

**Additional File 3: Oligonucleotides used in this study**

<b>Name</b>	<b>Forward</b>	<b>Reverse</b>
pDS11MCS	CTAGAATTGAGCTCATTTGGTACCATTG	GATCCAATGGTACCAATGAGCTCAATT
pDS12MCS	AGCTTAGATCTCTAGAGTCGACGGTACCATTG	GATCCAATGGTACCGTCGACTCTAGAGATCTA
LM-PCR linker	AGAAGCTTGAATTCGAGCAGTCAG	CTGCTCGAATTC AAGCTTCT
DctD	ATTGGATCCCACCTCGACCGGAATTATCG	TTTTATCAGACCGCTTCTGC
STM0224 ( <i>yaeT</i> )	GACATGAGTCCTTAGTCCG	AGGTAACATTACGCTATGGG
STM0334	CGATAGCGGAAACAAAACCG	TCAGGAAGCGAATATCTGGG
STM0462 ( <i>glnK</i> )	TCGCCCATCATGCACCGTCG	TCCCTGAATGCCAATGGAAG
STM0504 ( <i>ybbN</i> )	AGGGCGATGTCTTAGTCC	AGGACCTTCCAAAACGCG
STM0699	CTCTGCCCGTATGTTGTCCC	ATACGCACCACGCAAACCG
STM0961 ( <i>lolA</i> )	GGTAGCCTGTTCTACAAAACGG	GGAGTGTGAAAACCTGAGG
STM1285 ( <i>yeaG</i> )	GTAGAGGCTCCCGGAAGAGG	ATCCACCAGCCTTTTCTACC
STM1586	GCGTTTTACCGTCTGCCG	GTAAGAAGTTGCTGGATGACGG
STM1594	CTCTGGATGTACTCGACGG	AGATACTCAAACTACGCAGCG
STM1697	GGAAATAACGTGCCCTGGG	ATCTGTTGCGGACAATCGC
STM2016 ( <i>cobT</i> )	TGGCTTTCTTTCTACTCGG	GGCAGGACAATATTACTGGC
STM2430 ( <i>cysK</i> )	AGCTGCAGGAAGATGAAAGC	GAATCAATGCCAGGTGAGG
STM_R0152 ( <i>glmY</i> )	AAGGGGCTGACATAAGAAGG	TTAGGTGTTGCAGGTGTTGC
STM2939	TGAACACGATGGCTTAACGG	CATCAGCAAATCGTGACGC
STM2957 ( <i>rumA</i> )	CGTCAATGTGCAACAGTGCC	CGACCATTGCTGGTTTTACCG
STM3127	GGACTGTTTTTCATCGACCC	GGTAAATAACGTTGTGACGC
STM3521	AAGCGTAGAATCTAAAGGAAG	AGGGAATTGTCGCTTGCC
STM3568 ( <i>rpoH</i> )	CAAATCCTCTCAATCAGTATTGC	GTTTCGAGGAAAGAGTCC
STM_R0167 ( <i>glmZ</i> )	TTCTGTCTCCACCGGGCGA	TCCAGGGTGTGATGAGG
STM4007	GCGCGTTATTGTACACGG	TGTA CTCTCCCGATTGG