

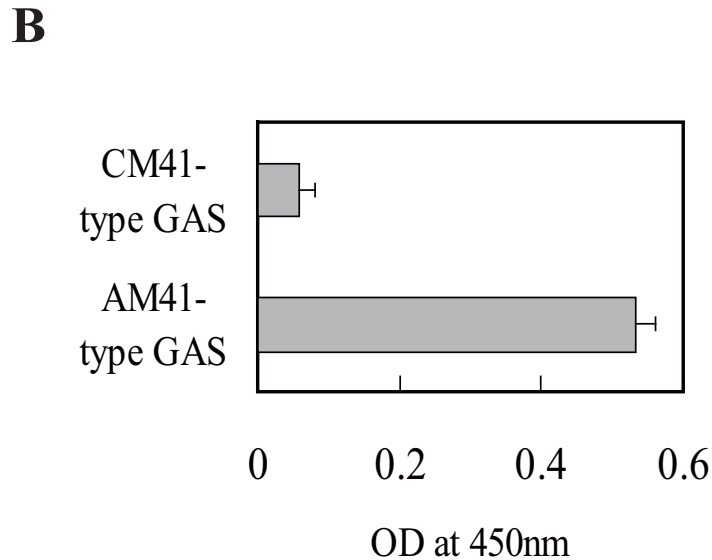
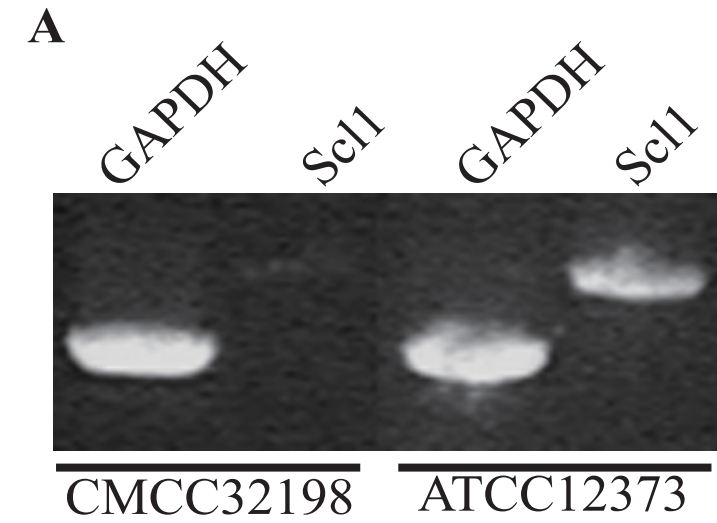


Figure S1. Expression of *Scf1* in GAS and its binding to LDL.

A. Quantification of mRNA encoding for *Scf1* by RT-PCR. The mRNA encoding glyceraldehyde 3-phosphate dehydrogenase (*GAPDH*) was used as a reference. GAS cultures (10 ml) were grown in THY medium to mid-log phase ($OD_{600} = \sim 0.5$), and cell pellets were re-suspended in 500 μ l of TE buffer [10 mM Tris (pH 7.0), 1 mM EDTA] and treated with 30 μ l of mutanolysin (1 mg/ml) at 37°C for 5 min. 1ml of RNAiso Plus Total RNA extraction reagent (TaKaRa, Japan) was added into the above suspension and total RNA was extracted following the manufactory instruction. RNA-directed DNA synthesis was conducted with PrimeScript™ II 1st strand cDNA Sythesis Kit (TaKaRa, Japan) using random hexamerprimers. We amplified *scf1* using the following primers: forward primer (F), CTCCACAAAAGAGTGATCAGTC; reverse (R), TTAGTTGTTTTCTTTGCGTTT, and amplified glyceraldehyde-3-phosphate dehydrogenase (*GAPDH*) using the following specific primers: F, ATGGTAGGTCTCAGCGCTTGATTTTCATAAGGAGGAAATCACT; R, ATGGTAGGTCTCATATCATTTAGCAATTTTTCGGAAGTACTCA.

B. Binding assay between LDL and M41 Streptococcal cells. Plate was coated with cells (CM41 and AM41-type GAS), incubated with human LDL after washing three times with TBST (Tris-buffered saline supplemented with 0.05% Tween 20, pH 7.4). The bound LDL was detected with goat anti-LDL antibody (Sigma, USA) followed with HRP-conjugated donkey anti-goat (BD Biosciences) secondary antibody.