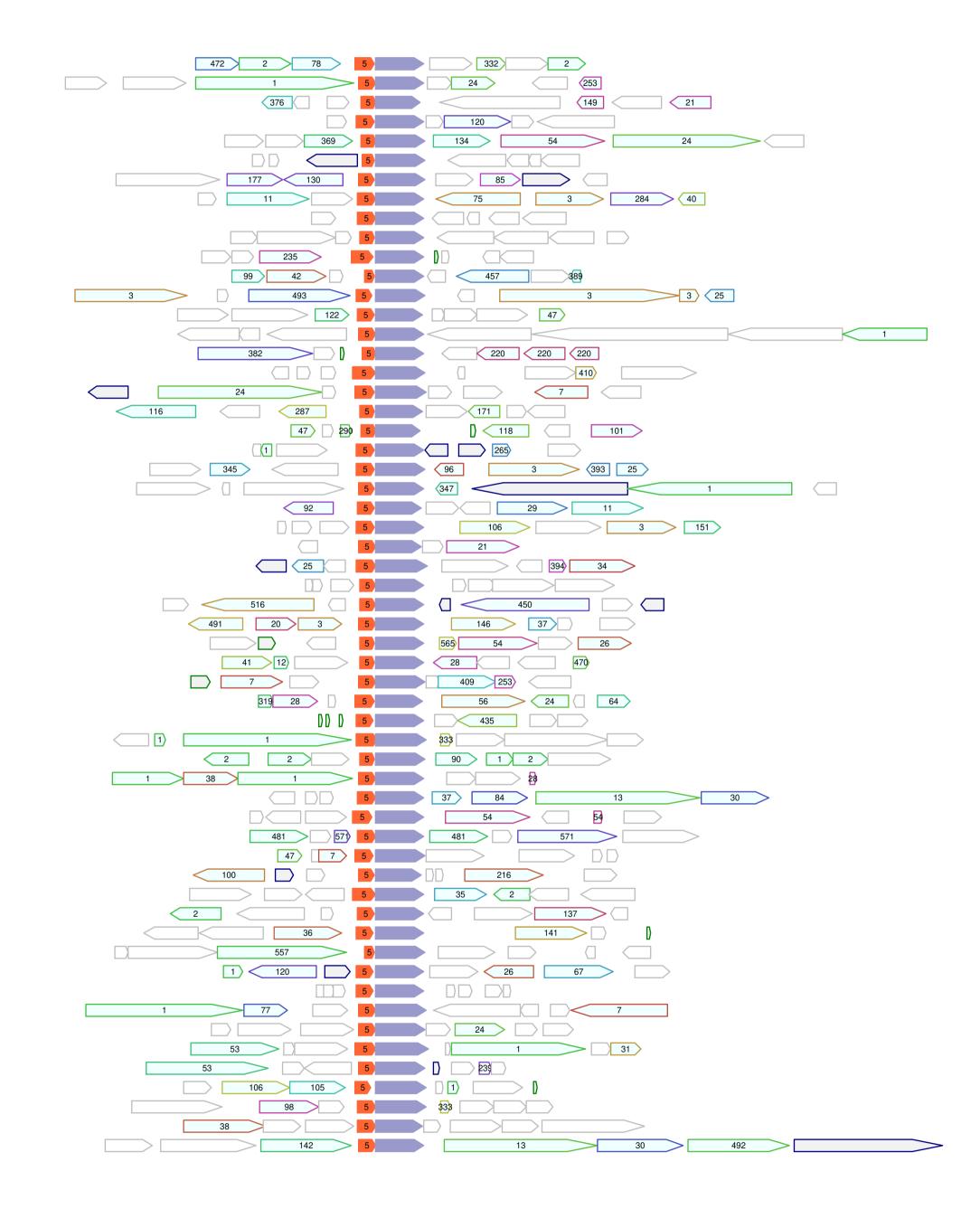
Antitoxin (Blue Pentagon) Domain Name: PanA

