



**Supplementary fig. 1.** DNA microarray analysis highlighting the core genome of the non-M1 GAS strains used in this study. Heat map generated from an oligonucleotide microarray with probes representing M1 core ORFeome in addition to ORFs representing various M1, M3, M18, and *S. dysgalactiae* subsp. *equisimilis* prophages (phage, and corresponding genes, are indicated; see Supplementary table 1). Strains under examination are designated at the top of each column. Red indicates gene present, based on median-normalised fluorescence units exceeding a threshold value, and black indicates gene absent.