

Table S1. Primers used in this study

Primer name	DNA sequence	Gene	Description	References
F1_PG1573_mut	5'GGAGAACTCCGACGGGTG 3'	PGA7_00004090 (<i>pgrsp</i>)	Amplify DNA fragments; including sequences flanking the <i>pgrsp</i> gene, as well as <i>ermF</i> cassette for construction of TO11 mutant strain.	This study
R1_PG1573_mut	5'CGCATAACGGCTGGCCACAAGCTCAGGCGAAGAG 3'			
F3_PG1573_mut	5'GAGACAACCGCGGTGCCGAACTCGTGGAGGGTA 3'			
R3_PG1573_mut	5'TGCCGATAGCTTGTTTCATCG 3'			
F2_PG1573_mut	5'CTTCGCCTGAGCTTGTGGCCAGCCGTTATGCGGCAG 3'	<i>ermF</i>		
R2_PG1573_mut	5'CCTCCACGAGTTCGGCACCGCGGTTGTCTCTCTTTC 3'			
F_PG1573_cmpl	5'GATCCTCGAGCTTCCAATACACGGGGAAATTCAC 3'	PGA7_00004090 (<i>pgrsp</i>)	Amplify DNA fragment of <i>pgrsp</i> gene, including promoter sequence. Used for cloning into pTIO-tetQ plasmid.	This study
R_PG1573_cmpl	5'GATCGGATCCTTACATAAAGGTGATTTTGTTCGCC 3'			
F_PG1573_MBP	5'CTCGGGATCGAGGGAAGGATGAAGCAGATAGAAGATATATCCG 3'	PGA7_00004090 (<i>pgrsp</i>)	Amplify DNA fragment of <i>pgrsp</i> gene used for cloning into pMAL_c5x_His plasmid.	This study
R_PG1573_MBP	5'CCTGCAGGGAATTCGGATCCTCACATAAGGGTGATTTTGTTACG 3'			
F_PgRsp_C76A	5'ACTATATCAAGGCAGGCGAAAGCGCTATCATGTCTTTTCTTGGG 3'	<i>pgrsp</i> C76A	Primers used to introduce point mutations in the sequence encoding PgRsp protein, cloned into pMAL_c5x_His plasmid.	This study
R_PgRsp_C76A	5'CCCAAGAAAAGACATGATAGCGCTTTCGCCTGCCTTGATATAGT 3'			
F_PgRsp_M78A	5'AAGGCAGGCGAAAGCTGTATCGCGTCTTTTCTTGGGGGCCTGCAC 3'	<i>pgrsp</i> M78A		
R_PgRsp_M78A	5'GTGCAGGCCCCCAAGAAAAGACGCGATACAGCTTTCGCCTGCCTT 3'			
F_PgRsp_H85A	5'CTTTTCTTGGGGGCCTGGCCAATGAGACAAGCAAGGTGAAGG 3'	<i>pgrsp</i> H85A		
R_PgRsp_H85A	5'CCTTCACCTTGCTTGCTCATTGGCCAGGCCCCCAAGAAAAG 3'			
rtFUR6F	5'TTCTGCGTTTGCTTCTCCC 3'	PGA7_00014570 (<i>pgfur</i>)	Amplify DNA fragment of the gene in RT-qPCR.	[13]
rtFUR6R	5'TGAGATCCTTGTCGGCCAGT 3'			
16SrRNA-F	5'GCTTCGAAATACGAAACGTG 3'	PGA7_00000960 (16S rRNA)	Amplify DNA fragment of the gene in RT-qPCR.	[S1]
16SrRNA-R	5'TATATCCGTCTGTCGGAACG 3'			
HYq4_F	5'CTTGACTTCAGTGGCGGCAG 3'	PGA7_00004270 (<i>hmuY</i>)		
HYq4_R	5'AGGGAAGACGGTTTTCACCA 3'			
F_PG1573	5'TTTGAATGAGGGCCAGTAGG 3'	PGA7_00004090 (<i>pgrsp</i>)	Amplify DNA fragment of the gene in RT-qPCR.	[16]
R_PG1573	5'AAGGTGGAGATCGAAGACGA 3'			
F_PG0270	5'GTTGGACGAAGGTCATTGCT 3'	PGA7_00002460 (<i>oxyR</i>)		
R_PG0270	5'TGCTCTACGGTCAGTTGTGG 3'			
F_PG0506	5'AATGATAAGCCTTATACTGTAGCTG 3'	PGA7_00014250 (<i>rgpB</i>)		
R_PG0506	5'GTTTGTGCTTCGAATACCATGC 3'			
F_PG0553	5'GAGGGACTTTGCCTGACATC 3'	PGA7_00013810		
R_PG0553	5'GCACCACACCGTTCTTCTCT 3'			
F_PG2024	5'GGACAAGGACCGACGAAAG 3'	PGA7_00018890 (<i>rgpA</i>)		
R_PG2024	5'TATAGGTGTAATCGCTTCCACC 3'			

