V	ggggacaacttgtatagaaaagttgCGTGGAATATTGTAAATTTG	ggggactgctttttgtacaaactgtcatCTAATTGTAGAGAACCATAC	NA	NA		no
<i>Pmir-264</i>	Intergenic	X	ggggacaacttgtatagaaaagttgGATTTTTGTACGGGAATG	ggggactgctttttgtacaaactgtcatAGTGTCTGCTTCTCGAATG	NA	NA		no
<i>Pmir-265</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgAGTAGAAAATAGAAAGTCAGATCC	ggggactgctttttgtacaaactgtcatGTCAGAAATAACACACAAAATTAG	NA	NA		yes
<i>Pmir-266</i>	Intergenic	X	ggggacaacttgtatagaaaagttgGACACGGGAGATGTAACC	ggggactgctttttgtacaaactgtcatCAGCTTCTGTACCAAGTTA	NA	NA		yes
<i>Pmir-268</i>	Intergenic	V	ggggacaacttgtatagaaaagttgATATTCCATATTACATGC	ggggactgctttttgtacaaactgtcatCTCCAAAATGTTTCG	NA	NA		yes
<i>Pmir-269</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgGAACATGCTGCTTTTGAGATAG	ggggactgctttttgtacaaactgtcatCAAGTTTAGCCAACTTCTG	NA	NA		yes
<i>Pmir-270</i>	Intergenic	IV	ggggacaacttgtatagaaaagttgTCCGCTGCCAAGAAAGCTTC	ggggactgctttttgtacaaactgtcatCTTTGTGCCATACATAAAC	NA	NA		yes
<i>Pmir-271</i>	Intergenic	X	ggggacaacttgtatagaaaagttgATGCTCTATCAGCAGAAGC	ggggactgctttttgtacaaactgtcatTGACCTCCTCTTCTCAC	NA	NA		yes
<i>Pmir-34</i>	Intergenic	X	ggggacaacttgtatagaaaagttgTAAAGCCCACTGGTGACT	ggggactgctttttgtacaaactgtcatGCATTTGTCCGTATAAGAAT	NA	NA		no
<i>Pmir-355</i>	Intergenic	II	ggggacaacttgtatagaaaagttgCATCTGGA AAAAAGTAGTCGG	ggggactgctttttgtacaaactgtcatTATTAATCTCAACACGCGAC	NA	NA		yes
<i>Pmir-359-785</i>	Intergenic/operon	X	ggggacaacttgtatagaaaagttgTGGTCTTAGTGGTCTTAGTTC	ggggactgctttttgtacaaactgtcatGAGCATTATATCAGTACTGTAG	NA	NA		yes
<i>Pmir-360</i>	Intergenic	X	ggggacaacttgtatagaaaagttgGGTTATGGGGTTTATGA	ggggactgctttttgtacaaactgtcatGCCGAATAATCAATAAGAA	NA	NA		yes
<i>Pmir-392</i>	Intergenic	X	ggggacaacttgtatagaaaagttgCTTCGTGTAACCTACGTTTG	ggggactgctttttgtacaaactgtcatTATCCAGAATAAATTTGAAG	NA	NA		yes
<i>Pmir-45</i>	Intergenic	II	ggggacaacttgtatagaaaagttgGCCGATTGTGATCAAAAAATC	ggggactgctttttgtacaaactgtcatGGTGCATGAGCAGCTGAATAC	NA	NA		yes
<i>Pmir-46</i>	Intergenic	III	ggggacaacttgtatagaaaagttgGCCACCAATTACGAGGCC	ggggactgctttttgtacaaactgtcatTTTGACCCCTTACCTTCAACTTTTCG	NA	NA		yes
<i>Pmir-47</i>	Intergenic	X	ggggacaacttgtatagaaaagttgATCGTGGAACAATAGGTTCT	ggggactgctttttgtacaaactgtcatGATCAACTAACCTTGTCCG	NA	NA		yes

