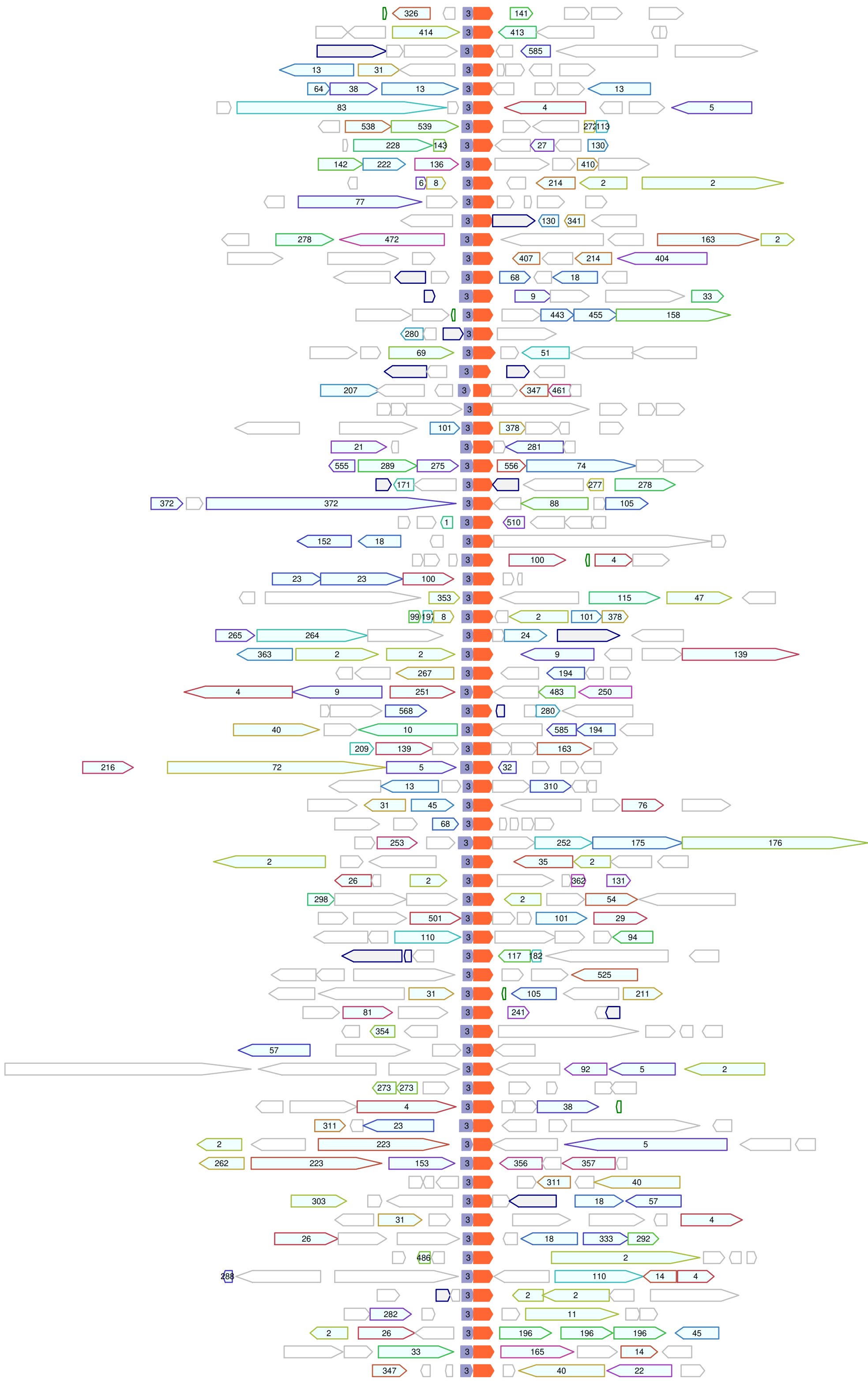


Predicted Toxin (Red Pentagon) Domain ID: D128
-- RefSeq Protein Description: type II toxin-antitoxin system VapC family toxin
-- TADB Annotation: Possible toxin VapC10; PubMed: 20011113
-- NCBI-CDD Annotation: PIN_VapC4-5_FitB-like
-- HHpred(Pfam) Annotation: DUF4411 ; Domain of unknown function (DUF4411) (97.07%)
-- HHpred(PDB) Annotation: tRNA(fMet)-specific endonuclease VapC (97.99%)

Salmonella enterica subsp. enterica serovar Typhimurium str. LT2 (TA-Like pair: NP_461951.1 & NP_461950.1)
Pelodictyon phaeoclathratiforme BU 1 (TA-Like pair: WP_012509397.1 & WP_012509396.1)
Xylella taiwanensis (TA-Like pair: WP_038272460.1 & WP_038272463.1)
Caballeronia pedi (TA-Like pair: WP_061177632.1 & WP_061177631.1)
Chlorobium phaeobacteroides DSM 266 (TA-Like pair: WP_041467130.1 & WP_011744001.1)
Oscillatoria nigro viridis PCC 7112 (TA-Like pair: WP_015175579.1 & WP_015175580.1)
Mesorhizobium camelthorni (TA-Like pair: WP_165025165.1 & WP_165025168.1)
Buttiauxella gaviniae ATCC 51604 (TA-Like pair: WP_064516840.1 & WP_064516842.1)
Bosea lathyri (TA-Like pair: WP_103871091.1 & WP_103871092.1)
Desulfonatronum thioautotrophicum (TA-Like pair: WP_045221259.1 & WP_045221258.1)
Acinetobacter chinensis (TA-Like pair: WP_087513979.1 & WP_087513980.1)
Alysiella crassa DSM 2578 (TA-Like pair: WP_034294260.1 & WP_034294258.1)
Polaromonas naphthalenivorans CJ2 (TA-Like pair: WP_011803043.1 & WP_011803044.1)
Candidatus Kuenenia stuttgartiensis (TA-Like pair: WP_099325310.1 & WP_099325311.1)
Neisseria bacilliformis (TA-Like pair: WP_007341084.1 & WP_007341083.1)
Desulfonatronum thiosulfatophilum (TA-Like pair: WP_092123704.1 & WP_092123706.1)
Cysteinephilum litorale (TA-Like pair: WP_117003882.1 & WP_117003881.1)
Crenothrix polyspora (TA-Like pair: WP_179210111.1 & WP_087145824.1)
Pseudidiomarina homiensis (TA-Like pair: WP_126770011.1 & WP_126770013.1)
Crocosphaera watsonii WH 0005 (TA-Like pair: WP_007309100.1 & WP_007309352.1)
Rubrobacter aplysinae (TA-Like pair: WP_047865498.1 & WP_200900350.1)
Helicobacter canis (TA-Like pair: WP_023929177.1 & WP_023929175.1)
