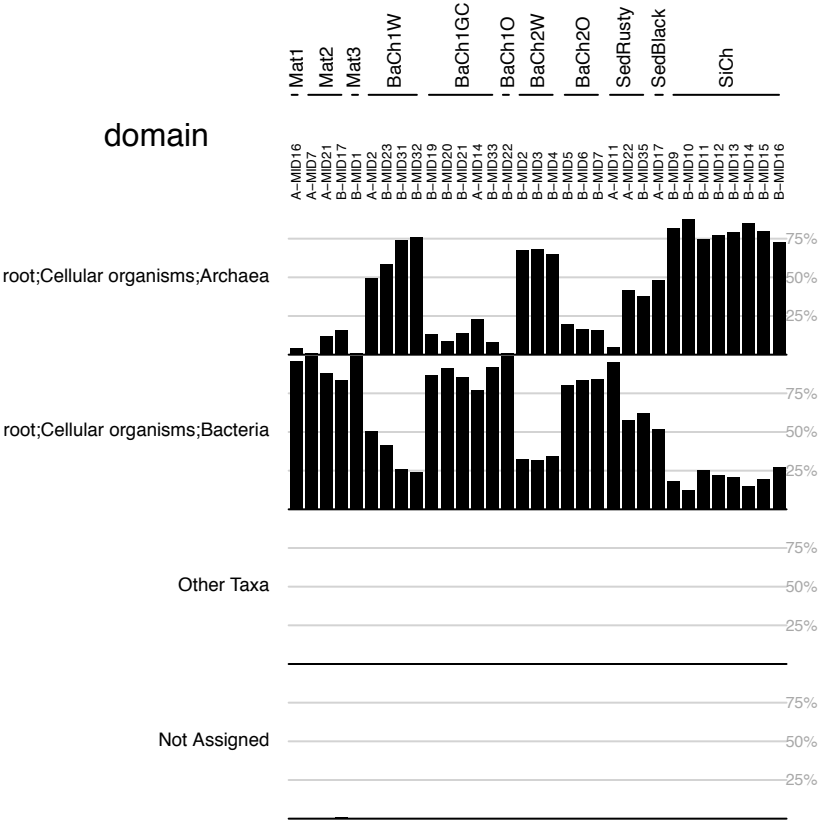
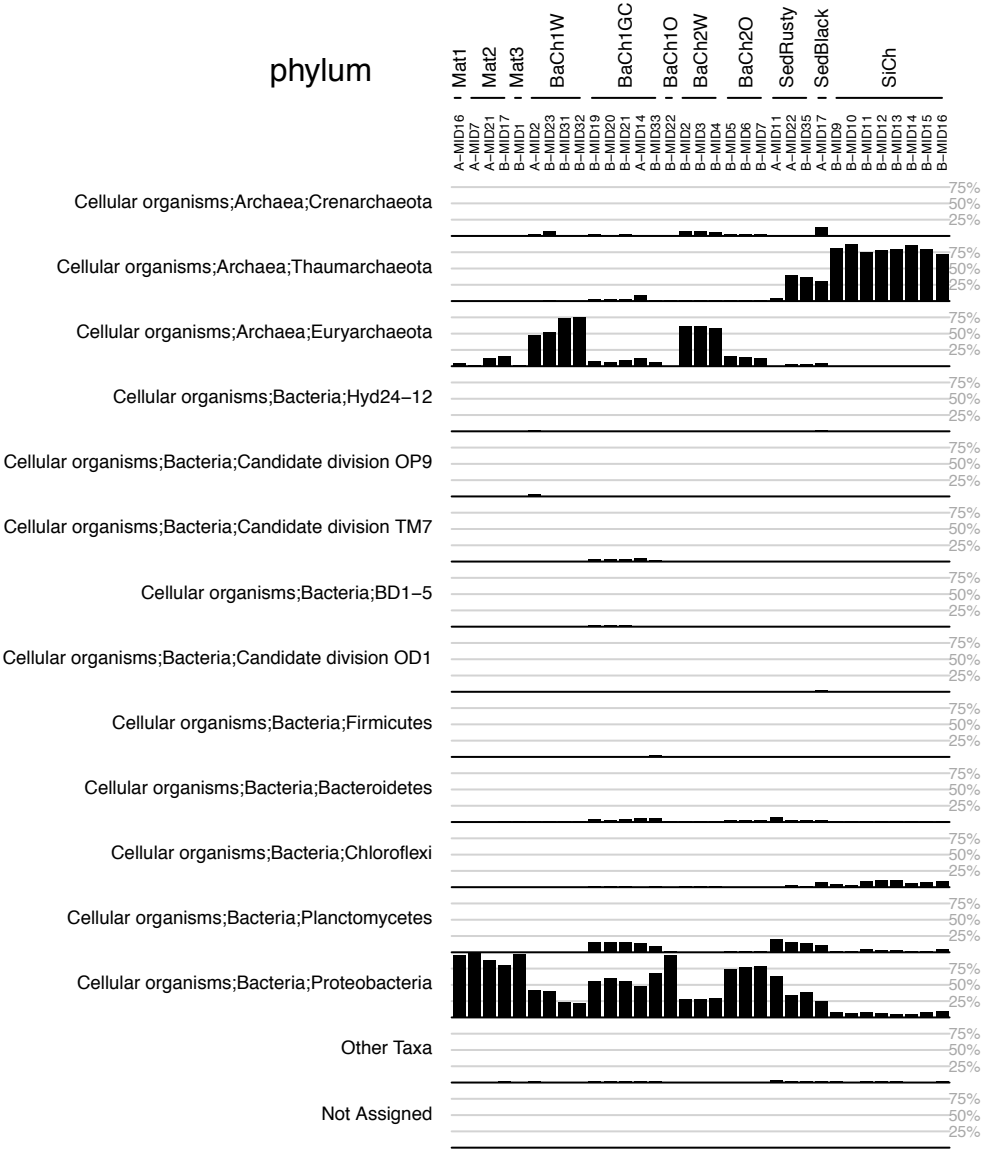
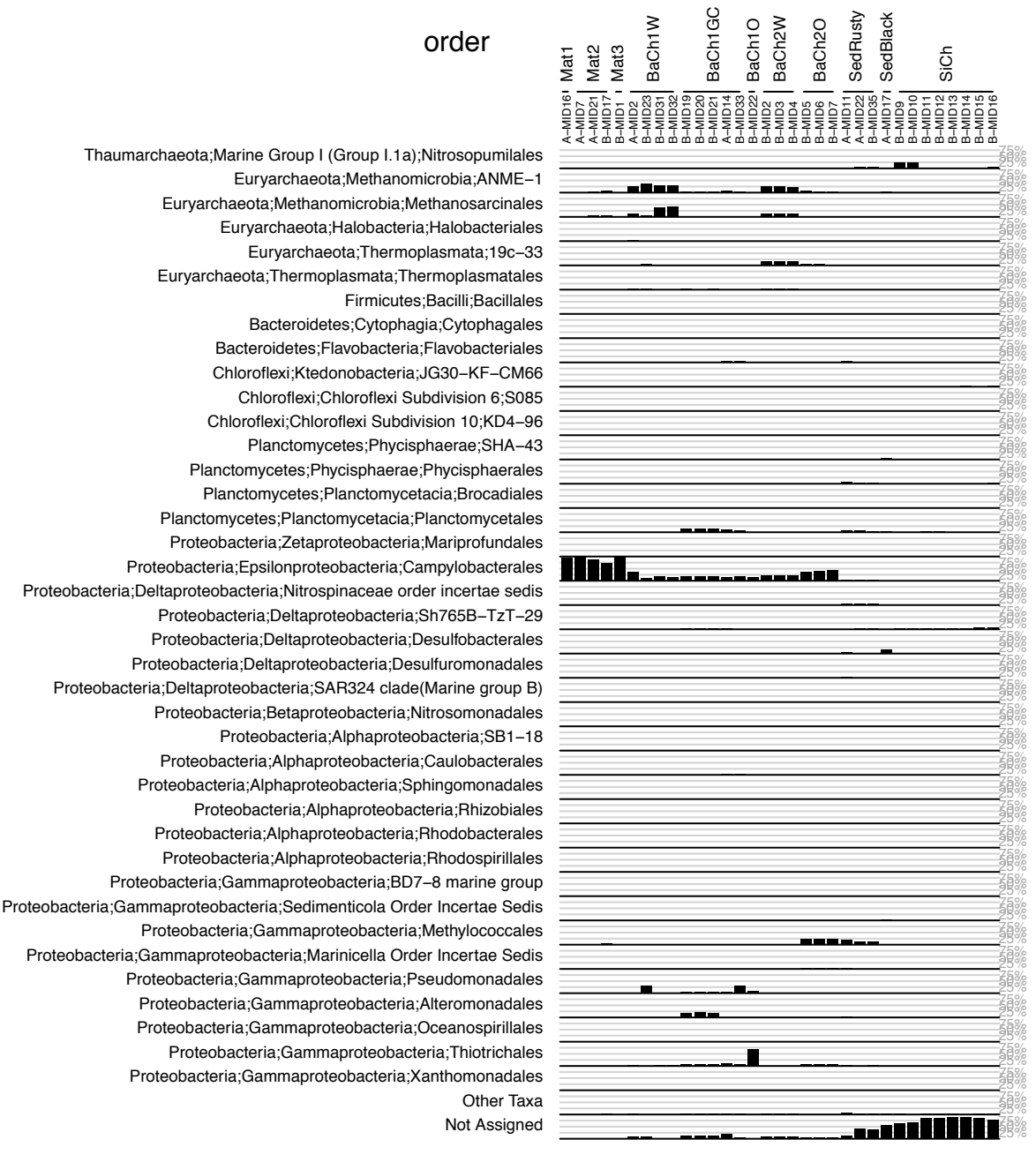
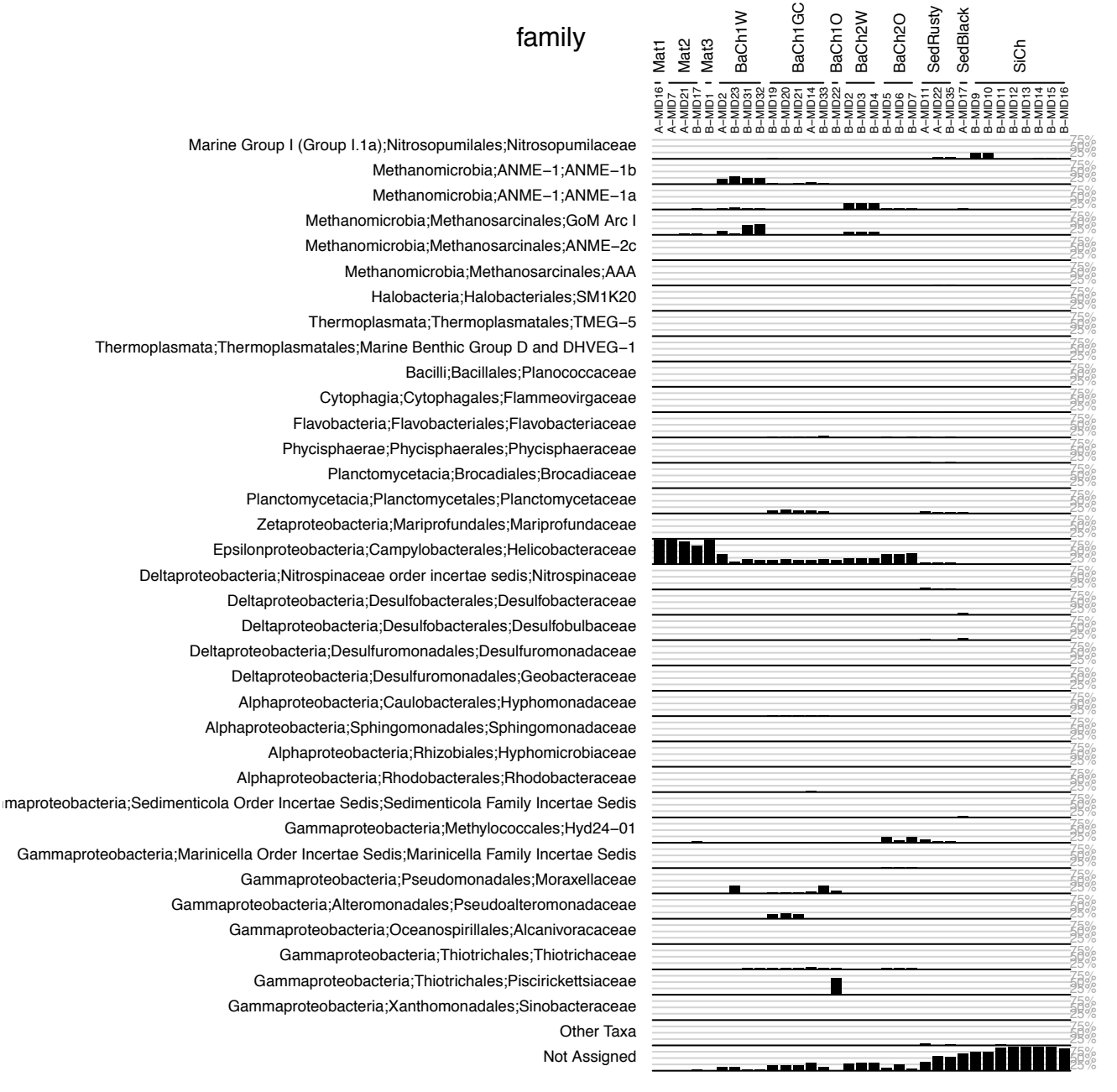
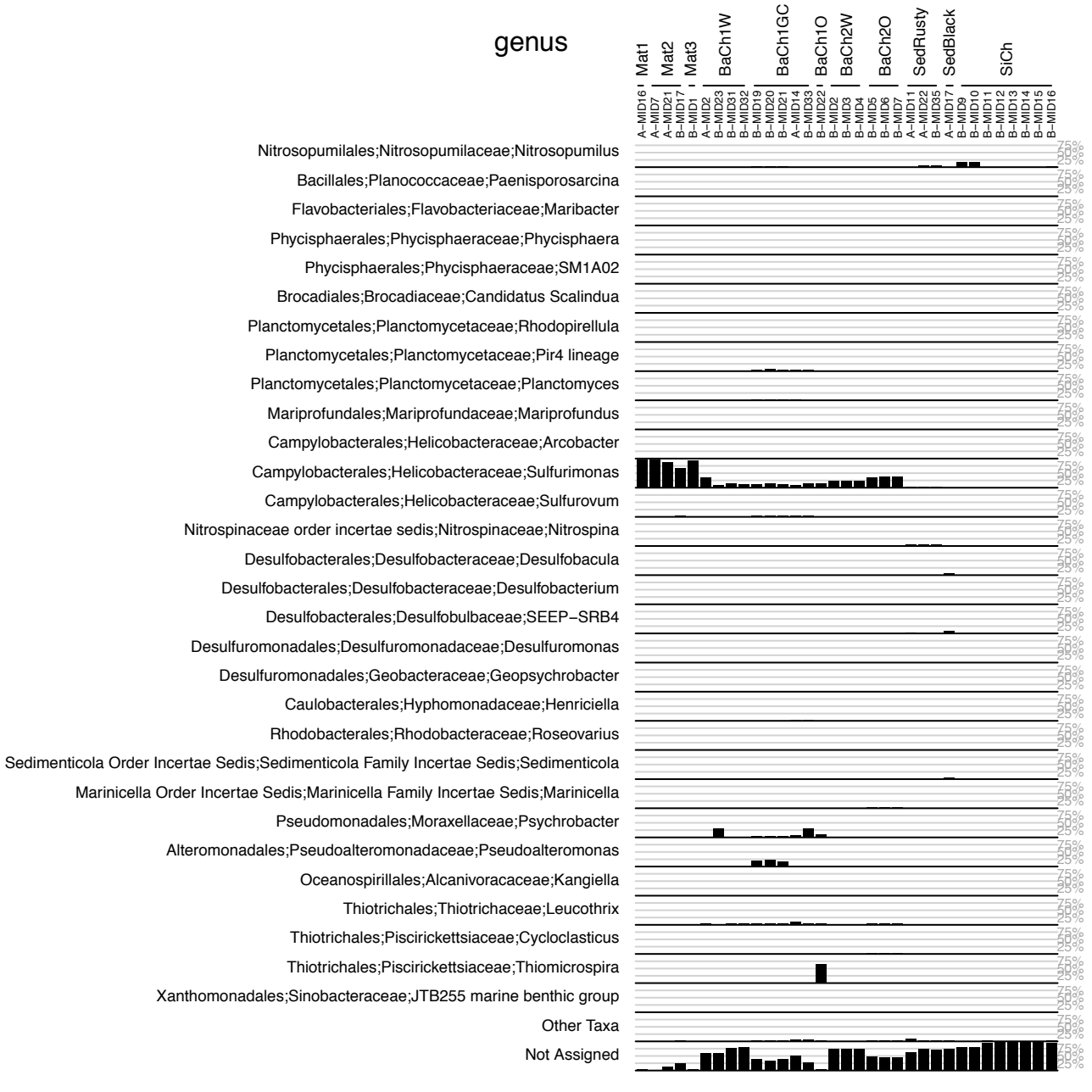

Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
domain
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
root;Cellular organisms;Archaea
root;Cellular organisms;Bacteria
Other Taxa
Not Assigned
75%
50%
25%


phylum
Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
Cellular organisms;Archaea;Crenarchaeota
Cellular organisms;Archaea;Thaumarchaeota
Cellular organisms;Archaea;Euryarchaeota
Cellular organisms;Bacteria;Hyd24−12
Cellular organisms;Bacteria;Candidate division OP9
Cellular organisms;Bacteria;Candidate division TM7
Cellular organisms;Bacteria;BD1−5
Cellular organisms;Bacteria;Candidate division OD1
Cellular organisms;Bacteria;Firmicutes
Cellular organisms;Bacteria;Bacteroidetes
Cellular organisms;Bacteria;Chloroflexi
Cellular organisms;Bacteria;Planctomycetes
Cellular organisms;Bacteria;Proteobacteria
Other Taxa
Not Assigned
75%
50%
25%

class
Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
