SP288 Fusobacterium sp._HMT_204 (0.01%|0%)
SP456 Nocardioides zeae (0.02%|0.04%)
SP276 Nocardioides ganghwensis (0%|0.04%)
SP426 Corynebacterium halotolerans (0%|0.16%)
SP105 Corynebacterium casei (0.03%|0.86%)
SP118 Corynebacterium ammoniagenes (0.36%|0%)
SP64 Corynebacterium stationis (0.88%|1.52%)
SP489 Williamsia limnetica (0%|0.04%)
SP498 Saccharopolyspora halophila (0%|0.08%)
SP516 Prauserella rugosa (0%|0.04%)
SP95 Prauserella alba (0%|0.31%)
SP329 Rhodococcus corynebacterioides (0%|0.12%)
SP370 Rhodococcus fascians (0%|0.20%)
SP347 Rhodococcus cercidiphylli (0%|0.08%)
SP344 Rhodococcus yunnanensis (0.01%|0.04%)
SP487 Klenkia marina (0%|0.04%)
SP205 Quadrisphaera granulorum (0%|0.04%)
SP465 Pseudokineococcus lusitanus (0%|0.04%)
SP529 Ornithinimicrobium kibberense (0.01%|0%)
SP365 Georgenia satyanarayanai (0.01%|0.04%)
SP418 Janibacter melonis (0%|0.12%)
SP345 Cellulomonas pakistanensis (0.01%|0%)
SP378 Leucobacter chromiireducens (0.01%|0.08%)
SP366 Leucobacter aridicollis (0.01%|0%)
SP430 Leucobacter chromiiresistens (0%|0.08%)
SP550 Leucobacter alluvii (0%|0.04%)
SP339 Pseudoclavibacter helvolus (0%|0.39%)
SP265 Curtobacterium citreum (0.01%|0%)
SP484 Curtobacterium pusillum (0%|0.04%)
SP269 Microbacterium sp._Oral_Taxon_C11 (0.04%|0%)
SP477 Rathayibacter festucae (0%|0.04%)
SP552 Frigoribacterium endophyticum (0%|0.04%)
SP196 Arenivirga flava (0%|0.04%)
SP518 Plantibacter flavus (0%|0.04%)
SP228 Agrococcus jejuensis (0.02%|0.12%)
SP144 Agrococcus terreus (0.02%|1.25%)
SP310 Microbacterium sorbitolivorans (0.01%|0.04%)
SP72 Microbacterium diaminobutyricum (0%|0.08%)
SP303 Microbacterium oleivorans (0.03%|0.23%)
SP171 Microbacterium foliorum (0%|0.04%)
SP539 Microbacterium ginsengiterrae (0%|0.04%)
SP476 Microbacterium thalassium (0%|0.04%)
SP492 Microbacterium marinum (0.01%|0.04%)
SP357 Brevibacterium senegalense (0.02%|0.39%)
SP364 Brevibacterium linens (0.01%|0%)
SP293 Brevibacterium picturae (0.01%|0.12%)
SP325 Brevibacterium marinum (0.02%|0%)
SP63 Brevibacterium avium (4.18%|0%)
SP403 Brevibacterium anseongense (0.01%|0%)
SP149 Brevibacterium sediminis (0.22%|0.12%)
SP120 Brevibacterium epidermidis (0.09%|0%)
SP547 Brevibacterium siliguriense (0.01%|0%)
SP494 Brachybacterium fresconis (0.01%|0%)
SP22 Brachybacterium paraconglomeratum (0.01%|0.08%)
SP252 Kocuria rosea (0%|0.04%)
SP393 Rothia koreensis (0%|0.04%)
SP69 Arthrobacter crystallopoietes (0%|0.04%)
SP457 Arthrobacter globiformis (0%|0.04%)
SP350 Pseudarthrobacter oxydans (0%|0.20%)
SP311 Arthrobacter pokkalii (0%|0.08%)
SP186 Yaniella flava (0.02%|0%)
SP296 Enteractinococcus lamae (0.05%|0.04%)
