Supplementary Materials and Methods

2 5'- and 3'-region RACE-PCR conditions

- 3 For the 5' RACE PCR, the first round of PCR was performed according to the following conditions: 1
- 4 cycle of 95°C for 7 min; 55°C for 5 min; 72°C for 40 min; 25 cycles of 95°C for 30 sec, 55°C for 1 min 30
- sec, and 72°C for 1 min 30 sec; and 1 cycle of 95°C for 40 sec, 55°C for 1 min 30 sec, and 72°C for 15
- 6 min. The second round of PCR was carried out as follows: 1 cycle of 95°C for 7 min; 40 cycles of 95°C
- 7 for 30 sec, 55°C for 1 min, and 72°C for 1 min 30 sec; and 1 cycle of 72°C for 10 min.
- 8 In the case of 3' RACE PCR, the first round of PCR was performed as follows: 1 cycle of 95°C for 5 min;
- 9 55°C for 5 min; 72°C for 30 min; and 25 cycles of 95°C for 30 sec, 55°C for 1 min, and 72°C for 1 min
- 30 sec; and 1 cycle of 95°C for 40 sec, 55°C for 1 min 30 sec, and 72°C for 15 min. Nested PCR was
- performed according to the following conditions: 1 cycle of 95°C for 7 min followed by 40 cycles of
- 12 95°C for 30 sec, 55°C for 1 min, and 72°C for 1 min; and 1 cycle of 72°C for 15 min.