<i>Pmir-48</i>	Intergenic	V	NA	NA	gaggaggfcgacctacattgacctaaagac	gagccgtgcagacttccggagttcaattg	[†] SalI sites used for cloning are in italics	yes
<i>Pmir-49</i>	Intergenic	X	ggggacaacttggatagaaaagttgATGCGGTGTATTGTTATC	ggggactgccttttgtacaactgtcatGTACATAGCATCTGAATAAA	NA	NA		no
<i>Pmir-51</i>	Intergenic	IV	ggggacaacttggatagaaaagttgCACAATATATGGGTGCCGACATC	ggggactgccttttgtacaactgtcatCAAGTGAGCAGGCAAAATGTTGG	acgttgaggtgcacatactgtgagattgactggttagactctg	aggagctagtcgacgacggaacttttcgacaagtgagcaggcaa	[†] SalI sites used for cloning are in italics	yes
<i>Pmir-52</i>	Intergenic	IV	ggggacaacttggatagaaaagttgGGCCCCACATACAACTGC	ggggactgccttttgtacaactgtcatGTTGGAAGAACATGAATATG	NA	NA		yes
<i>Pmir-53</i>	Intergenic	IV	ggggacaacttggatagaaaagttgCGGATCCTTAAAGTCAGAAATTG	ggggactgccttttgtacaactgtcatGAATCGGGAGAAATTAT	NA	NA		yes
<i>Pmir-57</i>	Intergenic	II	ggggacaacttggatagaaaagttgATAATCAAACGGAACGATCG	ggggactgccttttgtacaactgtcatCGATGAGTTCACATACCTTTTTG	NA	NA		yes
<i>Pmir-59</i>	Intergenic	IV	ggggacaacttggatagaaaagttgCTTCTTTCTACCCATTTCTG	ggggactgccttttgtacaactgtcatATGTCATATCTAGATCAACTC	NA	NA		yes
<i>Pmir-60</i>	Intergenic	II	ggggacaacttggatagaaaagttgAAGATGATACACTTTTT	ggggactgccttttgtacaactgtcatCGAGTAGAATATGAATACGAA	NA	NA		yes
<i>Pmir-63</i>	Intergenic	X	ggggacaacttggatagaaaagttgGTGTAACTTTCGATATCAC	ggggactgccttttgtacaactgtcatTGAATGAATAAAGTTGCTCC	NA	NA		yes
<i>Pmir-72</i>	Intergenic	II	ggggacaacttggatagaaaagttgACTCAATTCTCACCTCCATT	ggggactgccttttgtacaactgtcatTCAGCAGAATAGTAGTAGTAG	NA	NA		yes
<i>Pmir-75</i>	Intergenic	X	ggggacaacttggatagaaaagttgGCCAAATAAAAGTTACATT	ggggactgccttttgtacaactgtcatAAGTAGAAAAAAAACCGC	NA	NA		yes
<i>Pmir-76</i>	Intergenic	III	ggggacaacttggatagaaaagttgTCAAAAACGAGAAAG	ggggactgccttttgtacaactgtcatTCTTACCTGAGGATTGTAG	NA	NA		yes
<i>Pmir-77</i>	Intergenic	II	ggggacaacttggatagaaaagttgACTCGAGTTTTTGAATCCG	ggggactgccttttgtacaactgtcatCAAACTCTATACCAATTTGG	NA	NA		yes
<i>Pmir-78</i>	Intergenic	IV	ggggacaacttggatagaaaagttgTAGCGCCTGATCTTGTCATTG	ggggactgccttttgtacaactgtcatGTIATTTACGGACACATG	NA	NA		no
<i>Pmir-79</i>	Intergenic	I	ggggacaacttggatagaaaagttgGATTAATTGACATGATATC	ggggactgccttttgtacaactgtcatTCTACTAATTTCAACTTACC	NA	NA		yes
<i>Pmir-83</i>	Intergenic	IV	ggggacaacttggatagaaaagttgAATACGAATTTCCACCC	ggggactgccttttgtacaactgtcatCCGAGTGGTGCTTTTAAATTG	NA	NA		yes
<i>Pmir-84</i>	Intergenic	X	NA	NA	aaataaagtcgacactaacaaagtcagatcac	catactcccgggagtcacaggcagacgtatg	[†] SalI and <i>Xma</i> I sites used for cloning are in italics	yes
<i>Pmir-90</i>	Intergenic	III	ggggacaacttggatagaaaagttgCATTGTGTTTAAACAATGCCATGC	ggggactgccttttgtacaactgtcatCGCCCGTTTTGTAGAAATGG	NA	NA		yes
<i>Pmir-227-80</i>	Intergenic/operon	III	ggggacaacttggatagaaaagttgTTGATTGAAAAATTGAAAGC	ggggactgccttttgtacaactgtcatGAGTGTCATTGAAAAAGG	cagggaaggtcgacatctggaatgaatcattgtagactgtg	tcatgtcgggtcgacgagcgaacagtgctccattgaaaagggaata	<i>mir-227</i> not in miRNA Registry but present in WormBase. RNA was detected (Ambros <i>et al.</i> , 2003); [†] SalI sites used for cloning are in italics	yes
