**Supporting Information Table S1.** Oligonucleotideprimers used in this study

|  |  |  |
| --- | --- | --- |
| **Purpose** | **Primer** | **Sequence (5'-3')a** |
|  |  |  |
| Degenerate primers for amplification *luxS*  | luxS-fw | Cccggytacacatcgactgctc |
|  | luxS-rev | Gtggtcgcgrtagttgccgc |
|  |  |  |
| Insertional mutation in Bbr\_0541 (*luxS*) | luxS-277-f-hindIII | tgcgga**aagctt**gatcacaccaaggtcaag |
|  | luxS-277-r-xbaI | ctatgc**tctaga**gagtgcgtgccccaggtc |
| Cloning of *luxS* in pBC1 | luxS-compl-f-xbaI | ctatgc**tctaga**cattgcctatagcgaatc |
|  | luxS-compl-r-xbaI | ctatgc**tctaga**gcaatcaccagtacaggaac |
| Amplification of TetR gene  | tetWf | tcagctgtcgacatgctcatgtacggtaaggaagca |
|  | tetWr | gcgacggtcgaccataacttctgattgttgccg |
| Insertional mutation in Bbr\_0221(*bfeU*) | 221IMhd3  | ctgcgc**aagctt**gaatgacgcctactaccagcac |
|  | 221IMxba  | ttgacg**tctaga**caccgaacgcgaccatgaag  |
| Insertional mutation in Bbr\_0223(*bfeB*) | 223IMhd3  | ctgcgc**aagctt**catcgacatcgcgctcaccctgttc |
|  | 223IMxba  | ttgacg**tctaga**gaatgccttgtgtttgcgtc |
| Confirmation of site specific homologous recombination | pORI19R | Attgtgagcggataacaatttcac |
| luxS-fw | Tacgtgcgttacattgac |
| Bbr\_0221 -fw | cgatgcttccgattctg |
| Bbr\_0223 -fw | cacaaggccatcatgcacatc |
| qRT-PCR primers | Bbr\_0997-fw | caagccgttcgctcgcttcc |
|  | Bbr\_0997-rev | ggaggcgaagcggtcttggt |
|  | Bbr\_1478-fw | tggcatcggagaatgccgagg |
|  | Bbr\_1478-rev | acccgcaggtgtcgcctatg |
|  | Bbr\_1479-fw | tcggtagcgtcgcccttgtc |
|  | Bbr\_1479-rev | tcgagctggccgtttccgag |
|  | Bbr\_1377-fw | tcggttccgcactcggctac |
|  | Bbr\_1377-rev | cggtctgaatcggctcgcca |
|  | Bbr\_1898-fw | catcggcggtgttggtcagc |
|  | Bbr\_1898-rev | ggcgacaacccgtacaagcg |
|  | Bbr\_1589-fw | aacgccagtgcggcgatgat |
|  | Bbr\_1589-rev | gggcgttcatggcaccgttc |
|  | Bbr\_1291-fw | aggtggacgtatccgccgtc |
|  | Bbr\_1291-rev | ggaaatcgcggacaccgtgg |
|  | Bbr\_0563-fw | gcgatgctgcggatagcacc |
|  | Bbr\_0563-rev | gcgttcaccggctcgatcac |
|  | Bbr\_1042-fw | gcactcagcgccggaatagc |
|  | Bbr\_1042-rev | tggcgttcctatggtgccgt |
|  | Bbr\_0788-fw | gtgccgggactgaccgactc |
|  | Bbr\_0788-rev | gttcgcgagtagcggcgttg |
|  | Bbr\_0541-fw | gatcacaccaaggtcaag |
|  | Bbr\_0541-rev | gagtgcgtgccccaggtc |
|  | Bbr\_1381-fw | ttgcacgaagctgttgacgtattcc |
|  | Bbr\_1381-rev | aagctgaggaccagtccgacg |
|  | Bbr\_1828-fw | cgcttatcccgctcggcaaac |
|  | Bbr\_1828-rev | gggctggattacgcgcgac |
|  | Bbr\_0133-fw | gcgtgccctattgccgatgc |
|  | Bbr\_0133-rev | gctgcaacgatgccacctcg |
|  | Bbr\_0221-fw | cgattggcttggcttctacc |
|  | Bbr\_0221-rev | gaatccgactacgaacagcg |
|  | Bbr\_0222-fw | ctccatggctgtttcgatgg |
|  | Bbr\_0222-rev | ctgaatcgtccttcttggcg |
|  | Bbr\_0223-fw | tgcttgaacaattcgtggca |
|  | Bbr\_0223-rev | tagttgacgaatgtgcgctg |
|  | Bbr\_0224-fw | agaacctgaagctctccacc |
|  | Bbr\_0224-rev | ctcgtcaccggaatcgtaga |
|  | Bbr\_0225-fw | cagtcgtcctcaagccaaac |
|  | Bbr\_0225-rev | gatgatcgaatcctcgctgc |
|  | Bbr\_0226-fw | gctgtggaaaacgtgatggt |
|  | Bbr\_0226-rev | cagaccaactttctccagcg |
| qRT-PCR control primer pairs | atpD-fw | cgtatgccttccgccgtgggttac |
|  | atpD-rev | acgtagatggcttgcagcgaggtg |
|  | rpoB-fw | cacgatggtgctgcgaccttccc |
|  | rpoB-rev | gacctgacggatacgacggttgcc |
|  | ldh-FW | gtgatgggcgagcatggcgactc |
|  | ldh-rev | ggaggcgaagcggtcttggttggtc |
|  | pdxS-fw | gatcaagggcattcaggaag |
|  | pdxS-rev | cgaactggttcttgtcgatc |
|  | gluC-fw | cttcgccacgaacttcttct |
|  | gluC-rev | gttcttgagcagtgcgatca |

a Restriction sites incorporated into oligonucleotide primer sequences are indicated in bold.