

Table S1.

MAG ID	GTDB-Tk Taxonomy	MIGA taxonomy	Closest relative genome in MIGA	AAI	
MAG.004	Rhodomicrobiaceae	Rhizobiales	Shinella sp. (CP015736)	49.3	
MAG.005	Myxococcota (UBA796)	Deltaproteobacteria	Geobacter anodireducens (CP014963)	39.55	*
MAG.019	Myxococcota (UBA727)	Deltaproteobacteria	Desulfomonas sp. (CP015080)	40.29	*
MAG.022	Rhodothermaceae	Rhodothermaceae	Rhodothermaceae bacterium (CP020382)	52.11	
MAG.028	Flavobacteraceae	Aureitalea sp.	Aureitalea sp (CP027062)	64.61	*
MAG.032	Cellvibrionaceae	Cellvibrionaceae	Teredinibacter turnerae (NC 012997)	53.85	
MAG.036	Granulosicoccaceae	Granulosicoccaceae	Granulosicoccus antarticus (CP 018632)	54.75	*
MAG.040	Saprospiraceae	Saprospirales	Haliscomenobacter hydrossis (NC015510)	48.43	*
MAG.050	Flammeovirgaceae	Flammeovirgaceae	Fabibacter pacificus (Flammeovirgaceae)	50.15	*
MAG.054	Granulosicoccaceae	Chromatiales	Thioalkalivibrio sulfidiphilus (NC 011901)	48.03	*
MAG.057	Rhodobacteraceae	Rhodobacteraceae	Rhodobacteraceae bacterium (CP040818)	53.38	
MAG.058	Thalassospiraceae	Rhodospirillale	Ferrovibrio sp. (CP041636)	49.46	*
MAG.066	Micavirbionaceae	Alphaproteobacteria	Micavibrio aeruginosavarus (NC020812)	53.22	*
MAG.069	Phycispharaceae	Proteobacteria	Geoalkalibacter subterraneus (CP010311)	37.71	*
MAG.079	Gammaproteobacteria (UBA7415)	Gammaproteobacteria	endosymbiont of unidentified scaly snail Monju (NZ AP012978)	44.84	*

MAG.080	Chinophagales	Flavobacteria	Muricauda lutaonensis (CP011071)	46.3	*
MAG.082	Cellvibrionaceae	Cellvibrionaceae	Teredinibacter turnerae (NC 012997)	57.04	
MAG.088	Phormidesmiaceae	Halomicronema	Halomicronema hongdechloris (CP021983)	54.43	*
MAG.096	Saprospiraceae	Flavobacteria	Maribacter sp (NC 014472)	45.69	*
MAG.106	Granulosicoccaceae	Gammaproteobacteria	Kangiella profunda (CP025120)	45.2	*
MAG.114	Vampirovibrionaceae	Cyanobacteria	Leptolyngbya boryana (NZ AP018203)	39.54	*
MAG.121	Patescibacteria (UBA9983)	Candidatus Campbellbacteria	Candidatus Campbellbacteria (CP011215)	45.52	*
MAG.122	Gamma proteobacteria (LS-SOB)	Gammaproteobacteria	endosymbiont of unidentified scaly snail Monju (NZ AP012978)	45.37	*