

Table S3. Oligonucleotides used in this study (5'-3')

| Gene | F/R | sequence |
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| Primers for gene mutation | | |
| <i>uvrY</i> | F | CCCTATTTCTGGAGATATTCCT GTAGGCTGGAGCTGCTTCG |
| <i>uvrY</i> | R | GCTTTTGCGTCAAAC TGATCACCATATGAATATCCTCCTTAG |
| <i>barA</i> | F | CAATTTAACAGTGTGACCTTAATTGTCCCATAACGGAAC TCCG TGTAGGCTGGAGCTGCTTCG |
| <i>barA</i> | R | ACAGCGTCATAAAAAGCCGATTGCTACTCGACAAGACGTCCG CATATGAATATCCTCCTTAG |
| <i>ler</i> | F | TCATTTGATTAATTGTTGGTCCTTCCTGATAAGGTCGCTAATAG CTTAAAATATTAAAGCGTG TAGGCTGGAGCTGCTTCG |
| <i>ler</i> | R | CTTTATTTTTTATTATTT CATCTTCCAGCTCAGTTATCGTTATCA TTTAATTATTT CATGCATATGAATATCCTCCTTAG |
| Primers for identifying the gene mutants | | |
| <i>uvrY</i> | F | TTCGTCGCAGGGCTTACTGTGAAA |
| <i>uvrY</i> | R | TACATCAATTTGCTGGATCTGGGC |
| <i>barA</i> | F | TGCTTCGCTGCTGTAAATCC |
| <i>barA</i> | R | TGCTATTGATACGCACTGGA |
| <i>ler</i> | F | GTGCTGGCTGTAGCTTATGTCC |
| <i>ler</i> | R | GGCTCACAATACTCATCCTCTA |
| Primers for pTRC99a- <i>uvrY</i> | | |
| <i>uvrY</i> | F | CCGGAATTCGCCCCGATTGTTTCGGGTTAATT |
| <i>uvrY</i> | R | CGCGGATCCTCACTGACTTGATAATGTCTCCGC |
| Primers for <i>uvrY</i> -3×FLAG | | |
| <i>uvrY</i> | F | CCGGAATTCTTGATCAACGTTCTACTTGTTGAT |
| <i>uvrY</i> | R | CGCGGATCCTTACTATTTATCGTCGTCATCTTTGTAGTCGATAT CATGATCTTTATAATCACCGTCATGGTCTTTGTAGTCCTGACTT GATAATGTCTCCGC |
| Primers for pET28a- <i>uvrY</i> | | |
| <i>uvrY</i> | F | GGAATTCATATGTTGATCAACGTTCTACTTGTTGAT |
| <i>uvrY</i> | R | CCGCTCGAGTCACTGACTTGATAATGTCTCCGC |
| Primers for plasmid identifying | | |
| pKD46 | F | TGAAATGCCCGTTTACCT |

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|----------------------------|---|-----------------------------|
| pKD46 | R | GCCCCGACTGATACGTTGA |
| pTrc99a | F | TGGCTGTGCAGGTCGTAAATC |
| pTrc99a | R | CCACACTACCATCGGCGCTA |
| pET28a | F | TAATACGACTCACTATAGGG |
| pET28a | R | GCTAGTTATTGCTCAGCGG |
| Primers for WT identifying | | |
| <i>wzx</i> | F | CTTGGTGCTGCTCTGACATT |
| <i>wzx</i> | R | AATCGTAAGAGGGACCGTAGA |
| <i>fliC</i> | F | TCACAGTTGGCGGCGTAG |
| <i>fliC</i> | R | CATCAGCATGAAGGGTGGC |
| Primers for CHIP-qPCR | | |
| P _{LEE1} | F | GCTTGGTTTTTATTCTGTTTTATTGT |
| P _{LEE1} | R | ACATCTATTTTCATCAAACAACCACC |
| P _{LEE2/3} | F | ATTTCCCAATAATCTTAAAACTCTTC |
| P _{LEE2/3} | R | AATCACTCCTGTCTTCTCATCCAC |
| P _{LEE4} | F | CCGATTACGCATCGCACC |
| P _{LEE4} | R | CATTAGCCATTGGAACTCACG |
| P _{LEE5} | F | ATGTTTCAGCCGTTTATCGACTAC |
| P _{LEE5} | R | GGGATTATGACCAAGATTACCAA |
| P _{csrC} | F | ATGTTTCAGCCGTTTATCGACTAC |
| P _{csrC} | R | GGGATTATGACCAAGATTACCAA |
| <i>rpoS</i> | F | GTTATCGCAGGGAGCCACA |
| <i>rpoS</i> | R | TTTTACCACCAGACGCAAGTTA |
| Primers for EMSA | | |
| P _{LEE1} | F | CGCTTACCCCAATCACTTAC |
| P _{LEE1} | R | TCATAATAAATAATCTCCGC |
| P _{LEE2/3} | F | CATTACTGCACCAGAAGGAC |
| P _{LEE2/3} | R | AGATTCATCTGCAGGCTCTG |
| P _{LEE4} | F | CGCATCGCACCATTGAGAAG |
| P _{LEE4} | R | CATTAGCCATTGGAACTCACG |
| P _{LEE5} | F | TAGTTTGCTTAATTGGTTTTCTTTGGC |
| P _{LEE5} | R | ACCAATAGGCATAAATATCTC |
| <i>rpoS</i> | F | GTTATCGCAGGGAGCCACA |
| <i>rpoS</i> | R | TTTTACCACCAGACGCAAGTTA |

