

**Additional Tabel 2. List of worm strains and primers used to generate the promoter::GFP constructs.** The size of the amplified promoter region is indicated in base pairs.

| Gene name     | ORF      | Worm Strain | Primer A* (5'-3')               | Primer B (5'-3')                                    | A*_B size (bp) |
|---------------|----------|-------------|---------------------------------|-----------------------------------------------------|----------------|
| <i>wrt-9</i>  | H02F09.1 | TB1612      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | ACGCGGATCCCGCATTCTGCAACTTC<br>TAATG                 | 2660           |
| <i>wrt-9</i>  | H02F09.1 | TB1621      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | ACGCGGATCCCGCATTCTGCAACTTC<br>TAATG                 | 2660           |
| <i>wrt-9</i>  | H02F09.1 | TB1624      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | ACGCGGATCCCGCATTCTGCAACTTC<br>TAATG                 | 2660           |
| <i>wrt-9</i>  | H02F09.1 | TB1613      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | CGGGATCCGAACCACAGTACGAGGCA<br>CC                    | 2735           |
| <i>wrt-9</i>  | H02F09.1 | TB1622      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | CGGGATCCGAACCACAGTACGAGGCA<br>CC                    | 2735           |
| <i>wrt-9</i>  | H02F09.1 | TB1623      | CGCTGCAGCGTTGCT<br>GGGACTTCTTCT | CGGGATCCGAACCACAGTACGAGGCA<br>CC                    | 2735           |
| <i>wrt-10</i> | ZK1290.8 | TB1624      | GCCTGCAGACTAACA<br>TGGCGAGGCACT | GCGCGGATCCAGCATCCTAGCTAT<br>TTGGAAA                 | 771            |
| <i>wrt-10</i> | ZK1290.8 | TB1625      | GCCTGCAGACTAACA<br>TGGCGAGGCACT | GCGCGGATCCAGCATCCTAGCTAT<br>TTGGAAA                 | 771            |
| <i>wrt-10</i> | ZK1290.8 | TB1616      | GCCTGCAGACTAACA<br>TGGCGAGGCACT | GCGGATCCAGTGAGGGCACACGAGTT<br>TA                    | 1725           |
| <i>wrt-10</i> | ZK1290.8 | TB1620      | GCCTGCAGACTAACA<br>TGGCGAGGCACT | GCGGATCCAGTGAGGGCACACGAGTT<br>TA                    | 1725           |
| <i>wrt-10</i> | ZK1290.8 | TB1622      | GCCTGCAGACTAACA<br>TGGCGAGGCACT | GCGGATCCAGTGAGGGCACACGAGTT<br>TA                    | 1725           |
| <i>grd-1</i>  | R08B4.1  | BC13005     | TGGATCCTGATCCTA<br>AGGCA        | AGTCGACCTGCAGGCATGCAAGCTTA<br>GCGGTGTTCTATAAACGGAG  | 229            |
