

Gene	Annotation	Classification	Uniprot or gene ID
pfbA	Plasminand fibronectin-binding protein A	Adherence	Q8CYC9
lmb/AdcAll	Laminin-binding protein	Adherence	Q8DQ09
pavA	Pneumococcal adherence and virulence factor A	Adherence	Q8DQ36
pitA	Minor pilin PitA	Adherence	G6J811
pitB	Minor pilin PitB	Adherence	B3FNV5
plr/gapA	Streptococcal plasmin receptor/GAPDH	Adherence	Q8CWN6
sirA	Streptococcal lipoprotein rotamase A	Adherence	NP_345269
srtA	Sortase A	Adherence	Q8DPM3
srtG1	Sortase G1	Adherence	B3FNT5
cbpD	Choline binding proteine D	Adherence	Q9KGZ2
cbpG	Choline binding proteine G	Adherence	Q8DR40
cbpE/pce	Choline binding proteine E	Adherence	Q8CWU2
cps2A	Integral membrane regulatory protein Cps2A	Adherence	Q9ZII9
lytA	Autolysin	Adherence	P06653
lytC	Lysozyme	Adherence	Q8DP07
lytB	murein hydrolase	Adherence	P59206
nanB	Neuraminidase B	Enzyme	Q54727
eno	Streptococcal enolase	Enzyme	Q54873
hysA/Hyl	Hyaluronidase	Enzyme	Q97QS2
nanA	Neuraminidase A	Enzyme	P62575
sipA	Surface immunogenic protein	Immunoreactive antigen	U5LJR8
piaA	Pneumococcal iron acquisition	Manganese uptake	Q8DPY6
piuA	Pneumococcal iron uptake	Manganese uptake	NP_346304
psaA	Pneumococcal surface antigen A / Metal binding protein Sk	Manganese uptake	P0A4G3
cppA	C3-degrading protease	protease	Q8DP81
htrA/degP	Serine protease	protease	M5JZR5
iga	IgA1 protease	Protease	Q59947
tig/ropA	Trigger factor	Protease	Q8DR29
ply	Pneumolysin	Toxin	Q7ZAK5