

Predicted Toxin (Red Pentagon) Domain ID: D54  
-- RefSeq Protein Description: PIN domain-containing protein  
-- TADB Annotation: No Hit  
-- NCBI-CDD Annotation: PIN\_VapC-like  
-- HHpred(Pfam) Annotation: PIN\_2 : PIN domain (97.31%)  
-- HHpred(PDB) Annotation: 23S rRNA-specific endonuclease VapC20 (98.02%)

Predicted Antitoxin (Blue Pentagon) Domain ID: D99  
-- RefSeq Protein Description: DUF104 domain-containing protein  
-- TADB Annotation: No Hit  
-- NCBI-CDD Annotation: No Hit  
-- HHpred(Pfam) Annotation: No Hit  
-- HHpred(PDB) Annotation: AbrB family transcriptional regulator (66.52%)

Sphaerospermopsis kisseleviana NIES 73 (TA-Like pair: WP\_096571719.1 & WP\_096571718.1)  
Brasionema sennae CENA114 (TA-Like pair: WP\_171977039.1 & WP\_171977040.1)  
Cyanosarcina cf burmensis CCALE 770 (TA-Like pair: WP\_106168710.1 & WP\_106218196.1)  
Microcystis aeruginosa NIES 843 (TA-Like pair: WP\_004163522.1 & WP\_012264121.1)  
Microcystis viridis NIES 102 (TA-Like pair: WP\_041803755.1 & WP\_125731724.1)  
Planktothrix paucivesiculata PCC 9631 (TA-Like pair: WP\_083622242.1 & WP\_083622245.1)  
Mucilaginibacter gracilis (TA-Like pair: WP\_121197331.1 & WP\_121197330.1)  
Coleofasciculus chthonoplastes PCC 7420 (TA-Like pair: WP\_006101745.1 & WP\_006101751.1)  
Treponema primitia ZAS 2 (TA-Like pair: WP\_041610969.1 & WP\_148257211.1)  
Planktothrix sarta PCC 8927 (TA-Like pair: WP\_083625634.1 & WP\_083625633.1)  
Mucilaginibacter gracilis (TA-Like pair: WP\_121197055.1 & WP\_121197054.1)  
Dyadobacter psychrotolerans (TA-Like pair: WP\_131960709.1 & WP\_131960708.1)  
Limnothrix rosea IAM M 220 (TA-Like pair: WP\_075892057.1 & WP\_075892059.1)  
Nostoc commune NIES 4072 (TA-Like pair: WP\_109008950.1 & WP\_109008951.1)  
Crocospaera chwakensis CCY0110 (TA-Like pair: WP\_008275798.1 & WP\_008275797.1)  
Treponema primitia ZAS 2 (TA-Like pair: WP\_015707459.1 & WP\_041611049.1)  
Dyadobacter soli (TA-Like pair: WP\_176885127.1 & WP\_176885128.1)  
Geobacter uraniireducens Rf4 (TA-Like pair: WP\_011937533.1 & WP\_011937532.1)  
Geminocystis herdmanni PCC 6308 (TA-Like pair: WP\_017296041.1 & WP\_017296042.1)  
Parapedobacter luteus (TA-Like pair: WP\_079715264.1 & WP\_079715263.1)  
Scytonema hofmanni UTEX 2349 (TA-Like pair: WP\_029633853.1 & WP\_029633852.1)  
Phormidium ambiguum IAM M 71 (TA-Like pair: WP\_073596534.1 & WP\_073596535.1)  
Thiomicrospira microaerophila (TA-Like pair: WP\_044408400.1 & WP\_083944940.1)  
Mariniradius saccharolyticus AK6 (TA-Like pair: WP\_008627278.1 & WP\_040480018.1)  
Candidatus Symbiothrix dinenymphae (TA-Like pair: WP\_055430704.1 & WP\_055430703.1)  
Candidatus Symbiothrix dinenymphae (TA-Like pair: WP\_055431124.1 & WP\_055431125.1)  
Desulfobacter latus (TA-Like pair: WP\_178366390.1 & WP\_178366391.1)  
Calothrix desertica PCC 7102 (TA-Like pair: WP\_127085372.1 & WP\_127085398.1)  
Phormidesmis priestleyi ULC007 (TA-Like pair: WP\_073072758.1 & WP\_073072756.1)  
Roseiflexus castenholzii DSM 13941 (TA-Like pair: WP\_012121458.1 & WP\_041330900.1)  
Proteiniphilum acetatigenes DSM 18083 (TA-Like pair: WP\_157278942.1 & WP\_019538395.1)  
Oscillochloris trichoides DG 6 (TA-Like pair: WP\_044200062.1 & WP\_052294983.1)  
Flavipyschrobacter stenotrophus (TA-Like pair: WP\_105037382.1 & WP\_161499170.1)  
Candidatus Viridilinea medialisalina (TA-Like pair: WP\_097645962.1 & WP\_097645967.1)  
Leptolyngbya boryana NIES 2135 (TA-Like pair: WP\_017289682.1 & WP\_017289683.1)  
Phaeodactylibacter xiamenensis (TA-Like pair: WP\_044220617.1 & WP\_160213743.1)  
Desulfonatronum thioautotrophicum (TA-Like pair: WP\_045219881.1 & WP\_045219883.1)  
Mucilaginibacter myungsuensis (TA-Like pair: WP\_194111136.1 & WP\_194111135.1)  
Microcystis flos aquae FACHB 1344 (TA-Like pair: WP\_190720643.1 & WP\_002761289.1)  
Candidatus Oscillochloris fontis (TA-Like pair: WP\_129626414.1 & WP\_129626103.1)  
Desulfamplus magnetovallimortis (TA-Like pair: WP\_080803679.1 & WP\_080803683.1)  
Crocospaera subtypica ATCC 51142 (TA-Like pair: WP\_009546098.1 & WP\_009546099.1)  
Crenothrix polyspora (TA-Like pair: WP\_087148023.1 & WP\_087148022.1)  
Thiohalocapsa halophila (TA-Like pair: WP\_200233897.1 & WP\_200233898.1)  
Beggiatoa alba B18LD (TA-Like pair: WP\_002684244.1 & WP\_002684243.1)  
Thiomicrospira aerophila AL3 (TA-Like pair: WP\_006460664.1 & WP\_006460665.1)  
Candidatus Chloroploca sp Khr17 (TA-Like pair: WP\_129671249.1 & WP\_129671250.1)  
Euhalothece natronophila Z M001 (TA-Like pair: WP\_146296337.1 & WP\_146296335.1)  
Spirosoma aerolatum (TA-Like pair: WP\_080054713.1 & WP\_080054712.1)