Archaea;Crenarchaeota;Miscellaneous Crenarchaeotic Group (MCG)
Archaea;Crenarchaeota;Marine Benthic Group B – Deep Sea Archaeal Group (DSAG)
Archaea;Thaumarchaeota;Marine Group I (Group I.1a)
Archaea;Euryarchaeota;Methanomicrobia
Archaea;Euryarchaeota;Halobacteria
Archaea;Euryarchaeota;Thermoplasmata
Bacteria;Firmicutes;Bacilli
Bacteria;Bacteroidetes;VC2.1 Bac22
Bacteria;Bacteroidetes;Cytophagia
Bacteria;Bacteroidetes;Flavobacteria
Bacteria;Chloroflexi;Ktedonobacteria
Bacteria;Chloroflexi;Chloroflexi Subdivision 8 – TK10
Bacteria;Chloroflexi;Chloroflexi Subdivision 6
Bacteria;Chloroflexi;Chloroflexi Subdivision 5 – SAR202 clade
Bacteria;Chloroflexi;Chloroflexi Subdivision 10
Bacteria;Planctomycetes;OM190
Bacteria;Planctomycetes;Phycisphaerae
Bacteria;Planctomycetes;Planctomycetacia
Bacteria;Proteobacteria;Zetaproteobacteria
Bacteria;Proteobacteria;Epsilonproteobacteria
Bacteria;Proteobacteria;Deltaproteobacteria
Bacteria;Proteobacteria;Betaproteobacteria
Bacteria;Proteobacteria;Alphaproteobacteria
Bacteria;Proteobacteria;Gammaproteobacteria
Other Taxa
Not Assigned
75%
50%
25%


order
Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
