

Table S2. SNPs identified through genome wide comparisons of wildtype *S. pyogenes* MGAS8232 and $\Delta hasA$ strains

Gene	Locus	Protein	Gene length (bp)	Codon number	Reference nucleotide	Competing nucleotide	Nucleotide in codon	Amino acid change
pstI ^a	spyM18_1384	AAL97979.1	1734	194	A	T	1	L > F
pstI ^a	spyM18_1384	AAL97979.1	1734	306	C	T	2	S > F

^a cytosolic enzyme I in the phosphoenolpyruvate-protein phosphotransferase system