

Proteins that are Specific for the Phylum Bacteroidetes

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Protein Name	Accession No.	Length	Possible/Predicted Function	Comments
PG0202	NP_904537	165	Uroporphyrinogen-III synthase HemD, putative; COG1587, HemD; pfam02602, HEM4	Missing in <i>S. ruber</i> [†]
PG0362	NP_904673	722	Hypothetical	Missing in <i>S. ruber</i>
PG0399	NP_904705	156	Putative lipoprotein	Missing in <i>S. ruber</i>
PG0448	NP_904748	434	Toluene X outer membrane/transport protein (OMPP1/FadL/TodX); pfam03349	All species present
PG0449	NP_904749	441	TPR domain protein; cd00189, TPR; COG3071, HemY; COG4783, Putative Zn-dependent protease	Not found in <i>F. johnsoniae</i> and <i>C. hutchinsonii</i>
PG0482	NP_904777	143	Hypothetical protein	Missing in <i>S. ruber</i>
PG0621	NP_904906	182	Hypothetical protein	Missing in <i>S. ruber</i>
PG0779	NP_905041	157	ExbD, Biopolymer transport protein; COG0848	Not found in <i>F. bacterium HTC</i> , <i>F. johnsoniae</i> and <i>C. hutchinsonii</i>
PG1281	NP_905462	387	Putative DNA mismatch repair protein; pfam01713, Smr; COG1193, Mismatch repair ATPase	Not found in <i>C. atlanticus</i> and <i>S. ruber</i> [†]
PG1367	NP_905532	200	Hypothetical protein	Missing in <i>S. ruber</i>
PG1394	NP_905555	165	Putative trans-membrane	Missing in <i>S. ruber</i>
PG1626	NP_905755	554	Putative hemin receptor	Missing in <i>C. hutchinsonii</i> ; also present in <i>C. phaeobacteroides</i> .
PG1679	NP_905797	464	Putative trans-membrane	Not found in <i>P. ruminicola</i> and <i>C. hutchinsonii</i>
PG1850	NP_905940	302	Hypothetical protein	Missing in <i>Bacteroides</i> species [†]
PG2066	NP_906128	351	Putative lipoprotein	Missing in <i>P. ruminicola</i> and <i>C. hutchinsonii</i>
PG2092	NP_906153	419	Hypothetical protein	Missing in <i>Bacteroides</i> species
BF0296	YP_097579	988	Outer membrane assembly protein	Missing in <i>P. gingivalis</i> and <i>S. ruber</i> [†]
BF0439	YP_097722	565	Putative outer membrane protein probably involved in nutrient binding	Missing in <i>P. gingivalis</i> , and <i>Tenacibaculum</i>
BF0534	YP_097817	192	Putative acetyl-transferase	Missing in <i>P. gingivalis</i> , <i>C. atlanticus</i> and <i>S. ruber</i>
BF0665	YP_097947	531	Putative exported protein	Missing in <i>P. gingivalis</i> , and <i>C. hutchinsonii</i>
BF0751	YP_098036	577	Putative exported protein	Missing in <i>P. gingivalis</i> , <i>P. torquis</i> , <i>R. biformata</i> and <i>C. hutchinsonii</i>
BF1057	YP_098341	506	Putative exported protein	Missing in <i>P. gingivalis</i> , and <i>C. hutchinsonii</i>
BF1254	YP_098538	507	Putative exported protein	Missing in <i>P. gingivalis</i> , and <i>C. hutchinsonii</i>
BF1327	YP_098610	514	Putative exported protein	Missing in <i>P. gingivalis</i> , and <i>C. hutchinsonii</i>
BF3185	YP_100464	490	Putative exported protein	Missing in <i>P. gingivalis</i> , and <i>C. hutchinsonii</i>
BF3612	YP_100889	542	Putative exported protein	Missing in <i>P. gingivalis</i> and <i>C. hutchinsonii</i>
BF4330	YP_101602	538	Putative exported protein	Missing in <i>P. gingivalis</i> , <i>R. biformata</i> and <i>C. hutchinsonii</i>

For the proteins listed here, all significant blast hits are from various *Bacteroidetes* species, except as noted below. These proteins are present in all of the *Bacteroidetes* species listed in Table 1, except as noted in the comments.

[†]For the protein PG0202, a significant hit is also observed from *C. phaeobacteroides*; For BF0296 significant hits also observed from *P. aestuarii* and *C. phaeobacteroides*.

Of the proteins listed here, the following proteins are homologous to each other: BF0751, BF1057, BF1327, BF3185; BF1254, BF3612, BF4330.