

Table S1. Proteins identified in *P. gingivalis* vesicles by mass spectrometer.

	Protein description	
33277 [1, 2]	W50 [3]	W83 [2]
Lys-gingipain, Kgp	TPR domain protein, P61	Lipoprotein, RagA
Arg-gingipain, RgpA	thioredoxin family protein	Hemagglutinin protein, HagE
Receptor antigen A, RagA	hypothetical protein PG1093	Lipoprotein, RagB
	hypothetical protein PG1215	Uncharacterized protein, PG_0027
Arg-gingipain, RgpB		Gingipain, RgpB
Major fimbrial subunit protein type-1, FimA	hypothetical protein PG1341	
Probable peptidylarginine deiminase, PGN_0898	hypothetical protein PG1351	Hemagglutinin A, HagA
	HmuY protein	Immunoreactive 61 kDa antigen, PG_2102
Receptor antigen B, RagB		Uncharacterized protein, PG_1823
Por secretion system protein, PorV	carboxyl-terminal protease-related protein lipoprotein, putative	Peptidylarginine deiminase, PG_1424
Mfa1 fimbriin, Mfa1	hypothetical protein PG1757	Uncharacterized protein, PG_2106
Hemagglutinin protein, HagA		Uncharacterized protein, PG_1881
Putative uncharacterized protein, PGN_0154	hypothetical protein PG1835	Putative extracellular protease, PG_0553
Putative uncharacterized protein, PGN_0335	hypothetical protein PG1881	Lipoprotein, putative, PG_2105
Immunoreactive 61 kDa antigen, PGN_0152	hypothetical protein PG1889	Heme-binding protein, FetB
Probable immunoreactive 23 kDa antigen, PGN_0482	hypothetical protein PG1948	
Putative uncharacterized protein, PGN_1744	lipoprotein PG3	Uncharacterized protein, PG_1626
35 kDa hemin binding protein, PGN_0659	hypothetical protein PG2105	Outer membrane protein 40, PG_0694
Putative uncharacterized protein, PGN_0693	peptidyl-prolyl cis-trans isomerase	Outer membrane protein 41, PG_0695
Putative uncharacterized protein, PGN_0458	outer membrane lipoprotein Omp28	Uncharacterized protein, PG_0448
Putative uncharacterized protein, PGN_0289	conserved hypothetical protein PG2197	HtrA protein
Immunoreactive 47 kDa antigen, PGN_0852	fimbriin	Immunoreactive 47 kDa antigen, PG_1374
Putative uncharacterized protein, PGN_0477	cationic outer membrane protein OmpH	Uncharacterized protein, PG_1889
Immunoreactive 46 kDa antigen, PGN_1767	cationic outer membrane protein OmpH	TPR domain protein, PG_1385
NAD-specific glutamate dehydrogenase, Gdh	peptidase, M16 family	Uncharacterized protein, PG_1795

Putative uncharacterized protein, PGN_0795	thioredoxin	PDZ domain protein, PG_1726
Putative uncharacterized protein, PGN_1557	hypothetical protein PG0319	Uncharacterized protein, PG_0409
Trypsin like proteinase, PrtT	TPR domain protein	Outer membrane lipoprotein, Omp28
Putative uncharacterized protein, PGN_2080	conserved hypothetical protein PG0491	TonB-dependent receptor, putative, PG_0707
Putative uncharacterized protein, PGN_0156	hypothetical protein PG0613	Uncharacterized protein, PG_0026
Putative uncharacterized protein, PGN_1611	hypothetical protein PG0698	Uncharacterized protein, PG_2216
Probable lysyl endopeptidase, PGN_1416	peptidyl-prolyl cis-trans isomerase	Zinc carboxypeptidase, putative, PG_0232
Immunoreactive 32 kDa antigen, PGN_0290	prolyl oligopeptidase family protein	Prolyl oligopeptidase family protein, PG_1004
Putative uncharacterized protein, PGN_0123	flavodoxin, putative	Lipoprotein, putative, PG_1835
C-terminal domain of Arg-and Lys-gingipain proteinase, PGN_0295	peptidyl-prolyl cis-trans isomerase	Uncharacterized protein, PG_0602
Putative uncharacterized protein, PGN_1816	conserved hypothetical protein PG1283	HmuY protein
Thiol protease, PGN_0900	conserved domain protein PG1313	TPR domain protein, PG_1028
Putative uncharacterized protein, PGN_0129	TPR domain protein	Lipoprotein, putative, PG_0188
Putative uncharacterized protein, PGN_0558	hypothetical protein PG1388	Uncharacterized protein, PG_1382
Outer membrane protein 41, PGN_0729	hypothetical protein PG1634	Glyceraldehyde 3-phosphate dehydrogenase, type I GapA
Putative uncharacterized protein, PGN_0291	PDZ domain protein	Ferritin, Ftn
Minor component, FimE	thiol peroxidase	NAD-specific glutamate dehydrogenase, Gdh
Minor component, FimD	fructose-bisphosphate aldolase	Thioredoxin, putative, PG_0616
28 kDa outer membrane protein Omp28, PGN_0122	cysteine peptidase, putative	Uncharacterized protein, PG_1786
Ferritin, PGN_0604	hypothetical protein PG1850	Uncharacterized protein, PG_2174
Outer membrane protein 40, PGN_0728	hypothetical protein PG2083	Peptidase, M16 family, PG_0196
Immunoreactive 23 kDa antigen, PGN_0336	hypothetical protein PG2155	Peptidyl-prolyl cis-trans isomerase, PG_2164
Minor component, FimC	conserved hypothetical	Uncharacterized protein,

