

Table 1. List of sequences (with GenBank database accession nos.) and taxa

| Gene | Species and strain | Genbank accession no. |
|--------------------------|---|-----------------------|
| Small subunit (SSU) rRNA | <i>Caenorhabditis briggsae</i> PB102 | U13929 |
| | <i>Caenorhabditis remanei</i> SB146 | U13931 |
| | <i>Caenorhabditis</i> sp. CB5161 | U13930 |
| | <i>Caenorhabditis elegans</i> N2 | X03680 |
| | <i>Caenorhabditis japonica</i> SB339 | AY602182* |
| | <i>Caenorhabditis</i> sp. PS1010 | AF083006 |
| | <i>Caenorhabditis</i> sp. DF5070 | AY602181* |
| | <i>Caenorhabditis drosophilae</i> SB225 | AF083025 |
| | <i>Caenorhabditis plicata</i> SB355 | AY602178* |
| | <i>Caenorhabditis</i> sp. SB341 | AY602180* |
| | <i>Prodontrhabditis wirthi</i> DF5074 | AY602179* |
| | <i>Protrhabditis</i> sp. DF5055 | AF083001 |
| | <i>Oscheius myriophila</i> EM435 | U13936 |
| | <i>Rhabditella axei</i> DF5006 | U13934 |
| | <i>Mus musculus</i> | X00686 |
| | <i>Rattus norvegicus</i> | M11188 |
| | <i>Homo sapiens</i> | M10098 |
| | <i>Equus caballus</i> | AJ311673 |
| | <i>Didelphis virginiana</i> | AJ311677 |
| | <i>Ornithorhynchus anatinus</i> | AJ311679 |
| | <i>Alligator mississippiensis</i> | AF173605 |
| | <i>Gallus gallus</i> | AF173612 |
| | <i>Xenopus laevis</i> | X04025 |
| | <i>Ambystoma mexicanum</i> | M59384 |
| | <i>Latimeria chalumnae</i> | L11288 |
| | <i>Danio rerio</i> | AC139725 |
| | <i>Lampetra aepyptera</i> | M97573 |
| | <i>Branchiostoma floridae</i> | M97571 |
| | <i>Ciona intestinalis</i> | AB013017 |
| | <i>Saccoglossus bromophenolosus</i> | AF236801 |
| | <i>Strongylocentrotus purpuratus</i> | L28056 |
| | <i>Drosophila melanogaster</i> | M21017 |
| | <i>Drosophila simulans</i> | AY037174 |
| | <i>Musca</i> sp. | AF322423 |

| Gene | Species and strain | Genbank accession no. |
|---------------------------|--|---------------------------------|
| | <i>Anopheles albimanus</i> | L78065 |
| | <i>Papilio troilus</i> | AF286299 |
| | <i>Forficula auricularia</i> | Z97594 |
| | <i>Androctonus australis</i> | X77908 |
| | <i>Artemia salina</i> | X01723 |
| | <i>Limulus polyphemus</i> | U91490 |
| | <i>Helobdella stagnalis</i> | AF115986 |
| | <i>Crassostrea virginica</i> | X60315 |
| RNA polymerase II (RNAP2) | <i>Caenorhabditis briggsae</i> AF16 | Wormbase: CBG05355 |
| | <i>Caenorhabditis remanei</i> SB146 | AY601770*, AY601771* |
| | <i>Caenorhabditis</i> sp. CB5161 | AY601775*, AY601776*, AY601777* |
| | <i>Caenorhabditis elegans</i> N2 | M29235 |
| | <i>Caenorhabditis japonica</i> SB339 | AY602185* |
| | <i>Caenorhabditis</i> sp. PS1010 cDNA | U73448 |
| | <i>Caenorhabditis</i> sp. PS1010 genomic | AY601772*, AY601773*, AY601774* |
| | <i>Caenorhabditis</i> sp. DF5070 | AY602189* |
| | <i>Caenorhabditis drosophilae</i> DF5077 | AY602188* |
| | <i>Caenorhabditis plicata</i> SB355 | AY602186* |
| | <i>Caenorhabditis</i> sp. SB341 | AY602187* |
| | <i>Prodontrhabditis wirthi</i> DF5074 | AY604469* |
| | <i>Prototrhabditis</i> sp. DF5055 | AY602184* |
| | <i>Oscheius myriophila</i> DF5020 | AY601778*, AY601779*, AY601780* |
| | <i>Rhabditella axei</i> DF5006 | AY602183* |
| | <i>Mus musculus</i> | U37500 |
| | <i>Rattus norvegicus</i> | XM_343922 |
| | <i>Cricetulus griseus</i> | AB052229 |
| | <i>Homo sapiens</i> | X63564 |
| | <i>Danio rerio</i> | AL929346 |
| | <i>Ciona intestinalis</i> | JGI: ci0100146994 |
| | <i>Drosophila subobscura</i> | Y18876 |
| | <i>Drosophila madeirensis</i> | Y18877 |
| | <i>Drosophila guanche</i> | Y18878 |
| | <i>Drosophila pseudoobscura</i> | Y18879 |
| | <i>Drosophila melanogaster</i> | M27431 |
| | <i>Anopheles gambiae</i> | XM_317690 |

