

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%)

Streptomyces natalensis ATCC 27448 (TA-Like pair: WP_030067605.1 & WP_044367484.1)
Anaerococcus rubeifantus (TA-Like pair: WP_005398206.1 & WP_058990670.1)
Paenibacillus massiliensis 2301065 DSM 16942 (TA-Like pair: WP_051091155.1 & WP_018885764.1)
Streptomyces longwoodensis (TA-Like pair: WP_067239534.1 & WP_067239535.1)
Mycolicibacterium senegalense (TA-Like pair: WP_074244773.1 & WP_076111910.1)
Micromonospora globispora (TA-Like pair: WP_109944203.1 & WP_124811961.1)
Dornibacillus indicus (TA-Like pair: WP_046176512.1 & WP_046176513.1)
Actinokineospora inagensis DSM 44258 (TA-Like pair: WP_084467932.1 & WP_035305064.1)
Desulfotomaculum arcticum DSM 17038 (TA-Like pair: WP_092467999.1 & WP_092468000.1)
Nocardioides immobilis (TA-Like pair: WP_118926592.1 & WP_118926520.1)
Krasilnikovia cinnamomea (TA-Like pair: WP_130510344.1 & WP_130510343.1)
Thermosporothrix hazakensis (TA-Like pair: WP_111326024.1 & WP_137686224.1)
Lentzea jiangxiensis (TA-Like pair: WP_090103295.1 & WP_090103293.1)
Dictyobacter vulcani (TA-Like pair: WP_151754458.1 & WP_151754459.1)
Geomicrobium halophilum (TA-Like pair: WP_184403733.1 & WP_184403734.1)
Nakamurella multipartita DSM 44233 (TA-Like pair: WP_015745812.1 & WP_015745813.1)
Pseudonocardia dioxanivorans CB1190 (TA-Like pair: WP_013673315.1 & WP_013673314.1)
Actinomycetozospora cinnamomea (TA-Like pair: WP_116708278.1 & WP_116708277.1)
Extibacter muris (TA-Like pair: WP_132274468.1 & WP_132273726.1)
Nocardioides euryhalodurans (TA-Like pair: WP_135078563.1 & WP_135081000.1)
Lysinibacillus capsici (TA-Like pair: WP_115673024.1 & WP_115673023.1)
Brevibacillus reuszeri (TA-Like pair: WP_049736871.1 & WP_049736872.1)
Nocardioides psychrotolerans (TA-Like pair: WP_143099784.1 & WP_170259186.1)
Blautia glucerasea (TA-Like pair: WP_118581334.1 & WP_173718608.1)
Blautia producta (TA-Like pair: WP_018595768.1 & WP_018595769.1)
Eubacterium callanderi (TA-Like pair: WP_013380241.1 & WP_013380242.1)
Halanaerobium hydrogeniformans (TA-Like pair: WP_013404638.1 & WP_013404637.1)
Desulfovirgula thermocuniculi DSM 16036 (TA-Like pair: WP_051276272.1 & WP_156896739.1)
Hungateiclostridium cellulolyticum CD2 (TA-Like pair: WP_010249242.1 & WP_010249244.1)
Vallitalea okinawensis (TA-Like pair: WP_105618648.1 & WP_105618650.1)
Fusobacterium canifelinum (TA-Like pair: WP_198481269.1 & WP_198481270.1)
Ktedonosporobacter rubrisoli (TA-Like pair: WP_165423250.1 & WP_165423249.1)
Nitriliruptor alkaliphilus DSM 45188 (TA-Like pair: WP_052665334.1 & WP_052665333.1)
Candidatus Microthrix parvicella RN1 (TA-Like pair: WP_012231099.1 & WP_034393753.1)
Terrabacter aerolatus (TA-Like pair: WP_147068378.1 & WP_147068377.1)
Ktedonosporobacter rubrisoli (TA-Like pair: WP_129891600.1 & WP_165423558.1)
Solibacillus silvestris StLB046 (TA-Like pair: WP_014823173.1 & WP_041865705.1)
Dictyobacter kobayashii (TA-Like pair: WP_126556743.1 & WP_126556744.1)
Bacillus oleivorans (TA-Like pair: WP_097158862.1 & WP_097158863.1)
