



Figure 1S: Duf1628 identified in proteins from diverse archaeal phyla. Amino acid sequence alignment of Duf1628-containing proteins of *H. volcanii*, *Aeropyrum pernix* (APE1013.1), *Candidatus Caldiarchaeumsubterraneum* (CSUB_C1318), *Archaeoglobus fulgidus* (AF_1096), and *Methanospirillum hungatei* (Mhun_0297).