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|---|---|---------------------------|
| <i>P_{csrC}</i> | F | AAGCGGTCGTCTCCGTCAGTCAAA |
| <i>P_{csrC}</i> | R | GGGTGCTACTTTACGCCTTTGCTT |
| Primers for qRT-PCR | | |
| <i>rrsH</i> | F | GAAAGCGTGGGGAGCAAAC |
| <i>rrsH</i> | R | ACATGCTCCACCGCTTGTG |
| <i>eae</i> | F | GACGGTAGTTCCTGACTTCTT |
| <i>eae</i> | R | TCGCCACCAATACCTAAACG |
| <i>tir</i> | F | AAAGCAGCAGGCGAAGAGG |
| <i>tir</i> | R | TCGGCACCTGCGAATCAT |
| <i>ler</i> | F | CAGGAAGCAAAGCGACTG |
| <i>ler</i> | R | ACCAGGTCTGCCCTTCTT |
| <i>escC</i> | F | GCAATAGATGCGGCTGGAC |
| <i>escC</i> | R | TCGGCTTGTAATGGTAATATCTCG |
| <i>escN</i> | F | AGGTTTTCTTGTTGCCTTTTGA |
| <i>escN</i> | R | TCTCCATTGGTCTGCCTATGC |
| <i>espB</i> | F | AAAACCTCTCGGCAAGATGG |
| <i>espB</i> | R | AATAATCCCGCCAACCAAAG |
| <i>escT</i> | F | GCAATAGATGCGGCTGGAC |
| <i>escT</i> | R | TCGGCTTGTAATGGTAATATCTCG |
| Primers for verification of the RNA-seq results | | |
| <i>ytfl</i> | F | GTCGGGCAACTACGAAACCATC |
| <i>ytfl</i> | R | GCTTTCTTCTTTATCTTTAGCGTCA |
| <i>bssS</i> | F | CAGACTCATCCGCTCGTAGGGT |
| <i>bssS</i> | R | TTTGGCGATTCTGCTTCTAAT |
| <i>nirC</i> | F | TACGAGCACTCCATCGCTAACAT |
| <i>nirC</i> | R | CTTTCGGCGTAGCATACCAATAAC |
| <i>adiY</i> | F | ATTATTATTCACGGTGCTATCC |
| <i>adiY</i> | R | TTTCTTTAACAGACTTGGGCTA |
| <i>ybaA</i> | F | AGCGATGTACCGGATGGCAAAG |
| <i>ybaA</i> | R | GGCATGGACTCGCCGAACCTT |
| <i>bioC</i> | F | ACGGCACTCCGCGAGCTGTATC |
| <i>bioC</i> | R | TGGCACTGAGCGCATCATCAAA |
| <i>malF</i> | F | GTCTGGACCGTGGTGTCTCGC |
| <i>malF</i> | R | AAGCTCTGGTTAAACAACCCCTTG |

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|-------------|---|---------------------------|
| <i>purD</i> | F | GATCGACAAACAGGGCAATCCG |
| <i>purD</i> | R | ATCCACCCGCAGCCATCACCAC |
| <i>cyoB</i> | F | CACCGCTATCGGGAATAGAGTAC |
| <i>cyoB</i> | R | GCACAGTGATGCCCAGGTAAAT |
| <i>sdhB</i> | F | AGGATTACACCCTGGAAGCGGAAGA |
| <i>sdhB</i> | R | GTAAACCTGGCAGCGGGCGAAT |