| Mutants | Primers | Primer sequences | RE** | Note |
|---------|---------|-----------------|-------|------|
| **Beauveria bassiana**<br>OE::BBA_07334 (tenR) | **Uf**<br>TCAATAACAACCTAGTTCTAGAATGGAGGCCCAGGCGG<br>CAGGC | BamHI | Overexpression of tenR |
| | **Ur**<br>CAGGGTGCCGCCCCTCTAGATCACAGCGGCAG<br>GCCCTAC | XbaI | |
| | **Uf**<br>TCAATAACAACCTAGTTCTAGAATGGAGGCCCAGGCGG<br>CAGGC | BamHI | Overexpression of BBA_07339 |
| | **Ur**<br>CAGGGTGCCGCCCCTCTAGATCACAGCGGCAG<br>GCCCTAC | XbaI | |
| **ΔtenS**<br>OE::tenRΔtenS | **Uf**<br>CTGCCAGCCGGGATCTCTTGATAGGTAAGCG<br>GCCG | BamHI | Gene deletion |
| | **Ur**<br>ATCTTCTGTCCGAGACCTGTGGACAGAGGCGTT<br>CAG | | |
| | **Dr**<br>CGAGATCTGATAGAAGGCGGATAGTTCCACT | Spe1 | |
| | **Dr**<br>GGCCGCTCTAGAAGTATCTCCAGTGCCACAA | | |
| | **F**<br>GGAGACAGTTCTGCGGACCT | | Deletion mutant verification |
| | **R**<br>ATGCGATTGGAGATGTAGGC | | |
| | **Uf**<br>CTGCCAGCCGGGATCTCTTGATAGGTAAGCG<br>GCCG | BamHI | Gene deletion |
| | **Ur**<br>ATCTTCTGTCCGAGACCTGTGGACAGAGGCGTT<br>CAG | | |
| | **Dr**<br>CGAGATCTGATAGAAGGCGGATAGTTCCACT | Spe1 | |
| | **Dr**<br>GGCCGCTCTAGAAGTATCTCCAGTGCCACAA | | |
| | **F**<br>GGAGACAGTTCTGCGGACCT | | Deletion mutant verification |
| | **R**<br>ATGCGATTGGAGATGTAGGC | | |
| | **Uf**<br>CTGCCAGCCGGGATCTCTTGATAGGTAAGCG<br>GCCG | BamHI | Gene deletion |
| | **Ur**<br>ATCTTCTGTCCGAGACCTGTGGACAGAGGCGTT<br>CAG | | |
| | **Dr**<br>CGAGATCTGATAGAAGGCGGATAGTTCCACT | Spe1 | |
| | **Dr**<br>GGCCGCTCTAGAAGTATCTCCAGTGCCACAA | | |
| | **F**<br>GGAGACAGTTCTGCGGACCT | | Deletion mutant verification |
| | **R**<br>ATGCGATTGGAGATGTAGGC | | |
| | **Uf**<br>CTGCCAGCCGGGATCTCTTGATAGGTAAGCG<br>GCCG | BamHI | Gene deletion |
| | **Ur**<br>ATCTTCTGTCCGAGACCTGTGGACAGAGGCGTT<br>CAG | | |
| | **Dr**<br>CGAGATCTGATAGAAGGCGGATAGTTCCACT | Spe1 | |
| | **Dr**<br>GGCCGCTCTAGAAGTATCTCCAGTGCCACAA | | |
| | **F**<br>GGAGACAGTTCTGCGGACCT | | Deletion mutant verification |
| | **R**<br>ATGCGATTGGAGATGTAGGC | | |
| Gene | Forward | Reverse | Enzyme | Function |
|------|---------|---------|--------|----------|
| OE::tenR∆BbGT1 | TGGAAACGGCAGTCACAA | GAGACGCCATCGTTCACG | / | Deletion mutant verification |
| | CTGCAGCCCCGGGGGATCCCCCATTTGTCCCGTAA | ATCTTCTGTCGACGGATCTCAACCATTCTGCTTTT | BamHI | Gene deletion |
| | CGAGATCTAGTAAGACAACTCTTTGTCCTGCTG | GGCCCGCTCTAAGACTTACTATGCCTGCTG | SpeI | |
| | CTCGTCATCTAAACTCG | CATAGCCACGTCGTCAAA | / | Deletion mutant verification |

