

Table S2 Primers used in this study.

Primer	Sequence	Features
iga5'Fw	5'-TAACGCCATATCCTTATCC-3'	Coding strand of <i>iga5'</i> fragment (corresponding to position 24 to 48 of MC58 <i>iga</i> orf)
iga5'Rev	5'-GAAAAACGGTTTTTATCTTT	Non-coding strand of <i>iga5'</i> fragment (corresponding to position 538 to 557 of MC58 <i>iga</i> orf)
iga3'FwEcoRI	5'-ATCGAAT <u>TCCG</u> GCGATATTGGTGCAGGCAGCTTG-3'	Coding strand of <i>iga3'</i> fragment (corresponding to position 4188 to 4212 of MC58 <i>iga</i> orf) harbouring <i>EcoRI</i> adaptor site (underlined sequence)
iga3'RevNcoI	5'- <u>CCCC</u> CATGGTTAGAAACGAATCTGTATTT-3'	Non-coding strand of <i>iga3'</i> fragment (corresponding to position 4662 to 4686 of MC58 <i>iga</i> orf) harbouring <i>NcoI</i> adaptor site (underlined sequence)
aad1	5'-TGCGCTCACGCAACTGGTCCA-3'	Coding strand of spectinomycin resistance cassette <i>aadA</i>
aad2	5'AGCTTGCCGTCTGAAGAATTCCCGGGGATCCGGTG-3'	Non-coding strand of spectinomycin resistance cassette <i>aadA</i> with up-take sequence (<i>italic</i>)
ERAM-1	5'-GCAAACCTTAAGAGTGTGTTGA-3'	Coding strand of erythromycin resistance cassette <i>erm</i>
ERAM-3	5'-AGCTTGCCGTCTGAATGGGACCTCTTTAGCTTCT-3'	Non-coding strand of erythromycin resistance cassette <i>erm</i> , with up-take sequence (<i>italic</i>)
alphaFwBsa	5'- GCTGGTCTCC <u>CA</u> TGAGCCCGCAGGCAAATCA-3'	Coding strand of α -peptide region harbouring <i>BsaI</i> adaptor site (underlined sequence)
alphaRevXho	5'- CACCTCGAGGGTATTGGTGCTGACTGCATC-3'	Non-coding strand of α -peptide region harbouring <i>XhoI</i> adaptor site (underlined sequence)
igapFwBsa	5'-GCTGGTCTCC <u>CA</u> TGGCATTGGTCAGAGACGATG-3'	Coding strand of IgA protease sub-domain harbouring <i>BsaI</i> adaptor site (underlined sequence)

igapRevXho	5'-CACCTCGAGAGGCGGTGCGACGACGATATT-3'	Non-coding strand of IgA protease sub-domain harbouring <i>Xho</i> I adaptor site (underlined sequence)
alphaFwNhe	5'- GCTGCTAGCATGAGCCCGCAGGCAAATCA-3'	Coding strand of α -peptide region harbouring <i>Nhe</i> I adaptor site (underlined sequence)
alphaRevSma	5'-CACCCCGGGGTATTGGTGCTGACTGCATC-3'	Non-coding strand of α -peptide region harbouring <i>Sma</i> I adaptor site (underlined sequence)
igapFwNhe	5'-GCTGCTAGCATGGCATTGGTCAGAGACGATG-3'	Coding strand of IgA protease sub-domain harbouring <i>Nhe</i> I adaptor site (underlined sequence)
igapRevSma	5'-CACCCCGGGAGGCGGTGCGACGACGATATT-3'	Non-coding strand of IgA protease sub-domain harbouring <i>Sma</i> I adaptor site (underlined sequence)
trpBFw	5'-GGGTAAAAACGCGTCATCG-3'	Coding strand of meningococcal <i>trpB</i> gene
trpBRev	5'-GCGATTTCCAATGCGTGATT-3'	Non-coding strand of meningococcal <i>trpB</i> gene
porA0	5'-GATGTCAGCCTATACGGCGAAATCAA-3'	5' of the coding strand of <i>porA</i>
porA101	5'-GCCGATAAACGAGCCGAAATC-3'	3' of the non-coding strand of <i>porA</i>
igadownFw-Nco	5'-GGGCCCCCATGGAATACTAAATTCATAGCAAA-3'	Coding strand downstream <i>iga</i> stop codon
igadownRev	5'-CCTCGTCCGTCTGATATAGT-3'	Non-coding strand downstream <i>iga</i> stop codon
nalPKOFw	5'-ACGGCTATAACGAAAATTAC-3'	Coding strand <i>nalP</i>
nalPKORev	5'-TAATGCTGTCGGTTTTTGC-3'	Non-coding strand <i>nalP</i>
igamutRev	5'-TAATGGTGAACCGACATCGCCTAACA-3'	Non-coding strand of <i>iga</i> with CT to AC replacement of active site (underlined)
β -actinFw	5'- GACTTAGTTGCGTTACACCCTTTC-3'	β -actin coding strand (Accession number NM_001101.3)
β -actinRev	5'- CTGCTGTCACCTTCACCGTTC-3'	β -actin non-coding strand
TNF- α Fw	5'- AGCTGGAGAAGGGTGACCGA-3'	TNF- α coding strand (Accession number: NM_000594)
TNF- α Rev	5'- CAGGGCAATGATCCCAAAGTA-3'	TNF- α non-coding strand
IL-8Fw	5'- AGACATACTCCAAACCTTCCACC-3'	IL-8 coding strand (Accession number NM_000584)

IL-8Rev	5'ACAACCCTCTGCACCCAGTT-3'	IL-8 non-coding strand
FLIPFw	5'-AGAGTGAGGCGATTTGACCTG-3	c-FLIP coding strand (Accession number HS00094)
FLIPRev	5'- -AAGGTGAGGGTTCCTGAGCA-3'	c-FLIP non-coding strand