

Predicted Toxin (Red Pentagon) Domain ID: D45

-- RefSeq Protein Description: type II toxin-antitoxin system PemK/MazF family toxin

-- TADB Annotation: ppGpp-regulated growth inhibitor ChpA/MazF; PubMed: 12718874

-- NCBI-CDD Annotation: PemK_toxin superfamily

-- HHpred(Pfam) Annotation: PemK_toxin ; PemK-like, MazF-like toxin of type II toxin-antitoxin system (98.97%)

-- HHpred(PDB) Annotation: PemK-like cell growth regulatory protein (98.65%)

Predicted Antitoxin (Blue Pentagon) Domain ID: D102

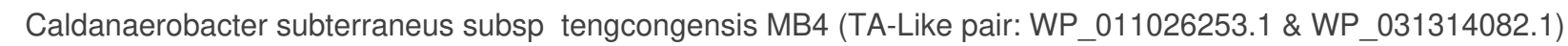
-- RefSeq Protein Description: ribbon-helix-helix protein, CopG family

-- TADB Annotation: No Hit

-- NCBI-CDD Annotation: NikR superfamily

-- HHpred(Pfam) Annotation: RHH_8 ; Ribbon-Helix-Helix transcriptional regulator family (97.31%)

-- HHpred(PDB) Annotation: mRNA interferase EndoA (99.10%)



Nostoc commune NIES 4072 (TA-Like pair: WP_109012346.1 & WP_109012347.1)

Nitrosococcus halophilus Nc 4 (TA-Like pair: WP_013031413.1 & WP_013031412.1)

Desulfosarcina widdelii (TA-Like pair: WP_155302160.1 & WP_197740481.1)

Desulfobacterium vacuolatum DSM 3385 (TA-Like pair: WP_084068391.1 & WP_170923764.1)

Dyadobacter soli (TA-Like pair: WP_143016787.1 & WP_090146479.1)

Nitrospira moscoviensis (TA-Like pair: WP_053380659.1 & WP_053382105.1)

Nitrosomonas aestuarii (TA-Like pair: WP_107796476.1 & WP_107796475.1)

Candidatus Sulfopaludibacter sp SbA3 (TA-Like pair: WP_105497885.1 & WP_105497886.1)

endosymbiont GvMRE of *Glomus versiforme* (TA-Like pair: WP_147410089.1 & WP_172575258.1)

endosymbiont of *Acanthamoeba* sp UWC8 (TA-Like pair: WP_148299514.1 & WP_084173820.1)

Candidatus Bipolaricaulis anaerobius (TA-Like pair: WP_157959537.1 & WP_122031668.1)

Deferribacter autotrophicus (TA-Like pair: WP_149266883.1 & WP_149266955.1)

Thermacetogenium phaeum DSM 12270 (TA-Like pair: WP_015049494.1 & WP_015049495.1)

Dokdonia pacifica (TA-Like pair: WP_089372226.1 & WP_089372227.1

Rubritalea profunda (TA-Like pair: WP_105044183.1 & WP_105044873.1)

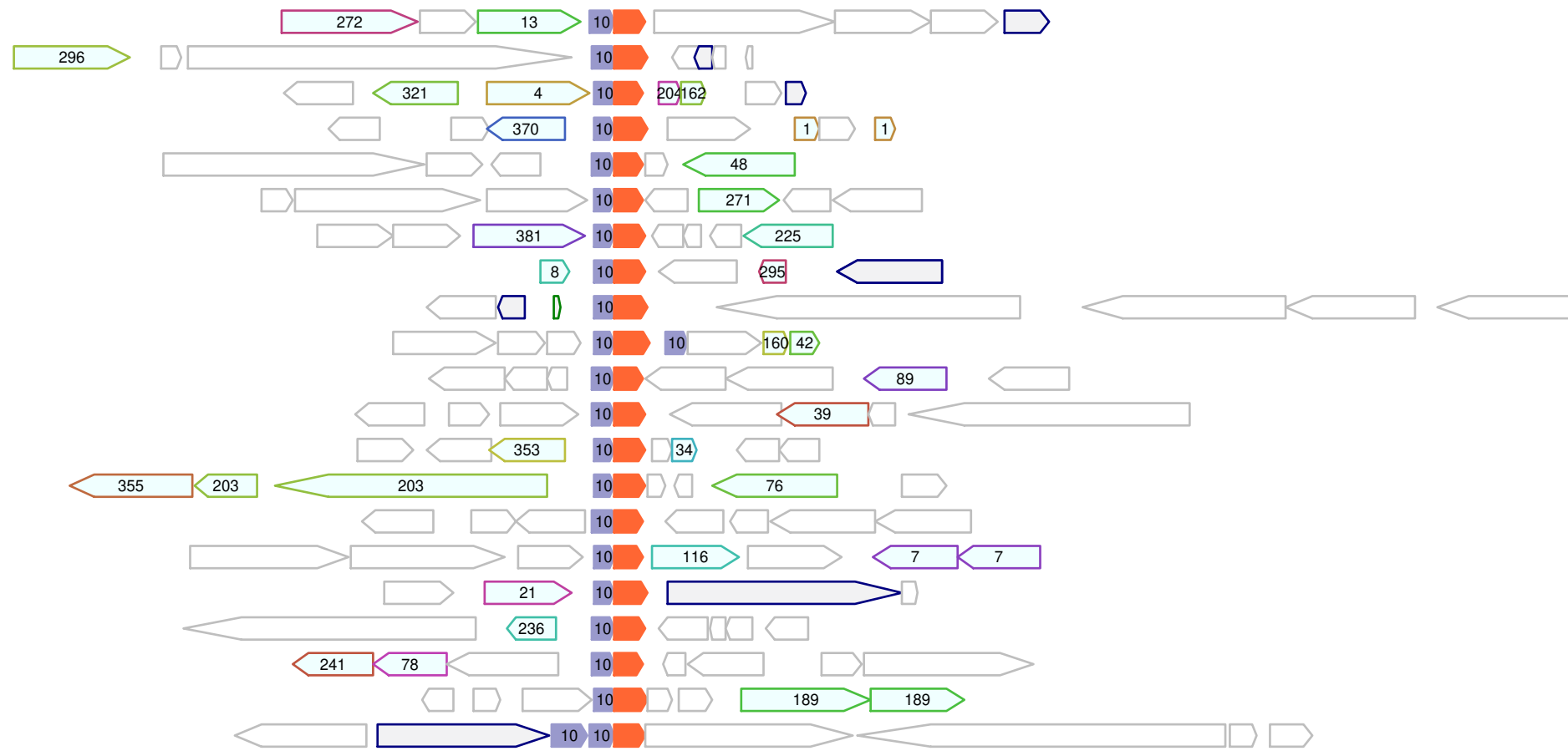
Gloeocapsopsis crepidinum LEGE 06123 (TA-Like pair: WP_193935022.1 & WP_193935021.1)

Alkalispirochaeta odontotermis (TA-Like pair: WP_037561776.1 & WP_037561775.1)

Candidatus Desulfofervidus auxilii (TA-Like pair: WP_066060368.1 & WP_066060367.1)

endosymbiont DhMRE of *Dentiscutata heterogama* (TA-Like pair: WP_195909698.1 & WP_195909697.1)

endosymbiont GvMRE of *Glomus versiforme* (TA-Like pair: WP_147409633.1 & WP_147409634.1)



** For the description of flanking genes, please check this link: http://130.235.240.53/NetFlax/T8_pdfs/D102.txt