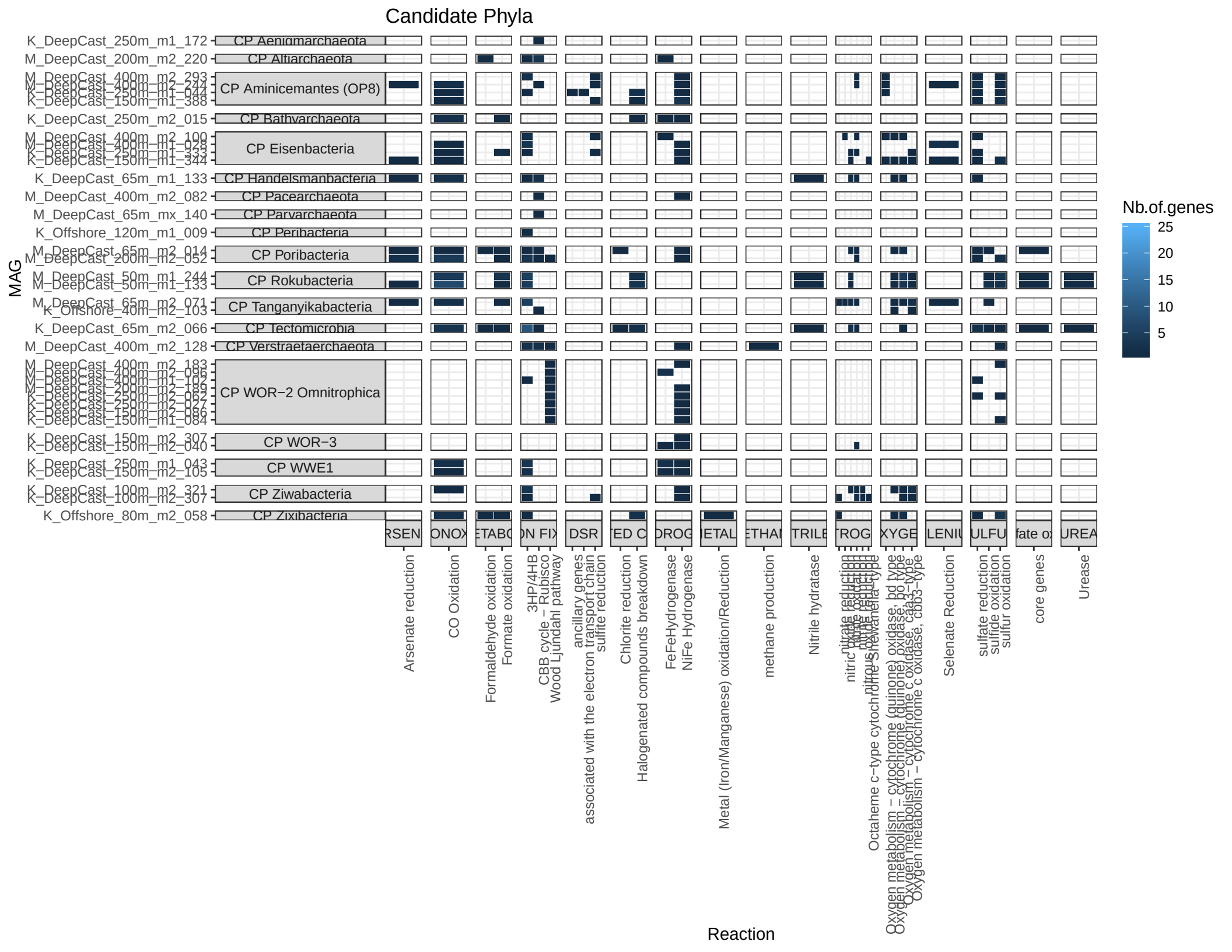
Candidate Phyla
MAG
Reaction
Nb.of.genes
25
20
15
10
5
K_DeepCast_250m_m1_172
M_DeepCast_200m_m2_220
M_DeepCast_400m_m2_293
M_DeepCast_400m_m2_244
K_DeepCast_250m_m1_044
K_DeepCast_150m_m1_388
K_DeepCast_250m_m2_015
M_DeepCast_400m_m2_100
M_DeepCast_400m_m1_028
K_DeepCast_250m_m1_333
K_DeepCast_150m_m1_344
K_DeepCast_65m_m1_133
M_DeepCast_400m_m2_082
M_DeepCast_65m_mx_140
K_Offshore_120m_m1_009
M_DeepCast_65m_m2_014
M_DeepCast_200m_m2_052
M_DeepCast_50m_m1_244
M_DeepCast_50m_m1_133
M_DeepCast_65m_m2_071
K_Offshore_40m_m2_103
K_DeepCast_65m_m2_066
M_DeepCast_400m_m2_128
M_DeepCast_400m_m2_183
M_DeepCast_400m_m2_096
M_DeepCast_400m_m1_102
M_DeepCast_200m_m2_189
K_DeepCast_250m_m2_062
K_DeepCast_250m_m2_027
K_DeepCast_150m_m2_086
K_DeepCast_150m_m1_084
K_DeepCast_150m_m2_307
K_DeepCast_150m_m2_040
K_DeepCast_250m_m1_043
K_DeepCast_150m_m2_105
K_DeepCast_100m_m2_321
K_DeepCast_100m_m2_307
K_Offshore_80m_m2_058
CP Aenigmarchaeota
CP Altiarchaeota
CP Aminicemantes (OP8)
CP Bathyarchaeota
CP Eisenbacteria
CP Handelsmanbacteria
CP Pacearchaeota
CP Parvarchaeota
CP Peribacteria
CP Poribacteria
CP Rokubacteria
CP Tanganyikabacteria
CP Tectomicrobia
CP Verstraetaerchaeota
CP WOR−2 Omnitrophica
CP WOR−3
CP WWE1
CP Ziwabacteria
CP Zixibacteria
RSEN
ONOX
ETABC
ON FIX
DSR
ED C
DROG
IETAL
ETHAN
TRILE
TROG
XYGE
LENIU
ULFU
fate ox
UREA
Arsenate reduction
CO Oxidation
Formaldehyde oxidation
Formate oxidation
3HP/4HB
CBB cycle – Rubisco
Wood Ljundahl pathway
ancillary genes
associated with the electron transport chain
sulfite reduction
Chlorite reduction
Halogenated compounds breakdown
FeFeHydrogenase
NiFe Hydrogenase
Metal (Iron/Manganese) oxidation/Reduction
methane production
Nitrile hydratase
nitric oxide reduction
nitrite reduction
nitrous oxide reduction
Octaheme c−type cytochrome
Shewanella−type
Oxygen metabolism – cytochrome (quinone) oxidase, bd type
Oxygen metabolism – cytochrome (quinone) oxidase, bo type
Oxygen metabolism – cytochrome c oxidase, caa3−type
Oxygen metabolism – cytochrome c oxidase, cbb3−type
Selenate Reduction
sulfate reduction
sulfide oxidation
sulfur oxidation
core genes
Urease