

Table S2. Primers used in this study.

Primers	Sequence (5'-3') ^a
Front NotI-Kan	AAGGAAAAAAGCGGCCGCGCCGTCCCGTCAAGTCAGCG
Rear NotI-Kan	AAGGAAAAAAGCGGCCGCCCTATAGTGAGTCGTATTACTCTGA TGTTACATTGCACAAG
pLOF F seq	CAAGACGTTTCCCGTTGAAT
STY:PCRNiche#2	CTTGTGCAATGTAACATCAGAG
CCT ₂₄ VN	CCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
STY0016 F1	CGGGATCCGTGATATCGCCATTATCGCG
STY0016 R2	TGAGGGCTTCGCCTTCAAGCGCAATAATT
STY0016 F3	TTGAAGGCGAAGCCCTCAATTGCAGTCAG
STY0016 R4	AAGGAAAAAAGCGGCCGCATATCAGGCTCATCCGTGAG
STY0041 F1	CGGGATCCACCTCATGGAGTTGAGCATG
STY0041 R2	GGTCGCCGTAGTCGCCAT ATCCGAAGCTA
STY0041 F3	ATGGCGACTACGGCGACCGTATGAATTAC
STY0041 R4	AAGGAAAAAAGCGGCCGCACAAACCAATGCACAGCGAC
STY1358-67 F1	CGGGATCCGTGTACACATTGCTTGCCGA
STY1358-67 R2	TTCGATGATGAATACTGCCGGATGTAGAGAG
STY1358-67 F3	CGGCAGTATTCTCATCGAAGCATGGACT
STY1358-67 R4	AAGGAAAAAAGCGGCCGCCATGTTAACGCTGGCGATG
STY1398 F1	CGGGATCCGATGAATTGTACGCGGCAGA
STY1398 R2	TGCCAGCGGCTCAATCCAGCCATCCAGTT

STY1398 F3 TGGATTGAGCCGCTGGCATCATTTTCAGT

STY1398 R4 AAGGAAAAAAGCGGCCGCGCATGTTAGTGTACCACGAG

STY1398 compl R CCGCTCGAGGCATGTTAGTGTACCACGAG

STY1649 F1 CGGGATCCAGGATGCCTTTGATTCAACG (*ompN*)

STY1649 R2 CGTCGTCATTCCCGTAAAGGTCCAGTTTG (*ompN*)

STY1649 F3 TTACGGGAATGACGACGACCCGTTCTAT (*ompN*)

STY1649 R4 AAGGAAAAAAGCGGCCGCTGTTCGGGAGATAAGCAAACC (*ompN*)

STY1867-68 F1 GCTCTAGACCATCAGGTACGACATCAAC

STY1867-68 R2 GAGAAAAGTCCGTATATAAGCCAATCCCT

STY1867-68 F3 TATATACGGACTTTTCTCGCCTTACCGCT

STY1867-68 R4 AAGGAAAAAAGCGGCCGCAATGGTGAAACAACGCCGCT

STY1869 F1 CGGGATCCCTCTCGACATTCTGCCTGTT

STY1869 R2 AACCAGATCATAGCGAGATAGCCAGATGG

STY1869 F3 TCTCGCTATGATCTGGTTAGTATGCAGGAC

STY1869 R4 AAGGAAAAAAGCGGCCGCAATCCAGCGCTATCGGTTTC

STY1869 compl R CCGCTCGAGATTCCAGCGCTATCGGTTTC

STY2346 F1 CGGGATCCTTCCTCACGTTTACCCTGTG

STY2346 R2 ATCAACAACCAGCACGGTAAAGCAGTTGA

STY2346 F3 ACCGTGCTGGTTGTTGATCCTAACGTGGC

STY2346 R4 AAGGAAAAAAGCGGCCGACGCAGATCCTTCAGACGAT

STY2346 compl R CCGCTCGAGACGCAGATCCTTCAGACGAT

STY2378-81 F1 GCTCTAGATGTTGACTGCCTTCACTACC (*stc*)

STY2378-81 R2 GCTGAAATTAAGCGACTGCGCTGATCTAT (*stc*)