| <i>grd-2</i>  | F46B3.5  | BC13023     | GCAATTACTGAAAAT<br>TGCCGA       | AGTCGACCTGCAGGCATGCAAGCTAC<br>TCGATCTGTGCACGTCTTT   | 2939           |
| <i>grd-2</i>  | F46B3.5  | BC15192     | AACAGATTTAGACGG<br>CTTTTGAA     | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATAATGCCAGCGGATAAAG   | 2866           |
| <i>grd-4</i>  | T01B10.1 | BC12830     | TCATTACTCAACTTC<br>GTTCCGAT     | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATCGCTGCTGAATACACAC   | 1115           |
| <i>grd-4</i>  | T01B10.1 | BC12829     | TCATTACTCAACTTC<br>GTTCCGAT     | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATCGCTGCTGAATACACAC   | 1115           |
| <i>grd-5</i>  | F41E6.2  | BC12951     | ACTGTGTGAAGTAAA<br>CCGAAATGA    | AGTCGACCTGCAGGCATGCAAGCTAC<br>GATGAGTGAACGGATTCT    | 2885           |
| <i>grd-5</i>  | F41E6.2  | BC12828     | ACTGTGTGAAGTAAA<br>CCGAAATGA    | AGTCGACCTGCAGGCATGCAAGCTAC<br>GATGAGTGAACGGATTCT    | 2885           |
| <i>grd-6</i>  | T18H9.1  | BC15234     | AATGGCACATATCCG<br>TCGAT        | AGTCGACCTGCAGGCATGCAAGCTCG<br>TGATCCGAATTGTGACTG    | 2058           |
| <i>grd-6</i>  | T18H9.1  | BC13024     | GCGATGAAAAGAGAC<br>AATTACCTT    | AGTCGACCTGCAGGCATGCAAGCTCG<br>TGATCCGAATTGTGACTG    | 2939           |
| <i>grd-7</i>  | F46H5.6  | BC13025     | TCTCAGTGCTTCTGA<br>AAATTATGG    | AGTCGACCTGCAGGCATGCAAGCTAA<br>GACGGCATGATATCGACTAAA | 2901           |
| <i>grd-7</i>  | F46H5.6  | BC13025     | TCTCAGTGCTTCTGA<br>AAATTATGG    | AGTCGACCTGCAGGCATGCAAGCTAA<br>GACGGCATGATATCGACTAAA | 2901           |
| <i>grd-8</i>  | C37C3.4  | BC12824     | CTTCCTATACTTTCC<br>CCTCAGACA    | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATTCTTGCACATCGGT      | 905            |

|               |               |         |                               |                                                      |      |
|---------------|---------------|---------|-------------------------------|------------------------------------------------------|------|
| <i>grd-8</i>  | C37C3.4       | BC12823 | CTTCCTATACTTTTC<br>CCTCAGACA  | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATTCTTGCACATCGGT       | 905  |
| <i>grd-8</i>  | C37C3.4       | BC15238 | CATGGCATGAAATAC<br>AAGACAAA   | AGTCGACCTGCAGGCATGCAAGCTAA<br>GTGGAAGTAATGGCACGAA    | 110  |
| <i>grd-9</i>  | C04E6.6       | BC12961 | TTCGACGCATTTTTTA<br>TTTTTCG   | AGTCGACCTGCAGGCATGCAAGCTCT<br>ATCCGAATATCGCCACGTA    | 1146 |
