

**Table S3. Oligonucleotides primers used in this study.**

Name	Sequence (5' to 3')
<b>For mutant construction</b>	
F1ΔrsmA	CACCTGAATTCGACTGCGCTTTGACTTCTCG
R1ΔrsmA	CGGCGAAGCTTGAGGATCAACATTTGCAAATC
F2ΔrsmA	ATCACGGCGACGATTCTTCGAAAGCTTTGATCG
R2ΔrsmA	GGTTTTGGAATTCCTTGATCCTTACTCCTTGATGGTC
<b>For Complementation</b>	
F-rsmAc	CACCTGAATTCGACTGCGCTTTGACTTCTCG
R-rsmAc	CTAACGTAAACCCTTGAATTC AACGATCAATTGGAAG
F1-rsmAflag	CTGGATCCCTTGTCGCTGGCGTGAACG
R1-rsmAflag	CTTGTAATCATTGGAAGAATCGTCCGCGTG
R2-rsmAflag	GAACTCGAGTCACTTGTGCATCATCCTTGTAATCATT
F-hrpG	CAGGATCCGCGATGCCCGATGACTGTACG
R-hrpG	TATAAGCTTCGAGATCGGCAGCGGTG
Fwconst-hrpG	ATAGGTACCATGCGTGGCTTGTACGCCGAC
R1-hrpG6His	GATGGTGATGGCAGGCGGCTGCCGTGATGTGC
R2-hrpG6His	CCCTCGAGTCAGTGATGGTGATGGTGATGGCAGG
F-hrcQ	CTTAGGTACCGAGTTCTGCAACGCCACGCCAGTG
R1-hrpQFlag	GTAATCGGCATCTGCATGCGTGCTCTCCGACAT
R2-hrpQFlag	GTACTCCGAGTTACTTATCGTGCATCCTTGTAATCGGCATC
<b>For 5' RACE</b>	
hrpGSP1	GTCTGCGCAATCGAAACGTCCAAG
hrpGSP2	GAAGATCAGCAGCTCGCACGGC
hrpGSP3	GCTGGCGTTGACCTGCGAGACC
hrpXSP1	CTGGCACCGAACAACTGACCTCATC
hrpXSP2	CGCGTCGCTGTTGGAGATGTTGC
hrpXSP3	GGCCAAGCACCAACCAGCATCC
hrpBSP1	CGTGTCCAGCGCCTTCAGCTCTGGCCG
hrpBSP2	AGTACTCGGACTGCGGCCAGGACC
hrpCSP1	TGGTCGGAGAAGTAGTCGCCGCGCCG
hrpCSP2	CATGACCATTAGCGCGCCAAAGAGC
hrpDSP1	GTTCAAGTAGCAGCGCCAGGCCGTCG
hrpDSP2	CGGTGTCCAACCTGCAGGCGCAGGC
hrpESP1	GCTAGCATGGCACCCACCGCAGTAC
hrpESP2	GCAAGACTTTGCGCCTGGACGTGC
hrpFSP1	GACGGCAGATCGGAGTCATCCTTGGA
hrpFSP2	GAATCCGACCCCAACAGCTCCGAC
<b>For translational and transcriptional fusions</b>	
gusA-Fw	ATGTTACGTCCTGTAGAAACCCCAACCCGTG
gusA-R	GTAAGCTTCATTGTTTGCCTCCCTGCTGCG
hrpG-Fw	CTTGGTACCTCACTCTGTCAAACATCCATGTGATG
hrpG-R	GGGTTTCTACAGGACGTAACATGGGAGAGTGGTCGTTTATTAGG
hrpX-Fw	GTAATGGTACCGTCCGCGAGGTCTAGACCAACC
hrpX-R	GTTGGGGTTTCTACAGGACGTAACCAAGCACCAACCAGCATCCTG C
hrpA-Fw	GATTGGTACCTGGTGGATCTAGCGATCGGCCTGG
hrpA-R	GTTGGGGTTTCTACAGGACGTAACATCAGGACGGCCCAATGGA G
hrpB-Fw	GATTGGTACCGACATTGCCCTCTCCTTCCGCG
hrpB-R	GTTGGGGTTTCTACAGGACGTAACAGTACTCGGACTGCGGCCAGG AC
hrpC-Fw	GTATGGTACCTGAATCTTGTCATGGGTGAGTCCGACC
hrpC-R	GTTGGGGTTTCTACAGGACGTAACATTAGCGCGCCAAAGAGCAC
hrpD-Fw	CTTAGGTACCGAGTTCTGCAACGCCACGCCAGTG
hrpD-R	GTTGGGGTTTCTACAGGACGTAAGATGCGACGGCGATGCGTGGCC AAG
hrpE-Fw	GTCGAATTCGAGCTGATGCCGTGAGAGTTGG
hrpE-R	GTTGGGGTTTCTACAGGACGTAAGGCATCGAACATAGTGGACTCT C
hrpG5UTR-F	CGGGTCCCGCAATGGTACATACC
hrpB5UTR-F	TGCTTCCGAAAGGATCCGGCC
hrpC5UTR-F	CTGTCAAGCGGATCGTTCCACCACAGCT
hrpD5UR-F	GAAGGCTGCGTCTGGAGGCTGCACT
hrpE5UTR-F	AGGTCGTTACACCCTGGGGAGCGAT
<b>For expression of rsmA in pET28a and pBRA</b>	
F-pETrsmA	GAGATTTGCAAACATATGTTGATCCTCACTCGCCG
R-pETrsmA	CTAACGTAAACCCTTGAATTC AACGATCAATTGGAAG

