### Table S2. PCR primers for cDNA amplification.

<table>
<thead>
<tr>
<th>name</th>
<th>forward primer sequence</th>
<th>name</th>
<th>reverse primer sequence</th>
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</thead>
</table>

**A. To sequence *Elmod1* cDNA and produce Southern and northern blot probes.**

- **wex1F**
  - **CTCTGTCCAGCATCCGCTC**
  - Primers within exons 1 and 3, 367 bp product (additional 973 bp product in *rda-2J*).

- **wex11R1**
  - **CTCTGTCCAGCATCCGCTC**
  - Primers within exons 11 and 1147 bp product (1753 bp product in *rda-2J*).

- **wex3F**
  - **CGCTGCAATGGAATTTTGTGAT**
  - Primers within exons 3 and 7, 479 bp product (additional 1085 bp product in *rda-2J*).

- **wex7F**
  - **TTTCGAAGCGGATGTTGAG**
  - Primers within exons 7 and 11, 466 bp product (additional 1072 bp product in *rda-2J*).

- **wex8F**
  - **TCTTGTCCAGCATCCGCTC**
  - Primers within exons 8 and 11, 242 bp product (additional 848 bp product in *rda-2J*).

- **wex9F**
  - **TGAGAAGGAAAGGATGGA**
  - Primers within exons 9 and 11, 250 bp product.

- **wex10F**
  - **CTTTGCAATTGTGGCCATC**
  - Primers within exons 10 and 11, 249 bp product.

- **wex11F**
  - **GAAATTCCGGAAGGATC**
  - Primers both within exon 11, 556 bp product.

**B. To analyze the *Elmod1* promoter site and alternative transcripts.**

#### Primers for 5' RACE to analyze promoter site:

- **wex1F**
  - **CTCTGTCCAGCATCCGCTC**
  - Control forward primer in exon 1.

- **wex2R2**
  - **GGATGCTACGCCAACTGTCT**
  - Inner reverse primer in exon 2.

- **wex2R1**
  - **ATTTTGCAGGCGTTTGACTC**
  - Outer reverse primer in exon 2.

#### Primers to analyze alternative 5' splicing of exon 3:

- **wex1F**
  - **CTCTGTCCAGCATCCGCTC**
  - Primers within exons 1 and 3, predominantly 367 bp product, small amount of alternative 405 bp product.

- **wex11R1**
  - **CTCTGTCCAGCATCCGCTC**
  - Primers within exons 11 and 1147 bp product, small amount of alternative 1753 bp product.

- **wex3R2**
  - **GTTCACACCTTCCGGTGAGT**
  - Primers within exons 1 and 3, predominantly 325 bp product, small amount of alternative 363 bp product.

- **wex52/3F**
  - **CTTCCTGAGGATGTTGACTC**
  - Primers for standard exon 2/3 splice sequence and exon 7, 534 bp product.

- **wexA2/3F**
  - **ATGAAGCACTTTCGAGCTTC**
  - Primers for alternative exon 2/3 splice sequence and exon 7, 580 bp product–verified alternative splice.

#### Primers to analyze presence of an additional exon between standard exons 8 and 9:

- **wex7F**
  - **TTTCGAAGCGGATGTTGAG**
  - Primers within exons 7 and 10, predominantly 236 bp product, small amount of alternative 260 bp product.

- **wex7F**
  - **TTTCGAAGCGGATGTTGAG**
  - Primers within exon 7 and alternative exon 168 bp product–verified presence of alternative exon.

#### Primers to analyze presence of an alternative last exon:

- **wex7F**
  - **TTTCGAAGCGGATGTTGAG**
  - Primers within exons 10 and alternate exon 11, expect 436 bp product if transcribed–not detected.

- **wex7F**
  - **TTTCGAAGCGGATGTTGAG**
  - Primers within exons 10 and alternate exon 11, expect 580 bp product if transcribed–not detected.