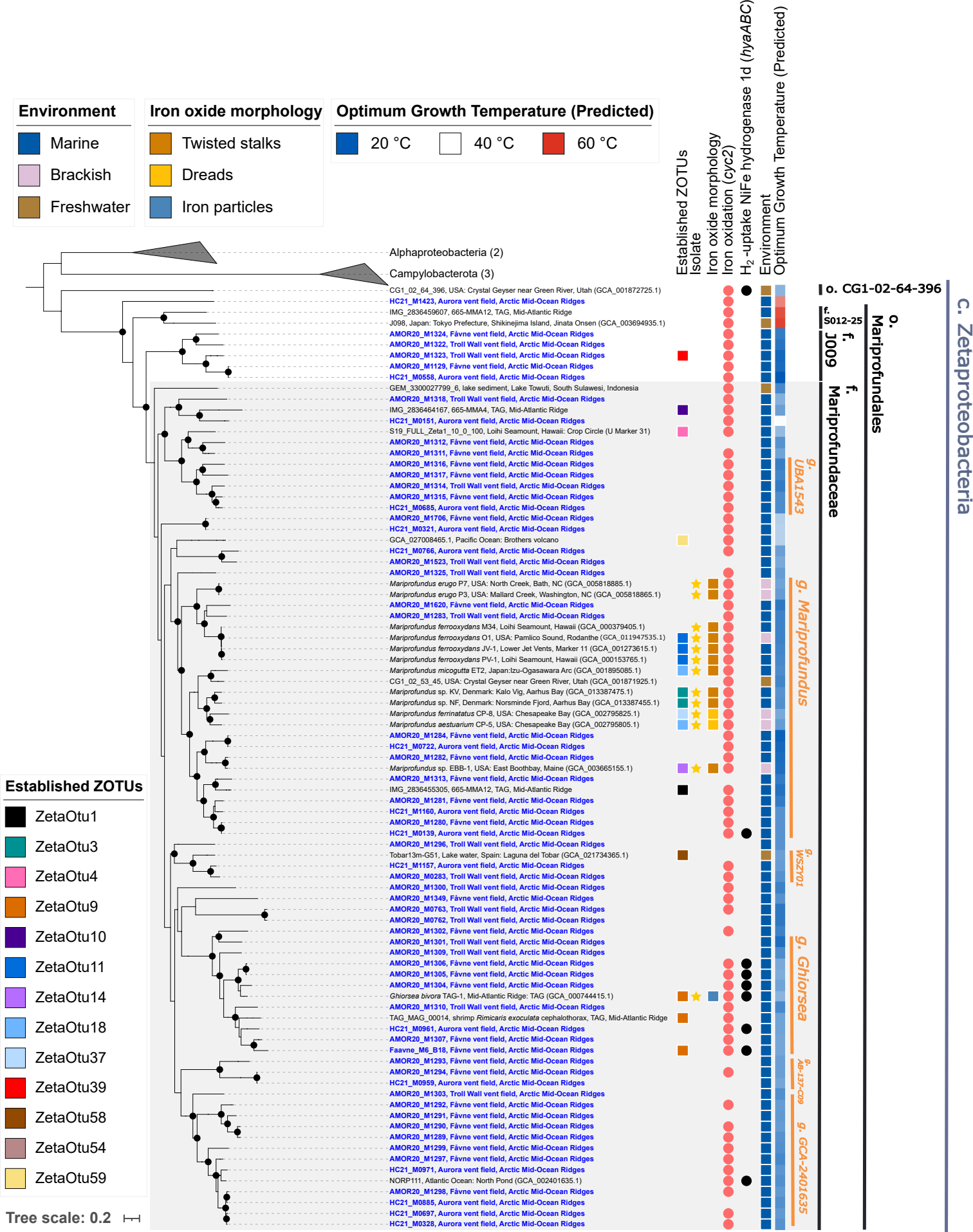
Environment
Marine
Brackish
Freshwater
Iron oxide morphology
Twisted stalks
Dreads
Iron particles
Optimum Growth Temperature (Predicted)
20 °C
40 °C
60 °C
Established ZOTUs
Isolate
Iron oxide morphology
Iron oxidation (cyc2)
H2 -uptake NiFe hydrogenase 1d (hyaABC)
Environment
Optimum Growth Temperature (Predicted)
Alphaproteobacteria (2)
Campylobacterota (3)
CG1_02_64_396, USA: Crystal Geyser near Green River, Utah (GCA_001872725.1)
HC21_M1423, Aurora vent field, Arctic Mid-Ocean Ridges
IMG_2836459607, 665-MMA12, TAG, Mid-Atlantic Ridge
J098, Japan: Tokyo Prefecture, Shikinejima Island, Jinata Onsen (GCA_003694935.1)
AMOR20_M1324, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1322, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1323, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1129, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0558, Aurora vent field, Arctic Mid-Ocean Ridges
GEM_3300027799_6, lake sediment, Lake Towuti, South Sulawesi, Indonesia
AMOR20_M1318, Troll Wall vent field, Arctic Mid-Ocean Ridges
IMG_2836464167, 665-MMA4, TAG, Mid-Atlantic Ridge
HC21_M0151, Aurora vent field, Arctic Mid-Ocean Ridges
S19_FULL_Zeta1_10_0_100, Loihi Seamount, Hawaii: Crop Circle (U Marker 31)
AMOR20_M1312, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1311, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1316, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1317, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1314, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1315, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0685, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1706, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0321, Aurora vent field, Arctic Mid-Ocean Ridges
GCA_027008465.1, Pacific Ocean: Brothers volcano
HC21_M0766, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1523, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1325, Troll Wall vent field, Arctic Mid-Ocean Ridges
Mariprofundus erugo P7, USA: North Creek, Bath, NC (GCA_005818885.1)
Mariprofundus erugo P3, USA: Mallard Creek, Washington, NC (GCA_005818865.1)
AMOR20_M1620, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1283, Troll Wall vent field, Arctic Mid-Ocean Ridges
Mariprofundus ferrooxydans M34, Loihi Seamount, Hawaii (GCA_000379405.1)
Mariprofundus ferrooxydans O1, USA: Pamlico Sound, Rodanthe (GCA_011947535.1)
Mariprofundus ferrooxydans JV-1, Lower Jet Vents, Marker 11 (GCA_001273615.1)
Mariprofundus ferrooxydans PV-1, Loihi Seamount, Hawaii (GCA_000153765.1)
Mariprofundus micogutta ET2, Japan:Izu-Ogasawara Arc (GCA_001895085.1)
CG1_02_53_45, USA: Crystal Geyser near Green River, Utah (GCA_001871925.1)
Mariprofundus sp. KV, Denmark: Kalo Vig, Aarhus Bay (GCA_013387475.1)
Mariprofundus sp. NF, Denmark: Norsminde Fjord, Aarhus Bay (GCA_013387455.1)
Mariprofundus ferrinatatus CP-8, USA: Chesapeake Bay (GCA_002795825.1)
Mariprofundus aestuarium CP-5, USA: Chesapeake Bay (GCA_002795805.1)
