

S4 Table. Primers used in this study.

Primer	Sequence (5'→3') ^a	Application
pEX- <i>clpV1</i> -up-S	ATAgaattcGACCGGGTCAACGAGCATCA	Constructing <i>clpV1</i> deletion mutant
pEX- <i>clpV1</i> -up-A	GACTctagaCTTGCAGAATACCGTGGCGG	
pEX- <i>clpV1</i> -down-S	TATtctagaCCTCACCCGCATGCTCGAAG	Constructing <i>clpV2</i> deletion mutant
pEX- <i>clpV1</i> -down-A	TATAagcttGAATTGAGGTTCGAGGCGGCC	
pEX- <i>clpV2</i> -up-S	TACggatccCATCCAGCGCCTGCACCCGA	
pEX- <i>clpV2</i> -up-A	CGTtctagaTTCGAGGTCGCGCCGGGTGT	
pEX- <i>clpV2</i> -down-S	TATtctagaTTTGCTGGAAGCGATGGCGC	Constructing <i>clpV3</i> deletion mutant
pEX- <i>clpV2</i> -down-A	TATAagcttGCGATCGGGAATCGCCCAAT	
pEX- <i>clpV3</i> -up-S	TTAgaattcCATTTGCAGGCGGAAGACTT	
pEX- <i>clpV3</i> -up-A	TCCtctagaTAATGATGGGTGCGTTGCAG	
pEX- <i>clpV3</i> -down-S	TATtctagaGCCGTGCTCGCCAAGTGCAG	Constructing <i>retS</i> deletion mutant
pEX- <i>clpV3</i> -down-A	AATAagcttCGTCGTCATGCCCGCTGAGG	
pEX- <i>retS</i> -up-S	TTAggtaccGGGCTGGGACTTCAAGCGGG	
pEX- <i>retS</i> -up-A	GGCtctagaGATCCGAAGCCGTACCACGG	
pEX- <i>retS</i> -down-S	TATtctagaGGCGACGCCCTGCCCTCCTG	Constructing <i>hcp2</i> deletion mutant
pEX- <i>retS</i> -down-A	TATAagcttCGCCGCCGTCCTCGCTCATC	
pEX- <i>hcp2</i> -up-S	TATggatccCCTGGTGCTCCCCGGCGTAG	
pEX- <i>hcp2</i> -up-A	CGCtctagaCCTCCGGCTCCGACGACTGG	
pEX- <i>hcp2</i> -down-S	ATAtctagaCTTGGTGCCGGTGATGGACA	Constructing <i>tssM2</i> deletion mutant
pEX- <i>hcp2</i> -down-A	TATAagcttCATCCGGTGCTGACGATCGA	
pEX- <i>tssM2</i> -up-S	TTAcccgggCAATACCTCGAACGTGCC	
pEX- <i>tssM2</i> -up-A	GCCtctagaCATTTTCGCGTCCCTGTGT	
pEX- <i>tssM2</i> -down-S	GCCtctagaCTCTGATGCAACGCACCG	Constructing <i>vgrG2a</i> deletion mutant
pEX- <i>tssM2</i> -down-A	ATTAagcttACGGTGCCAGCGGCGCAC	
pEX- <i>vgrG2a</i> -up-S	TATgaattcGATCAACCCTGGCTGCCAGT	
pEX- <i>vgrG2a</i> -up-A	CAGtctagaGCGACACGGAGTCCAACACA	
pEX- <i>vgrG2a</i> -down-S	TAAtctagaGAGTTTCCCTTCGCCGACGA	Constructing <i>vgrG2b</i> deletion mutant
pEX- <i>vgrG2a</i> -down-A	TATAagcttCGGCAACGTGTTTCAGGGTGA	
pEX- <i>vgrG2b</i> -up-S	ATAggatccGTGACGGCTCCGTCGAAATC	
pEX- <i>vgrG2b</i> -up-A	TCGtctagaAGCAGGTTTCGCTGGCGTACT	
pEX- <i>vgrG2b</i> -down-S	TCAtctagaGAGTTTCCCTTCGCCGACGA	Constructing <i>cueR</i> deletion mutant
pEX- <i>vgrG2b</i> -down-A	TCTAagcttTCTCATGGGTGCATGGTGGG	
pEX- <i>cueR</i> -up-S	TTAgaattcGCTCACCCCGGTGCTGCT	
pEX- <i>cueR</i> -up-A	CCCTctagaCGCTTCACCGATGTTTCAT	
pEX- <i>cueR</i> -down-S	ATGtctagaGCGTCTGGCTGCTGCCAC	Constructing <i>oprC</i> deletion mutant
pEX- <i>cueR</i> -down-A	ATTAagcttCGCTTTCCTGATCCGCCAGA	
pEX- <i>oprC</i> -up-S	TATgaattcGAGAAGTGAGCAACGCGGCG	
pEX- <i>oprC</i> -up-A	CGAtctagaCTGAACCTTCAACGAGGCC	
pEX- <i>oprC</i> -down-S	TAAtctagaCATGATCTATGTGACTTCCGCC	Constructing <i>auz</i> deletion mutant
pEX- <i>oprC</i> -down-A	TATctgacgCGATGTCGGAGAAGTCCAGTTG	
pEX- <i>auz</i> -up-S	ACTgaattcCCTAACGGGAGCCCGAACAT	
pEX- <i>auz</i> -up-A	CTGtctagaACCCTGAAGTGATGCGCGAG	