SP549 Glutamicibacter mishrai (0.01%|0%)
SP451 Glutamicibacter mysorens (0.01%|0.04%)
SP224 Glutamicibacter nicotianae (0.06%|0.23%)
SP119 Micrococcus luteus (0%|0.04%)
SP515 Citricoccus zhacaiensis (0.01%|0.04%)
SP39 Citricoccus nitrophenolicus (0.03%|0%)
SP99 Citricoccus alkalitolerans (0%|0.04%)
SP452 Catonella morbi (0.01%|0%)
SP218 Oribacterium sp._HMT_102 (0.01%|0%)
SP416 Dialister invisus (0.01%|0%)
SP541 Dialister pneumosintes (0%|0.04%)
SP524 Parvimonas sp._HMT_110 (0.01%|0%)
SP167 Clostridium pasteurianum (0%|0.04%)
SP523 Fonticella tunisiensis (0%|0.04%)
SP433 Solobacterium moorei (0%|0.04%)
SP511 Turicibacter sanguinis (0%|0.04%)
SP355 Gemella morbillorum (0.01%|0%)
SP542 Brevibacillus limnophilus (0%|0.04%)
SP512 Saccharibacillus endophyticus (0.01%|0%)
SP438 Paenibacillus dauci (0%|0.04%)
SP463 Thermobacillus composti (0%|0.08%)
SP182 Caldibacillus kokeshiiformis (0%|0.90%)
SP540 Alkalihalobacillus oceani (0%|0.04%)
SP153 Bacillus clausii (0.01%|0.08%)
SP297 Alkalihalobacillus lonarensis (0%|0.04%)
SP334 Terribacillus aidingensis (0%|0.08%)
SP220 Terribacillus halophilus (0%|0.66%)
SP188 Terribacillus saccharophilus (0.05%|0.08%)
SP424 Paucisalibacillus globulus (0%|0.04%)
SP166 Gracilibacillus halotolerans (0%|0.27%)
SP313 Gracilibacillus dipsosauri (0%|0.12%)
SP490 Oceanobacillus caeni (0%|0.04%)
SP242 Oceanobacillus oncorhynchi (0%|0.04%)
SP398 Oceanobacillus jeddahense (0%|0.04%)
SP508 Siminovitchia Bacillus terrae (0%|0.04%)
SP421 Quasibacillus thermotolerans (0%|0.04%)
SP168 Mesobacillus rigiliprofundi (0%|0.04%)
SP422 Lederbergia galactosidilyticus (0%|0.04%)
SP324 Bacillus borbori (0%|0.55%)
SP440 Weizmannia ginsengihum (0%|0.04%)
SP152 Bacillus dakarensis (0%|0.04%)
SP397 Bacillus sp._str._2A57 (0%|0.04%)
SP340 Robertmurraya Bacillus siralis (0%|0.04%)
SP522 Priestia koreensis (0%|0.04%)
SP136 Neobacillus niacini (0%|0.04%)
SP413 Ectobacillus funiculus (0%|0.04%)
SP16 Peribacillus asahii (0%|0.12%)
SP521 Metabacillus niabensis (0%|0.04%)
SP520 Fredinandcohnia onubensis (0%|0.04%)
SP210 Bacillus sinesaloumensis (0%|0.20%)
SP502 Schinkia Calidifontibacillus azotoformans (0%|0.04%)
SP383 Bacillus siamensis (0%|0.08%)
SP44 Bacillus subtilis (0.03%|0.08%)
SP147 Bacillus licheniformis (0.13%|0%)
SP400 Bacillus haynesii (0%|0.23%)
SP156 Bacillus sonorensis (0.04%|0%)
SP394 Jeotgalicoccus halotolerans (0%|0.04%)
SP306 Jeotgalicoccus psychrophilus (0.03%|0%)
SP348 Staphylococcus condimenti (0%|0.08%)
SP91 Staphylococcus nepalensis (0.44%|0%)
SP146 Staphylococcus gallinarum (0.01%|0.35%)
SP10 Staphylococcus arlettae (46.10%|2.11%)