<i>Pmir-229-64-65-66</i>	Intergenic/operon	III	ggggacaacttggatagaaaagttgGCAAAATGCCGGAATTG	ggggactgccttttgtacaactgtcatGAGTCTCCCGCGTTG	NA	NA		no
<i>Pmir-42-43-44</i>	Intergenic/operon	II	ggggacaacttggatagaaaagttgGATTAATTATGGATGTGCG	ggggactgccttttgtacaactgtcatGTTATGGGAGTTTAGAGG	NA	NA		yes
<i>Pmir-54-55-56</i>	Intergenic/operon	X	ggggacaacttggatagaaaagttgTGATACCAAAACAATTGAGTG	ggggactgccttttgtacaactgtcatCATTACCAATTCCAGAG	agltgtcagtcgacactctccgacagataatcgatacaaatcag	gaagattagtcgaaccaagcttttataaaagcaatgttctcgtc	[†] SalI sites used for cloning are in italics	yes
<i>Pmir-61-250</i>	Intergenic/operon	V	ggggacaacttggatagaaaagttgTAGAGACAAAATTGATGTTT	ggggactgccttttgtacaactgtcatATAGCGAGGGATGACAG	NA	NA		yes
<i>Pmir-229-64-65-66</i>	Intergenic/operon	III	ggggacaacttggatagaaaagttgAATTTCTGGCAAATGCCGG	ggggactgccttttgtacaactgtcatGAGTCTTCCCGCTTGGG	NA	NA		NA
<i>Pmir-73-74</i>	Intergenic/operon	X	ggggacaacttggatagaaaagttgTTGCCAATGGGACGAA	ggggactgccttttgtacaactgtcatGAATAAATGAATGAAGAGTG	NA	NA		no
<i>Pmir-124</i>	Intragenic	IV	NA	NA	NA	NA		NA
<i>Pmir-2</i>	Intragenic	I	ggggacaacttggatagaaaagttgTGTTGAATGGGAAGTGC	ggggactgccttttgtacaactgtcatAGATTCTGCGAAATACGATTG	ttgtgaaggtcgacagagatggaaggcaacacatggcgccgaag	agctggctgtcgactgaagtcataattgcaacacatcaacc	Seq upstream <i>mir-2</i> was taken as promoter (intron seq of F16A11.3); [†] SalI sites used for cloning are in italics	yes
<i>Pmir-233</i>	Intragenic	X	NA	NA	NA	NA		NA
<i>Pmir-798</i>	Intragenic/antisense	IV	NA	NA	NA	NA		NA
<i>Pmir-248</i>	Intragenic	X	NA	NA	NA	NA		NA
<i>Pmir-253</i>	Intragenic	V	NA	NA	NA	NA		NA
<i>Pmir-254</i>	Intragenic	X	NA	NA	NA	NA		NA
<i>Pmir-272</i>	Intragenic	III	NA	NA	NA	NA		NA
<i>Pmir-273</i>	Intragenic	II	NA	NA	NA	NA		NA
<i>Pmir-353</i>	Intragenic	I	NA	NA	NA	NA		NA
<i>Pmir-354</i>	Intragenic	I	NA	NA	NA	NA		NA
<i>Pmir-356</i>	Intragenic	III	NA	NA	NA	NA		NA
<i>Pmir-50</i>	Intragenic	I	NA	NA	NA	NA		NA
<i>Pmir-58</i>	Intragenic	IV	ggggactgccttttgtacaactgtcatGACGAGCATCGGGGGATAGTGC	ggggactgccttttgtacaactgtcatGACGAGCATCGGGGGATAGG	NA	NA		yes
<i>Pmir-62</i>	Intragenic	X	NA	NA	NA	NA		NA
<i>Pmir-67</i>	Intragenic	III	NA	NA	NA	NA		NA
<i>Pmir-70</i>	Intragenic	V	NA	NA	NA	NA		NA
<i>Pmir-71</i>	Intragenic	I	ggggacaacttggatagaaaagttgCTATTCTCTACAGCAGTACTCTC	ggggactgccttttgtacaactgtcatACGGCGAAAAACAGAAATAGT	NA	NA		yes
<i>Pmir-82</i>	Intragenic	X	ggggacaacttggatagaaaagttgGAGTTCATAAAAACAACCTGGC	ggggactgccttttgtacaactgtcatGAGTTCATAAAAACAACCTGG	NA	NA		yes
<i>Pmir-86</i>	Intragenic	III	NA	NA	NA	NA		NA
<i>Pmir-87</i>	Intragenic	V	NA	NA	NA	NA		NA
<i>Pmir-260</i>	Intragenic/antisense	II	ggggacaacttggatagaaaagttgCAGGACCGACGAAGGCAT	ggggactgccttttgtacaactgtcatTTACATGGAGGTCCCGC	NA	NA		no
<i>Pmir-267</i>	Intragenic/antisense	II	ggggacaacttggatagaaaagttgGCAGCCGACACATTACGGGATC	ggggactgccttttgtacaactgtcatGGGTTTTGAAACTTTTATTTTA	NA	NA		yes
<i>Pmir-81</i>	Intragenic/antisense	X	ggggacaacttggatagaaaagttgGTGTAGCAACCGTAGGAG	ggggactgccttttgtacaactgtcatTTTTATGCATTGAATAGAA	taggagaaacccgggtctgggtcgactcaaaaattatgaatgac	tcacgatgccggggaaagcatttttgattgctctcagatca	[†] XmaI sites used for cloning are in italics	yes

