

Genus (GTDB r89)	Order + family (GTDB r89)	Genus (SILVA r138)	Order + family (SILVA r138)	N. seasonal	Total tested ASVs	General information genus
<b>AG-337-I02</b>	HIMB59, GCA-002718135	-	Rhodospirillales, AEGEAN-169 marine group	12	20	Rhodospirillales order is broken in 4 different orders in GTDB. New studies and data have excluded HIMB59 as a new order outside Rhodospirillales (see <a href="#">Martijn et al. 2018</a> ).
<b>AG-422-B15</b>	Pelagibacterales, AG-422-B15	-	SAR11 clade, Clade IV	2	5	-
<b>D2472</b>	SAR86, D2472	-	-	3	12	SAR86 order presents 4 families in GTDB: D2472, SAR86, AG-339-G14 and TMED112. In this study we only found assignation for the first family.
<b>HIMB114</b>	Pelagibacterales, <i>Pelagibacteraceae</i>	-	SAR11 clade, Clade III	4	5	-
<b>HIMB59</b>	HIMB59, HIMB59	-	Rhodospirillales, AEGEAN-169 marine group	2	8	Similar observations to AG-337-I02.
<b>HTCC2207</b>	Pseudomonadales, Porticoccaceae	SAR92 clade	Cellvibrionales, Porticoccaceae	0	17	-
<b>Litoricola</b>	Pseudomonadales, <i>Litoricolaceae</i>	<i>Litoricola</i>	Oceanospirillales, <i>Litoricolaceae</i>	5	8	-
<b>Luminiphilus</b>	Pseudomonadales, <i>Haliaceae</i>	<i>Luminiphilus</i>	Cellvibrionales, <i>Haliaceae</i>	9	30	Some assignations included the group in OM60(NOR5) clade for SILVA.
<b>Marinisoma</b>	Marinisomatales, <i>Marinisomataceae</i>	-	-	5	8	Marinisomatota phyla. Not described so far.
<b>MS024-2A</b>	Flavobacteriales, <i>Flavobacteriaceae</i>	NS5 marine group	Flavobacteriales, <i>Flavobacteriaceae</i>	4	6	-
<b>OM182</b>	Pseudomonadales, <i>Pseudohongiellaceae</i>	<i>Pseudohongiella</i>	Oceanospirillales, <i>Pseudohongiellaceae</i>	7	15	Oceanospirillales order is included inside Pseudomonadales.
<b>Pelagibacter</b>	Pelagibacterales, <i>Pelagibacteraceae</i>	Clade Ia	SAR11 clade, Clade I	20	63	In some cases the clade was Ib or the assignation was unknown. In this case GTDB unifies instead of splitting as with other groups.
<b>Pelagibacter_A</b>	Pelagibacterales, <i>Pelagibacteraceae</i>	-	SAR11 clade, Clade II	0	27	-
<b>Puniceispirillum</b>	Puniceispirillales, <i>Puniceispirillaceae</i>	Cand. <i>Puniceispirillum</i>	Puniceispirillales, SAR116 clade	3	5	-
<b>SAR86A</b>	SAR86, D2472	-	-	11	26	-
<b>SCGC-AAA076-P13</b>	SAR86, D2472	-	-	4	9	-
<b>Synechococcus_C</b>	Synechococcales, <i>Cyanobiaceae</i>	<i>Synechococcus</i> CC9902	Synechococcales, <i>Cyanobiaceae</i>	4	9	<i>Synechococcus</i> presents 4 genera in GTDB.
<b>TMED189</b>	TMED189, TMED189	Cand. <i>Actinomarina</i>	Actinomarinales, <i>Actinomarinceae</i>	4	7	<i>Actinomarina</i> assignation is not present in GTDB. Since the assignation comes from <a href="#">Ghai et al. 2013</a> this will probably be corrected in further versions of the DB.
<b>UBA4421</b>	Pseudomonadales, HTCC2089	-	-	2	7	-
<b>UBA7446</b>	Flavobacteriales, <i>Flavobacteriaceae</i>	NS4 marine group	Flavobacteriales, <i>Flavobacteriaceae</i>	3	10	-