Table S2. Oligonucleotides used in this study

Name	Oligonucleotide sequence (5'–3')	Use(s)
ArnT-FRT-F	ATGAAATCGGTACGTTACCTTATCGGCCTCTTCGCGTTTATTGCCTGCTAGTG TAGGCTGGAGCTGCTTC	Deletion
ArnT-FRT-R	GCGTTTTTGCGTCGCTACCCATGGCAGCACGCTTAATACCGGCACGGCAAAT TCCGGGGATCCGTCGACC	
LpxT-FRT-F	ATGATTAAAAATTTGCCGCAAATAGTGTTGTTGAATATTGTCGGCCTCGCGTG TAGGCTGGAGCTGCTTC	
LpxT-FRT-R	CATCGAACCGACAATGATGTCAGTAAACCAGTGTGCGCCAATCATTACTCAT TCCGGGGATCCGTCGACC	
WaaB-FRT-F	ATGAAAATAGCGTTTATCGGCGAAGCTGTTTCTGGATTTGGCGGCATGGAGT GTAGGCTGGAGCTGCTTC	
WaaB-FRT-R	ATCAAGCAGGTCTTTAACTCTTTTCTGGCCTTCAAATTTCATACGCCCAAATT CCGGGGATCCGTCGACC	
WaaH-FRT-F	ATGATGAACAGCACCAATAAACTTAGTGTTATTATTCCGTTATATAATGCGTG TAGGCTGGAGCTGCTTC	
WaaH-FRT-R	AAACATGAATTCTGTTGTCCAGACAATATCCTGATGATGTAATCCGGCAAAT TCCGGGGATCCGTCGACC	
WaaP-FRT-F	ATGGTTGAATTAAAAGAGCCGCTTGCCACACTTTGGCGTGGTAAAGATGCGT GTAGGCTGGAGCTGCTTC	
WaaP-FRT-R	GCGGCGCGGTACTTTTGCACGTATCTGTGCCCGATGCAGATCGATAACTGAT TCCGGGGATCCGTCGACC	
WaaQ-FRT-F	ATGCGATATCATGGGGATATGTTATTAACTACTCCTGTCATCAGTACGCTGTG TAGGCTGGAGCTGCTTC	
WaaQ-FRT-R	TTGCAGCGCATCGATAACCTTAGAAAATTTATCGTTATCCCAACACTTAAATT CCGGGGATCCGTCGACC	
WaaD-FRT-F	ATGATCATCGTTACCGGCGGCGCGGGCTTTATCGGCAGCAACATCGTTAAGT GTAGGCTGGAGCTGCTTC	
WaaD-FRT-R	CAGCTTCGGTGATTCACCGTTGTTAAGCTGGGTGTTGAGATGGAAAGCGAAT TCCGGGGATCCGTCGACC	
WaaE-FRT-F	ATGAAAGTAACGCTGCCAGAGTTTGAACGTGCAGGAGTGATGGTGGTTGGGT GTAGGCTGGAGCTGCTTC	
WaaE-FRT-R	TTCAAATTCCGAGAGATTCGGCGTTAACAGCGTAGCGCCGCGGTAGCGCTAT TCCGGGGATCCGTCGACC	
WaaR-FRT-F	GTGGACTCATTTCCTGCCATAGAGATAGATAAAGTTAAAGCCTGGGATTTGT GTAGGCTGGAGCTGCTTC	

WaaR-FRT-R	CGCTTTTTCTGTTAGTTTTGCGTCAGCCCATTTTTTTAAGTCTAAATAAAATTC CGGGGATCCGTCGACC	
WaaS-FRT-F	ATGACTATTTATTTTATAAATTGGGTTGCAGATTATGAATTAAAAATGATGTG TAGGCTGGAGCTGCTTC	
WaaS-FRT-R	CTTTGAAGTCGTAGATGATGTCTTATCTTTGACAACATTAAAATCTAGCTATT CCGGGGATCCGTCGACC	
WaaY-FRT-F	ATGATTCAGAAGAGCAAGATCAAAGACTTGGTTGTTTTTACCGATGAAAAGT GTAGGCTGGAGCTGCTTC	
WaaY-FRT-R	ACCGTAATGACGCTCTAAGTCAATACGATCTTTCGCTTTACGCTGCGCTGATT CCGGGGATCCGTCGACC	
WaaZ-FRT-F	ATGAAGAATATTAGATACATTGACAAAAAAGATGTTGAAAACCTGATTGAGT GTAGGCTGGAGCTGCTTC	
WaaZ-FRT-R	AGAACAGCTACCCGTTAAATCAAGACCAGAACAAATAATCCGCGCATACTAT TCCGGGGATCCGTCGACC	
ArnT-cfm-F	GGGTTGCCAACAAATTGCGGGTAGTCGCTG	
ArnT-cfm-R	AGTACGCAACTGATAACCGCCAGCCAGCCG	
LpxT-cfm-F	GCGTTTTTCAGTAAGATAATTAGAGAAAAT	
LpxT-cfm-R	CAAAAAAGGTGATTAATCGATCACTTAATG	
WaaB-cfm-F	GTGAGTTTTACTCAATTAATGAGAGTTTCT	
WaaB-cfm-R	CATCAATATTTAATTCTCTACCATAAGCCT	
WaaH-cfm-F	CAGGATAACTTCAGAGGTCGTCGGTAATTT	
WaaH-cfm-R	CTATGCAACCGACTCACTGACGTATTATGC	
WaaP-cfm-F	ATACTCAGGATTTGTATAGCTTGCCAGAAA	Deletion confirm
WaaP-cfm-R	AGATATCTCTTTGCGTCAGGCCAATATTCA	
WaaQ-cfm-F	AAGCCATTTCGAAAAATCCTGGTCATAAAG	
WaaQ-cfm-R	ATGATCAATTAATGCACCCAGTTCAGGAAA	
WaaD-cfm-F	ACATTCGTGTCTGAGATTGTCTCTGACTCC	
WaaD-cfm-R	GTCGCGTTTGAAGTTCTCGCTACCTTCAAA	
WaaE-cfm-F	CGCAAATTTTGAATCTCTCAGGAGACAGGA	
WaaE-cfm-R	TTCTTCGGTCTTACATTTACCGACAACAGC	
WaaR-cfm-F	ACTATAAAGTAATGATATAAGGGTAGCATT	

WaaR-cfm-R	AACATTATCTTTACTCATAAGAATAGACAA	
WaaS-cfm-F	TTATTAGTATGTACTGGAACTAACTTTATT	
WaaS-cfm-R	ATTAGCATTTAATGTTCTTCTAATATTCTC	
WaaY-cfm-F	TTACCGTAAATAACATTTAACTGGTTTATT	
WaaY-cfm-R	ATAGCCTAGATCTCTAATCTCATTTTTAAT	
WaaZ-cfm-F	AAGCGGAGTTATTTATTTCACAGGTTTATC	
WaaZ-cfm-R	CATGGGATTTTTATTCTCATCATAGAAACG	
pACYC184-cfm-F	CTTGGAGCCACTATCGACTACGCGATCATG	pACYC184 cloning
pACYC184-cfm-R	CCGCCGGAAGCGAGAAGAATCATAATGGGG	
pRL27-inner-F1	GGTTGTAACACTGGCAGAGCATTACG	
pRL27-SynArb1	CCCACAGGAAGGTATTCTGGAAGATACGGCGGT	Random mutagenesis
pRL27-inner-F2	ATCAGCAACTTAAATAGCCTCTAAGG	