Methylovulum psychrotolerans (TA-Like pair: WP_088621713.1 & WP_088621714.1)
Nguyenibacter vanlangensis (TA-Like pair: WP_176640091.1 & WP_176640094.1)
Corynebacterium mucifaciens (TA-Like pair: WP_168685237.1 & WP_168685239.1)
Pseudoarcobacter acticola (TA-Like pair: WP_172125632.1 & WP_172125634.1)
Geobacter thiogenes (TA-Like pair: WP_078790771.1 & WP_078790770.1)
Rhabdaerophilum caldifontis (TA-Like pair: WP_150288541.1 & WP_150288542.1)
bacterium endosymbiont of Bathymodiolus sp. 5 South (TA-Like pair: WP_139660001.1 & WP_139699250.1)
Ghiorea bivora (TA-Like pair: WP_038249417.1 & WP_038249414.1)
Alkalispirochaeta americana (TA-Like pair: WP_076489995.1 & WP_076489996.1)
Leucobacter celer subsp. astrifaciens (TA-Like pair: WP_053385499.1 & WP_053385500.1)
Persephonella marina EX H1 (TA-Like pair: WP_012676882.1 & WP_012676554.1)
Bathymodiolus thermophilus thioautotrophic gill symbiont (TA-Like pair: WP_122951259.1 & WP_122951260.1)
Pseudoxanthomonas spadix BD a59 (TA-Like pair: WP_014159879.1 & WP_014159878.1)
Kingella oralis (TA-Like pair: WP_003793850.1 & WP_003793849.1)
Ideonella azotifigens (TA-Like pair: WP_141286516.1 & WP_141286534.1)
Candidatus Regiella insecticola (TA-Like pair: WP_176487238.1 & WP_176487237.1)
Prosthecomicrobium pneumaticum (TA-Like pair: WP_183857598.1 & WP_183857416.1)
Candidatus Phycosocius bacilliformis (TA-Like pair: WP_108984826.1 & WP_108984827.1)
Candidatus Thiodictyon syntrophicum (TA-Like pair: WP_100917876.1 & WP_100917875.1)
Turneriella parva DSM 21527 (TA-Like pair: WP_014802621.1 & WP_041948376.1)
Acinetobacter populi (TA-Like pair: WP_087619773.1 & WP_087619772.1)
Desulfospira joergensenii DSM 10085 (TA-Like pair: WP_022669469.1 & WP_022669470.1)
Rhodoferax fermentans (TA-Like pair: WP_078366486.1 & WP_078366487.1)
Campylobacter curvus (TA-Like pair: WP_018137148.1 & WP_018137147.1)
Piscirickettsia litoralis (TA-Like pair: WP_069314000.1 & WP_069313999.1)
Puniceicoccus vermicola (TA-Like pair: WP_185693429.1 & WP_185693430.1)
Meiothermus silvanus DSM 9946 (TA-Like pair: WP_013157394.1 & WP_013157395.1)
Tessaracoccus timonensis (TA-Like pair: WP_108871335.1 & WP_108871336.1)