| OE::tenR∆BbMT1 | TGGAAACGGCAGTCACAA | GAGACGCCATCGTTCACG | / | Deletion mutant verification |
| | CTGCAGCCCCGGGGGATCCCCCATTTGTCCCGTAA | ATCTTCTGTCGACGGATCTCAACCATTCTGCTTTT | BamHI | Gene deletion |
| | CGAGATCTAGTAAGACAACTCTTTGTCCTGCTG | GGCCCGCTCTAAGACTTACTATGCCTGCTG | SpeI | |
| | CTCGTCATCTAAACTCG | CATAGCCACGTCGTCAAA | / | Deletion mutant verification |

| OE::tenR∆BbGT1/MT1 | TGGAAACGGCAGTCACAA | GAGACGCCATCGTTCACG | / | Deletion mutant verification |
| | CTGCAGCCCCGGGGGATCCCCCATTTGTCCCGTAA | ATCTTCTGTCGACGGATCTCAACCATTCTGCTTTT | BamHI | Gene deletion |
| | CGAGATCTAGTAAGACAACTCTTTGTCCTGCTG | GGCCCGCTCTAAGACTTACTATGCCTGCTG | SpeI | |
| | CTCGTCATCTAAACTCG | CATAGCCACGTCGTCAAA | / | Deletion mutant verification |

| OE::tenR∆BbGT2/MT2 | TGGAAACGGCAGTCACAA | GAGACGCCATCGTTCACG | / | Deletion mutant verification |
| | CTGCAGCCCCGGGGGATCCCCCATTTGTCCCGTAA | ATCTTCTGTCGACGGATCTCAACCATTCTGCTTTT | BamHI | Gene deletion |
| | CGAGATCTAGTAAGACAACTCTTTGTCCTGCTG | GGCCCGCTCTAAGACTTACTATGCCTGCTG | SpeI | |
| | CTCGTCATCTAAACTCG | CATAGCCACGTCGTCAAA | / | Deletion mutant verification |

| Tubulin | GAGATTGTGATGCCTCCTACC | CCCCTAGCCCGTCGTCGTTTGAATG | / | RT-PCR reference |

| Metarhizium robertsi | GCTTGATATCGAAATTCCTGCGATCGCTCTAAAGAT | GGCGCCGTCGTCGTCGTTTGAATG | PST | Gene deletion |
| ΔMrMT1 | F | GTCACCGAGATCTGATCTTCCACTCCATAACCTAGCTAG | Deletion mutant verification |
| Dr | AAGGAACAAAAAGCTTGAGCAAGAAGGGTTTCACCTGCTCTTC | |
| F | TTCACGTAACCTGGCAAGC | / |
| R | ATCTCGCACTTCCCTTC | |

| Saccharomyces cerevisiae | F | TGACGACAAGCTCATATGTCTCCACGCAG | NdeI |
| R | TGTTGATGTCGGTTAAAACTCAATCCATACGCCG | PmeI |

| BbMT1 (Trp-) | F | TGACGACAAGCTCATATGGCTCTCGAAGAAAATTCAGC | NdeI |
| R | TGTTGATGTCGGTTAAAACTCAATCCATACGCCG | PmeI |

*, Uf and Ur represent the forward and reverse primers for amplification of the upstream (5'-flanking) region for each target gene; Df and Dr represent the forward and reverse primers for amplification of the downstream (3'-flanking) region for each target gene; **, RE, restriction enzymes.