**Supplementary File 1** Primer list for cloning and quantitative RT-PCR.

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| --- | --- | --- | --- | --- |
| **Name** | **Strain** | **Protein** | **Primer sequence** | **Isolated or synthesized from:** |
| **For cloning:** |  |  |  |  |
| *Bg*MFREP2 precursor(AY012700.1) | M-line | AAK13550.1 | Forward:5'- CAC CAG GAG GAT CTT AGT AAT GGC GTC GC -3'Reverse: 5'- GAC CCT TGG CGC GTT TAG CTC TAT TTC TCT -3' | M-line strain |
| *Bg*FREP3.2 precursor(Derived from AY028461.1) | M-line | AAK28656.1 | Forward: 5'- CAC CAG GAG AAG AAA CGA AAT GGC TCG TCT CTT CTT GCT CTT C -3'Reverse: 5'- CAT CTC AGT GAA CGA CAC GGA -3' | Synthesized by GenScript |
| *Bg*TEP1.1(HM003907.1) | Brazil | ADE45332.1 | Forward: 5'- CAC CAT GAG AAT GAA GCT GAA T -3'Reverse: 5'- TGG GCA ACA GTT GAG GCA -3' | M-line strain |
| **For q-PCR:** |  |  |  |  |
| *Bg*TEP1.1 |  |  | Forward: 5’-CACCAATGGCGATGTCATTTAG-3’Reverse: 5’-CTGACTCTCTCAACAGGCTTAG-3’ |  |
| *Bg*Actin |  |  | Forward: 5’-GCTTCCACCTCTTCATCTCTT - 3’Reverse: 5’ -GAACGTAGCTTCTGGACATCTG-3’ |  |