

Oligonucleotide Sequences used to Assess *pgIP* Pseudogene Mutation Distribution

N. gonorrhoeae *pgIP* ORF-disrupting polymorphisms / SNVs (coding strand):

fs84 (TTTCTT**CCCCG**CTTTCCGTTTATC) - insertion of C (3C to 4C) relative to WT

ns207 (CAAACATTTGAA**T**AAAAAGAAAA) - replacement of A by T (stop codon generated)

fs387 (TTCCGTCAGGCG**GCGC**GGAACACGG) - insertion of GC relative to WT

N. meningitidis *pgIP* ORF-disrupting polymorphisms / SNVs and CREE insertions (coding strand):

fs25 (ACGGGAT**TTTTTTT**CAAAAT) - deletion of T (8T to 7T) relative to WT

fs60 (CCTGACCGG**CCTT**ACGGTTT) - deletion of C (3C to 2C) relative to WT

CREE67 (GACCCTTACGGTTTTGCAAA**ATATAGTGGATTAA**) - CREE sequence + AT

fs195 (ATGGCAGTACCT**CCCCC**AAACATA) - insertion of C (4C to 5C) relative to WT

fs211 (CAAAGAG**AAAAAAAAA**CAACAAACCG) - insertion of A (7A to 8A) relative to WT

CREEstop (GCAATCGCAGAATACGGTAAGAAAATACCGGTGAA**ATATAGTGGATTAA**CAAAAATCAG
GACAAGGCAAC) – CREE sequence + AT