<i>Pmir-85</i>	Intragenic/antisense	II	ggggacaacttggatagaaaagttgTTAACAAAGTGATTCTCT	ggggactgctttttgtacaaactgtcatAGAATACGAACGACGAGAAAA	NA	NA	yes
<i>Pmir-35-36-37-38-39-40-41</i>	Intragenic/antisense/operon	II	ggggacaacttggatagaaaagttgCCGTCATATCTGACCCAC	ggggactgctttttgtacaaactgtcatAATAGTTGGGAATGGAATTAGG	NA	NA	yes
<i>Pmir-358-357</i>	Intragenic/antisense/operon	V	ggggacaacttggatagaaaagttgAAACTACAGTAATTCTTTAAATG	ggggactgctttttgtacaaactgtcatGAATGATTGGGAGAAAGTGAAG	NA	NA	yes
<i>Pmir-789.1*</i>	Intragenic/antisense	IV	NA	NA	NA	NA	NA
<i>Pmir-789.2*</i>	Intragenic/antisense	IV	NA	NA	NA	NA	NA
<i>Pmir-799*</i>	Intragenic/antisense	X	NA	NA	NA	NA	NA
<i>Pmir-787*</i>	Intergenic	X	NA	NA	NA	NA	NA
<i>Pmir-784*</i>	Intergenic	X	ggggacaacttggatagaaaagttgCTTGTTGCACCTTAACATATAATC	ggggactgctttttgtacaaactgtcatGAAAAACTGAGAATACGAATAAAG	NA	NA	yes
<i>Pmir-790*</i>	Intergenic	IV	NA	NA	NA	NA	NA
<i>Pmir-791*</i>	Intergenic	X	NA	NA	NA	NA	NA
<i>Pmir-792*</i>	Intergenic	V	NA	NA	NA	NA	NA
<i>Pmir-793*</i>	Intergenic	X	ggggacaacttggatagaaaagttgCATTAAATTATTTCTCCCAAAG	ggggactgctttttgtacaaactgtcatCTCCGTAAGAAATATTATCTC	NA	NA	yes
<i>Pmir-794*</i>	Intergenic	I	ggggacaacttggatagaaaagttgGAGGGGTTTTTCAGTTTTTC	ggggactgctttttgtacaaactgtcatGACACGCTCAGTTTTTTTTTG	NA	NA	yes
<i>Pmir-795*</i>	Intergenic	I	ggggacaacttggatagaaaagttgTTGTACTTGCACACTTA	ggggactgctttttgtacaaactgtcatAGCAGGTAACGTTCTCG	NA	NA	no
<i>Pmir-796*</i>	Intergenic	X	NA	NA	NA	NA	NA
<i>Pmir-800*</i>	Intergenic	X	NA	NA	NA	NA	NA
<i>Pmir-788*</i>	Intergenic	X	ggggacaacttggatagaaaagttgTTCATTACACTTAAATGTTTATTC	ggggactgctttttgtacaaactgtcatCTCCAGCTGAAAATTTGTAATAC	NA	NA	yes

