

Table S1. Bacterial strains used in this study

Strain	Description	Source or reference
<i>P. gingivalis</i>		
ATCC 33277	Wild type	ATCC
GAI-7802	Wild type	Gift from E. Hoshino
HG66	Naturally non-pigmented strain	Gift from J. Potempa
KDP107	33277 <i>porR</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2002
KDP117	33277 <i>porT</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2005
KDP129	33277 <i>kgp</i> ::Cm <sup>r</sup>	Shi <i>et al</i> 1999
KDP131	33277 <i>rgpA</i> ::Em <sup>r</sup>	Shi <i>et al</i> 1999
KDP132	33277 <i>rgpB</i> ::Tc <sup>r</sup>	Shi <i>et al</i> 1999
KDP133	33277 <i>rgpA</i> ::Em <sup>r</sup> <i>rgpB</i> ::Tc <sup>r</sup>	Shi <i>et al</i> 1999
KDP134	33277 <i>rgpA</i> ::Em <sup>r</sup> <i>kgp</i> ::Cm <sup>r</sup>	Shi <i>et al</i> 1999
KDP135	33277 <i>rgpB</i> ::Tc <sup>r</sup> <i>kgp</i> ::Cm <sup>r</sup>	Shi <i>et al</i> 1999
KDP136	33277 <i>kgp</i> ::Cm <sup>r</sup> <i>rgpA</i> ::Em <sup>r</sup> <i>rgpB</i> ::Tc <sup>r</sup>	Shi <i>et al</i> 1999
KDP200	33277 <i>PGN_0242</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2011
KDP201	33277 <i>PGN_0663</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2011
KDP202	33277 <i>vimA</i> ::Tc <sup>r</sup>	Shoji <i>et al</i> 2011
KDP203	33277 <i>waaL</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2011
KDP204	33277 <i>wzy</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2011
KDP206	33277 <i>wzzP</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2013
KDP354	33277 <i>porP</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP355	33277 <i>porK</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP356	33277 <i>porL</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP357	33277 <i>porM</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP358	33277 <i>porN</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP359	33277 <i>porW</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP360	33277 <i>porU</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP361	33277 <i>porV</i> ::Em <sup>r</sup>	Shoji <i>et al</i> 2011
KDP362	33277 <i>porQ</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP365	33277 <i>sov</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2010
KDP400	33277 <i>gtfB</i> ::Em <sup>r</sup>	Yamaguchi <i>et al</i> 2010
KDP600	33277 <i>pepK</i> ::Em <sup>r</sup>	This study
KDP601	33277 <i>kgp</i> ::Cm <sup>r</sup> <i>pepK</i> ::Em <sup>r</sup>	This study
KDP981	33277 <i>kgp</i> ::Cm <sup>r</sup> <i>rgpA</i> ::Ap <sup>r</sup> <i>rgpB</i> ::Tc <sup>r</sup>	Sato <i>et al</i> 2013
Prfa1	33277 <i>rfa</i> ::Em <sup>r</sup>	Sato <i>et al</i> 2009
SU63	Wild type	Gift from M. Yoneda
TDC60	Wild type	Gift from K. Ishihara
TDC117	Wild type	Gift from K. Ishihara
TDC275	Wild type	Gift from K. Ishihara
W83	Wild type	Gift from M. J. Duncan
<i>E.coli</i>		
BL21(DE3)	Host strain for production of recombinant proteins	Wako
S17-1	RP-4-2-Tc::Mu <i>aph</i> ::Tn7 <i>recA</i> , Sm <sup>r</sup>	Simon <i>et al</i> 1983
XL-1Blue	General purpose host strain for cloning	Stratagene

Table S2. Plasmids used in this study

Plasmid	Description	Source or reference
pBluescript II SK(-)	Ap <sup>r</sup> , cloning vector	Stratagene
pET32b	Ap <sup>r</sup> , expression vector	Novagen
pGEM-T easy	Ap <sup>r</sup> , cloning vector	Promega
pKD600	Ap <sup>r</sup> , pBSSK-N1416up- <i>ermF</i> -N1416dw	This study
pKD601	Ap <sup>r</sup> , pET32b-PGN_1416[D <sup>461</sup> -A <sup>860</sup> ]	This study

Table S3. Oligonucleotides used in this study

Oligonucleotide	Sequence (5'-3')
1416DOFOR	<u>CCATGG</u> CGGACATCTATCTGGATCCCCAAA
1416DOREV	AAGCTT <u>AGCAACGCC</u> ATTCGAAATACCCGA
N1416-UF	<u>AAGCTT</u> GACAGAGATCTCCCGTAATGCTTG
N1416-UR	<u>GGATCC</u> ACGAAGGCAGCCAGTCCTGACTGC
N1416-DF	<u>GGATCC</u> ATCTGTCACTTATTTCGGTTTC
N1416-DR	GAGATCGCATGAAGCACTCCTTTCTTCGTC

Restriction sites for subcloning in oligonucleotides are underlined.