

**Table 6: Proteins restricted to several archaeal lineages**

Gao, B. and Gupta, R.S. BMC Genomics (2007) 8, 86.

Proteins only found in Thermococci, <i>Archaeoglobus</i> and methanogens					
PAB0076	[NP_125818]	CDD15620	PAB1291	[NP_127284]	CDD41906
PAB0138	[NP_125896]	CDD9576	PAB1584	[NP_126876]	COG4072
PAB0965	[NP_127127]	CDD15705	PAB1860	[NP_126440]	
PAB1927 <sup>1</sup>	[NP_126347]	CDD29323	PAB0813	[NP_126902]	COG1630
PAB1994	[NP_126245]	CDD9568	PAB0853	[NP_126970]	
PAB0036	[NP_125764]		PAB1251	[NP_127332]	endonuclease COG3780
PAB0054	[NP_125787]	CDD41919	PAB1779	[NP_126559]	CDD43950
PAB0176	[NP_125948]	CDD43579	PAB1806 <sup>2</sup>	[NP_126515]	CDD43599
PAB1127	[NP_127394]	CDD30177	PAB2413	[NP_126288]	COG1710
Proteins unique to Thermococci + <i>Archaeoglobus</i>					
PAB0981	[NP_127155]		PAB1672	[NP_126731]	
PAB0982	[NP_127156]		PAB3017	[NP_125737]	
PAB0985	[NP_127159]		PAB7298	[NP_126858]	
Proteins mainly shared by Halobacteria and some methanogens					
VNG0240C <sup>3</sup>	[AAG18840]	COG4031	VNG2315H	[AAG20425]	
VNG1236C	[AAG19598]		VNG2508C	[AAG20570]	MC1 CDD45747
VNG1611C	[AAG19875]	COG4749	VNG2524H	[AAG20585]	
VNG1670C	[AAG19921]	COG3612	VNG2669G	[AAG20696]	Cyo COG4083
VNG1891H	[AAG20086]				
Proteins mainly shared by Thermoplasmata and <i>Sulfolobus</i>					
Ta0035	[NP_393514]	COG5592	Ta1440	[NP_394894]	
Ta0164	[NP_393642]		Ta1453	[NP_394906]	
Ta0165	[NP_393643]		Ta1507	[NP_394957]	CDD29645
Ta0267	[NP_393747]	CDD43623	Saci_0040	[YP_254763]	
Ta0308	[NP_393788]		Saci_0054	[YP_254777]	
Ta0347	[NP_393826]	TauA CDD31059	Saci_0055	[YP_254778]	
Ta0547	[NP_394021]		Saci_0322	[YP_255031]	
Ta0548m <sup>4</sup>	[NP_394022]		Saci_0323	[YP_255032]	
Ta0583	[NP_394007]		Saci_0979	[YP_255633]	sdhD
Ta0759	[NP_394223]		Saci_1065	[YP_255715]	
Ta0793a	[NP_394256]		Saci_1491	[YP_256105]	CDD40171
Ta0938	[NP_394396]		Saci_1560	[YP_256166]	
Ta0939	[NP_394397]	PQQC CDD45213	Saci_1747	[YP_256346]	SoxE CDD46414
Ta1156	[NP_394612]		Saci_1952	[YP_256548]	
Ta1345	[NP_394801]		Saci_2078	[YP_256665]	

**Note**<sup>1</sup>. A homolog to PAB1927 is also found in *Rubrobacter xylanophilus* DSM 9941;

**Note**<sup>2</sup>. A homolog to PAB1806 is also found in *Aquifex aeolicus* VF5;

**Note**<sup>3</sup>. A homolog to VNG0240c is also found in *Methanopyrus kandleri*;

**Note**<sup>4</sup>. Two low-scoring homologs for Ta0548 are also found in *Gloeobacter violaceus* PCC 7421.