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**For site-direct mutagenesis**

hrpGD41N-F AATGTCTCGACGTTTTCTAATGAACTGGAGCTTTTGCCTACGCTGC  
GGC  
hrpGD41N-R GCCGCAGCGTACGCAAAAGCTCCAGTTCATTAGAAAACGTCGAGA  
CATT  
hrpGE44K-F ACGTTTTCCGATGAACTGAAGCTTTTGCCTACGCT  
hrpGE44K-R AGCGTACGCAAAAGCTTCAGTTCATCGGAAAACGT  
hrpGD60N-F CTGATCTCAATGCCAGCTATGTCGCCGCCGATGACAGTT  
hrpGD60N-R CTGGCATTGAAGATCAGCAGCTCGCACGGCGAATG  
hrpGBS1-TTA-F TCGTCCAGCTCCGCTTACTCTCCCCGCCAAC  
hrpGBS1-TTA-R GTTGGCGGGGAGAGTAAAGCGGAGCTGGACGA  
hrpGBS2-TTA-F GATGCAGCGATCTTTGAAGATTTATTTGTCCTGGCATTGG  
hrpGBS2-TTA-R CCAATGCCAGGACAAAATAAATCTTCAAAGATCGCTGCATC  
hrpGΔBS2-F AGCGATAAGCTTCATTGGCCGACCAGCACCG  
hrpGΔBS2-R AAGCTTATCGCTGCATCGTCGGACCAGTCCG

**For in vitro transcription**

hrpG5UTR-F CGGGTCCCCGCAATGGTACATACC  
hrpG5UTR-R CGTTGGGGGGAGAGTGGTCGTCAT  
hrpD5UTR-F GAAGGCTGCGTCTGGAGGCTGCACT  
hrpD5UTR-R ACCCTGCTCAGCTGTGCGCGCTC  
hrpE5UTR-F AGGTCGTTACACCCTGGGGAGCGAT  
hrpE5UTR-R TGCAGAAAGCGCTAGCATGGCACC  
hrpG5UTR-T7-F TAATACGACTCACTATAGGGGTCCCAGCAATGGTACATAC  
hrpG5UTR-T7-R GGAGAGTGGTCGTCATTTAGCGCGCCTTCG  
hrpD5UTR-T7-F TAATACGACTCACTATAGGGAAGGCTGCGCTGGAGGCTG  
hrpD5UTR-T7-R TGATACCCTGCTCAGCTGTGCGCGCTCGG  
hrpG5UTR-R-81 AAGCTTATCGCTGCATCGTCGGACCAGTCCG  
hrpG5UTR-T7-F-54 TAATACGACTCACTATAGGGCAACCGACTGGTCCGACGATG

**For qRT-PCR**

hrpE<sub>XAC0397</sub>-F TCGTTGATCAGTGACATGAACGCC  
hrpE<sub>XAC0397</sub>-R GATGAACTTGTTTCAGCGCCACGTT  
hrpD6<sub>XAC0398</sub>-F TCGATGCCATGACCGATACG  
hrpD6<sub>XAC0398</sub>-R TTGAAGTCGTTGCGTGAGGT  
hrpD5<sub>XAC0399</sub>-F GTCCGTTACAACGGCAATGG  
hrpD5<sub>XAC0399</sub>-R TTCGACATAATGCAGGCCCGT  
hrcS<sub>XAC0401</sub>-F CCACGACGATCTAGTGGAT  
hrcS<sub>XAC0401</sub>-R ACATCACCCTGGATGAAG  
hrcQ<sub>XAC0403</sub>-F CAGCAGGATAACGTTTGAGCC  
hrcQ<sub>XAC0403</sub>-R TTCGCCACTGTCACTAACC  
hrcU<sub>XAC0406</sub>-F TGATCATTGGCCTTGCCCTACCAGA  
hrcU<sub>XAC0406</sub>-R TTGCTATTGCTTTGTCGCGGATG  
hrpB1<sub>XAC0407</sub>-F ACCCATGACAAGATTCAGGACCGCT  
hrpB1<sub>XAC0407</sub>-R CTTCCACGTAATTACCGCGCTTGA  
hrpB2<sub>XAC0408</sub>-F CCGGCACCAGTATTACCTCC  
hrpB2<sub>XAC0408</sub>-R ATCGATATGCTCGGCGATGG  
hrcC<sub>XAC0415</sub>-F ATACGTGCGGACAACAAGGATCT  
hrcC<sub>XAC0415</sub>-R CGGAGATGTTTGAATTTGCCGCT  
hpa1<sub>XAC0416</sub>-F ATTCTTTGAACACACAGCTCGGCG  
hpa1<sub>XAC0416</sub>-R TCGGCATTGTTGCTCTGCTGAA  
hpa2<sub>XAC0417</sub>-F ACAACAACGGCACGGTTGATTACG  
hpa2<sub>XAC0417</sub>-R ACTGCAGCCCAGGTATTTCCGTAT  
hrpG<sub>XAC1265</sub>-F ATCGTGCTTGGACGTTTTCGATTGC  
hrpG<sub>XAC1265</sub>-R ATTGAAAGGCAGCGCAAGGACTTC  
hrpX<sub>XAC1266</sub>-F AGCGATCTCTGCGTTGTCTAC  
hrpX<sub>XAC1266</sub>-R ATACGCATCTTCGGCCTCTTCTCTGA  
16S-F CGCTTTCGTGCCTCAGTGTCAAGTGTGG  
16S-R GGCGTAAAGCGTGCCTAGGTGGTGGTT

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Restriction enzyme sites used in this study are underline in the primer sequences.