

**Table 9. Proteins specific for Particular Groups of Methanogens**  
Gao, B. and Gupta, R.S. BMC Genomics (2007) 8, 86.

**(a). Proteins specific to *Methanococcales***

Gene ID, Accession Number and possible function						
MMP0015	[NP_987135]		MMP0395	[NP_987515]	MMP1262	[NP_988382]
MMP0031	[NP_987151]		MMP0422	[NP_987542]	MMP1263	[NP_988383] CDD9511
MMP0032	[NP_987152]	CDD28974	MMP0454	[NP_987574]	MMP1312	[NP_988432]
MMP0048	[NP_987168]		MMP0465	[NP_987585]	MMP1447	[NP_988567] Repressor CDD28977
MMP0113	[NP_987233]	CDD16462	MMP0528	[NP_987648]	MMP1456	[NP_988576] EhaI
MMP0141	[NP_987261]	CDD6439	MMP0533	[NP_987653]	MMP1458	[NP_988578] EhaK
MMP0222	[NP_987342]		MMP0591	[NP_987711]	MMP1476	[NP_988596]
MMP0233	[NP_987353]	CDD11699	MMP0646	[NP_987766]	MMP1530	[NP_988650]
MMP0234	[NP_987354]	CDD15713	MMP0691	[NP_987811]	MMP1533	[NP_988653]
MMP0235	[NP_987355]		MMP0744	[NP_987864]	MMP1536	[NP_988656] COG4085
MMP0236	[NP_987356]	CDD9580	MMP0751	[NP_987871]	MMP1586	[NP_988706]
MMP0237	[NP_987357]		MMP0841	[NP_987961]	MMP1604	[NP_988724]
MMP0238	[NP_987358]		MMP0960	[NP_988080]	MMP1610	[NP_988730]
MMP0239	[NP_987359]	CDD14419	MMP0992	[NP_988112]	MMP1685	[NP_988805]
MMP0240	[NP_987360]		MMP1025	[NP_988145]	MMP1703	[NP_988823]
MMP0242	[NP_987362]	CDD29645	MMP1078	[NP_988198]	MMP1719	[NP_988839]
MMP0262	[NP_987382]	COG3286	MMP1125	[NP_988245]	MMP1720	[NP_988840] molybdate-binding
MMP0335	[NP_987455]		MMP1196	[NP_988316]		
MMP0344	[NP_987464]		MMP1228	[NP_988348]		

**(b). Proteins specific to *Methanosarcinaceae***

Gene ID, Accession Number and possible function						
Mbur_0064	[YP_564835]		Mbur_0812 <sup>2</sup>	[YP_565518] MtaB	Mbur_1508	[YP_566165] = Mbur_1104
Mbur_0071	[YP_564842]		Mbur_0814	[YP_565520] = Mbur_0812	Mbur_1618	[YP_566272] = Mbur_0624
Mbur_0086	[YP_564856]		Mbur_0830	[YP_565534]	Mbur_1621	[YP_566275]
Mbur_0140	[YP_564907]		Mbur_0836	[YP_565540]	Mbur_1663	[YP_566313]
Mbur_0167	[YP_564928]		Mbur_0837	[YP_565541]	Mbur_1709	[YP_566351]
Mbur_0229	[YP_564989]		Mbur_0856	[YP_565557]	Mbur_1710	[YP_566352] = Mbur_0167
Mbur_0230	[YP_564990]		Mbur_0868	[YP_565569]	Mbur_1821	[YP_566457] = Mbur_1046
Mbur_0305	[YP_565057]		Mbur_1046	[YP_565729]	Mbur_1831	[YP_566464]
Mbur_0354	[YP_565099]		Mbur_1055	[YP_565738]	Mbur_1873	[YP_566506]
Mbur_0426	[YP_565164]		Mbur_1080	[YP_565760] = Mbur_1055	Mbur_1879	[YP_566512]
Mbur_0443	[YP_565180]		Mbur_1092	[YP_565772]	Mbur_1912	[YP_566544]
Mbur_0533	[YP_565261]		Mbur_1104	[YP_565782]	Mbur_1919	[YP_566551]
Mbur_0540	[YP_565267]		Mbur_1112	[YP_565789] CDD30278	Mbur_1968	[YP_566598]
Mbur_0610	[YP_565331] COG1470		Mbur_1114	[YP_565791]	Mbur_2053	[YP_566679]
Mbur_0624	[YP_565345]		Mbur_1115	[YP_565792] = Mbur_0533	Mbur_2060	[YP_566686]
Mbur_0673	[YP_565392] = Mbur_0610		Mbur_1193	[YP_565866]	Mbur_2083 <sup>4</sup>	[YP_566707] CDD42693
Mbur_0696	[YP_565411]		Mbur_1200	[YP_565873]	Mbur_2105	[YP_566729]
Mbur_0763 <sup>1</sup>	[YP_565474]		Mbur_1275	[YP_565946] = Mbur_0624	Mbur_2134	[YP_566757] CDD44427
Mbur_0769	[YP_565478]		Mbur_1325	[YP_565993]	Mbur_2312	[YP_566918] = Mbur_1366
Mbur_0775	[YP_565481]		Mbur_1372	[YP_566038] = Mbur_1325	Mbur_2346	[YP_566950]
Mbur_0781	[YP_565487]		Mbur_1366 <sup>3</sup>	[YP_566033]	Mbur_2368	[YP_566970]
Mbur_0782	[YP_565488] = Mbur_0781		Mbur_1371	[YP_566037] = Mbur_0769	Mbur_2428	[YP_567029]
Mbur_0805	[YP_565511]		Mbur_1462	[YP_566119] = Mbur_0443		

**Note**<sup>1</sup>. A homolog to Mbur\_0763 is found in *M. maripaludis*;

**Note**<sup>2</sup>. A homolog to Mbur\_0812 is found in *M. stadtmanae* and *Moorella thermoacetica*;

**Note**<sup>3</sup>. A homolog to Mbur\_1366 is found in *Pelobacter carbinolicu*.

**Note**<sup>4</sup>. A homolog to Mbur\_2083 is found in *Desulfitobacterium hafniense* Y51 and *D. hafniense* DCB-2.