

### **About this report**

This report describes the results from DNA analysis of the following sample:

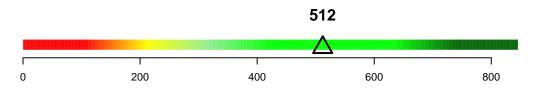
Sample ID	1000261
Sample Name	DT210 WPassive Sulfur Denitrator
Tank Name	DT210
Sample Date	2020-10-19 08:00 PM
Report Date	11/25/2020 14:17

These data provide detailed information on the community of microbes living in your aquarium. Each type of microbe in your sample was identified by comparing DNA sequences from your sample with a database of DNA sequences from known types. The relative abundance of each sequence can be used to compare the relative abundance of each type across samples.

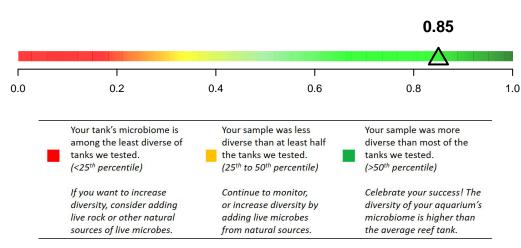


#### Part 1: Diversity and balance

**Number of Microbial Types** 

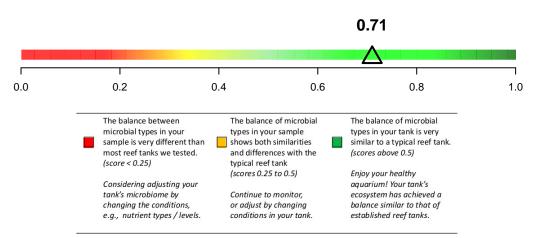


#### **Diversity Score (Percentile)**



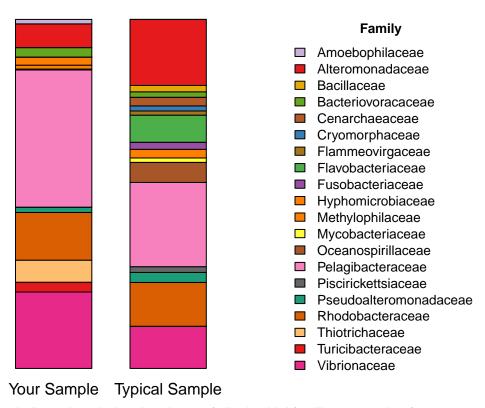


#### **Balance Score (Correlation with Typical Abundance)**





Part 2: Abundance of each family in your sample



Bars indicate the relative abundance of all microbial families accounting for at least 1% of the community either in your sample or the typical reef tank.



### Part 3: Microbial groups of interest

#### Ammonia-oxidizing microbes

Group	Your.Frequency	Typical.Range
Ammonia-oxidizing community, total	0.01033	0.00191 – 0.0479
Nitrosococcus	0	0–0
Nitrosomonadaceae	0	0-0.00141
Nitrososphaeraceae	0	0–0
Cenarchaeaceae	0.01033	0.00166-0.04617

Typical range describes the 10th to 90th percentiles.

- above 50th percentile
- □ between 10th and 50th percentile
- below 10th percentile



#### *Nitrite-oxidizing groups*

Group	Your.Frequency	Typical.Range
Nitrite-oxidizing community, total	0	0 – 0.0037
Nitrobacter	0	0-0
Nitrococcus	0	0-0
Nitrotoga	0	0-0
Nitrospinaceae	0	0–0
Nitrospiraceae	0	0-0.0034
Nitrolancea	0	0-0

Typical range describes the 10th to 90th percentiles.

- above 50th percentile
- □ between 10th and 50th percentile
- below 10th percentile



#### Cyanobacteria, by family

Group	Your.Frequency	Typical.Range
Cyanobacteria, total	5e-05	0 - 0.0037
Acaryochloridaceae	0	0-6e-04
Cyanobacteriaceae	0	0-0
Phormidiaceae	5e-05	0-0
Pseudanabaenaceae	0	0-1e-04
Spirulinaceae	0	0-0
Synechococcaceae	0	0-0
Xenococcaceae	0	0-2e-04

Typical range describes the 10th to 90th percentiles.

- below 50th percentile
- □ between 50th and 90th percentile
- above 90th percentile



#### Fish pathogens

Group	Your.Frequency	Typical.Range
Fish pathogens, total	0	0 – 0
Eubacterium tarantellae	0	0–0
Lactococcus garvieae	0	0-0
Enterococcus seriolicida	0	0–0
Streptococcus parauberis	0	0-0
Streptococcus iniae	0	0–0
Mycobacterium chelonei	0	0-0
Mycobacterium fortuitum	0	0–0
Mycobacterium marinum	0	0-0
Mycobacterium neoaurum	0	0–0
Nocardia asteroides	0	0-0
Nocardia salmonicida	0	0–0
Nocardia seriolae	0	0-0
Renibacterium salmoninarum	0	0–0
Aeromonas jandaei	0	0-0
Aeromonas salmonicida	0	0–0
Serratia liquefaciens	0	0-0
Chryseobacterium balustinum	0	0-0

DNA analysis conducted by AquaBiomics LLC.

https://aquabiomics.com/



### Fish pathogens (continued)

Group	Your.Frequency	Typical.Range
Chryseobacterium scophthalmum	0	0-0
Tenacibaculum maritimus	0	0-0
Tenacibaculum ovolyticus	0	0-0
Pasteurella skyensis	0	0-0
Pseudomonas anguilliseptica	0	0-0
Moritella marina	0	0-0
Moritella viscosa	0	0-0
Photobacterium damselae	0	0-0.001
Shewanella putrefaciens	0	0-0
Vibrio alginolyticus	0	0–0
Vibrio cholerae	0	0-0
Vibrio fischeri	0	0-0
Vibrio furnissii	0	0-0
Vibrio harveyi	0	0-0
Vibrio carchariae	0	0-0
Vibrio trachuri	0	0–0
Vibrio ichthyoenteri	0	0-0
Vibrio logei	0	0-0

DNA analysis conducted by AquaBiomics LLC.

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### Fish pathogens (continued)

Group	Your.Frequency	Typical.Range
Vibrio ordalii	0	0-0
Vibrio pelagius	0	0-0
Vibrio salmonicida	0	0-0
Vibrio splendidus	0	0-0
Halomonas cupida	0	0-0
Piscirickettsia salmonis	0	0-0



#### Coral pathogens

Group	Your.Frequency	Typical.Range
Coral pathogens, total	0	0 – 0
Vibrio shiloi	0	0-0
Vibrio coralliilyticus	0	0-0
Vibrio harveyi	0	0-0
Aurantimonas coralicida	0	0-0
Vibrio rotiferianus	0	0-0
Vibrio alginolyticus	0	0-0
Vibrio proteolyticus	0	0-0
Vibrio charcharvina	0	0-0
Serratia marscens	0	0-0
Aquarickettsia rohweri	0	0–0