

Predicted Toxin (Red Pentagon) Domain ID: D41

-- RefSeq Protein Description: helix-turn-helix transcriptional regulator

-- TADB Annotation: No Hit

-- NCBI-CDD Annotation: CxxCG\_CxxCG\_HTH superfamily

-- HHpred(Pfam) Annotation: MqsA\_antitoxin ; Antitoxin component of bacterial toxin-antitoxin system, MqsA (98.42%)

-- HHpred(PDB) Annotation: Uncharacterized HTH-type transcriptional regulator ygiT (98.36%)

Predicted Antitoxin (Blue Pentagon) Domain ID: D95

-- RefSeq Protein Description: site-specific integrase

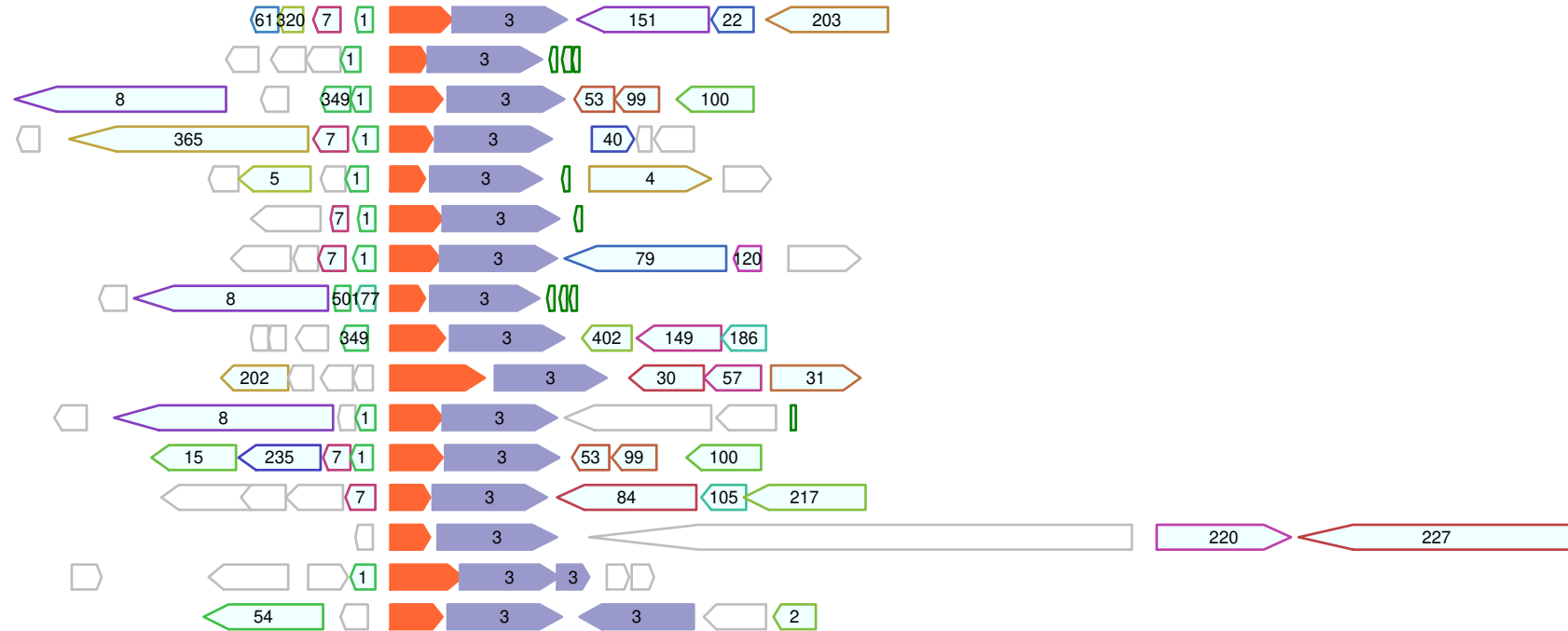
-- TADB Annotation: No Hit

-- NCBI-CDD Annotation: Phage\_int\_SAM\_3\_DNA\_BRE\_C superfamily

-- HHpred(Pfam) Annotation: Phage\_integr\_3 ; Archaeal phage integrase (97.47%)

-- HHpred(PDB) Annotation: Int protein/DNA Complex (99.04%)

Halobacillus aidingensis (TA-Like pair: WP\_089652329.1 & WP\_089652330.1)  
Vallitalea guaymasensis (TA-Like pair: WP\_113673719.1 & WP\_193774562.1)  
Bacillus urumqiensis (TA-Like pair: WP\_105960063.1 & WP\_105960064.1)  
Domibacillus mangrovi (TA-Like pair: WP\_073710751.1 & WP\_073710750.1)  
Clostridium thermopalmarium DSM 5974 (TA-Like pair: WP\_106024510.1 & WP\_106024509.1)  
Clostridium tepidiprofundum DSM 19306 (TA-Like pair: WP\_066827598.1 & WP\_066827600.1)  
Cytobacillus kochii (TA-Like pair: WP\_095370801.1 & WP\_095370802.1)  
Mediterraneibacter massiliensis (TA-Like pair: WP\_059068047.1 & WP\_059068045.1)  
Carnobacterium funditum DSM 5970 (TA-Like pair: WP\_051912605.1 & WP\_034551658.1)  
Enterococcus faecalis V583 (TA-Like pair: WP\_010707088.1 & WP\_010707087.1)  
Cellulosilyticum lentocellum DSM 5427 (TA-Like pair: WP\_013657621.1 & WP\_013657622.1)  
Bacillus kwashiorkori (TA-Like pair: WP\_071435376.1 & WP\_062349876.1)  
Bacillus timonensis (TA-Like pair: WP\_083849074.1 & WP\_010676447.1)  
Candidatus Gallimonas faecium (TA-Like pair: WP\_191356582.1 & WP\_191356581.1)  
Desulfosporosinus fructosivorans (TA-Like pair: WP\_199242579.1 & WP\_135548884.1)  
Lactobacillus salitolerans (TA-Like pair: WP\_124976808.1 & WP\_124976810.1)



\*\* For the description of flanking genes, please check this link: [http://130.235.240.53/NetFlax/T8\\_pdfs/D95.txt](http://130.235.240.53/NetFlax/T8_pdfs/D95.txt)