Thaumarchaeota;Marine Group I (Group I.1a);Nitrosopumilales
Euryarchaeota;Methanomicrobia;ANME–1
Euryarchaeota;Methanomicrobia;Methanosarcinales
Euryarchaeota;Halobacteria;Halobacteriales
Euryarchaeota;Thermoplasmata;19c–33
Euryarchaeota;Thermoplasmata;Thermoplasmatales
Firmicutes;Bacilli;Bacillales
Bacteroidetes;Cytophagia;Cytophagales
Bacteroidetes;Flavobacteria;Flavobacteriales
Chloroflexi;Ktedonobacteria;JG30–KF–CM66
Chloroflexi;Chloroflexi Subdivision 6;S085
Chloroflexi;Chloroflexi Subdivision 10;KD4–96
Planctomycetes;Phycisphaerae;SHA–43
Planctomycetes;Phycisphaerae;Phycisphaerales
Planctomycetes;Planctomycetacia;Brocadiales
Planctomycetes;Planctomycetacia;Planctomycetales
Proteobacteria;Zetaproteobacteria;Mariprofundales
Proteobacteria;Epsilonproteobacteria;Campylobacterales
Proteobacteria;Deltaproteobacteria;Nitrospinaceae order incertae sedis
Proteobacteria;Deltaproteobacteria;Sh765B–TzT–29
Proteobacteria;Deltaproteobacteria;Desulfobacterales
Proteobacteria;Deltaproteobacteria;Desulfuromonadales
Proteobacteria;Deltaproteobacteria;SAR324 clade(Marine group B)
Proteobacteria;Betaproteobacteria;Nitrosomonadales
Proteobacteria;Alphaproteobacteria;SB1–18