F_PG1844	5'GAGTGTGGGTGCTAATGCCG 3'	PGA7_00017110	
R_PG1844	5'CACCAATATGGGTAATATTGCCG 3'	(kcp)	
F_sod	5'GCCGAATTGTTTGTCTGATAG 3'	PGA7_00004330	Amplify DNA fragment of the gene in This study RT-qPCR.
R_sod	5'AATCCACCACGGTAAGCACC 3'	(sod)	
F_fimA	5'CTATCCTGGTGGGACTGCATC 3'	PGA7_00019920	
R_fimA	5'ACCAAAGAATTGCCGAAAATC 3'	(fimA)	
F_bcp	5'TGAGACGCACTTCCTCATCC 3'	PGA7_00010740	
R_bcp	5'TATCGCGGACGAAAGATCGC 3'	(bcp)	
F_ahpC	5'CTACGCTGTTGTCGTTTCAGC 3'	PGA7_00013260	
R_ahpC	5'TTGCGATACCCACTTCGTAC 3'	(ahpC)	
F_dps	5'GAGCGTATCCTCCAACCTGG 3'	PGA7_00000850	
R_dps	5'AATCCACCGTTACCTCATCG 3'	(pgdps)	
F_tpx	5'CGCCGTTTCAATCAGGAAGC 3'	PGA7_00002640	
R_tpx	5'GCCAAGAGACCTTCAAAGGG 3'	(tpx)	
F_rbr	5'GCCGTATTTTCGTCAGATAGC 3'	PGA7_00001850	
R_rbr	5'TTCATTGGCTCGAAGTAAGCC 3'	(rbr)	
F_primer	5'ATGCAACGCATTGCCG 3'	PGA7_00002300	Amplify DNA fragment of the gene in [S2] RT-qPCR.
R_primer	5'TGCATTGGCTTCGCC 3'	(ustA)	
F_hmu_EMSA	5'CGGAATAATCGGCTGATACAC 3'	PGA7_00004270	Amplify DNA fragments of the genes used [16] as probes in EMSA; forward primers were used with or without biotin attached to the 5' end.
R_hmu_EMSA	5'TAGAGACACAATCAATGGCAATG 3'	(hmuY)	
F_bcp_EMSA	5'TCATGAGCTTTAGATGTACGTTAG 3'	PGA7_00010740	Amplify DNA fragments of the genes used This study as probes in EMSA; forward primers were used with or without biotin attached to the 5' end.
R_bcp_EMSA	5'TCAGGAATACGGTCTCCTATTTGT 3'	(bcp)	
F_PgRsp_EMSA	5'GACTGCTGTGCTTATACTTGAAAAAC 3'	PGA7_00004090	
R_PgRsp_EMSA	5'AGGATGCCATGCTTATACAGTTTG 3'	(pgrsp)	

- S1. Gmiterek, A., Wójtowicz, H., Mackiewicz, P., Radwan-Oczko, M., Kantorowicz, M., Chomyszyn-Gajewska, M., Frąszczak, M., Bielecki, M., Olczak, M., Olczak, T. The unique hmuY gene sequence as a specific marker of *Porphyromonas gingivalis*. *PLoS One*. **2013** 2;8(7):e67719. doi: 10.1371/journal.pone.0067719.
- S2. Boutrin, M.C., Wang, C., Aruni, W., Li, X., Fletcher, H.M. Nitric oxide stress resistance in *Porphyromonas gingivalis* is mediated by a putative hydroxylamine reductase. *J Bacteriol*. **2012** 194(6):1582-92. doi: 10.1128/JB.06457-11.