AMOR20_M1284, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0722, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1282, Fåvne vent field, Arctic Mid-Ocean Ridges
Mariprofundus sp. EBB-1, USA: East Boothbay, Maine (GCA_003665155.1)
AMOR20_M1313, Fåvne vent field, Arctic Mid-Ocean Ridges
IMG_2836455305, 665-MMA12, TAG, Mid-Atlantic Ridge
AMOR20_M1281, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M1160, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1280, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0139, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1296, Troll Wall vent field, Arctic Mid-Ocean Ridges
Tobar13m-G51, Lake water, Spain: Laguna del Tobar (GCA_021734365.1)
HC21_M1157, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M0283, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1300, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1349, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M0763, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M0762, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1302, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1301, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1309, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1306, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1305, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1304, Fåvne vent field, Arctic Mid-Ocean Ridges
Ghiorsea bivora TAG-1, Mid-Atlantic Ridge: TAG (GCA_000744415.1)
AMOR20_M1310, Troll Wall vent field, Arctic Mid-Ocean Ridges
TAG_MAG_00014, shrimp Rimicaris exoculata cephalothorax, TAG, Mid-Atlantic Ridge
HC21_M0961, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1307, Fåvne vent field, Arctic Mid-Ocean Ridges
Faavne_M6_B18, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1293, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1294, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0959, Aurora vent field, Arctic Mid-Ocean Ridges
AMOR20_M1303, Troll Wall vent field, Arctic Mid-Ocean Ridges
AMOR20_M1292, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1291, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1290, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1289, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1299, Fåvne vent field, Arctic Mid-Ocean Ridges
AMOR20_M1297, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0971, Aurora vent field, Arctic Mid-Ocean Ridges
NORP111, Atlantic Ocean: North Pond (GCA_002401635.1)
AMOR20_M1298, Fåvne vent field, Arctic Mid-Ocean Ridges
HC21_M0885, Aurora vent field, Arctic Mid-Ocean Ridges
HC21_M0697, Aurora vent field, Arctic Mid-Ocean Ridges
HC21_M0328, Aurora vent field, Arctic Mid-Ocean Ridges
o. CG1-02-64-396
f. S012-25
f. J009
f. Mariprofundaceae
o. Mariprofundales
g. UBA1543
g. Mariprofundus
g. WSZY01
g. Ghiorsea
g. AB-137-C09
g. GCA-2401635
c. Zetaproteobacteria
Established ZOTUs
ZetaOtu1
ZetaOtu3
ZetaOtu4
ZetaOtu9
ZetaOtu10
ZetaOtu11
ZetaOtu14
ZetaOtu18
ZetaOtu37
ZetaOtu39
ZetaOtu58
ZetaOtu54
ZetaOtu59
Tree scale: 0.2