Tessaracoccus massiliensis (TA-Like pair: WP_040282208.1 & WP_040282210.1)
Phragmitibacter flavus (TA-Like pair: WP_138086697.1 & WP_138086696.1)
Bordetella genomosp. 1 (TA-Like pair: WP_094828928.1 & WP_094828929.1)
Caballeronia mineralivorans PML1 12 (TA-Like pair: WP_047897443.1 & WP_200908749.1)
Terracidiphilus gabretensis (TA-Like pair: WP_058188155.1 & WP_058188154.1)
Cephalotococcus primus (TA-Like pair: WP_068631269.1 & WP_068631271.1)
Terracidiphilus gabretensis (TA-Like pair: WP_058188134.1 & WP_058188135.1)
Nitrosococcus wardiae (TA-Like pair: WP_134359923.1 & WP_134359922.1)
Campylobacter rectus (TA-Like pair: WP_002946035.1 & WP_002946030.1)
Steroidobacter soli (TA-Like pair: WP_129776809.1 & WP_129776810.1)
Coraliomargarita sinensis (TA-Like pair: WP_110129703.1 & WP_110129702.1)
Azohydromonas lata NBRC 102462 (TA-Like pair: WP_066341878.1 & WP_066341879.1)
Aestuariairvinga litoralis (TA-Like pair: WP_196502355.1 & WP_196502354.1)
Deinococcus malanensis (TA-Like pair: WP_189011945.1 & WP_189011943.1)
Pelistega suis (TA-Like pair: WP_171679790.1 & WP_171679791.1)
Roseobacter denitrificans (TA-Like pair: WP_011655383.1 & WP_011655384.1)
Oligoflexus tunisiensis (TA-Like pair: WP_141731318.1 & WP_141731319.1)
Terriglobus saanensis SP1PR4 (TA-Like pair: WP_083812003.1 & WP_013569811.1)
Rubrimonas cliftonensis (TA-Like pair: WP_093255971.1 & WP_093255973.1)
Desulfotignum balticum DSM 7044 (TA-Like pair: WP_024335350.1 & WP_024335349.1)
Starkeya novella DSM 506 (TA-Like pair: WP_013165715.1 & WP_013165716.1)
Phytoactinopolyspora mesophila (TA-Like pair: WP_162453022.1 & WP_162453021.1)
Methyloversatilis thermotolerans (TA-Like pair: WP_018412190.1 & WP_018412191.1)



Predicted Antitoxin (Blue Pentagon) Domain ID: D142
-- RefSeq Protein Description: AbrB/MazE/SpoVT family DNA-binding domain-containing protein
-- TADB Annotation: No Hit
-- NCBI-CDD Annotation: MazE_antitoxin superfamily
-- HHpred(Pfam) Annotation: MazE_antitoxin ; Antidote-toxin recognition MazE, bacterial antitoxin (91.23%)
-- HHpred(PDB) Annotation: Antitoxin, tRNA(fMet)-specific endonuclease VapC (98.15%)