**Strains and Primers Table**

**Table 1. Bacterial strains and plasmids**

|  |  |  |
| --- | --- | --- |
| **Bacterial strain or plasmid** | **Relevant genotype/description** | **Reference** |
| HSC5/WT | Wild type | 30 |
| JRS4/WT | Wild type | 66 |
| SLO-/SLO1 | JRS4 mutant with insertional inactivation of SLO | 65 |
| SLS-/SagH | HSC5 mutant with *sagH* disruption created by pATL28 | This paper |
| emm | HSC5 mutant with the M protein gene (*emm*) disruption created by pSPC18::’*emm*’ | 10 |
| pSPC18 | pUC18-based suicide vector containing *aad9* (spectinomycin resistance gene from *Enterococcus faecalis*) used to make insertional disruptions of *S. pyogenes* genes | 49 |
| pATL28 | pSPC18 containing a 1.1 kb internal fragment of *sagH* generated by PCR with the primers of sagH disruption up and sag H disruption down | This paper |

**Table 2. Primers Used**

|  |  |
| --- | --- |
| **Name** | **Sequencea** |
| Mutagenesis |  |
| sagH disruption up | AAACGCGGATCCGATGATCGTTATTTTAAGTTTTGCC |
| sagH disruption down | AAACGCGAGCTCCCCATTTAATAGGAGATATATTCGAC |
| Real Time RT-PCR |  |
| sagH check up | GCGAGATTAGACATAACCATTTG |
| sagH check down | GCGCTTTATCTTAACAAATAGAG |

**a**Restriction enzyme sites incorporated into the primers for cloning were underlined