SP326 Staphylococcus equorum (0.12%|0.08%)
SP309 Staphylococcus succinus (0.02%|0%)
SP500 Staphylococcus xylosus (0%|0.20%)
SP75 Staphylococcus saprophyticus (0.35%|0.08%)
SP460 Rummeliibacillus stabekisii (0%|0.04%)
SP481 Ureibacillus thermosphaericus (0%|0.04%)
SP173 Ureibacillus acetophenoni (0%|0.04%)
SP71 Facklamia tabacinasalis (0%|0.20%)
SP13 Aerococcus viridans (0%|0.16%)
SP425 Granulicatella adiacens (0.01%|0%)
SP373 Desemzia incerta (0%|0.08%)
SP84 Marinilactibacillus piezotolerans (0%|0.70%)
SP354 Carnobacterium viridans (0.01%|0%)
SP125 Lactococcus garvieae (0%|0.08%)
SP517 Streptococcus oralis_subsp._tigurinus_clade_071 (0.01%|0.04%)
SP439 Streptococcus cristatus_clade_578 (0.01%|0%)
SP307 Enterococcus casseliflavus (0.01%|0%)
SP17 Tetragenococcus halophilus (45.11%|0.20%)
SP208 Tetragenococcus solitarius (0.31%|0%)
SP201 Weissella cibaria (0%|1.13%)
SP70 Weissella paramesenteroides (0.01%|20.60%)
SP202 Weissella thailandensis (0.01%|0.08%)
SP48 Ligilactobacillus pobuzihii (0.32%|0.27%)
SP9 Lacticaseibacillus pantheris (0%|6.94%)
SP226 Lacticaseibacillus manihotivorans (0%|0.12%)
SP312 Lentilactobacillus farraginis (0%|0.20%)
SP62 Paucilactobacillus vaccinostercus (0%|3.28%)
SP160 Secundilactobacillus similis (0%|0.74%)
SP174 Lactiplantibacillus plajomi (0%|0.08%)
SP175 Lactobacillus plantarum (0%|0.16%)
SP145 Elizabethkingia miricola (0.01%|0.43%)
SP200 Chryseobacterium polytrichastri (0%|0.94%)
SP305 Myroides cloacae (0%|0.08%)
SP491 Myroides gitamensis (0%|0.04%)
SP302 Sphingobacterium cibi (0%|0.16%)
SP90 Sphingobacterium chuzhouense (0%|0.04%)
SP395 Sphingobacterium populi (0%|0.08%)
SP352 Sphingobacterium thalpophilum (0%|0.08%)
SP408 Sphingobacterium changzhouense (0%|0.04%)
SP337 Sphingobacterium multivorum (0%|0.23%)
SP88 Porphyromonas gingivalis (0%|0.04%)
SP249 Porphyromonas sp._HMT_278 (0%|0.08%)
SP209 Alloprevotella tannerae (0.03%|0%)
SP407 Alloprevotella sp._HMT_308 (0.01%|0%)
SP229 Alloprevotella sp._HMT_473 (0.01%|0%)
SP351 Prevotella marshii (0.01%|0.04%)
SP423 Prevotella denticola (0.01%|0%)
SP47 Prevotella pallens (0.01%|0.08%)
SP386 Prevotella intermedia (0.01%|0.12%)
SP15 Manihot esculenta_Oral_Taxon_C60 (0.10%|10.30%)
SP185 Calycanthus floridus_Oral_Taxon_D07 (0%|0.27%)
SP371 Skermanella rosea (0%|0.04%)
SP342 Pelagerythrobacter aerophilus (0%|0.08%)
SP462 Novosphingobium profundi (0%|0.04%)
SP499 Novosphingobium gossypii (0.01%|0.04%)
SP493 Novosphingobium clariflavum (0%|0.04%)
SP431 Novosphingobium naphthalenivorans (0%|0.08%)
SP141 Sphingomonas fonticola (0%|0.04%)
SP417 Sphingobium cloacae (0.01%|0%)
SP225 Sphingobium aromaticivastans (0%|0.12%)