pEX- <i>auz</i> -down-S	GTGtctagaCGTAGCATGGAGCAGCCTCCT	
pEX- <i>auz</i> -down-A	CAGaagcttAGCCGCCGGTGGACG	
pET- <i>oprC</i> -S	TATggatccATGGAAAACGTATGTCTACTCA	Protein cloning
pET- <i>oprC</i> -A	TATctcgagTCAGAAGCTGAAGTCGACCTTGG	
pGEX6p-1- <i>auz</i> -S	GTAggatccATGCTACGTAAACTCGCTGCG	Protein cloning
pGEX6p-1- <i>auz</i> -A	GATctcgagTCACTTCAGGGTCAGGGTGCC	
pGEX6p-1- <i>cueR</i> -S	ATAggatccATGAACATCGGTGAAGCGG	Protein cloning
pGEX6p-1- <i>cueR</i> -A	ATAgtcgacTCAGTGGCAGCAGCCAGAC	
pAK- <i>clpV2</i> -S	TATtctagaGGGGTATGTGGGGATGCTGGAT	Constructing <i>clpV2</i>
pAK- <i>clpV2</i> -overlap-A	TACGTTGATCATGCTCATCCTAACCCTTCA	complemented
pAK- <i>clpV2</i> -overlap-S	CATTGAAGGGTTAGGATGAGCATGATCAA	plasmid
pAK- <i>clpV2</i> -A	CATAagcttTGCGGTACGCGGCTGAACAT	
pAK- <i>hcp2</i> -S	TTAtctagaTGTACGACCGGTGTGCCTGT	Constructing <i>hcp2</i>
pAK- <i>hcp2</i> -A	ACTaagcttACCTGATCGGCAGCTGGATC	complemented plasmid
pAK- <i>tssM2</i> -S	TTAtctagaATGCCTGGATGGCAGCGG	Constructing <i>tssM2</i>
pAK- <i>tssM2</i> -overlap-A	GAAGAAGTTTTTCATCGAGTGGCTGAGTTC	complemented
pAK- <i>tssM2</i> -overlap-S	GAAGAAAGTCGGCG	plasmid
pAK- <i>tssM2</i> -A	ATCaagcttAGGGCTCGGTGCGTTGCATCAGA	
pAK- <i>cueR</i> -S	TAAggatccGATCGTCAAGCGCATCGTCG	Constructing <i>cueR</i>
pAK- <i>cueR</i> -A	TCAaagcttCTGGCCGCTGCTGGATATCA	complemented plasmid
pAK- <i>auz</i> -S	ATAtctagaGATCGACTCCTGTCTGGGGG	Constructing <i>auz</i>
pAK- <i>auz</i> -A	TATAagcttTCACTTCAGGGTCAGGGTGCC	complemented plasmid
Mini- <i>oprC</i> -S	ATAgaattcAGGCAGGCGTGTTGGCGG	Constructing <i>oprC</i>
Mini- <i>oprC</i> -overlap-A	CTGCGACTCCCGCCGTC	complemented
Mini- <i>oprC</i> -overlap-S	GACGGCGGGAGTCGCAGATGGAAAACGT	plasmid &
Mini- <i>oprC</i> -A	ATGTCTACTCAAC	Western-blot
Mini- <i>oprC</i> -flag-A	TATctcgagTCAGAAGCTGAAGTCGACCTTGG	
Mini- <i>hcp2</i> -flag-S	TATgaattcGAAGCTGAAGTCGACCTTGGTCC	Western-blot
Mini- <i>hcp2</i> -flag-A	TATctcgagGCCTTGGCCGAAAGGCTA	
Mini- <i>auz</i> -flag-S	TATgaattcCCCTGCCACCGGCGA	Western-blot
Mini- <i>auz_{ss}</i> -flag-overlap-A	ATActcgagGATCGACTCCTGTCTGGGG	
Mini- <i>auz_{ss}</i> -flag-overlap-S	CATGGAGCAGCCTCCTA	
Mini- <i>auz</i> -flag-A	TAGGAGGCTGCTCCATGCCGAGTCTCGGT	
Mini- <i>tssA2</i> -flag-S	TATgaattcCTTCAGGGTCAGGGTGCC	Western-blot
Mini- <i>tssA2</i> -flag-A	TATgtcgacGGGAGCTTCGATCAGCG	
Mini- <i>xcpP</i> -S	TATAagcttTTCGAGCACCACCTCGAGATC	Western-blot
Mini- <i>xcpP</i> -A	CGGggtaccCAGCCAGTACTGCTCCTCCAG	
Mini- <i>PA0943</i> -S	CCCaagcttGTCGCTTTCGGTAGGCGTG	Western-blot
Mini- <i>PA0943</i> -overlap-A	CGGggtaccAGCAGGGTCTGCAGGGCT	
	AAATCCAGGCCTATAGGGGTAAT	Western-blot