STY2378-81 F3 *CAGTCGCTTAATTTTCAGCGGTGTTTCGTAC (stc)*

STY2378-81 R4 *AAGGAAAAAAGCGGCCGCGCGATAACTTCCTGTCTATG (stc)*

STY3641 F1 *CGGGATCCGTAATCGTCGTCGTTTCAGGT (gppA)*

STY3641 R2 *AACGTCAGATCAATGGCGGCATACAACGA (gppA)*

STY3641 F3 *CGCCATTGATCTGACGTTAACCTTGCCTG (gppA)*

STY3641 R4 *AAGGAAAAAAGCGGCCGCGGCAAAGTCACCTGGCTAAT (gppA)*

STY4452-60 F1 *GCTCTAGACTATAAAGCGTATTGGTAGC (SPI-4)*

STY4452-60 R2 *TGATCAACGTCAACAAAAGTAGGCCACGG (SPI-4)*

STY4452-60 F3 *TTTTGTTGACGTTGATCATGGTGACGCAT (SPI-4)*

STY4452-60 R4 *AAGGAAAAAAGCGGCCGCTTGCCGACTCGTTAAATGAC (SPI-4)*

STY4679 F1 *CGGGATCCACGAATGATTGCCACACAG*

STY4679 R2 *TGACCCAACTTGAGGGCTTGGATGGTAAG*

STY4679 F3 *AGCCCTCAAGTTGGGTCAATCGTTCCTAT*

STY4679 R4 *AAGGAAAAAAGCGGCCGCCACAGACTTCGGTTTTGGT*

STY4842-43 F1 *CGGGATCCACTCGAGTACTCTGATGAA*

STY4842-43 R2 *GACCCACAACCTCATTACGATATGGTCA*

STY4842-43 F3 *TAATGAGGTTGTGGGTTCGGAAGCTGGATA*

STY4842-43 R4 *AAGGAAAAAAGCGGCCGCGAGCCGGAATATCCGGTCAT*

acrA F1 *CGGGATCCACGCAGCAATGGGTTTAAGG*

acrA R2 *CCACTTATCTTGCTGGTCCTGTTTGTTCGT*

acrA F3 *GACCAGCAAGATAAGTGGCTGGTGACTGA*

acrA R4 *AAGGAAAAAAGCGGCCGCAAGTTAAGACCTGGGCTGAG*

bcf F1 *CGGGATCCACTCACGACGTTGAGTAGCT*

bcf R2 *ACGTCATTCTGACGGTTGTAGTATCCGCT*

bcf F3 *CAACCGTCAGAATGACG TGGGAACCTTAG*

bcf R4 *AAGGAAAAAAGCGGCCGCTGCTACGCGGTTTCAGTCATA*

CS54 F1 *GCTCTAGACCTGCTGATTTAGAATTTGATCC*

CS54 R2 *GAGTCACGCGCAGGCTGCGTGAAATTAGA*

CS54 F3 *GCAGCCTGCGCGTGACTCGCTTTTACTTG*

CS54 R4 *CCCGGGGGAGAACCCGTATGCGAACAA*

csg F *CGGGATCCTGGGGCTAATCTTTGGCTAT*

csg R over *AACTCAATCTATGAAGTACAGGCAGGCGT*

csg F over *TACTTCATAGATTGAGTTGTCTCGTCTTA*

csg R *AAGGAAAAAAGCGGCCGCGCCTATGGCAGGGATATTTT*

exbD/B F1 *CGGGATCCTGATGCAGACGGATCTTTCC*

exbD/B R2 *ACTCTACGGTTAAGCGGCGCTTTTGCGT*

exbD/B F3 *GCCGCTTAACCGTAGAGTATGAAACCCTG*

exbD/B R4 *AAGGAAAAAAGCGGCCGCGGGAACATTTAGGCTAACGC*

flhC/D F1 *CGGGATCCCTATGACAGGATGCGCAGTC*

flhC/D R2 *CAGCGTTTGTGCGTGTAGTTTATGCCAG*

flhC/D F3 *TACACGCAACAAACGCTGTGCAAGGAGTA*

flhC/D R4 *AAGGAAAAAAGCGGCCGCTGGGAAGCTGCGTTATACGT*

fliC F *CGGGATCCAAGCCATGCCTTCTTCCTTT*

