

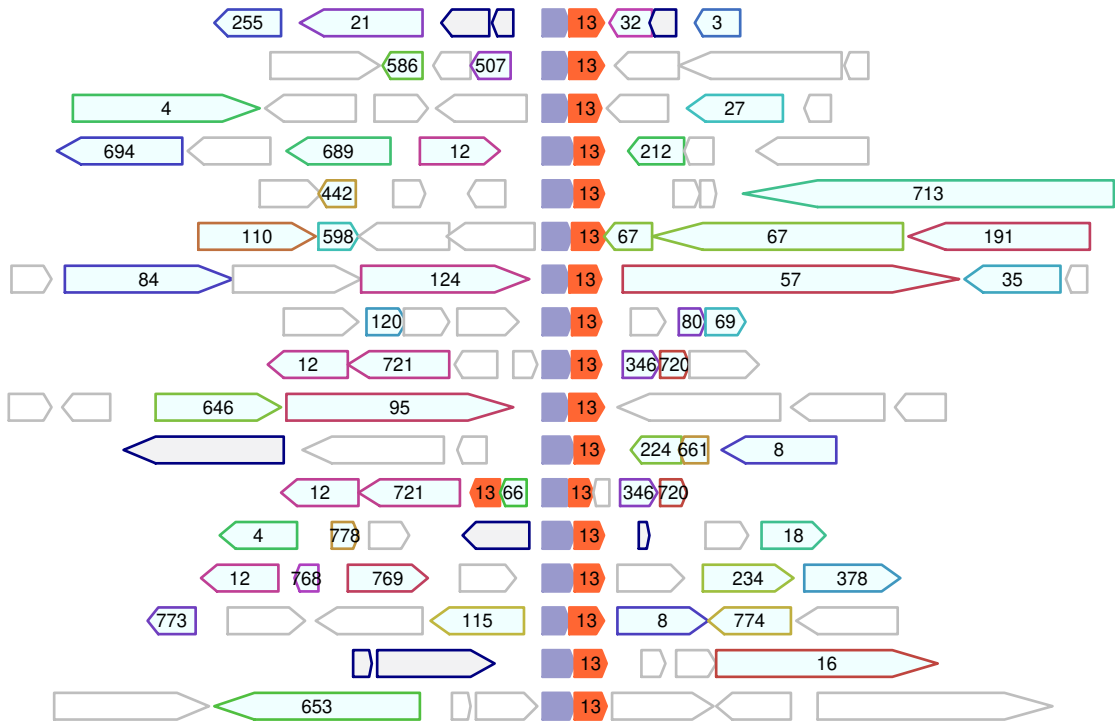
Predicted Antitoxin (Blue Pentagon) Domain ID: D31

- RefSeq Protein Description: type II toxin-antitoxin system Phd/YefM family antitoxin
- TADB Annotation: No Hit
- NCBI-CDD Annotation: PhdYeFM_antitox
- HHpred(Pfam) Annotation: PhdYeFM_antitox ; Antitoxin Phd_YefM, type II toxin-antitoxin system (93.89%)
- HHpred(PDB) Annotation: Antitoxin VapB46 (96.43%)

Predicted Toxin (Red Pentagon) Domain ID: D53

- RefSeq Protein Description: type II toxin-antitoxin system RelE/ParE family toxin
- TADB Annotation: Possible toxin ParE1; PubMed: 19016878
- NCBI-CDD Annotation: ParE
- HHpred(Pfam) Annotation: ParE_toxin ; ParE toxin of type II toxin-antitoxin system, parDE (97.21%)
- HHpred(PDB) Annotation: Toxin protein parE-1, Antitoxin protein (98.97%)

- Nitrosomonas europaea ATCC 19718 (TA-Like pair: WP_011112621.1 & WP_011112620.1)
- Nitrosospira multiformis ATCC 25196 (TA-Like pair: WP_011382058.1 & WP_011382057.1)
- Paraglaciecola arctica BSs20135 (TA-Like pair: WP_007617703.1 & WP_007617701.1)
- Thioflavicoccus mobilis 8321 (TA-Like pair: WP_015279404.1 & WP_015279405.1)
- Lamprocystis purpurea DSM 4197 (TA-Like pair: WP_020507052.1 & WP_020507053.1)
- Hellea balneolensis DSM 19091 (TA-Like pair: WP_026940836.1 & WP_034387087.1)
- Sulfurovum riftiae (TA-Like pair: WP_067328707.1 & WP_067328708.1)
- Candidatus Methylomirabilis limnetica (TA-Like pair: WP_107560957.1 & WP_107560956.1)
- Hyphobacterium indicum (TA-Like pair: WP_109260160.1 & WP_109260159.1)
- Alteromonas mediterranea (TA-Like pair: WP_020745699.1 & WP_157315842.1)
- Thiorhodococcus minor (TA-Like pair: WP_164455836.1 & WP_164455834.1)
- Glycocalis albus (TA-Like pair: WP_188452524.1 & WP_188452523.1)
- Thiocystis violacea (TA-Like pair: WP_200332690.1 & WP_200332691.1)
- Thiohalocapsa halophila (TA-Like pair: WP_200238891.1 & WP_200238894.1)
- Persicirhabdus sediminis (TA-Like pair: WP_200312033.1 & WP_200312034.1)
- Bathymodiolus brooksi thiotrophic gill symbiont (TA-Like pair: WP_139475191.1 & WP_139475190.1)
- Rubritalea squalenifaciens DSM 18772 (TA-Like pair: WP_143158734.1 & WP_143158733.1)



** For the description of flanking genes, please check this link: http://130.235.240.53/NetFlax/T8_pdfs/D53.txt