**Additional file 12.** Iron genes and gene clusters identified by FeGenie for the 49 MAGs and reference genomes *Ghiorsea bivora* and *Mariprofundus ferrooxydans* PV-1 (NCBI accession number GCF\_000744415.1 and GCF\_000153765.1). *Cyc2* genes were retrieved in both MAGs, confirming they have the potential to oxidize Fe (II) (XLSX 41 kb)