Desnuesiella massiliensis (TA-Like pair: WP_055669428.1 & WP_055669427.1)
Ktedonobacter racemifer DSM 44963 (TA-Like pair: WP_007908471.1 & WP_007908472.1)
Enterococcus faecalis V583 (TA-Like pair: WP_002355366.1 & WP_002358446.1)
Ruminococcus bicirculans (TA-Like pair: WP_181984028.1 & WP_195221030.1)
Candidatus Saccharimonas aalborgensis (TA-Like pair: WP_128569640.1 & WP_015641524.1)
Psychrobacillus soli (TA-Like pair: WP_142607371.1 & WP_142607372.1)
Candidatus Avimonas faecium (TA-Like pair: WP_191547034.1 & WP_191547033.1)
Bacillus massiloanorexius (TA-Like pair: WP_019240556.1 & WP_019240555.1)
Eubacterium limosum (TA-Like pair: WP_133965289.1 & WP_133965290.1)
Anaerolactibacter massiliensis (TA-Like pair: WP_105304963.1 & WP_105304598.1)
Eubacterium limosum (TA-Like pair: WP_133966673.1 & WP_133966672.1)
Pseudoflavonifractor capillosus ATCC 29799 (TA-Like pair: WP_083870432.1 & WP_006573622.1)
Aeromicrobium fastidiosum (TA-Like pair: WP_129183832.1 & WP_129183830.1)
Paenibacillus psychroresistens (TA-Like pair: WP_155702671.1 & WP_155702672.1)
Desulfovirgula thermocuniculi DSM 16036 (TA-Like pair: WP_027716958.1 & WP_027716959.1)
Anaerobacillus arseniciselenatis (TA-Like pair: WP_071312918.1 & WP_071312917.1)
Marinilactibacillus piezotolerans (TA-Like pair: WP_091897386.1 & WP_177206368.1)
Oscillibacter valericigenes Sjm18 20 (TA-Like pair: WP_014120016.1 & WP_014120015.1)
Lysinibacillus parviboronicapiens (TA-Like pair: WP_107949293.1 & WP_107949294.1)
Pseudobacteroides cellulosolvans ATCC 35603 DSM 2933 (TA-Like pair: WP_036942399.1 & WP_036942396.1)
Pectinatus frisingensis (TA-Like pair: WP_196589985.1 & WP_196589986.1)
Syntrophomonas wolfei subsp wolfei str Goettingen G311 (TA-Like pair: WP_041427578.1 & WP_011641642.1)
Gemmiger formicilis (TA-Like pair: WP_113998761.1 & WP_078784589.1)
Desulfofundulus thermobenzoiacus (TA-Like pair: WP_152944951.1 & WP_152944950.1)
Actinomarinicola tropica (TA-Like pair: WP_153758198.1 & WP_153758197.1)
Ruminococcus bromii (TA-Like pair: WP_101070431.1 & WP_195230166.1)
Anaerotruncus massiliensis (TA-Like pair: WP_158595653.1 & WP_121587095.1)
Traorella massiliensis (TA-Like pair: WP_071441502.1 & WP_071441503.1)
Clostridium methoxybenzovorans SR3 (TA-Like pair: WP_084496267.1 & WP_051153115.1)
Desulfosporosinus acididurans (TA-Like pair: WP_047812002.1 & WP_047812003.1)
Sporobacter termitidis DSM 10068 (TA-Like pair: WP_159435324.1 & WP_073075904.1)
Ktedonobacter racemifer DSM 44963 (TA-Like pair: WP_157507235.1 & WP_07910749.1)
Alkalibacterium olivapovitolicus (TA-Like pair: WP_106196195.1 & WP_106196193.1)
Clostridium indicum (TA-Like pair: WP_117420077.1 & WP_117420078.1)
Deinococcus phoenicis (TA-Like pair: WP_034360634.1 & WP_034360632.1)
Succinispira mobilis DSM 6222 (TA-Like pair: WP_019880178.1 & WP_019880179.1)
Anaeroarcus burkinensis DSM 6283 (TA-Like pair: WP_027938014.1 & WP_027938015.1)
Blautia faecis (TA-Like pair: WP_117854336.1 & WP_187564881.1)
Pelolinea submarina (TA-Like pair: WP_116224516.1 & WP_116224515.1)