Mini-PA0943-overlap-S	AATTACCCCTATAGGCCTGGATTTATGCGTA AAGCCATGCTGTTC	
Mini-PA0943-A	CCCaaagcttGCTCTTTTCGCCAGTGACGG	
Mini-ctpA-S	CGGggtaccCGCTGCTGATGCTGTTTCGC	Western-blot
Mini-cptA-overlap-A	GGGGTGGCGGGCACCTGG	
Mini-cptA-overlap-S	CCAGGTGCCCGCCACCCCATGCTGCATTGC TTCCGTCC	
Mini-cptA-A	CCCaaagcttGTTGCCGCGGGTGACGCT	
Mini-clpV2-sfGFP-S	CCCaaagcttGGTATGTGGGGATGCTGGAT	Fluorescence microscopy &
Mini-clpV2-sfGFP-overlap-A	AACAGTTCTTCACCTTTACAGGCCAACTCG CAGAG	Western-blot
Mini-clpV2-sfGFP-overlap-S	CTCTGCGAGTTCGCCTCTAAAGGTGAAGA ACTGTT	
Mini-clpV2-sfGFP-flag-A	AGTgaattcTTATTTGTAGAGCTCATCCATGC	
pMMB67H-vgrG2b-flag-S	CCGgaattcATGCGTCAAAGGGACCTGAA	Western-blot
pMMB67H-vgrG2b-flag-A	CCCaaagcttGTATCCCGTTGGGAAGTTTTTC	
pMMB67H-pldA-flag-S	ATAgaattcATGTTGCAGAAGAAGCCCTACAA	Western-blot
pMMB67H-pldA-flag-A	TATAagcttTGTGCGATGCTTTCCTTGTGC	
pMMB67H-oprC- His-S	CGCgaattcATGGAAAAACGTATGTCT	Co-IP
pMMB67H-oprC- His-A	AATAagcttTCAGTGATGATGATGATGATGGAA GCTGAAGTCGAC	
clpV2 ^{E286A} -S	ACCATCCTGTTCATCGACGCGGCCCATACG CTGAT	Mutagenesis
clpV2 ^{E286A} -A	ATCAGCGTATGGGCCGCGTCGATGAACAGG ATGGT	
clpV2 ^{E692A} -S	TTCGGTGATATTGCTGGACGCGGTGGAGAA GGCCGATC	
clpV2 ^{E692A} -A	GATCGGCCTTCTCCACCGCGTCCAGCAATA TCACCGAA	
qRT-rpsL-S	GTAAGGTATGCCGTGTACG	For qRT PCR
qRT-rpsL-A	CACTACGCTGTGCTCTTG	
qRT-oprC-S	CGCAGTCCGACGATTACGA	
qRT-oprC-A	GGCGGTGAGTTCGATCAGG	
qRT-azu-S	TGTCGTCGGGCTTCAGG	
qRT-azu-A	CAACACCAATGCCATCACC	
qRT-clpV2-S	GATCCGTGGCCAGGAAC	
qRT-clpV2-A	CACCAGCAGGAACACGC	
qRT-hcp2-S	CACTACTACACCACCGTCCT	
qRT-hcp2-A	GTGGGTCCAGGTGATCTTGC	
qRT-tssA2-S	CCCATCGAGTCCATGCC	
qRT-tssA2-A	CGCTGATCCAGCCACGGG	
qRT-tssF2-S	GGTGGGGTTCGCCGAAGA	
qRT-tssF2-A	GCTGTATTTCGGCCGGCAT	

<i>qRT-hcp1-S</i>	CCAAGTACATCGACAAGT	
<i>qRT-hcp1-A</i>	TTCCTTCAGGGTGATGAT	
<i>qRT-hcp3-S</i>	AAGGCGACAGCCTGCTCG	
<i>qRT-hcp3-A</i>	CAACTGGTTGGCGGCCAG	
<i>phcp2-gf-S</i>	GCCTTGGCCGAAAGGCTA	For gel-shift
<i>phcp2(208)-gf-S</i>	TCCGAGAGAGTGCGCAACTTT	
<i>phcp2(158)-gf-S</i>	TTTTTCAGTGTTCTTCCCATGAG	
<i>phcp2-gf-A</i>	GGATACGTTCTTGTCGTTGAAAG	
<i>ptssA2-gf-S</i>	GGACCGCCCATCTCGATT	
<i>ptssA2(173)-gf-S</i>	AATAGGAAAATTCCCAAAGA	
<i>ptssA2(139)-gf-S</i>	GCTTGCCAGTTTTTATGTTG	
<i>ptssA2-gf-A</i>	CCTAACCCCTTCAATGCACACC	
<i>poprC-gf-S</i>	AGGCAGGCGTGTTGGCGG	
<i>poprC-gf-A</i>	CTGCGACTCCCGCCGTCT	
<i>p1374-gf-S</i>	GACCTTCGCCGATGCCGA	
<i>p1374-gr-A</i>	AGCCGGTAGCTCGCTCCG	

^a Restriction sites displayed in lowercase.