

Table S2. Oligonucleotides used in this study

Name	Sequence (5' to 3')
<i>lacZ</i> fusion constructions in <i>E. coli</i> and <i>H. pylori</i>	
<i>sabA</i> -1	ATGAATTCCTCTAGCAATGTGTGG
<i>sabA</i> -3	ATGGATCCCTTTTTCATAAAAGTTCCTT
<i>sabA</i> -Tf*	GGTTAAAATACTCCAAAATCTTTTTTTTTTTTTGGAAATCCAATAAAATT
<i>sabA</i> -Tr*	AATTTATTGGATTTCAAAAAAAAAAAAAGATTTTGGAGTATTTTAACC
P163-P165*, P167*	AAGATGATTTTATCGTTACTTTTTTTTTTTTTGGAAATCCAATAATTTATAGTA
P162	GTAACGATAAAATCATCTT
<i>hypF</i> R	GATCGTCGACGCCCCCTGTAACGAATA
<i>hypF</i> F	GATCGGATCCGAAAGAATTTTCAGCCAT
<i>pyrGp</i> F	GATCGTCGACGAAAGAATTTTCAGCCAT
<i>pyrGp</i> R	GATCGGATCCGCCCCCTGTAACGAATA
<i>pyrG</i> 9Tf	ACTGAAATTGTTTTTTTTGAAATCGCTT
<i>pyrG</i> 9Tf	AAGCGATTTCAAAAAAAAAACAATTTTCAGT
Amut1-1F	GCTTCACAGATACATAGTTACAGTACTC
Amut1-1R	GAGTACTGTAACCTATGTATCTGTGAAGC
Amut1-2F	TTATCGTTACACAGATCAACGCTTCACA
Amut1-2R	TGTGAAGCGTTGATCTGTGTAACGATAA
Amut2-1F	CTGATGATACAGTTCACAGGATGATTTTA
Amut2-1R	TAAAATCATCCTGTGAACTGTATCATCAG
Amut2-2F	GCTTTATTCCATTACATACTGATGATAC
Amut2-2R	GTATCATCAGTATGTAATGGGAATAAAGC
SM1109Δ<i>sabA</i>::<i>rpsLCAT</i> and T-variant constructions in <i>H. pylori</i>	
LA-F	AACCCCAAGCCCTCAAGATT
LA-R	GTGTTTAATCCATAGTTATAAAGCATCCTAAAACAAGAACGCATA
RA-F	CCCAGTTTGTCGCACTGATAAATGAAAAAGACAATTTTACTCT
RA-R	GGCAGTTGTCTATAATCGTTCTAA
<i>rpsLCAT</i> -F	TTTGTCAGCTATGCGTTCCTGTTTTAGGATGCTTTATAACTATGGATT
<i>rpsLCAT</i> -R	AGAGTAAAATTGTCTTTTTCATTTATCAGTGCGACAAACT
P93	AACCCCAAGCCCTCAAGATT
P96	GGCAGTTGTCTATAATCGTTCTAA
<i>hup</i> and <i>napA</i> deletion/insertion constructions	
<i>hup</i> -1	CCCTTACCAAGCGATGGTGGGA
<i>hup</i> -2	TAGTGAAAAGTGTATTACGCCACGC
<i>hup</i> -3Km	ACACAATCGCTCAAGACGTGTTCCGCTTTGTTTCATGTGG
<i>hup</i> -4Km	CTAATTCATGTCAGCCGTGAGTGCCTAAATTCAAACCC
<i>hup</i> -5	GGGATTTTAATGGCTTGATTGTATCG
<i>hup</i> -in	CTCTTTTGCTGTTGTATTTACCCGC
<i>napA</i> 1F	TTGATAATGGCAAGGAAGTGGA
<i>napA</i> 1R	TCAAGCCATAGCGGATAAGCT
<i>napA</i> 2F	CACGATCGCATCGCTTGCA
<i>napA</i> 2R	TTACCGTAACTTATGCGGACGAT
<i>Kmup</i>	CACGTCTTGAGCGATTGTGTAGG
<i>Kmdn</i>	ACGGCTGACATGGGAATTAGCCA
<i>Km2</i>	CGATTGTCTGTTGTGCC

* Different variants of *sabA*-Tf and -Tr primers that harbor different length of the T tract were used. Here is one representative variant shown.

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Name	Sequence (5' to 3')
5' RACE and Primer extension	
AB35	GATTGGGTGGTGGCTGTTGTAGTTG
J99-8	GTTGTCTTCAGCGTGCAAGAGCG
<i>sabA</i> -8	CTTTTTCATAAAAAGTGTTCCTT
Sequencing <i>sabA</i> promoter	
CL1	GCAATGTGTGGCAGCAAC
CL2	CTAGCGGTTTTTGTAGTATC
P67	TGGGTGGTGGCTGTTGTAGTTGTT
P68	CATTTTCATGGCGTTTGGTTTG
EMSA, Footprint and Surface plasmon resonance	
<i>sabA</i> -5	CGTTCTTGTTTTAGTTTGGC
Biotin- <i>sabA</i> -5	Biotin-CGTTCTTGTTTTAGTTTGGC
<i>sabA</i> -8	CTTTTTCATAAAAAGTGTTCCTT
FLA analysis – FAM primers	
FAM-F	TATGCGTTCTTGTTTTAGTTT
FAM-Rlong	CTTTTTCATAAAAATGTTCCCTTAAAGTAAT
FAM-Rshort	ATTACTTTAAGGAACATTTTATGAAAAAG
qPCR analysis	
<i>sabA</i> -qP1F	TGAACGAAAAATACGAGCAA
<i>sabA</i> -qP1R	CCGCATAAAGACTCCAAAA
<i>sabA</i> -qP2F	TTCGGTATTGGGTTTTTGGAG
<i>sabA</i> -qP2R	GCTTTAGTGGTAGCGTTTTGT
<i>rrnA</i> -2F	CTCCCTACGGGGGAAAGATT
<i>rrnA</i> -2R	GTAGGAGTCTGGACCGTGTC
<i>ppk</i> -2F	GCAAACCCAAAAAGGGAGTCA
<i>ppk</i> -2R	TGACCAATCCCACAAATCCC
<i>gyrA</i> -1F	GCTAGGATCGTGGGTGATGT
<i>gyrA</i> -1R	TGGCTTCAGTGTAAACGCATC