

S3 Table

Pgl protein / gene sequences used in iterative BLASTP and BLASTN queries

<i>pgl</i> gene	function*	<i>N. gonorrhoeae</i> (FA1090)	<i>N. elongata</i> sp. <i>glycolytica</i> (ATCC 29315)	PubMLST locus designation
<i>pglF</i>	und-PP-glycan flippase	Q5FAD8 ngo0088	<u>D4DSY1</u> Nelon_11115	NEIS0402
<i>pglG</i>	glycosyltransferase	Q5FAD9 ngo0087	<u>D4DNG4</u> Nelon_10535	NEIS0401
<i>pglH</i>	glycosyltransferase	Q5FAE0 ngo0086	A0A0B5CSK6 Nelon_10545	NEIS0400
<i>pglB</i>	N-acetyltransferase / phosphoglycosyl transferase	Q5FAE1 ngo0085	D4DQH0/D4D QH1# Nelon_10565/ Nelon_10570#	NEIS2839/ NEIS2840
<i>pglC</i>	aminotransferase	Q5FAE2 ngo0084	D4DQH2 Nelon_10575	NEIS0379
<i>pglD</i>	NAD ⁺ -dependent dehydratase	Q5FAE3 ngo0083	A0A0B5CN10 Nelon_02985	NEIS0396
<i>pglA</i>	glycosyltransferase	Q5F602 ngo1765	-	NEIS0213
<i>pglE</i>	glycosyltransferase	Q5FA27 ngo0207	-	NEIS0568
<i>pglP</i>	glycosyltransferase	pseudogene	D4DSY2 Nelon_11110	NEIS2841
<i>pglJ</i>	UDP-GlcNAc(3NAc)A biosynthesis – 1 st step C6-oxidase	-	A0A0B5CJR7 Nelon_10580	NEIS2842
<i>pglK</i>	UDP-GlcNAc(3NAc)A biosynthesis – 2 nd step C3-dehydrogenase	-	D4DQH5 Nelon_10585	NEIS2843
<i>pglM</i>	UDP-GlcNAc(3NAc)A biosynthesis – 3 rd step aminotransferase	-	A0A0B5CHH6 Nelon_05890	NEIS2844
<i>pglN</i>	UDP-GlcNAc(3NAc)A biosynthesis – 4 th step acetyltransferase	-	D4DNJ5 Nelon_05885	NEIS2845
<i>pglB2</i>	glyceramidotransferase / phosphoglycosyl transferase	Q93TW2 <i>N. meningitidis</i> 053442	-	NEIS2838
Δ <i>pglG/H</i>	conserved deletion <i>pglG</i> 3' / <i>pglH</i> 5'	NA	NA	NEIS2473

- gene not present

* see Fig. 2 for details

two (split) - ORF configuration