Proteobacteria;Alphaproteobacteria;Caulobacterales
Proteobacteria;Alphaproteobacteria;Sphingomonadales
Proteobacteria;Alphaproteobacteria;Rhizobiales
Proteobacteria;Alphaproteobacteria;Rhodobacterales
Proteobacteria;Alphaproteobacteria;Rhodospirillales
Proteobacteria;Gammaproteobacteria;BD7–8 marine group
Proteobacteria;Gammaproteobacteria;Sedimenticola Order Incertae Sedis
Proteobacteria;Gammaproteobacteria;Methylococcales
Proteobacteria;Gammaproteobacteria;Marinicella Order Incertae Sedis
Proteobacteria;Gammaproteobacteria;Pseudomonadales
Proteobacteria;Gammaproteobacteria;Alteromonadales
Proteobacteria;Gammaproteobacteria;Oceanospirillales
Proteobacteria;Gammaproteobacteria;Thiotrichales
Proteobacteria;Gammaproteobacteria;Xanthomonadales
Other Taxa
Not Assigned
75%
50%
25%


family
Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
Marine Group I (Group I.1a);Nitrosopumilales;Nitrosopumilaceae
Methanomicrobia;ANME−1;ANME−1b
Methanomicrobia;ANME−1;ANME−1a
Methanomicrobia;Methanosarcinales;GoM Arc I
Methanomicrobia;Methanosarcinales;ANME−2c
Methanomicrobia;Methanosarcinales;AAA
Halobacteria;Halobacteriales;SM1K20