NA: not attempted

*attB4 tail

*attB1R tail

*Restriction sites used to clone promoter into pPD95.75

Table S2.

Promoter	Expression pattern description
<i>Plet-7</i>	Expression detected from late embryos to adults. In late embryos to L1, expression is seen in dnc and intestine. From L2 to adults, expression is detected in almost all tissues except germline; specifically muscle, rectum, vulva, spermatheca, pharynx, intestine, vnc, dnc, nerve ring, hypodermis.
<i>Plin-4</i>	Expression seen from late L1 to adult stages. Weak expression detected ubiquitously (except germline). Stronger in pharynx, vulva, vulval muscle, body wall muscle.
<i>Plsy-6</i>	No expression detected.
<i>Pmir-1</i>	Expression detected from early embryos to adults specifically in pharynx and precursors.
<i>Pmir-2</i>	Expressed from late embryos to adulthood. Strong expression detected in many nerves, nerve ring, dnc, vnc and also nerves in the tail.
<i>Pmir-227-80</i>	Expressed from late embryos to adulthood. Expressed in excretory cells, uterus, vulva, dnc, distal tip cells, posterior intestine, amphid neurons, head and body wall muscle.
<i>Pmir-228</i>	Expressed from mid embryo continuing through adulthood. Expressed in amphids, excretory cells, seam cells, vulva, body neurons, rectum and posterior intestine.
<i>Pmir-230</i>	Expressed from L1 to adulthood. Strong expression in rectum, seam cells (L1-L4) and weak expression in hypodermis (not expressed in vnc and dnc). Also, expressed in vulva muscles.
<i>Pmir-231</i>	Expressed from early embryo continuing through adulthood. In early embryos, expression is detected on the lateral sides and in mid embryo stages, expression is detected on the posterior part only. In larval and adult stages, expression is seen in posterior areas of intestine, rectum and tail hypodermis. Weak expression in pharynx, vnc, vulva, dnc and head nerves and tail nerves.
<i>Pmir-232</i>	Expression detected from late embryos till adulthood. Expressed in excretory cells and canals.
<i>Pmir-234</i>	Expressed from mid embryo continuing through adulthood. Expression seen in head nerves, specifically in 6 pairs in nerve ring and also dnc. Expressed also in tail nerves, specifically in 2 pairs and one single neuron with axon ventral to head. Expression seen in body nerves, specifically in CAN nerves. Also seen in amphid neurons in the pharynx; the cell body is posterior/lateral to posterior pharyngeal bulb (ppb) and axon runs to tip of head. Expression seen in I4, I5 and I6 neurons, cell body in ppb and axon runs to anterior pharyngeal bulb (apb).
<i>Pmir-235</i>	Expressed from late embryos to adulthood. Expression detected in hypodermis, especially at L1-L2. Also detected in vulva, rectum and some amphid neurons.
<i>Pmir-236</i>	Expressed from mid embryo to adulthood. Expression seen in intestine, rectal glands and dnc.
<i>Pmir-237</i>	Expressed from L1 to adulthood. Expressed in distal tip cells from L1 to adults. Also expressed in hypodermis, starting at L2 and strong at L4 and adults. In vulva, expression is seen from L2 till adulthood. Also expressed in head neurons and seam cells.
<i>Pmir-238</i>	Expressed in the intestine from early embryo continuing through adulthood. Also, hypodermal expression from L1 to adults. Bright gfp expression detected in rectal glands.
<i>Pmir-240-786</i>	Expression detected from L3 to adulthood. Expression seen in somatic cells at uterus, ovary, spermatheca, spermatheca/uterus valve and gonadal sheath.
<i>Pmir-241</i>	Expression detected from L1 till adulthood. Expressed in nerves: vnc, dnc, many in nerve ring, pharyngeal nerves and tail nerves. Also, expression seen in muscles from vulva, head, body and rectum and hypodermis.
<i>Pmir-242</i>	Expressed from late embryos to adulthood. Expressed in head nerves more specifically in 3 pairs of amphid neurons, of which, 2 pairs of nuclei are in the anterior to apb and the other pair, posterior to apb. Expression is also seen in pharyngeal/intestine valve and rectal gland.
<i>Pmir-243</i>	Expressed from mid embryo continuing through adulthood. Expressed very strongly in intestine. Also expressed in dnc and valve between spermatheca and uterus.
<i>Pmir-244</i>	Expressed in seam cells from late embryos till adults.
<i>Pmir-245</i>	Expressed from late embryos to adulthood. Expressed in a subset of pharyngeal muscles (pm3, 4 and 7). Expression seen also in head nerves and dnc. Expressed weakly in tails, perhaps in tail hypodermis during adulthood but seen also at earlier stages.
<i>Pmir-246</i>	Expressed from L4 to adults. Expression seen in gonadal sheath and uterine/spermatheca valve.
<i>Pmir-247-797</i>	Expression detected in pharynx from late embryo through L1. From L1 to L2/L3, expression is also detected in rectal glands and from L2 to L4, in distal tip cells
<i>Pmir-251</i>	Expression seen from late embryos to adulthood. Expressed in pharyngeal muscles
<i>Pmir-252</i>	Expressed in larval stages to adulthood in the pharyngeal glands, spermatheca and uterine cells, more specifically in a pair of cells closest to vulva. Also in head neurons.
<i>Pmir-255</i>	Expressed from comma stage to adults. Expression seen in pharyngeal muscle cells, specifically in the 3 pm7 cells in the posterior half of the posterior pharyngeal bulb.
<i>Pmir-257</i>	No expression detected.
<i>Pmir-258</i>	No expression detected.
<i>Pmir-259</i>	Expression seen from mid embryos to adults. In mid embryos, expression is detected in few cells in the posterior and anterior part. In larval stages and adults, expression is seen in rectal glands, pharyngeal/intestinal valve. Expression detected also in the reproductive tract, specifically in somatic cells of the uterus, spermatheca and spermatheca-uterus valve.
<i>Pmir-261</i>	No expression detected.
<i>Pmir-265</i>	Weak expression detected in head neurons and somatic cells of the uterus from L2 to adults.
<i>Pmir-266</i>	Very weak expression detected in dnc from L1 to adulthood.
<i>Pmir-267</i>	No expression detected.
<i>Pmir-268</i>	Expression seen from late embryos to adulthood in dnc, vnc, other head/body and tail nuclei nerves as well as pharyngeal nerve in anterior bulb.
<i>Pmir-269</i>	Expression detected in L4 to adult worms in head neurons.
<i>Pmir-270</i>	Expression detected from L1 to adults in the intestine and a couple of head neurons. Mosaic expression.
<i>Pmir-271</i>	No expression detected.
<i>Pmir-35-41</i>	Expressed from early embryo continuing through adulthood. Expression is strong in the earlier stages and becomes weaker in the later stages. Expressed in muscles: vulva, head and rectal muscles. Also, expressed in seam cells, hypodermis, partial intestine and nerves, including dnc, head and tail nerves.
<i>Pmir-355</i>	Expression detected from mid embryo to adulthood. Strong embryonic expression seen in lateral cells and intestine precursors. In larval stages, expression is detected in the intestine and in adult stages, only in the posterior part of the intestine.