fliC R-over *AGAGGACGTACAGCGACAGGCTGTTTGT*

fliC F-over *TGTCGCTGTACGTCCTCTCTTTACTGCGTTA*

fliC R *GCTCTAGAGGGAAAGAGGAACAGGTATGA*

LPS compl F	CGGGAT <u>CCCC</u> CAGACAATGGGAATGACC
LPS compl R	CCGCTCGAG <u>CCCC</u> AATGATAAGAGTTACCT
mlc F1	CGGGAT <u>CCGCCT</u> GGGCATATCGATCAAA
mlc R2	CAGAATGCGTTTGTGCTAAGATCGCGCA
mlc F3	AGCAGCAAACGCATTCTGGCTATCATGGT
mlc R4	AAGGAAAAAAGCGG <u>CCGCCT</u> CCACCGTTATGCTTCGAA
pagC F	CGGGAT <u>CCC</u> ATTGTAGAACCGGTTACCT
pagC R over	CACCCGCGCAATCCTGAACTTTACTTTGTG
pagC F over	TTCAGGATTGCGCGGGTGTACAGATGAAT
pagC R	AAGGAAAAAAGCGG <u>CCGC</u> ATCACCTACCTGAGCAACCT
pgtE F	CGGGAT <u>CC</u> ATTATGATTATAGATTGCTTATT
pgtE R over	ATAATATCCGGTGTCCGGTATCATAAACCA
pgtE F over	ACCGACACCGGATATTATATTACCAGTAATGC
pgtE R	AAGGAAAAAAGCGG <u>CCGCC</u> CACAAAGAGTATATGGAAAG
rfbI/C F1	CGGGAT <u>CCCC</u> CAGGATGACCGCTTTCATA
rfbI/C R2	TTGGCGATGTGTCCATCATGCTGTGATGG
rfbI/C F3	TGATGGACACATCGCCAAAACTTTAGGC
rfbI/C R4	AAGGAAAAAAGCGG <u>CCGC</u> CATAAACTGGCCGGGCCAT
sipF F1	CGGGAT <u>CCCCTT</u> ATCGGAGACGGTAGCT
sipF R2	GAGCGAGAGCATCAACGGCAATACAGGAG
sipF F3	CCGTTGATGCTCTCGCTCGACAACAATTG
sipF R4	AAGGAAAAAAGCGG <u>CCGC</u> CAGCAGTTCCTTCGGATCAT
stb F1	CGGGAT <u>CCTGCT</u> GAAATTCTGGCCTGTCT

stb R2	<i>GTTATTGCCCGCCGAAAACAGCACTTGAT</i>
stb F3	<i>TTTTCGGCGGGCAATAACACGACGGGTTT</i>
stb R4	<i>AAGGAAAAAAGCGGCCGCCAGGAGGGTATAGCTCACAT</i>
STY LPS F1	<i>CGGGATCCATCAGCACGCTGAAGCAGAA (waaQGP)</i>
STY LPS R2	<i>AACACGCTTACGATTACCGAAATCTTGCG (waaQGP)</i>
STY LPS F3	<i>GGTAATCGTAAGCGTGTTGCGACTATGGT (waaQGP)</i>
STY LPS R4	<i>AAGGAAAAAAGCGGCCGCATCTTTGTCACGCCAGCGAA (waaQGP)</i>
typA F	<i>CGGGATCCCAAAGAGACTCTGCAATACT</i>
typA R over	<i>TCAGTTTCTCAACGATGTTGATACGATAA</i>
typA F over	<i>ACATCGTTGAGAAACTGACCAACATGCGT</i>
typA R	<i>AAGGAAAAAAGCGGCCGCTCATTGGTCGGCATAATACG</i>

^aRestriction enzyme sites are underlined. Letters in italics denote overlapping sequences. Letters in bold represent the T7 RNA-polymerase promoter sequence. Corresponding gene names are given in parenthesis following sequence where necessary.