| <i>grd-10</i> | F09D12.1      | BC12963 | TCGTCATCTTTTTTGT<br>CGCTG     | AGTCGACCTGCAGGCATGCAAGCTAC<br>GACGAGAGAGCGGATTT      | 799  |
| <i>grd-10</i> | F09D12.1      | BC14241 | TCGTCATCTTTTTTGT<br>CGCTG     | AGTCGACCTGCAGGCATGCAAGCTAC<br>GACGAGAGAGCGGATTT      | 799  |
| <i>grd-11</i> | K02E2.2       | BC12825 | TCAGAAAAATTCAGA<br>AATGGTTTTT | AGTCGACCTGCAGGCATGCAAGCTAA<br>TAGCAGGAAAATGATGGAATAA | 1951 |
| <i>grd-12</i> | F02D8.2       | BC12962 | TTTCAAAACAATGTG<br>TATCGACG   | AGTCGACCTGCAGGCATGCAAGCTTC<br>GGCCTGTGTAAGATTTCTG    | 2905 |
| <i>grd-13</i> | W05E7.3       | BC12966 | TCTACTTATTCCATA<br>ACGGCCAA   | AGTCGACCTGCAGGCATGCAAGCTAA<br>CGGCTGATGATCTCTGAAA    | 723  |
| <i>grd-13</i> | W05E7.3       | BC12831 | GAAGGCTTGCTCATT<br>TACCATC    | AGTCGACCTGCAGGCATGCAAGCTGA<br>GAAAACGGCTGATGATCTCT   | 879  |
| <i>grd-13</i> | W05E7.3       | BC15195 | GAAGGCTTGCTCATT<br>TACCATC    | AGTCGACCTGCAGGCATGCAAGCTGA<br>GAAAACGGCTGATGATCTCT   | 879  |
| <i>grd-14</i> | T01B10.2      | BC12965 | TTTTTGTTTCAGGTGA<br>TTGTCA    | AGTCGACCTGCAGGCATGCAAGCTTG<br>ACTTCTGTAAGACGGAGGC    | 1859 |
| <i>grd-14</i> | T01B10.2      | BC14199 | TTTTTGTTTCAGGTGA<br>TTGTCA    | AGTCGACCTGCAGGCATGCAAGCTTG<br>ACTTCTGTAAGACGGAGGC    | 1859 |
| <i>grd-15</i> | Y87G2A.1<br>5 | BC12964 | AATAACAATCTCGCT<br>ATCCTCCA   | AGTCGACCTGCAGGCATGCAAGCTAA<br>GACGGGCGGTTCCTACTTA    | 841  |
| <i>grd-16</i> | Y69A2AL<br>.1 | BC15226 | TATTGCAAACCTTC<br>TCGCT       | AGTCGACCTGCAGGCATGCAAGCTTT<br>GAATACAACGGATTTTGGG    | 2866 |
| <i>grl-1</i>  | C24G6.7       | BC15287 | CGATGGCAACGATGA<br>ATAAA      | AGTCGACCTGCAGGCATGCAAGCTCT<br>TTCATTGCGTCATTCTTTT    | 287  |
| <i>grl-2</i>  | T16G1.8       | BC12852 | TGAACTTACCACACC<br>TGCACA     | AGTCGACCTGCAGGCATGCAAGCTAA<br>GTGCAGTTAGGATACTTGGTA  | 2981 |
| <i>grl-2</i>  | T16G1.8       | BC12853 | TGAACTTACCACACC<br>TGCACA     | AGTCGACCTGCAGGCATGCAAGCTAA<br>GTGCAGTTAGGATACTTGGTA  | 2981 |
| <i>grl-3</i>  | K03B8.7       | BC12826 | ATCCTTTTCATTTCGTT<br>TCCTTCTC | AGTCGACCTGCAGGCATGCAAGCTCA<br>TCTTTCAATTTGATTCCCCAA  | 1798 |
| <i>grl-3</i>  | K03B8.7       | BC12827 | ATCCTTTTCATTTCGTT<br>TCCTTCTC | AGTCGACCTGCAGGCATGCAAGCTCA<br>TCTTTCAATTTGATTCCCCAA  | 1798 |
| <i>grl-4</i>  | F42C5.7       | BC12855 | TCAGTTCGGTCTGCA<br>AAGG       | AGTCGACCTGCAGGCATGCAAGCTCC<br>GCCTCCATTACCTCATT      | 1552 |
| <i>grl-4</i>  | F42C5.7       | BC12854 | TCAGTTCGGTCTGCA<br>AAGG       | AGTCGACCTGCAGGCATGCAAGCTCC<br>GCCTCCATTACCTCATT      | 1552 |
