Table S1 Primers used in this study

|  |  |  |
| --- | --- | --- |
| Purpose | Name | Sequence (5’-3’) |
| Cloning of the gene for NRPS | | | |
|  | NRPS\_FH-F-Not I | TCGACAAGCTTGCGGCCGCCACGTGACTAGTATGGCCAGCGACATCAATACTCATCCAG |
|  | NRPS\_FH-R-Not I | ACTAGTCACGTGGCGGCCGCGGCGCGCCAAGATCGTCTTGCTGTACG |
|  | NRPS\_RH-IF1-Not I-F | GATGCGCTAGCGGCCGCGAAGTGGTCCTTGTCGCTGGTGAC |
|  | NRPS\_RH-IF1-R | TGCCGTTCGCATTCATAGGCATCTCGTC |
|  | NRPS\_RH-IF2-F | TGAATGCGAACGGCAAGGTTGACAG |
|  | NRPS\_RH-IF2-R | CTTGGTTGCTGGCTTCGTCGTTGTC |
|  | NRPS\_RH-IF3-F | AAGCCAGCAACCAAGTCGAAGATTG |
|  | NRPS\_RH-IF3-Not I-R | GTCACTAGTGCGGCCGCCTATTTTTGCAAGATCTTGTTCAAAC |
|  |  |  |
| Confirmation of reconstruction of the NRPS gene | | |
|  | PamyB-F | CGCTTACCGATTACGTTAGGGCTGA |
|  | NRPS\_setA-R | TGGAGATGTGCAATAGGCGTCTGTG |
|  | NRPS\_setB-F | TATTGCACATCTCCAGCTGACTGATG |
|  | NRPS\_setB-R | GTTTAAACGCGGCCGCCTCAGTCTCATTACGGGCACCAACACGT |
|  | NRPS\_setC-F | GTTTAAACGCGGCCGCGCAATCGATGCCTCTGCTGTTGGTAACG |
|  | NRPS\_setC-R | GTTTAAACGCGGCCGCACCTCAGCCAATTCAATGCGATGTCCTC |
|  | NRPS\_setD-F | GTTTAAACGCGGCCGCCTGCTTGAAGTTGAGCAGCCTCAATATC |
|  | NRPS\_setD-R | GTTTAAACGCGGCCGCGTTGAATACGCTCCGCAGCTGTTTCGA |
|  | NRPS\_setE-F | GTTTAAACGCGGCCGCAATGAAGCCACCAATCAAGTAGCTGGATG |
|  | NRPS\_FH-R-Not I | ACTAGTCACGTGGCGGCCGCGGCGCGCCAAGATCGTCTTGCTGTACG |
|  | NRPS\_setF-F | CAGACGGCTGGTCAGTCGATGTTCT |
|  | NRPS\_setF-R | CGATACGAGCAGATGGTACGTTGAC |
|  | NRPS\_setG-F | GAGGAAGAATTGCTCGTCGACCCAACCTTC |
|  | NRPS\_setG-R | GTTTAAACGCGGCCGCCTCACAGAGGAGAGCCTCTATCTCGTTG |
|  | NRPS\_setH-F | CATCTGCTCGTATCGAGGCGATCCT |
|  | NRPS\_setH-R | GTCACTAGTGCGGCCGCGAGGGCTTTGCTATCCAGAACGGTG |
|  | NRPS\_setI-F | GATGCGCTAGCGGCCGCCAGCTTGATTACTGGACGAAGAACC |
|  | NRPS\_setI-R | CTTGGTTGCTGGCTTCGTCGTTGTC |
|  | NRPS\_setJ-F | AAGCCAGCAACCAAGTCGAAGATTG |
|  | NRPS\_setJ-R | ATGCTGTTCGTTGTCGACAAGGTTC |
|  | NRPS\_setK-F | GACAACGAACAGCATCCCCTTCCAG |
|  | TglaA-R | GCCTGCAGGCCCGGGTCACTAGTGCG |
|  |  |  |
| Cloning of the seven cluster genes | | | |
|  | OMT-Not I-F | ATTTGCGGCCGCATGGACCCGAGACAGTCACGGATC |
|  | OMT-Not I-R | ATTTGCGGCCGCTTATGGTGTGGTGGGTTGCCATTC |
|  | TR02-Spe I-F | GGACTAGTATGACTGAACCCACATGGAA |
|  | TR02-Spe I-R | GGACTAGTTTAATAATCTACTTCAAGCAC |