Thermoplasmata;Thermoplasmatales;TMEG−5
Thermoplasmata;Thermoplasmatales;Marine Benthic Group D and DHVEG−1
Bacilli;Bacillales;Planococcaceae
Cytophagia;Cytophagales;Flammeovirgaceae
Flavobacteria;Flavobacteriales;Flavobacteriaceae
Phycisphaerae;Phycisphaerales;Phycisphaeraceae
Planctomycetacia;Brocadiales;Brocadiaceae
Planctomycetacia;Planctomycetales;Planctomycetaceae
Zetaproteobacteria;Mariprofundales;Mariprofundaceae
Epsilonproteobacteria;Campylobacterales;Helicobacteraceae
Deltaproteobacteria;Nitrospinaceae order incertae sedis;Nitrospinaceae
Deltaproteobacteria;Desulfobacterales;Desulfobacteraceae
Deltaproteobacteria;Desulfobacterales;Desulfobulbaceae
Deltaproteobacteria;Desulfuromonadales;Desulfuromonadaceae
Deltaproteobacteria;Desulfuromonadales;Geobacteraceae
Alphaproteobacteria;Caulobacterales;Hyphomonadaceae
Alphaproteobacteria;Sphingomonadales;Sphingomonadaceae
Alphaproteobacteria;Rhizobiales;Hyphomicrobiaceae
Alphaproteobacteria;Rhodobacterales;Rhodobacteraceae
maproteobacteria;Sedimenticola Order Incertae Sedis;Sedimenticola Family Incertae Sedis
Gammaproteobacteria;Methylococcales;Hyd24−01