| <i>grl-4</i>  | F42C5.7       | BC15247 | TTCTCGGGAAGGCTG<br>AAGTA      | AGTCGACCTGCAGGCATGCAAGCTCG<br>AATTGAGGGATTTTGGATT    | 2009 |
| <i>grl-4</i>  | F42C5.7       | TB1659  | CACATTTGGAATAAG<br>GTTAC      | TATAGGATCCATCTGGAAAATAAAAA<br>CTTTTG                 | 2214 |
| <i>grl-5</i>  | Y47D7A.5      | BC20022 | CATTGGACAAAATTT<br>GCAGAG     | AGTCGACCTGCAGGCATGCAAGCTTT<br>CTGATCATGGCTAGCAACA    | 2936 |
| <i>grl-6</i>  | K10C2.5       | BC12857 | TGGTGTTGTGCCAGA<br>TTTGT      | AGTCGACCTGCAGGCATGCAAGCTCA<br>AATATGGAATGGAAGTGGAAAG | 940  |
| <i>grl-6</i>  | K10C2.5       | BC12856 | TGGTGTTGTGCCAGA<br>TTTGT      | AGTCGACCTGCAGGCATGCAAGCTCA<br>AATATGGAATGGAAGTGGAAAG | 940  |
| <i>grl-7</i>  | T02E9.2       | BC15289 | CGTCTGTTCTTTTGTA<br>CGGGAG    | AGTCGACCTGCAGGCATGCAAGCTCG<br>GAATAGGATTCTGGAAATAGAA | 2375 |

|               |               |         |                              |                                                       |      |
|---------------|---------------|---------|------------------------------|-------------------------------------------------------|------|
| <i>grl-8</i>  | ZC487.5       | BC15274 | GGGGTGGAGTCATTA<br>GTGGA     | AGTCGACCTGCAGGCATGCAAGCTCA<br>GATCGTTAGAATACTGCAAAA   | 2893 |
| <i>grl-9</i>  | ZC487.4       | BC15288 | AATCGGATTCTGAAG<br>AAGAACAAC | AGTCGACCTGCAGGCATGCAAGCTTA<br>TCTCGATAACTATGCCAACTGC  | 1122 |
| <i>grl-10</i> | C26F1.5       | BC13003 | TGTTGTTAACGGGTT<br>TTTAAGTGA | AGTCGACCTGCAGGCATGCAAGCTTT<br>TTAGGTGAAGTGGGTCGTG     | 1411 |
| <i>grl-10</i> | C26F1.5       | BC12880 | TGTTGTTAACGGGTT<br>TTTAAGTGA | AGTCGACCTGCAGGCATGCAAGCTTT<br>TTAGGTGAAGTGGGTCGTG     | 1411 |
| <i>grl-11</i> | ZK512.9       | BC12881 | CCCATGCATTGACAT<br>AGCAC     | AGTCGACCTGCAGGCATGCAAGCTTT<br>TTTCAAGTTCCGCTTTTT      | 2847 |
| <i>grl-12</i> | F28A12.2      | BC20023 | ACCAGGACTGTTTTG<br>ATGGC     | AGTCGACCTGCAGGCATGCAAGCTAA<br>AGGATCGCAATGGAAAGTT     | 2989 |
| <i>grl-13</i> | F32D1.4       | BC15244 | TTTTTGCCTTTTTCT<br>TGCAT     | AGTCGACCTGCAGGCATGCAAGCTCA<br>ATGCTAAAGCTAAATGCCG     | 2843 |
| <i>grl-13</i> | F32D1.4       | BC12983 | TCACGAAATTTTACG<br>ATTTTTGC  | AGTCGACCTGCAGGCATGCAAGCTTT<br>TTTGGATTTTTCGCTTTTCT    | 2905 |
| <i>grl-14</i> | T03D8.4       | BC12985 | TGGAGTACTAAGAGG<br>CACGGTT   | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATCTGTAGATTCAAAATCAATG  | 2899 |