Oceanivirga salmonicida (TA-Like pair: WP 156286012.1 & WP 156286013.1) Pontibacter ummariensis (TA-Like pair: WP_089320878.1 & WP_089320877.1) Lactobacillus chiayiensis (TA-Like pair: WP_129302311.1 & WP_129302312.1) Lachnoanaerobaculum saburreum (TA-Like pair: WP 060930932.1 & WP 060930933.1) Caldicellulosiruptor naganoensis NA10 (TA-Like pair: WP_083943572.1 & WP_045166403.1) Desulfofarcimen acetoxidans DSM 771 (TA-Like pair: WP 015758352.1 & WP 015758351.1) Hungateiclostridium mesophilum (TA-Like pair: WP_069194582.1 & WP_069194581.1) Eggerthella lenta DSM 2243 (TA-Like pair: WP_081434217.1 & WP_035585634.1) Marinoscillum furvescens DSM 4134 (TA-Like pair: WP 115870421.1 & WP 115870420.1) Holdemania filiformis (TA-Like pair: WP 117895944.1 & WP 117895910.1) Bacillus bombysepticus str Wang (TA-Like pair: WP 048549445.1 & WP 044585138.1) Joostella marina DSM 19592 (TA-Like pair: WP 050989665.1 & WP 008612108.1) Paenibacillus contaminans (TA-Like pair: WP 113033925.1 & WP 113033926.1) Lactobacillus mindensis DSM 14500 (TA-Like pair: WP_057888059.1 & WP_057888058.1) Bacteroides ovatus (TA-Like pair: WP 115484493.1 & WP 115484494.1) Flavobacterium araucananum (TA-Like pair: WP 089478782.1 & WP 089478781.1) Alkaliphilus metalliredigens QYMF (TA-Like pair: WP_012062134.1 & WP_012062135.1) Bacillus fungorum (TA-Like pair: WP 099686063.1 & WP 099686064.1) Lactobacillus rossiae (TA-Like pair: WP 017263062.1 & WP 017263061.1) Lactococcus lactis subsp lactis II1403 (TA-Like pair: WP 010906205.1 & WP 010906204.1) Fervidicola ferrireducens (TA-Like pair: WP 066350948.1 & WP 066350943.1) Bacillus massilionigeriensis (TA-Like pair: WP 084780436.1 & WP 075982586.1) Bacteroides luti (TA-Like pair: WP 073400063.1 & WP 175550481.1) Companilactobacillus mishanensis (TA-Like pair: WP 164504952.1 & WP 125706244.1) Desulfosporosinus fructosivorans (TA-Like pair: WP 135546696.1 & WP 135546698.1) Paramuribaculum intestinale (TA-Like pair: WP 107037044.1 & WP 161553880.1) Enteroscipio rubneri (TA-Like pair: WP 129588450.1 & WP 103263858.1) Thermosipho globiformans (TA-Like pair: WP_126992241.1 & WP_164723670.1) Lactobacillus diolivorans DSM 14421 (TA-Like pair: WP_057864036.1 & WP_083484896.1) Pedobacter antarcticus (TA-Like pair: WP 051760089.1 & WP 037442899.1) Proteocatella sphenisci DSM 23131 (TA-Like pair: WP_084502844.1 & WP_051188533.1) Selenomonas ruminantium subsp lactilytica TAM6421 (TA-Like pair: WP_158645813.1 & WP_014425462.1) Aequorivita antarctica (TA-Like pair: WP_111844384.1 & WP_111844383.1) Numidum massiliense (TA-Like pair: WP 054950683.1 & WP 054950682.1) Methylomusa anaerophila (TA-Like pair: WP_158618786.1 & WP_126309227.1) Hymenobacter lapidarius (TA-Like pair: WP_158011057.1 & WP_070729762.1) Lactobacillus fabifermentans DSM 21115 (TA-Like pair: WP 024623756.1 & WP 081754384.1) Aliifodinibius roseus (TA-Like pair: WP_073068562.1 & WP 073068560.1) Pedobacter hartonius (TA-Like pair: WP 139298333.1 & WP 175470596.1) Filibacter limicola (TA-Like pair: WP 192597039.1 & WP 192597038.1) Desulfofundulus thermobenzoicus (TA-Like pair: WP_152947184.1 & WP_194174910.1) Anoxybacillus calidus (TA-Like pair: WP 181538893.1 & WP 181538892.1) Inordinaticella fortuita (TA-Like pair: WP 162895788.1 & WP 162895787.1) Adlercreutzia muris (TA-Like pair: WP_160324693.1 & WP_160324694.1) Syntrophomonas wolfei subsp wolfei str Goettingen G311 (TA-Like pair: WP 011641800.1 & WP 011641799.1) Flexilinea flocculi (TA-Like pair: WP 062279110.1 & WP 062279112.1) Hippea alviniae EP5 r (TA-Like pair: WP_051129544.1 & WP_022669785.1) Salinicoccus gingdaonensis (TA-Like pair: WP 143003971.1 & WP 176754144.1) Desulforegula conservatrix Mb1Pa (TA-Like pair: WP_027360416.1 & WP_198013933.1) Colwellia piezophila ATCC BAA 637 (TA-Like pair: WP_019025706.1 & WP_019025707.1) Sedimentisphaera salicampi (TA-Like pair: WP 085755732.1 & WP 085755731.1) Ezakiella massiliensis (TA-Like pair: WP 075574378.1 & WP 075574379.1) Olsenella mediterranea (TA-Like pair: WP_072375281.1 & WP_159431295.1) Salinicoccus cyprini (TA-Like pair: WP_186365437.1 & WP_145284685.1) Hymenobacter coccineus (TA-Like pair: WP_125917172.1 & WP_070747132.1) Gracilimonas amylolytica (TA-Like pair: WP 103665890.1 & WP 103665891.1) Chitinophaga oryziterrae (TA-Like pair: WP_157299460.1 & WP_157299461.1)

Predicted Toxin (Red Pentagon) Domain ID: D2

- -- RefSeq Protein Description: type II toxin-antitoxin system MqsR family toxin
- -- TADB Annotation: No Hit
- -- NCBI-CDD Annotation: No Hit
- -- HHpred(Pfam) Annotation: MqsR_toxin; Motility quorum-sensing regulator, toxin of MqsA (97.33%)
- -- HHpred(PDB) Annotation: HTH-type transcriptional regulator ygiT, Motility (98.23%)



^{**} For the description of flanking genes, please check this link: http://130.235.240.53/NetFlax/T8_pdfs/D2.txt