Table S1. Primers for PCR genotyping and vector constructions.

| Primer | Sequence (5'-3' direction) |
|---|---|
| SAIL-LB | TTCATAACCAATCTCGATACAC |
| 1252-F | TCACCAGATCCGATCAAGATC |
| 1252-R | CCAGCCTCTTTTAGTTCCGTC |
| 382-F | ATTGGGTGATCTCGATCACAG |
| 382-R | CCACATCAATACATCATGATTCC |
| D247_2P-F | GTCAAGAAGTGGCTTTCGAC |
| D247_2P-R2 | GATTTGAAGATATAATTGG |
| CDS-F | ATGGTGGCTGTCTTCTACAAAGAC |
| CDS-R | GTCCCGCGGTATACCACAAG |
| licCDS-F | ACGATACTCGAGGGGGATCCATGGTGGCTGTCTTCTAC |
| licCDS-FLAG-R | ACGATCGGGGAAATTCGCTAGTGGATCTTCACTTGTCGTCATCGTCT TTGTAGTCGGATCCAGAAGGTGGCTTATAATA |
| 35S promoter-F | CGAATCTCAAGCAATCAAGC |
| NOS termi-R | AATCATCGCAAGACCGGCAAC |

Table S2. Primers for qRT-PCR of the DUF247 family clade II.

| Primer | Sequence (5'-3' direction) |
|---|---|
| 247-1-F | TGTGACGGAACTAAAAGAGGCTGGT |
| 247-1-R | GAATCGCTCCCTAGCCAATGTTCG |
| 247-2-F | CGCCATGAAAGAACTCGAAGACAGG |
| 247-2-R | GGTGCCGTTTACCAAGCTGTATCTC |
| 247-3-F | CGAGGTTATCGCGGAGTAGATGG |
| 247-3-R | CGTTCGTTGAATCGATATGGCACT |
| 247-4-F | CAGACGGTTGTCATGGTTCG |
| 247-4-R | CCAGCTATTTGTTGCGTCG |
| 247-5-F | CATGGAGCGTCACAAGTGG |
| 247-5-R | GAATCCTTCACTTGTTCCCTTG |
| 247-6-F | CTTGCTCAGCCTCAAGCTC |
| 247-6-R | GAGATCACCCAACTGTCTCC |
| 247-7-F | TCGAGCTCCTCCAAGGAGTCAATG |
| 247-7-R | AGGCGAGTTCTCGGTCAACGTC |
| 247-8-F | CAGCTACCATTTGGACCGAAG |
| 247-8-R | GCGTCTCTCATTACTTGCTCC |
| 247-9-F | CGATCAAGCACATAGAGACGAC |
| 247-9-R | GTAGGATTAGACTGGAGCAGAC |
| ACTIN-F | ACTCTCCCGCTATGTATGTC |
| ACTIN-R | GATGGAAGAGCTGGTCTTTG |
| UBQ10-F | TTTGTTAAGACTCTCACCGGAAAGACA |
| UBQ10-R | GAGGGTGGATTCCTTCTGGATATTGTA |