| <i>grl-14</i> | T03D8.4       | BC15224 | CAGCTGCAGTACATC<br>CCAAA     | AGTCGACCTGCAGGCATGCAAGCTTG<br>AAAATAGGCTAAACAAGCC     | 2925 |
| <i>grl-15</i> | Y75B8A.2<br>0 | BC12984 | TCGGAATTGAAAATA<br>TTCGGTAA  | AGTCGACCTGCAGGCATGCAAGCTGC<br>TTTGGATTTTGTGCACTTTTT   | 2888 |
| <i>grl-16</i> | Y65B4BR.<br>6 | BC12882 | TTATGAAACATTGCT<br>TTGTCGG   | AGTCGACCTGCAGGCATGCAAGCTTC<br>GTTTTTGAGAAGGCAGAAA     | 2840 |
| <i>grl-17</i> | C56A3.1       | BC15275 | TTCGACGCTAAGGAC<br>AGAAAA    | AGTCGACCTGCAGGCATGCAAGCTGA<br>GGATGCCTTGTTGGTTACA     | 2869 |
| <i>grl-17</i> | C56A3.1       | BC15276 | TTCGACGCTAAGGAC<br>AGAAAA    | AGTCGACCTGCAGGCATGCAAGCTGA<br>GGATGCCTTGTTGGTTACA     | 2869 |
| <i>grl-18</i> | T05C3.4       | BC12982 | CAACTTTGGCAGCTT<br>ATATCTCAA | AGTCGACCTGCAGGCATGCAAGCTGC<br>AGTTGATGGAACCTGAATTT    | 2905 |
| <i>grl-18</i> | T05C3.4       | BC15230 | TGTGTTGTAGATTTG<br>AGCTCCC   | AGTCGACCTGCAGGCATGCAAGCTTG<br>CGATTGAATAGAATGTATCAG   | 2968 |
| <i>grl-19</i> | R02D3.6       | BC12981 | AATGCCTGACAATAA<br>ACGCTG    | AGTCGACCTGCAGGCATGCAAGCTAC<br>TTTTGATGTTCTATTGCTGGAT  | 1052 |
| <i>grl-19</i> | R02D3.6       | BC15228 | CAAAAGTGGCAAAAA<br>TGCAC     | AGTCGACCTGCAGGCATGCAAGCTTG<br>ATGTTCTATTGCTGGATTCAA   | 908  |
| <i>grl-20</i> | C23H5.9       | BC20095 | TTCGGATTTCTAGGC<br>CACC      | AGTCGACCTGCAGGCATGCAAGCTCA<br>GTTCCCTCACCATATCAGCTTC  | 2754 |
| <i>grl-21</i> | ZC168.5       | BC15277 | GCTTTTCTTTTCGGC<br>TCCTT     | AGTCGACCTGCAGGCATGCAAGCTCG<br>ATTTTCGAGTGAATGTATGA    | 675  |
| <i>grl-23</i> | E02A10.2      | BC15278 | CGGACTTGTCGCCTT<br>TGTAT     | AGTCGACCTGCAGGCATGCAAGCTTT<br>CTGATTCTGAAAATTACGTTAGA | 3059 |
| <i>grl-24</i> | F11E6.2       | BC12883 | CAAAGCTAGGTGCTG<br>ATGAGTTT  | AGTCGACCTGCAGGCATGCAAGCTAC<br>TTTAAATGACCTCTGTTTCCTGG | 2942 |
| <i>grl-24</i> | F11E6.2       | BC12884 | CAAAGCTAGGTGCTG<br>ATGAGTTT  | AGTCGACCTGCAGGCATGCAAGCTAC<br>TTTAAATGACCTCTGTTTCCTGG | 2942 |
| <i>grl-25</i> | ZK643.8       | BC12886 | CACAATCCTCAGCTA<br>CACTGAA   | AGTCGACCTGCAGGCATGCAAGCTAA<br>AAACCAACATTTGGGGAAC     | 3059 |
| <i>grl-25</i> | ZK643.8       | BC12885 | CACAATCCTCAGCTA<br>CACTGAA   | AGTCGACCTGCAGGCATGCAAGCTAA<br>AAACCAACATTTGGGGAAC     | 3059 |
| <i>grl-25</i> | ZK643.8       | BC15248 | AGGGCGCAAAGTTCT<br>AGGAT     | AGTCGACCTGCAGGCATGCAAGCTAA<br>CCAACATTTGGGGAACAA      | 1213 |