Gammaproteobacteria;Marinicella Order Incertae Sedis;Marinicella Family Incertae Sedis
Gammaproteobacteria;Pseudomonadales;Moraxellaceae
Gammaproteobacteria;Alteromonadales;Pseudoalteromonadaceae
Gammaproteobacteria;Oceanospirillales;Alcanivoracaceae
Gammaproteobacteria;Thiotrichales;Thiotrichaceae
Gammaproteobacteria;Thiotrichales;Piscirickettsiaceae
Gammaproteobacteria;Xanthomonadales;Sinobacteraceae
Other Taxa
Not Assigned
75%
50%
25%


genus
Mat1
Mat2
Mat3
BaCh1W
BaCh1GC
BaCh1O
BaCh2W
BaCh2O
SedRusty
SedBlack
SiCh
A–MID16
A–MID7
A–MID21
B–MID17
B–MID1
A–MID2
B–MID23
B–MID31
B–MID32
B–MID19
B–MID20
B–MID21
A–MID14
B–MID33
B–MID22
B–MID2
B–MID3
B–MID4
B–MID5
B–MID6
B–MID7
A–MID11
A–MID22
B–MID35
A–MID17
B–MID9
B–MID10
B–MID11
B–MID12
B–MID13
B–MID14
B–MID15
B–MID16
Nitrosopumilales;Nitrosopumilaceae;Nitrosopumilus
Bacillales;Planococcaceae;Paenisporosarcina
Flavobacteriales;Flavobacteriaceae;Maribacter
Phycisphaerales;Phycisphaeraceae;Phycisphaera
Phycisphaerales;Phycisphaeraceae;SM1A02
Brocadiales;Brocadiaceae;Candidatus Scalindua
Planctomycetales;Planctomycetaceae;Rhodopirellula
Planctomycetales;Planctomycetaceae;Pir4 lineage
Planctomycetales;Planctomycetaceae;Planctomyces