	protein PG2175	PG_0491
Immunoreactive 84 kDa antigen, PGN_0509	hypothetical protein PG2227	Uncharacterized protein, PG_1341
DNA protection during starvation protein, Dps	C-terminal signal peptidase, PorU	Uncharacterized protein, PG_2168
Por secretion system protein, PorQ	von Willebrand factor type A domain protein	Uncharacterized protein, PG_0654
	hypothetical protein PG0183	Uncharacterized protein, PG_0937
Heme-binding protein, FetB		
Putative uncharacterized protein, PGN_0288	zinc carboxypeptidase, CPG70	Uncharacterized protein, PG_0217
Putative uncharacterized protein, PGN_0296	internalin-related protein	DNA protection during starvation protein, Dps
Putative uncharacterized protein, PGN_0322	hemagglutinin, putative	Immunoreactive 84 kDa antigen, PG_1604
TonB-dependent receptor, PGN_0741	hypothetical protein PG0495	Uncharacterized protein, PG_2172
Putative uncharacterized protein, PGN_1735	arginine-specific cysteine proteinase, RgpB	Uncharacterized protein, PG_1093
Glyceraldehyde 3-phosphate dehydrogenase type I, PGN_0173	extracellular protease, putative	Uncharacterized protein, PG_0373
Putative uncharacterized protein, PGN_1808	hypothetical protein PG0611	Uncharacterized protein, PG_1634
Putative uncharacterized protein, PGN_1823	thioredoxin, putative, HBP35	Uncharacterized protein, PG_0083
Putative uncharacterized protein, PGN_0654	hypothetical protein PG0626	Cobyrinic acid A,C-diamide synthase, CbiA
FtsK/SpoIIIE family cell division protein, PGN_0487	hypothetical protein PG0654	Uncharacterized protein, PG_1030
TonB-linked receptor, Tlr, PGN_0683	hypothetical protein PG1030	TonB-dependent receptor, PG_0668
Putative uncharacterized protein, PGN_0471	immunoreactive antigen PG97, internalin	Phosphoserine aminotransferase, SerC
Putative uncharacterized protein, PGN_1010	peptidylarginine deiminase	Uncharacterized protein, PG_1621
Putative uncharacterized protein, PGN_0860	thiol protease/hemagglutinin PrtT precursor	Uncharacterized protein, PG_0218
Putative uncharacterized protein, PGN_1129	thiol protease/hemagglutinin PrtT precursor	TPR domain protein, PG_1651
Putative uncharacterized protein, PGN_1514	immunoreactive 84 kDa antigen PG93	Putative cysteine peptidase, PG_1788
Putative heat shock-related protease, HtrA	hypothetical protein, P27 PG1795	PorT protein
	immunoreactive 46 kDa antigen PG99	TPR domain protein, PG_0449
	hemagglutinin protein HagA	Thiol protease/hemagglutinin

PrtT, PG_1427

lysine-specific cysteine
proteinase, Kgp
hypothetical protein PG1969
arginine-specific cysteine
proteinase, RgpA
immunoreactive 63 kDa
antigen
immunoreactive antigen
PG91, P59, TapA
hypothetical protein PG2172
immunoreactive 32 kDa
antigen PG25
hypothetical protein PG2216
hypothetical protein PG0031
N-acetylmuramoyl-L-alanine
amidase
hypothetical protein PG0140
hypothetical protein PG0216
hypothetical protein PG0291
hypothetical protein PG0419
hypothetical protein PG0421
hypothetical protein PG0569
hypothetical protein PG0624
hypothetical protein PG1185
hypothetical protein PG1492
hypothetical protein PG1621
hypothetical protein PG1635
TPR domain protein
hypothetical protein PG2101
hypothetical protein PG0626
hypothetical protein PG0654
hypothetical protein PG1030
immunoreactive antigen
PG97, internalin
peptidylarginine deiminase
thiol protease/hemagglutinin
PrtT precursor
thiol protease/hemagglutinin
PrtT precursor
immunoreactive 84 kDa
antigen PG93
hypothetical protein, P27
PG1795

immunoreactive 46 kDa
antigen PG99
hemagglutinin protein HagA
lysine-specific cysteine
proteinase, Kgp
hypothetical protein PG1969
arginine-specific cysteine
proteinase, RgpA
immunoreactive 63 kDa
antigen
immunoreactive antigen
PG91, P59, TapA
hypothetical protein PG2172
immunoreactive 32 kDa
antigen PG25
hypothetical protein PG2216
hypothetical protein PG0031
N-acetylmuramoyl-L-alanine
amidase
hypothetical protein PG0140
hypothetical protein PG0216
hypothetical protein PG0291
hypothetical protein PG0419
hypothetical protein PG0421
hypothetical protein PG0569
hypothetical protein PG0624
hypothetical protein PG1185
hypothetical protein PG1492
hypothetical protein PG1621
hypothetical protein PG1635
TPR domain protein
hypothetical protein PG2101

References

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2. Mantri CK, Chen CH, Dong X *et al.*: Fimbriae-mediated outer membrane vesicle production and invasion of *Porphyromonas gingivalis*. *Microbiologyopen* 4(1), 53-65 (2015).
3. Veith PD, Chen YY, Gorasia DG *et al.*: *Porphyromonas gingivalis* Outer Membrane Vesicles Exclusively Contain Outer Membrane and Periplasmic Proteins and Carry a Cargo Enriched with Virulence Factors. *Journal of proteome research*, (2014).