

**Table S1. Oligonucleotide primers used in this study.**

<b>Name</b>	<b>Description</b>	<b>Sequence (5' → 3')</b>
DnrNA	Deletion of gonococcal <i>dnrN</i>	TTTTTGAACACCATCAGGGTCGG
DnrNB	Deletion of gonococcal <i>dnrN</i>	GGCTGAGGTGGCCAAGGAAAATATC CCAAAGCCC
DnrNC	Deletion of gonococcal <i>dnrN</i>	TAAAAGGAACCGGTGGAGTCGGATA TTTCAATGC
DnrND	Deletion of gonococcal <i>dnrN</i>	GCCGTAAACGGTTAGTCGGCG
KanAgeIFwd	Amplification of Kan <sup>R</sup> cassette	CGTAACCGGTAAAGCCAGTCCGCAG
KanAgeIRev	Amplification of Kan <sup>R</sup> cassette	CGATACCGGTGGAGGATCATCCAGC
ScdANheI	Expression of <i>S. aureus</i> ScdA	AGGAGGTTAGCTAGCATGATAAAT
ScdAEcoRI	Expression of <i>S. aureus</i> ScdA	ACTGCTGGAATTCTTTTTGCCAA
ScdAHindIII	Complementation of <i>S. aureus</i> <i>scdA</i>	GAAGTGCAAAGCTTACTTAGCAA
ScdAmutEco	Deletion of <i>S. aureus</i> <i>scdA</i>	TTGGCGAATTCCATTATGATGTC
ScdAmutBam	Deletion of <i>S. aureus</i> <i>scdA</i>	AACAAGGATCCATCCCACACTT
aniA_RT_539F	Detection of <i>aniA</i> transcript in qRT-PCR	TCGGTATGCACATCGCCAA
aniA_RT_705R	Detection of <i>aniA</i> transcript in qRT-PCR	GGCAACGGCTTTGTCCATATC
dnrN_RT_33F	Detection of <i>dnrN</i> transcript in qRT-PCR	CTTTGGCGCAACCGTTGAT
dnrN_RT_160R	Detection of <i>dnrN</i> transcript in qRT-PCR	CAATTTCCGCCGAAAGGT
norB_RT_133F	Detection of <i>norB</i> transcript in qRT-PCR	TCCGCCTGGTTGGATTTGA
norB_RT_251R	Detection of <i>norB</i> transcript in qRT-PCR	CGGCTTTGATTGCGGTATTCA
polA_RT_441F	Detection of <i>polA</i> transcript in qRT-PCR	CGTTACGCTGGTGAACACGAT
polA_RT_546R	Detection of <i>polA</i> transcript in qRT-PCR	GATCAGCGCGAGATAATCACG