|  | TR03-Not I-F | ATAAGAATGCGGCCGCATGGCGTTGCAAGAGCG |
|  | TR03-Not I-R | ATAAGAATGCGGCCGCTCAAGATGGGAAAGCCGCTG |
|  | TR06-Nhe I-F | CTAGCTAGCATGAGTGCTATCGAGCTGC |
|  | TR06-Nhe I-R | CTAGCTAGCTCAGCGATTGAGGGCCTGG |
|  | TR07-Not I-F | ATAAGAATGCGGCCGCATGAAGCTCACCGTTTTCAG |
|  | TR07-Not I-R | ATAAGAATGCGGCCGCTCAGAGCCGCGCCAAC |
|  | TR08-Spe I-F | GGACTAGTATGACGAAAAGGGAAAGCAAC |
|  | TR08-Spe I-R | GGACTAGTCTACGCGTTTTCTTTCGAC |
|  | TR09-Nhe I-F | CTAGCTAGCATGGAGAGCGAAGACAATCC |
|  | TR09-Nhe I-R | CTAGCTAGCTCAGCAGTATCCCATCGG |
|  |  |  |
| Confirmation of copy numbers of the introduced genes | | |
|  | kexB-RT-F | GCGACATCAGTGTGGAGTTG |
|  | kexB-RT-R | GACCGTCCACTTTCCAACAC |
|  | NRPS-RT2-F | GACCGTTACAGCGAGTTCAG |
|  | NRPS-RT2-R | CTGAATTCCTCGCACAGAAC |
|  | OMT-RT-F | ACGTTCAAGACCTTCCAG |
|  | OMT-RT-R | GTTCCGGATGATTTGCAG |
|  | TR02-RT-F | GCCCTACTAGATCTGACCAC |
|  | TR02-RT-R | GCTGTTACCTTTTCCTCCTC |
|  | TR03-RT-F | CATCGCTGCAGACTTAGATG |
|  | TR03-RT-R | GCATTCGTCCCACAGCATAC |
|  | TR06-RT-F | ACGTCCAGGAAGCTATCGAG |
|  | TR06-RT-R | ATTGAGGGCCTGGGCTTGAC |
|  | TR07-RT-F | GTGATGAAGGCGCTGAAGAG |
|  | TR07-RT-R | CTCCGCAATTTCCGTGAGTG |
|  | TR08-RT-F | TGACTCTATGGTGGATGGTG |
|  | TR08-RT-R | CCTTGTTCAAGTGCCAGTAG |
|  | TR09-RT-F | GATTCCGTCACGAGACACTG |
|  | TR09-RT-R | AGTATCCCATCGGGCAACAG |
|  |  |  |
| Quantitative RT-PCR | | |
|  | Histone H4-RT-F | CAAGCGTATCTCTGCCATGA |
|  | Histone H4-RT-R | CACCGAAACCGTAGAGGGTA |
|  | NRPS-RT1-F | GACGCCACGAACGCATAGAC |
|  | NRPS-RT1-R | TTCCCAGAGAGGTAGATCGAC |
|  | NRPS-RT2-F | GACCGTTACAGCGAGTTCAG |
|  | NRPS-RT2-R | CTGAATTCCTCGCACAGAAC |
|  | NRPS-RT3-F | GAAGTTGAGAACGCCATGCT |
|  | NRPS-RT3-R | GATGCGAGATGGGAGCATGT |
|  | OMT-RT-F | ACGTTCAAGACCTTCCAG |
|  | OMT-RT-R | GTTCCGGATGATTTGCAG |
|  | TR02-RT-F | GCCCTACTAGATCTGACCAC |
|  | TR02-RT-R | GCTGTTACCTTTTCCTCCTC |
|  | TR03-RT-F | CATCGCTGCAGACTTAGATG |
|  | TR03-RT-R | GCATTCGTCCCACAGCATAC |
|  | TR06-RT-F | ACGTCCAGGAAGCTATCGAG |
|  | TR06-RT-R | ATTGAGGGCCTGGGCTTGAC |
|  | TR07-RT-F | GTGATGAAGGCGCTGAAGAG |
|  | TR07-RT-R | CTCCGCAATTTCCGTGAGTG |
|  | TR08-RT-F | TGACTCTATGGTGGATGGTG |
|  | TR08-RT-R | CCTTGTTCAAGTGCCAGTAG |
|  | TR09-RT-F | GATTCCGTCACGAGACACTG |
|  | TR09-RT-R | AGTATCCCATCGGGCAACAG |
|  |  |  |