| Gene | Species and strain | Genbank accession no. |
|--------------------------|--|-----------------------|
| | <i>Artemia salina</i> | U10331 |
| | <i>Helobdella stagnalis</i> | U10336 |
| | <i>Crassostrea gigas</i> | U10334 |
| | <i>Ilyanassa obsoleta</i> | U10338 |
| Large subunit (LSU) rRNA | <i>Caenorhabditis briggsae</i> PB800 | AY604481* |
| | <i>Caenorhabditis remanei</i> EM464 | AY602174* |
| | <i>Caenorhabditis</i> sp. CB5161 | AY602175* |
| | <i>Caenorhabditis elegans</i> N2 | X03680 |
| | <i>Caenorhabditis japonica</i> SB339 | AY602173* |
| | <i>Caenorhabditis</i> sp. PS1010 | AY604482* |
| | <i>Caenorhabditis</i> sp. DF5070 | AY602171* |
| | <i>Caenorhabditis drosophilae</i> DF5077 | AY602172* |
| | <i>Caenorhabditis plicata</i> SB355 | AY602167* |
| | <i>Caenorhabditis</i> sp. SB341 | AY602170* |
| | <i>Prodontorhabditis wirthi</i> DF5074 | AY602169* |
| | <i>Protorhabditis</i> sp. DF5055 | AY602168* |
| | <i>Oscheius myriophila</i> DF5020 | AY602176* |
| | <i>Rhabditella axei</i> DF5006 | AY602177* |
| | <i>Homo sapiens</i> | U13369 |
| | <i>Mus musculus</i> | X00525 |
| | <i>Rattus norvegicus</i> | V01270 |
| | <i>Xenopus laevis</i> | X02995 |
| | <i>Ambystoma macrodactylum</i> | AF212178 |
| | <i>Latimeria chalumnae</i> (coelacanth) | U34336 |
| | <i>Petromyzon marinus</i> (sea lamprey) | AF061798 |
| | <i>Branchiostoma floridae</i> (Amphioxus) | AF061796 |
| | <i>Ciona intestinalis</i> (ascidian, tunicate) | AF212177 |
| | <i>Florometra serratissima</i> (crinoid) | AF212168 |
| | <i>Drosophila melanogaster</i> | M21017 |
| | <i>Anopheles albimanus</i> | L78065 |
| | <i>Attacus ricini</i> (silkworm) | AF463459 |
| | <i>Tenebrio</i> sp. (beetle) | AY210843 |
| | <i>Gromphadorhina laevigata</i> (Madagascar hissing cockroach) | AY210819 |
| | <i>Artemia</i> sp. | AY210805 |
| | <i>Pandinus imperator</i> (emperor scorpion) | AY210830 |

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|--------------|---|-----------------------|
| | <i>Limulus polyphemus</i> (Atlantic horseshoe crab) | AF212167 |
| | <i>Orthoporus</i> sp. (millipede) | AY210828 |
| | <i>Crassostrea virginica</i> (eastern oyster) | AY145400 |
| | <i>Ilyanassa obsoleta</i> | AY145411 |
| <i>par-6</i> | <i>Caenorhabditis briggsae</i> AF16 | Wormbase:CBG08713 |
| | <i>Caenorhabditis remanei</i> SB146 | AY604470* |
| | <i>Caenorhabditis</i> sp. CB5161 | AY604475* |
| | <i>Caenorhabditis elegans</i> N2 | AF070968 |
| | <i>Caenorhabditis japonica</i> SB339 | AY604473* |
| | <i>Caenorhabditis</i> sp. PS1010 | AY604471* |
| | <i>Caenorhabditis</i> sp. DF5070 | AY604474* |
| | <i>Caenorhabditis drosophilae</i> DF5077 | AY604472* |
| <i>pkc-3</i> | <i>Caenorhabditis briggsae</i> AF16 | Wormbase: CBG02381 |
| | <i>Caenorhabditis remanei</i> SB146 | AY604479* |
| | <i>Caenorhabditis</i> sp. CB5161 | AY604480* |
| | <i>Caenorhabditis elegans</i> N2 | AF025666 |
| | <i>Caenorhabditis</i> sp. PS1010 | AY604476* |
| | <i>Caenorhabditis</i> sp. DF5070 | AY604478* |
| | <i>Caenorhabditis drosophilae</i> DF5077 | AY604477* |

*These sequences are reported in this paper.