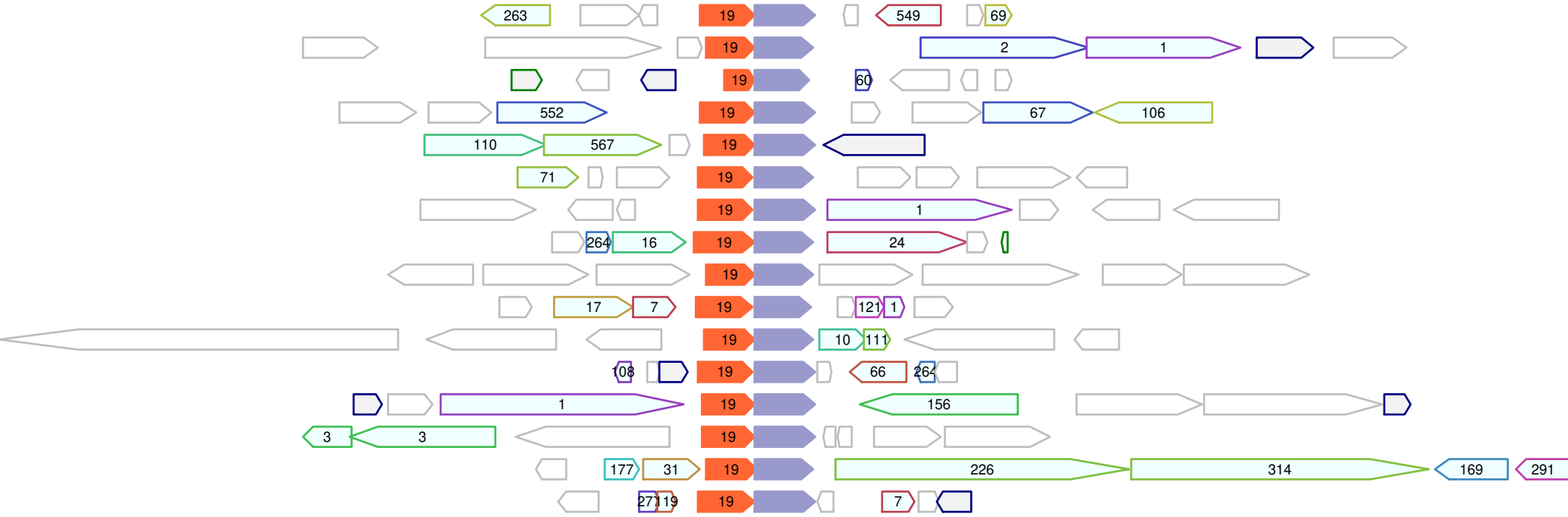


Antitoxin (Blue Pentagon) Domain Name: PanA

Predicted Toxin (Red Pentagon) Domain ID: D8  
-- RefSeq Protein Description: hypothetical protein  
-- TADB Annotation: ToxPhRel2  
-- NCBI-CDD Annotation: NT\_Pol-beta-like superfamily  
-- HHpred(Pfam) Annotation: RelA\_SpoT ; Region found in RelA / SpoT proteins (96.52%)  
-- HHpred(PDB) Annotation: GTP pyrophosphokinase YjbM (96.86%)

- Paenibacillus wynnii (TA-Like pair: WP\_052088298.1 & WP\_036656529.1)  
Facklamia hominis (TA-Like pair: WP\_101974638.1 & WP\_101974639.1)  
Staphylococcus auricularis (TA-Like pair: WP\_059106365.1 & WP\_083498135.1)  
Listeria grandensis (TA-Like pair: WP\_187137941.1 & WP\_187137940.1)  
Candidatus Paralachnospira sangeri (TA-Like pair: WP\_191535831.1 & WP\_191535830.1)  
Clostridium sulfidigenes (TA-Like pair: WP\_035129710.1 & WP\_035129707.1)  
Lentibacillus cibarius (TA-Like pair: WP\_142789863.1 & WP\_185959598.1)  
Planomicrobium flavidum S5 TSA 19 (TA-Like pair: WP\_088005586.1 & WP\_088005585.1)  
Lactobacillus shenzhenensis LY 73 (TA-Like pair: WP\_040536077.1 & WP\_040536078.1)  
Candidatus Arthromitus sp SFB mouse NL (TA-Like pair: WP\_052341896.1 & WP\_042294628.1)  
Ruminococcus bromii (TA-Like pair: WP\_195231985.1 & WP\_195231986.1)  
Cytobacillus kochii (TA-Like pair: WP\_095371136.1 & WP\_095371137.1)  
Streptococcus orisasini (TA-Like pair: WP\_057490149.1 & WP\_057490148.1)  
Streptococcus equi subsp zooepidemicus (TA-Like pair: WP\_014623656.1 & WP\_165627754.1)  
Lactobacillus animalis NP51 (TA-Like pair: WP\_052006344.1 & WP\_035447700.1)  
Bacillus subtilis la1a (TA-Like pair: WP\_090558406.1 & WP\_090558408.1)



\*\* For the description of flanking genes, please check this link: [http://130.235.240.53/NetFlax/T8\\_pdfs/D8.txt](http://130.235.240.53/NetFlax/T8_pdfs/D8.txt)