Mariprofundales;Mariprofundaceae;Mariprofundus
Campylobacterales;Helicobacteraceae;Arcobacter
Campylobacterales;Helicobacteraceae;Sulfurimonas
Campylobacterales;Helicobacteraceae;Sulfurovum
Nitrospinaceae order incertae sedis;Nitrospinaceae;Nitrospina
Desulfobacterales;Desulfobacteraceae;Desulfobacula
Desulfobacterales;Desulfobacteraceae;Desulfobacterium
Desulfobacterales;Desulfobulbaceae;SEEP−SRB4
Desulfuromonadales;Desulfuromonadaceae;Desulfuromonas
Desulfuromonadales;Geobacteraceae;Geopsychrobacter
Caulobacterales;Hyphomonadaceae;Henriciella
Rhodobacterales;Rhodobacteraceae;Roseovarius
Sedimenticola Order Incertae Sedis;Sedimenticola Family Incertae Sedis;Sedimenticola
Marinicella Order Incertae Sedis;Marinicella Family Incertae Sedis;Marinicella
Pseudomonadales;Moraxellaceae;Psychrobacter
Alteromonadales;Pseudoalteromonadaceae;Pseudoalteromonas
Oceanospirillales;Alcanivoracaceae;Kangiella
Thiotrichales;Thiotrichaceae;Leucothrix
Thiotrichales;Piscirickettsiaceae;Cycloclasticus
Thiotrichales;Piscirickettsiaceae;Thiomicrospira
Xanthomonadales;Sinobacteraceae;JTB255 marine benthic group
Other Taxa
Not Assigned
75%
50%
25%