

Table S1. Bacterial strains or plasmids used in this study

Strain or plasmid	Description	Source or reference
<b>Strains</b>		
<i>P. gingivalis</i>		
33277	Wild type parental strain from ATCC	Lab stock
$\Delta cdhR$	<i>cdhR::ermF</i> (CdhR <sup>-</sup> Em <sup>r</sup> )	(Wu <i>et al.</i> , 2009)
C $\Delta cdhR$	<i>cdhR::ermF</i> pT1373 (CdhR <sup>+</sup> Em <sup>r</sup> Tc <sup>r</sup> )	This study
$\Delta ltp1$	<i>ltp1::ermF</i> (Ltp1 <sup>-</sup> Em <sup>r</sup> )	(Simionato <i>et al.</i> , 2006)
$\Delta luxS$	<i>luxS::ermF</i> (LuxS <sup>-</sup> Em <sup>r</sup> )	(James <i>et al.</i> , 2006)
SMF1	<i>mfa::ermF</i> (Mfa <sup>-</sup> Em <sup>r</sup> )	(Park <i>et al.</i> , 2005)
<i>S. gordonii</i>		
DL1	Wild type	Lab stock
<i>S. cristatus</i>		
CC5A	Wild type	Lab stock
<i>E. coli</i>		
J53	K12 F <sup>-</sup> met <sup>-</sup> pro <sup>-</sup>	
TOP10	F <sup>-</sup> mcrA $\Delta$ (mrr-hsdRMS-mcrBC) $\phi$ 80lacZ $\Delta$ M15 $\Delta$ lacX74 nupG recA1 araD139 $\Delta$ (ara-leu)7697 galE15 galK16 rpsL(Str <sup>R</sup> ) endA1 $\lambda$ <sup>-</sup>	Invitrogen
BL21 (DE3)	F <sup>-</sup> ompT gal dcm lon hsdS <sub>B</sub> (r <sub>B</sub> <sup>-</sup> m <sub>B</sub> <sup>-</sup> ) $\lambda$ (DE3 [lacI lacUV5-T7 gene 1 ind1 sam7 nin5])	Novagen

Plasmids

pTCOW	Circular shuttle plasmid derived from (Gardner <i>et al.</i> , 1996) pVAL1, Tet <sup>r</sup>	
pT1373	<i>cdhR</i> in pTCOW	This study
pET30b	Circular plasmid carrying an N-terminal His tag/thrombin/enterokinase configuration plus an optional C-terminal His tag sequence, Km <sup>r</sup>	Novagen
pCR4-TOPO	Linearized plasmid with single 3' deoxyribosylthymine residues, Km <sup>r</sup> Am <sup>r</sup>	Invitrogen
pET30b-1373	<i>cdhR</i> in pET30b	This study

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Table S2. Primers for PCR

Name	Sequence
1372-3f	5'-GCTAGCTTGCTTTAAGTTAGTTGGATTCATTAA-3'
1372-3r	5'-GCGGCGTCCTCATCGATCTCACCGCTCGGCCG-3'
1372f	5'-GCTAAGTGACTTGATATGCGAGAATTACGA-3'
1371f	5'-TAAAATTCGCTGCAAAAGTATGGATTATTC-3'
1373r	5'-GCTCTTCGGCAATCTCTTTG-3'
MFAf	5'-TGCGGCGAAGTCGTAATG-3'
MFAr	5'-ATCTTCAGCACTCTCACAAG-3'
LUXf	5'-GAATGAAAGAGCCCAATCG-3'
LUXr	5'-GTAATGGCCTCGCATCAG-3'
LTPf	5'-TTCAGCAGTAGCGGTATTCACG-3'
LTPr	5'-TGCGGATAGGGAGGAGTTGTC-3'
CDHf	5'-AAGACCTTGGAGCCTGAAGAG-3'
CDHr	5'-TCATGATGGCATAGATGGTCA-3'
16Sf	5'-AGGAACTCCGATTGCGAAGG-3'
16Sr	5'-TCGTTTACTGCGTGGACTACC-3'
CDHO	5'-TTCGTAGCTCATGTGCTTGC GTA-3'
CDHI	5'-GACAGATCTGACAAGACAGTCTCGGA-3'
RDCf	5'-CAGTCGATATCCATGAATATCATCACACTCAAGG-3'
RCDr	5'-CAGTCAAGCTTTTAGTGGGCGATTTCGTCGA-3'
EMFf	5'-TACAAGCTGTTTCAGGTGAAGT-3'
EMFr	5'-AAGCCAAATGTTTAAAAGGATTAA-3'
ELUf	5'-AGTCCGGTACAATACCGACTCTTTCT-3'
ELUr	5'-TGCTGTACGGCTTCTATTCTTCGATC-3'
FETf	5'-ACTCGCCACATCGCATCGTTTCGC-3'
FETr	5'-CTCTGTTCTTAAATTAATTTGTGA-3'

## References

- Gardner, R.G., Russell, J.B., Wilson, D.B., Wang, G.R., and Shoemaker, N.B. (1996) Use of a modified *Bacteroides-Prevotella* shuttle vector to transfer a reconstructed beta-1,4-D-endoglucanase gene into *Bacteroides uniformis* and *Prevotella ruminicola* B(1)4. *Appl Environ Microbiol* **62**: 196-202.
- James, C.E., Hasegawa, Y., Park, Y., Yeung, V., Tribble, G.D., Kuboniwa, M., *et al.* (2006) LuxS involvement in the regulation of genes coding for hemin and iron acquisition systems in *Porphyromonas gingivalis*. *Infect Immun* **74**: 3834-3844.
- Park, Y., Simionato, M.R., Sekiya, K., Murakami, Y., James, D., Chen, W., *et al.* (2005) Short fimbriae of *Porphyromonas gingivalis* and their role in coadhesion with *Streptococcus gordonii*. *Infect Immun* **73**: 3983-3989.
- Simionato, M.R., Tucker, C.M., Kuboniwa, M., Lamont, G., Demuth, D.R., Tribble, G.D., and Lamont, R.J. (2006) *Porphyromonas gingivalis* genes involved in community development with *Streptococcus gordonii*. *Infect Immun* **74**: 6419-6428.
- Wu, J., Lin, X., and Xie, H. (2009) Regulation of hemin binding proteins by a novel transcriptional activator in *Porphyromonas gingivalis*. *J Bacteriol* **191**: 115-122.