| <i>grl-26</i> | K02D7.6       | BC20127 | TCTGAAATTCGTGCT<br>TAGAAACTG | AGTCGACCTGCAGGCATGCAAGCTTT<br>TGAGAATCTGAACATAAAAATCC | 2775 |

|               |               |         |                                    |                                                      |       |
|---------------|---------------|---------|------------------------------------|------------------------------------------------------|-------|
| <i>grl-27</i> | F40C5.3       | BC15279 | AGAAAATTGGCCGTA<br>ACAAC           | AGTCGACCTGCAGGCATGCAAGCTGA<br>AGGGAGGATTGGATGATGT    | 2956  |
| <i>grl-27</i> | F40C5.3       | BC15280 | AGAAAATTGGCCGTA<br>ACAAC           | AGTCGACCTGCAGGCATGCAAGCTGA<br>AGGGAGGATTGGATGATGT    | 2956  |
| <i>grl-28</i> | T24A6.15      | BC15281 | CGAATTTTTCCAGAA<br>GCCTAAAT        | AGTCGACCTGCAGGCATGCAAGCTTG<br>AGGAATGGATTATTGAATGAGA | 2553  |
| <i>grl-29</i> | T24A6.18      | BC15282 | TCTTG GTTGCAGAGT<br>AGCCATA        | AGTCGACCTGCAGGCATGCAAGCTGG<br>GAGGAAATGATTAGCTTATGTG | 1893  |
| <i>grl-29</i> | T24A6.18      | BC15283 | TCTTG GTTGCAGAGT<br>AGCCATA        | AGTCGACCTGCAGGCATGCAAGCTGG<br>GAGGAAATGATTAGCTTATGTG | 1893  |
| <i>grl-31</i> | T24A6.19      | BC20024 | ATAACACAGGCAAAG<br>CGGAA           | AGTCGACCTGCAGGCATGCAAGCTTT<br>GAGGAATGGATTGTTTGATG   | 2364  |
| <i>hog-1</i>  | W06B11.4      | BC15236 | TACAATGTCATCGTG<br>GCTCG           | AGTCGACCTGCAGGCATGCAAGCTGT<br>GGTGATCCAAGAGTCGGTA    | 3893  |
| <i>hog-1</i>  | W06B11.4      | BC16352 | GGTGCTGGTTTATTC<br>GGAAA           | AGTCGACCTGCAGGCATGCAAGCTGC<br>CACTTGGTGTGGTCATC      | 2941  |
| <i>mom-5</i>  | T23D8.1       | TB1629  | GCATGCATGCGTCGT<br>AAATCCGCAAGCAC  | GCGGGATCCGATGAGAGTCGTTGATC<br>AGC                    | 3432  |
| <i>mom-5</i>  | T23D8.1       | TB16230 | GCATGCATGCGTCGT<br>AAATCCGCAAGCAC  | GCGGGATCCGATGAGAGTCGTTGATC<br>AGC                    | 3432  |
| <i>mom-5</i>  | T23D8.1       | TB1631  | GCATGCATGCGTCGT<br>AAATCCGCAAGCAC  | GCGGGATCCGATGAGAGTCGTTGATC<br>AGC                    | 3432  |
| <i>cfz-2</i>  | F27E11.3<br>A | TB1627  | CGCTGCATGCCCTTG<br>GAACGGGTGTCGTTG | GCGGATCCCTCACCTCCACCAGGGGA<br>TA                     | 10612 |
| <i>cfz-2</i>  | F27E11.3<br>A | TB1628  | CGCTGCATGCCCTTG<br>GAACGGGTGTCGTTG | GCGGATCCCTCACCTCCACCAGGGGA<br>TA                     | 10612 |
| <i>gpn-1</i>  | F59D12.4      | BC20000 | TCCGCGAAATAGAGG<br>CTG             | AGTCGACCTGCAGGCATGCAAGCTAA<br>AAGCATACGAGCTTGGGTT    | 2972  |