<i>Pmir-357-358</i>	Expressed in somatic cells of the uterus and precursor and distal tip cells. Expression starting at L3 stage and continuing through adulthood.
<i>Pmir-359-785</i>	Expressed from L1 to adulthood. Expression seen in spermatheca and vulval muscles and somatic cells of the uterus, including the dnc. In addition, expression is detected in hypodermis, dnc, rectal muscles and anterior body wall muscles.
<i>Pmir-360</i>	Expressed from comma stage to adults. Expression seen in marginal cells of pharynx.
<i>Pmir-392</i>	Expression detected from L1 to adults. Expression seen in nerves whose processes run dorsally to the tail tip and ventrally to nerve ring in the head. In addition, expression seen in posterior intestine and nerves in vulva.
<i>Pmir-42-44</i>	Expression seen in early embryos and continuing through adulthood. In the embryo, expression is seen as stripes on the outside part of the embryo. In the mid embryo stage, gfp is seen on dorsal and ventral part of the embryo, including head. Late embryos show complex expression. Strong expression in seam cells and vulva. Weaker expression in hypodermis. Also seen in posterior intestine and rectum and dnc.
<i>Pmir-45</i>	Expression seen in all stages in the intestine, although it varies from anterior and/or posterior part. From late embryo till L1, strong expression is seen in the posterior part of the pharynx. Expresses also in dnc and a pair of nerves in the head at each side of the posterior pharyngeal bulb, in all stages and two amphids from L2 on. The late embryo stage shows a complex pattern of expression especially in lateral stripes. Weak expression in head muscle is also seen.
<i>Pmir-46</i>	Expressed from early embryo continuing through adulthood. In the embryonic stage, expression is detected on the lateral sides. Later on, expression is seen in hypodermis in seam cells
<i>Pmir-47</i>	Expression detected from late embryos to adults. In embryos, expression is detected on lateral sides and in larval stages on, in all hypodermis, rectum and vulval cells.
<i>Pmir-48</i>	Expressed from L1 to adulthood. Expression seen in vulval cells, seam cells, head and tail neurons.
<i>Pmir-51</i>	Expression detected from mid embryos to adults. In late embryos, expression is seen on one side of the embryo, ventral and mostly anterior. From late embryo to L1, expression is detected in canal cells and canal nerves. Also, from late embryos to adults, expression is detected in several nerves, including dnc and vnc. In addition, expression is detected in head muscles, coelomocytes and intestine.
<i>Pmir-52</i>	Expression detected in L4 continuing to young adults only. Expressed in somatic cells of the uterus and subset of neurons at the vnc.
<i>Pmir-53</i>	Expression seen ubiquitously (except germline) from pre-comma stage to adulthood.
<i>Pmir-54-56</i>	Expression seen from mid embryos to adulthood. Expressed strongly in nerve in head (amphid) and tail. Weak expression in external vulval cells, dnc and vnc is also detected.
<i>Pmir-57</i>	Expression seen in embryos starting at the comma stage and continuing throughout adulthood. Posterior regions: intestine, ventral nerve cord, rectum, ventral muscles and tail hypodermis. Also seen in vulval muscles from L2 till adulthood.
<i>Pmir-58</i>	No expression detected.
<i>Pmir-59</i>	Expressed from late embryo stage till adults. Expression seen in nerves, dnc, vnc, two nerves in tail whose processes are ventral to the head, two nerves in head which are anterior to the posterior pharyngeal bulb. Also expressed in the posterior part of the intestine and rectal muscles. In adults, expression is seen also in vulval muscles.
<i>Pmir-60</i>	Expressed in the intestine from early embryos to adults.
<i>Pmir-61-250</i>	Expression detected from early embryos to adults. Detected in dnc, two head nerves whose processes run ventral to each other and laterally towards the tip of the head. Also seen in tail nerves and posterior intestine. In L2, expression is also detected in vulval cell precursors.
<i>Pmir-63</i>	Expression detected from comma stage to adults. Expression seen in intestine.
<i>Pmir-71</i>	Expression detected from L1 to adult. Expression becomes stronger in later stages and in adults is almost ubiquitous. Strongest expression seen in nerve ring, hypodermis, vulva and pharynx.
<i>Pmir-72</i>	Expression seen in late embryos continuing to adulthood. Expression seen in pharynx and amphids, specifically 3 pairs of nerves with cell bodies just posterior to the anterior pharyngeal bulb.
<i>Pmir-75</i>	Expression detected from mid embryos till adults. Expression seen exclusively in intestine.
<i>Pmir-76</i>	Expression seen from late embryo to adult stages. Strong expression in earlier stages. Detected in pharyngeal neurons; two cell bodies in the posterior and two in the anterior part of the bulb.
<i>Pmir-77</i>	Expression seen also in body neurons, canal nerves, and tail neurons.
<i>Pmir-784</i>	No expression detected.
<i>Pmir-788</i>	Expression detected from L1 to adults in head nerves some of which could be pharyngeal nerves. Also, expressed from L3 on in a set of vulva cells (somatic gonad).
<i>Pmir-79</i>	Expression detected from late embryos to adults. Expression seen in all hypodermal cells and rectal gland.
<i>Pmir-79</i>	Expressed from mid embryo continuing through adulthood. In mid embryos, expression is detected on lateral sides. Later in development, expression is detected in hypodermis.
<i>Pmir-793</i>	Expressed from late embryo stage till adults. Expression seen in head and tail neurons.
<i>Pmir-794</i>	Expressed from late embryos to adulthood. Expressed in head and body wall muscle and intestine (mosaic).
<i>Pmir-81</i>	Very weak expression detected in head neurons from L1 on.
<i>Pmir-82</i>	Expression detected from L4 to adults in the pharyngeal muscle, developing spermatheca, subset of ventral nerve cord and a subset of amphid neurons
<i>Pmir-83</i>	Expressed from early embryo continuing through adulthood. Expression detected in many nerves from head and tail, the most obvious are amphids and phasmids. Also, in dnc, vnc, canal nerves, intestine, rectal gland, spermatheca/uterine valve.
<i>Pmir-84</i>	Expression seen from L1 to adult stages. Strong expression seen in pharynx, vulva and rectal glands. Weak expression seen in hypodermis and seam cells. Also seen in canal nerves, spermatheca/uterine valve and head neuron. Posterior intestine expression also detected.
<i>Pmir-85</i>	Expression seen from L2 to adulthood. Somatic cells at the uterus and spermatheca; also seen in rectal glands and gonadal sheath.
<i>Pmir-90</i>	Expression seen in mid embryos, specifically on the lateral sides of the embryo, continuing to adulthood. GFP expression is seen in head and body wall muscles, amphids and phasmids, including other nerve nuclei in head but cannot see processes. Also, expressed in vnc and lateral nerves of body. Expression seen also in vulval muscles and cells at uterus, proximal to the vulva.

