

Proteins Unique to the Bacteroidales Order

Gupta, R.S. and Lorenzini, E. (2007) BMC Evol. Biol. (in press)

Genome ID No. [Accession No.]	Possible/Predicted Function	Genome ID No. [Accession No.]	Possible/Predicted Function
PG0018 [NP_904375] ^x	hypothetical protein	PG1133 [NP_905341]	conserved hypothetical protein
PG0082 [NP_904431] ⁺	putative exported protein	PG1139 [NP_905347]	conserved hypothetical protein; cd02966, Tlp_A_like_family
PG0125 [NP_904468]	conserved hypothetical protein	PG1214 [NP_905405]	hypothetical protein
PG0179 [NP_904515] ⁺	putative exported protein	PG1301 [NP_905475] ⁺	conserved hypothetical protein
PG0188 [NP_904523] ^x	lipoprotein, putative	PG1333 [NP_905502] ^x	putative exported protein
PG0216 [NP_904548] ⁺	conserved hypothetical exported protein	PG1352 [NP_905517]	putative conserved hypothetical protein
PG0217 [NP_904549] ⁺	cons. hypothetical exported protein	PG1388 [NP_905550] ⁺	conserved hypothetical protein
PG0218 [NP_904550] ⁺	conserved hypothetical exported protein	PG1441 [NP_905593] ^x	lysozyme-related protein; cd00737, endolysin_autolysin; COG3772, phage-related lysozyme
PG0246 [NP_904573] ⁺	putative DNA-binding protein	PG1442 [NP_905594]	TraB
PG0312 [NP_904628] ⁺	putative transmembrane protein	PG1458 [NP_905606] ^x	hypothetical protein
PG0326 [NP_904641]	hypoth; COG3637, Opacity protein & related surface antigens	PG1473 [NP_905619] ⁺	conjugative transposon protein TraQ
PG0366 [NP_904677] ^{##}	hypothetical protein	PG1621 [NP_905750]	conserved hypothetical exported protein
PG0434 [NP_904735] ⁺	putative transmembrane protein	PG1757 [NP_905859] ^x	hypothetical protein
PG0541 [NP_904834] ⁺	conserved hypothetical protein	PG1881 [NP_905968] ⁺	putative lipoprotein
PG0574 [NP_904862]	hypothetical protein	PG1889 [NP_905974] ^x	hypothetical protein
PG0717 [NP_904988] ⁺	lipoprotein, putative	PG1945 [NP_906027] ⁺	conserved hypothetical protein
PG0781 [NP_905043] ⁺	putative membrane protein	PG2006 [NP_906077] ⁺	conserved hypothetical membrane protein
PG0816 [NP_905074] ^x	hypothetical protein	PG2079 [NP_906141]	conserved hypothetical protein
PG0831 [NP_905085]	Cons. protein maybe related to TraB	PG2083 [NP_906145] ⁺	conserved hypothetical protein
PG0843 [NP_905095] ^x	conserved hypothetical protein	PG2116 [NP_906174] ^x	transposase
PG0851 [NP_905101]	Toprim domain protein	PG2130 [NP_906186]	FimX
PG0910 [NP_905150]	FHA domain protein, cd00060	PG2131 [NP_906187] ⁺	60 kDa protein; OmpA, COG2885.2
PG0937 [NP_905172]	putative exported protein	PG2133 [NP_906189] ^x	lipoprotein, putative
PG0961 [NP_905192] ⁺	conserved hypothetical protein	PG2149 [NP_906203]	putative conserved exported protein
PG1050 [NP_905267] ^x	putative lipoprotein	PG2168 [NP_906219] ⁺	FimX
PG1125 [NP_905334] ⁺	conserved hypothetical protein	PG2224 [NP_906265] ^x	hypothetical protein

All significant hits for these proteins are observed from the following *Bacteroidales* species, for which sequence information is available in the NCBI or TIGR microbial sequence database. *P. gingivalis* W83, *B. fragilis* NCTC 9343, *B. fragilis* YCH46, *B. thetaiotaomicron* VPI-5482, *Prevotella intermedia* 17, *P. ruminicola* 23. Unless noted below, these proteins are present in all of the above-mentioned species. Of these proteins, the following are homologous to each other: PG0179, PG2133; PG0217, PG0218; PG0816, PG1458; PG0831, PG1442; PG2130, PG2168.

⁺Not found at present in either 1 or both *Prevotella* species.

^xMissing in one of the *Bacteroides* species as well as *Prevotella* species.

[#]Also present was *C. phaeobacteroides* BS1.