

Table S2. Summary of oligonucleotides used in this study.

Primer	Construct	Sequence (5'-3')
SM1	pAM325(<i>PshyB</i>)	5'-cagctagcCCAGCTTATTGGCTCAGT-3'
SM2		5'-gtgctagcGAGAACTAAGCATCAATAATTTTGTATG-3'
SM3	pJL1(<i>PshyB-lacZ</i>)	5'-gtgatgattgttacCAGATCTTAATTAAGGCCAGCTTATTGGCTCAGT-3'
SM4		5'-cggggattgGTACCGCGGCCGCTCTAGAGGttattattttgacaccagaccaa-3'
SM89	pCVD442(<i>Δzur</i>)	5'-ATATGTGATGGGTAAAAAGGATCGATCCTGGCTCGCCCATCAGACA-3'
SM90		5'-GCGCATAACCTTCTTTGTTGGACTTTAGTAATAATATACTATGTGCGAG-3'
SM91	pCVD442(<i>Δzur</i>)	5'-TACTAAAGTCCAACAAAGAAGGTTATGCGCGCTGAAT-3'
SM92		5'-AGAGCTCGATATCGCATGCGGTACCTCTAGCACGCTTGGTGGCAAGGTTTA-3'
SM93	pCVD442(<i>ΔznuABC</i>)	5'-ATATGTGATGGGTAAAAAGGATCGATCCTTGCTGGCACTATTGAGCTGATAAAGT-3'
SM94		5'-GTCGACCAACTTCTCTAACATTGTTCTAAATG-3'
SM95		5'-GAGAAGTTGGTCGACCGCTGTATCAGATTAGCTTTTAGT-3'
SM96		5'-AGAGCTCGATATCGCATGCGGTACCTCTAGGTGACCATCACTGAAGGCATTC-3'
SM107	pCVD442(<i>ΔznuA</i>)	5'-ATATGTGATGGGTAAAAAGGATCGATCCTCTTGCTGGCACTATTGAGCT-3'
SM108		5'-GCCACTAACTGGAGTGTGACCAACTTCTCTAACATTGT-3'
SM109		5'-GAGAAGTTGGTCGACACTCCAGTTAGTGGCTTTTATTGG-3'
SM110		5'-AGAGCTCGATATCGCATGCGGTACCTCTAGTTGGCGATGCTCTCCGG-3'
SM122	<i>zur</i> -colony-Fwd	5'-GATCCTAGTCGGCTTGCCAC-3'
SM123	<i>zur</i> -colony-Rev	5'-GAACCGCGCGTCGTTG-3'
SM119	<i>znu</i> -colony-Rev	5'-ACTGCGCATCGTTAATCACG-3'
SM120	<i>znuA</i> -colony-Fwd	5'-GCGTGTCTCGGCTTCGAT-3'
SM121	<i>znuABC</i> -colony-Rev	5'-GCGATCGATGCTGGCATC-3'
SM99	pBAD(<i>zur</i>)	5'-tttgggctagcgaattcgagctcggtacccAGGAGGctgactgaGTGATGGTGATGGTTTTGGACAAC-3'
SM100		5'-atgcctgcaggtcgactctagaggatccccTAACCTTCTTCTATTGTTGCTTCTTCTCTTTC-3'
SM113	pBAD(<i>znuA</i>)	5'-tttgggctagcgaattcgagctcggtacccAGGAGGctgactgaTTGGCGACCATGTTATCGAGA-3'
SM114		5'-atgcctgcaggtcgactctagaggatccccGTTGGTCGACTTAAGATTGGGAC-3'
SM97	pTD101(<i>zur</i>)	5'-aacagaccatggaattcgagctcggtacccAGGAGGctgactgaGTGATGGTGATGGTTTTGGACAAC-3'
SM98		5'-catgcctgcaggtcgactctagaggatccccTAACCTTCTTCTATTGTTGCTTCTTCTCTTTC-3'
SM181	pTD101 (<i>shyB</i>)	5'-aacagaccatggaattcgagctcggtacccAGGAGGctgactgaatgGG-3'
SM182		5'-catgcctgcaggtcgactctagaggatccc-3'

SM141	pSGM100(<i>shyB</i>)	5'-tttgggctagcgaattcgagctcggtacccAGGAGGTAGTTCTCatgGGTCAATTTAGATTTC-3'
SM55		5'-aacagaccatggaattcgagctcggtacccatgCTTTCTCTTTTCAATCGTCT-3'
SM 270	Arbitrary PCR	5'-AGGTTGAGGTAACGGTGTCA-3'
SM271		5'-GCGACGTGTTAACGCTTTG-3'
SM272	pCAV4 (<i>shyA</i>)	5'-AGCGGCCTGGAAGTTCTGTTTCAGGGTCCGCTAAACAGTCCCACGCG-3'
SM273		5'-TTTTTCGAACTGCGGGTGGCTCCAAGCGCTttaTTGCGCTGCTAGCATG-3'
SM172	pCAV4 (<i>shyB</i>)	5'- AGCGGCCTGGAAGTTCTGTTTCAGGGTCCGGTTCCACTCAATCAAAGCGTTAAC A-3'
SM176		5'-TTTTTCGAACTGCGGGTGGCTCCAAGCGCTttaAGTTTCGTCGAGAGCAACC-3'
SM274	pCAV4 (<i>shyC</i>)	5'- AGCGGCCTGGAAGTTCTGTTTCAGGGTCCGGAAGATTTACGTAAACCGGATGC- 3'
SM275		5'- TTTTTCGAACTGCGGGTGGCTCCAAGCGCTttaTTGATTGGCATAACAGTAACTGG- 3'
SM286	pCAV6 (<i>zur</i>)	5'-GGCCTGGAAGTTCTGTTTCAGGGTCCGATGGTGATGGTTTTGGACAAC-3'
SM245		5'- TTTTTCGAACTGCGGGTGGCTCCAAGCGCTCTATTGTTGCTTCTTCTCTTTCGA- 3'
SM258	vc1807-colony-Fwd	5'- GTCGGTATTCCTCTTGATAAGGATC -3'
SM259	vc1807-colony-Rev	5- GAACATGCTCCATTATGCAAGG -3