Table S3.

Location				Stage													Tissue																			
	#lines	TR	PmiRNA	0	1	2	3	4	5	6	7	I	PI	P	PV	PG	HH	BH	TH	SC	X	C	S	DTC	U	GS	USV	V	BN	HN	TN	HM	BM	R		
Intergenic	2	high	Plet-7	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Intergenic	2	high	Plin-4	0	0	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Intergenic	2	high	Ptisy-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	4	hi/ah	Pmir-1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	4	high	Pmir-2	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	
Intergenic/operon	8	high	Pmir-227-80	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0	1	0	1	1	1	
Intergenic	5	high	Pmir-228	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	1	1	0	0	
Intergenic	3	low	Pmir-230	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Intergenic	7	high	Pmir-231	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	
Intergenic	2	high	Pmir-232	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	1	hi/ah	Pmir-234	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	
Intergenic	5	high	Pmir-235	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	
Intergenic	6	high	Pmir-236	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Intergenic	2	high	Pmir-237	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	
Intergenic	2	hi/ah	Pmir-238	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Intergenic	10	high	Pmir-240-786	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	
Intergenic	2	high	Pmir-241	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
Intergenic	2	hi/ah	Pmir-242	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
Intergenic	2	high	Pmir-243	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		
Intergenic	3	high	Pmir-244	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	1	low	Pmir-245	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	3	high	Pmir-246	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	8	high	Pmir-247-797	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Intergenic	1	high	Pmir-251	0	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	3	low	Pmir-252	0	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	
Intergenic	4	high	Pmir-255	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	2	high	Pmir-257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Intergenic	8	high	Pmir-258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Intergenic	2	hi/ah	Pmir-259	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	1		
Intergenic	4	high	Pmir-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Intergenic	1	high	Pmir-265	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	
Intergenic	1	high	Pmir-266	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Intragenic/antisense	7	hi/ah	Pmir-267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Intergenic	6	high	Pmir-268	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	5	low	Pmir-269	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	2	low	Pmir-270	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Intergenic	3	high	Pmir-271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intragenic/antisense/operon	5	high	Pmir-35-41	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	0	1	
Intergenic	3	low	Pmir-355	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intragenic/antisense/operon	2	high	Pmir-357-358	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Intergenic	4	low	Pmir-359-785	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	1	0	1	0	1	
Intergenic	7	hi/ah	Pmir-360	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	4	high	Pmir-392	0	0	0	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Intergenic/operon	2	low	Pmir-42-44	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
Intergenic	2	high	Pmir-45	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	2	hi/ah	Pmir-46	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Intergenic	8	high	Pmir-47	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Intergenic	2	high	Pmir-48	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
Intergenic	1	high	Pmir-51	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	
Intergenic	5	high	Pmir-52	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Intergenic	5	high	Pmir-53	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Intergenic/operon	5	high	Pmir-54-56	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	
Intergenic	5	hi/ah	Pmir-57	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Intergenic	2	high	Pmir-58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														

