

**Functional analysis of the EsaB component of the  
*Staphylococcus aureus* Type VII secretion system**

**SUPPLEMENTARY INFORMATION**

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Primer	Nucleotide Sequence (5'-3')	Usage
EsaB-pET1	GCGCGCCATATGAATCAGCACGTAAAAGT AAC	Amplification of <i>esaB</i> synthetic gene for cloning into pET15b
EsaB-pET2	GCGCGCCTCGAGTCACAGCAGTTTCAGAA TATCGCCATC	Amplification of <i>esaB</i> synthetic gene for cloning into pET15b
EsaB-fw	TTTTGTTAACTCATAAAGGGAGACGAACG	Amplification of <i>esaB</i> gene and its own RBS from RN6390 genome for cloning in pRAB11
EsaB-rev	TTAGAATTCCCTCCTATAGTAACTTCAAATA TC	Amplification of <i>esaB</i> gene and its own RBS from RN6390 genome for cloning in pRAB11
MGC3	CACGTA AAAAGTAGCATTGATTTACT	Quick change mutagenesis EsaB T8A
MGC4	AGTAA AATCAAATGCTACTTTTACGTG	Quick change mutagenesis EsaB T8A
MGC153	CACGTA AAAAGTAAAATTTGATTTACT	Quick change mutagenesis EsaB T8K
MGC154	AGTAA AATCAAATTTTACTTTTACGTG	Quick change mutagenesis EsaB T8K
MGC161	CACGTA AAAAGTAAGATTTGATTTACT	Quick change mutagenesis EsaB T8R
MGC162	AGTAA AATCAAATCTTACTTTTACGTG	Quick change mutagenesis EsaB T8R
MGC163	CACGTA AAAAGTACATTTGATTTACT	Quick change mutagenesis EsaB T8H
MGC164	AGTAA AATCAAATGTACTTTTACGTG	Quick change mutagenesis EsaB T8H
MGC53	CACGTA AAAAGTAGAATTTGATTTACT	Quick change mutagenesis EsaB T8E
MGC54	AGTAA AATCAAATCTTACTTTTACGTG	Quick change mutagenesis EsaB T8E
MGC174	CAGCACGTAAAAGTATCATTGATTTACT	Quick change mutagenesis EsaB T8S
MGC175	AGTAA AATCAAATGATACTTTTACGTGCTG	Quick change mutagenesis EsaB T8S
MGC5	AAAGTAACATTTGCATTTACTAATTAT	Quick change mutagenesis EsaB D10A
MGC6	ATAATTAGTAAATGCAAATGTTACTTT	Quick change mutagenesis EsaB D10A
MGC7	TACGGCACATATGCATTAGCAGTACCA	Quick change mutagenesis EsaB D20A
MGC8	TGGTACTGCTAATGCATATGTGCCGTA	Quick change mutagenesis EsaB D20A
MGC133	GGCACATATGACGCAGCAGTACCAGCA	Quick change mutagenesis EsaB L21A
MGC134	TGCTGGTACTGCTGCGTCATATGTGCC	Quick change mutagenesis EsaB L21A
MGC9	TATTTACCGATAGCAAACCTTAATAGCT	Quick change mutagenesis EsaB K30A
MGC10	AGCTATTAAGTTTGCTATCGGTAAATA	Quick change mutagenesis EsaB K30A
MGC11	AATACACAAATTGCAGTGATGACGAAA	Quick change mutagenesis EsaB K52A
MGC12	TTTCGTCATCACTGCAATTTGTGTATT	Quick change mutagenesis EsaB K52A
MGC13	AAAGTGATGACGGCAGGTCAATTACTT	Quick change mutagenesis EsaB K56A

MGC14	AAGTAATTGACCTGCCGTCATCACTTT	Quick change mutagenesis EsaB K56A
MGC15	GAAAATGATCGAGCAATTGATTATCAA	Quick change mutagenesis EsaB L66A
MGC16	TTGATAATCAATTGCTCGATCATTTTC	Quick change mutagenesis EsaB L66A
MGC135	CAAATCGCTGATGCAGATATTTTGAAG	Quick change mutagenesis EsaB G74A
MGC136	CTTCAAAATATCTGCATCAGCGATTTG	Quick change mutagenesis EsaB G74A
MGC17	ATCGCTGATGGAGCAATTTTGAAGTTA	Quick change mutagenesis EsaB D75A
MGC18	TAACTTCAAATGCTCCATCAGCGAT	Quick change mutagenesis EsaB D75A
region-1-f	CAGGAGGTTTCTAGTTATGGC	RT-PCR, region 1
region-1-r	GTTCTTGAACGGCATCAGC	RT-PCR, region 1
region-2-f	GCATATGTACGCAAAGTAGGAC	RT-PCR, region 2
region-2-r	TCGTTAGTTGCTCTTGAGTTC	RT-PCR, region 2

**Table S1.** Oligonucleotides used in this study. Restriction enzyme sites have been underlined.