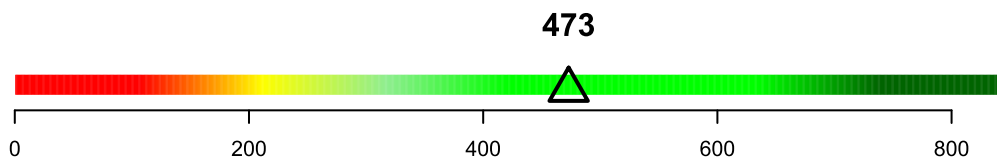




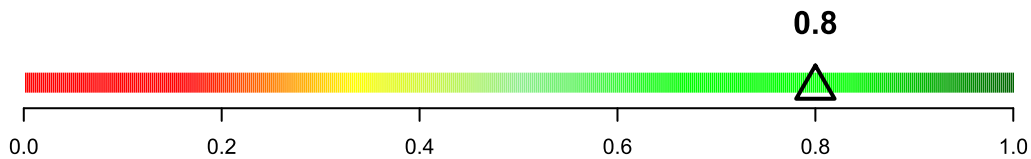
# Aquarium Microbiome Analysis Report


## Part 1: Diversity and balance

### Number of Microbial Types




### Diversity Score (Percentile)




 Your tank's microbiome is among the least diverse of tanks we tested. (<25<sup>th</sup> percentile)

*If you want to increase diversity, consider adding live rock or other natural sources of live microbes.*

 Your sample was less diverse than at least half the tanks we tested. (25<sup>th</sup> to 50<sup>th</sup> percentile)

*Continue to monitor, or increase diversity by adding live microbes from natural sources.*

 Your sample was more diverse than most of the tanks we tested. (>50<sup>th</sup> percentile)

*Celebrate your success! The diversity of your aquarium's microbiome is higher than the average reef tank.*

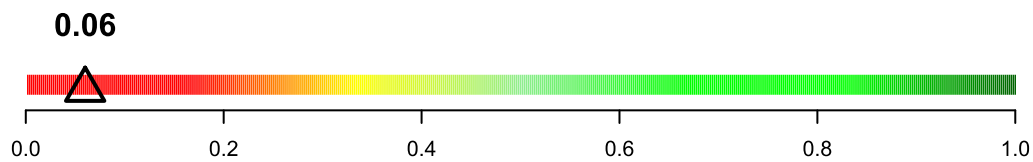
DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>






# Aquarium Microbiome Analysis Report

## Balance Score (Correlation with Typical Abundance)



---

 <p>The balance between microbial types in your sample is very different than most reef tanks we tested. (score &lt; 0.25)</p> <p><i>Considering adjusting your tank's microbiome by changing the conditions, e.g., nutrient types / levels.</i></p>	 <p>The balance of microbial types in your sample shows both similarities and differences with the typical reef tank (scores 0.25 to 0.5)</p> <p><i>Continue to monitor, or adjust by changing conditions in your tank.</i></p>	 <p>The balance of microbial types in your tank is very similar to a typical reef tank. (scores above 0.5)</p> <p><i>Enjoy your healthy aquarium! Your tank's ecosystem has achieved a balance similar to that of established reef tanks.</i></p>
---	--	--

---

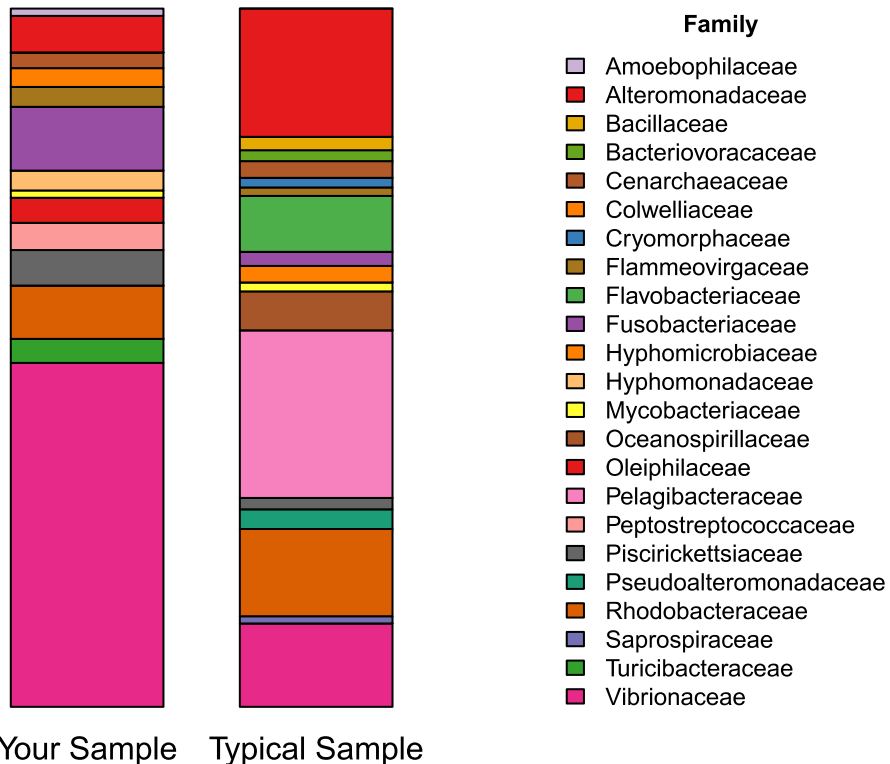
DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## 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.

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## Part 3: Microbial groups of interest

### *Ammonia-oxidizing microbes*

Group	Your.Frequency	Typical.Range
Ammonia-oxidizing community, total	0.00545	0.00176 – 0.04784
Nitrosococcus	0	0–0
Nitrosomonadaceae	0	0–0.00135
Nitrososphaeraceae	0	0–0
Cenarchaeaceae	0.00545	0.00164–0.04564

Typical range describes the 10th to 90th percentiles.

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

---

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## *Nitrite-oxidizing groups*

Group	Your.Frequency	Typical.Range
Nitrite-oxidizing community, total	0.00019	0 – 0.0038
Nitrobacter	0	0-0
Nitrococcus	0	0-0
Nitrotoga	0	0-0
Nitrospinaceae	0	0-0
Nitrospiraceae	0.00019	0-0.0033
Nitrolancea	0	0-0

Typical range describes the 10th to 90th percentiles.

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

---

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## *Cyanobacteria, by family*

Group	Your.Frequency	Typical.Range
Cyanobacteria, total	0	0 – 0.0038
Acaryochloridaceae	0	0–6e–04
Cyanobacteriaceae	0	0–0
Phormidiaceae	0	0–0
Pseudanabaenaceae	0	0–0
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

---

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## *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 chelonae	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/>



# Aquarium Microbiome Analysis Report

## *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 damsela	0	0-0.0012
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 ichthyenteri	0	0-0
Vibrio logei	0	0-0

---

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>





# Aquarium Microbiome Analysis Report

## *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

---

DNA analysis conducted by AquaBiomics LLC.  
<https://aquabiomics.com/>



# Aquarium Microbiome Analysis Report

## *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

---

DNA analysis conducted by AquaBiomics LLC.

<https://aquabiomics.com/>