TR: Transmission Rate

Table S4

<i>PmiRNA</i>	Northern blot temporal expression from Wormbase (WS180)	Northern blot temporal expression from this work	Observed <i>PmiRNA::GFP</i> temporal expression
<i>Plet-7</i>	L3 to adult	L3 to adult	all stages
<i>Plin-4</i>	L1 to adult		L1 to adult
<i>Plsy-6</i>	NA		no expression
<i>Pmir-1</i>	all stages		all stages
<i>Pmir-2</i>	all stages		all stages
<i>Pmir-227-80</i>	all stages (<i>mir-227</i> is now <i>mir-80</i>)		all stages
<i>Pmir-228</i>	all stages		all stages
<i>Pmir-230</i>	all stages	L1 to L3	L1 to adult
<i>Pmir-231</i>	all stages		all stages
<i>Pmir-232</i>	all stages		all stages
<i>Pmir-234</i>	all stages		all stages
<i>Pmir-235</i>	all stages		all stages
<i>Pmir-236</i>	all stages		all stages
<i>Pmir-237</i>	L3 to adult		L1 to adult
<i>Pmir-238</i>	all stages		all stages
<i>Pmir-240-786</i>	L4 to adult-NA	L4 to adult-NA	L3 to adult
<i>Pmir-241</i>	L3 to adult	L1 to adult	L1 to adult
<i>Pmir-242</i>	all stages		all stages
<i>Pmir-243</i>	all stages		all stages
<i>Pmir-244</i>	all stages		all stages
<i>Pmir-245</i>	L4 to adult		all stages
<i>Pmir-246</i>	L4 to adult		L4 to adult
<i>Pmir-247-797</i>	L3 to adult-NA		all stages
<i>Pmir-251</i>	L1 to adult		all stages
<i>Pmir-252</i>	L1 to adult		L1 to adult
<i>Pmir-255</i>	NA: mature miRNA not detected, only precursor detected in dicer mutants		all stages
<i>Pmir-257</i>	all stages		no expression
<i>Pmir-258</i>	all stages		no expression
<i>Pmir-259</i>	all stages		all stages
<i>Pmir-261</i>	postembryonic expression		no expression
<i>Pmir-265</i>	NA		L2 to adult
<i>Pmir-266</i>	NA		L2 to adult
<i>Pmir-267</i>	NA		no expression
<i>Pmir-268</i>	NA		all stages
<i>Pmir-269</i>	NA		L4 to adult
<i>Pmir-270</i>	NA		L1 to adult
<i>Pmir-271</i>	NA		no expression
<i>Pmir-35-36-37-38-39-40-41</i>	expressed only in embryogenesis		all stages
<i>Pmir-355</i>	NA		all stages
<i>Pmir-357-358</i>	NA-NA		L3 to adult
<i>Pmir-359-785</i>	NA-NA		L1 to adult
<i>Pmir-360</i>	NA		all stages
<i>Pmir-392</i>	NA		L1 to adult
<i>Pmir-42-43-44</i>	<i>mir-42</i> and <i>mir-43</i> expressed predominantly in embryos while <i>mir-44</i> is expressed in all stages		all stages
<i>Pmir-45</i>	all stages		all stages
<i>Pmir-46</i>	all stages		all stages
<i>Pmir-47</i>	all stages		all stages
<i>Pmir-48</i>	L3 to adult	L1 to adult	L1 to adult
<i>Pmir-51</i>	all stages		all stages
<i>Pmir-52</i>	expressed in high levels in L1 and weakly in the rest of the stages		L4 to adult
<i>Pmir-53</i>	all stages		all stages
<i>Pmir-54-55-56</i>	all stages-all stages-NA		all stages
<i>Pmir-57</i>	all stages		all stages
<i>Pmir-58</i>	all stages		no expression
<i>Pmir-59</i>	NA	all stages	all stages
<i>Pmir-60</i>	all stages (highly expressed at L1)		all stages
<i>Pmir-61-250</i>	all stages- L1 to adult		all stages
<i>Pmir-63</i>	all stages		all stages
<i>Pmir-71</i>	all stages		L1 to adult
<i>Pmir-72</i>	all stages		all stages
<i>Pmir-75</i>	all stages		all stages
<i>Pmir-76</i>	NA		all stages
<i>Pmir-77</i>	L1 to adult		no expression
<i>Pmir-784</i>	NA		L1 to adult
<i>Pmir-788</i>	NA		all stages
<i>Pmir-79</i>	all stages		all stages
<i>Pmir-793</i>	NA		all stages
<i>Pmir-794</i>	NA		all stages
<i>Pmir-81</i>	expressed highly at L1		L1 to adult
<i>Pmir-82</i>	all stages	all stages	L4 to adult
<i>Pmir-83</i>	L2 to adult	all stages	all stages
<i>Pmir-84</i>	L2 to adult	L1 to adult	L1 to adult
<i>Pmir-85</i>	highly expressed at L3 and L4	L3 to adult	L2 to adult
<i>Pmir-90</i>	NA	all stages	all stages

NA: No
information
available

Table S5

Code	Definition	Comments
0	Early Embryo	
1	Mid Embryo	
2	Late Embryo	
3	L1 larvae	
4	L2 larvae	
5	L3 larvae	
6	L4 larvae	
7	Adult	
I	Intestine	
PI	Partial Intestine	Include potentially spurious posterior/anterior intestine
P	Pharynx	Includes pharyngeal muscle, bulbs, isthmus and arcade cells
PIV	Pharyngeal-Intestinal Valve	
PG	Pharyngeal Glands	
HH	Head Hypodermis	
HB	Body hypodermis	
TH	Tail Hypodermis	
SC	Seam Cells	
X	Excretory System	Includes excretory cells and canal cells
C	Coelomocytes	
S	Spermatheca	
DTC	Distal Tip Cells	
U	Uterus	
GS	Gonadal Sheath	
USV	Uterine-Spermatheca Valve	
V	Vulva	Includes vulva muscle, external vulval cells (vulva hypodermis)
BN	Body Neurons	Neurons in which cell body lies along the body. Includes ventral nerve cord, canal nerves and vulva neurons.
HN	Head Neurons	Neurons in which cell body lies in the head. Includes dorsal nerve cord, amphids, phasmids, pharyngeal nerves, nerve ring
TN	Tail Neurons	Neurons in which cell body lies in the tail.
HM	Head Muscle	
BM	Body Muscle	
R	Rectum	Includes rectal glands and muscle