SP139 Sphingomonas gimensis (0%|0.04%)
SP241 Sphingomonas desiccabilis (0%|0.08%)
SP66 Sphingomonas carotinifaciens (0.01%|0.43%)
SP74 Sphingomonas phyllosphaerae (0%|0.08%)
SP545 Sphingomonas panni (0%|0.04%)
SP551 Sphingomonas hankookensis (0%|0.04%)
SP437 Sphingomonas glacialis (0%|0.04%)
SP68 Sphingomonas aerolata (0%|0.59%)
SP254 Sphingomonas mucosissima (0%|0.23%)
SP322 Sphingomonas dokdonensis (0%|0.04%)
SP253 Acidimangrovimonas sediminis (0%|0.20%)
SP543 Bieblia veldkampii (0%|0.04%)
SP161 Pseudorhodobacter wandonensis (0%|0.20%)
SP392 Paracoccus speluncae (0%|0.04%)
SP184 Paracoccus alcaliphilus (0%|0.16%)
SP382 Paracoccus yeei (0%|0.08%)
SP399 Paracoccus sp._TRP (0%|0.04%)
SP497 Paracoccus huijuniae (0%|0.04%)
SP396 Phenylobacterium aquaticum (0%|0.04%)
SP234 Brevundimonas terrae (0%|0.04%)
SP478 Brevundimonas alba (0%|0.08%)
SP410 Agaricicola taiwanensis (0%|0.08%)
SP121 Methylobacterium adhaesivum (0%|0.20%)
SP92 Methylobacterium goesingense (0%|0.23%)
SP406 Methylorubrum salsuginis (0.01%|0.04%)
SP195 Methylorubrum extorquens (0%|0.04%)
SP466 Devosia albogilva (0%|0.04%)
SP459 Devosia chinhatensis (0%|0.08%)
SP8 Devosia lucknowensis (0%|0.16%)
SP359 Devosia soli (0.01%|0.12%)
SP455 Aureimonas glaciistagni (0%|0.04%)
SP328 Aureimonas ureilytica (0.01%|0.23%)
SP349 Aurantimonas Aureimonas jatrophae (0.01%|0%)
SP553 Rhizobium rhizoryzae (0.01%|0%)
SP211 Rhizobium zeae (0.05%|0%)
SP546 Rhizobium soli (0%|0.04%)
SP495 Neorhizobium huautlense (0.01%|0%)
SP377 Neorhizobium galegae (0%|0.04%)
SP281 Rhizobium tropici (0.02%|0%)
SP527 Brucella pseudogrignonensis (0.01%|0%)
SP450 Paenochrobactrum glaciei (0.01%|0%)
SP444 Pseudochrobactrum asaccharolyticum (0.01%|0%)
SP448 Alphaproteobacteria_[G] sp._Oral_Taxon_D00 (0%|0.04%)
SP316 Rhizobium rosettiformans (0%|0.08%)
SP250 Agrobacterium tumefaciens (0.01%|0.16%)
SP323 Pararhizobium haloflavum (0.01%|0.04%)
SP314 Aquamicrobium terrae (0%|0.04%)
SP501 Phyllobacterium myrsinacearum (0%|0.04%)
SP338 Tianweitania sediminis (0.01%|0%)
SP150 Vogesella mureinivorans (0%|0.12%)
SP346 Corticimicrobacter populi (0.03%|0%)
SP453 Massilia arvi (0%|0.04%)
SP427 Massilia consociata (0%|0.08%)
SP409 Massilia flava (0%|0.04%)
SP479 Massilia timonae (0%|0.04%)
SP532 Massilia oculi (0%|0.04%)
SP411 Paraburkholderia tropica (0%|0.08%)
SP432 Cupriavidus taiwanensis (0%|0.12%)
SP507 Hydrogenophaga electricum (0%|0.04%)
SP538 Pseudorhodoferax soli (0%|0.04%)
SP458 Comamonas kerstersii (0%|0.04%)
SP83 Comamonadaceae_[G] sp._Oral_Taxon_B87 (0%|0.12%)
SP461 Dokdonella koreensis (0%|0.04%)
SP353 Lysobacter spongiicola (0%|0.16%)
SP509 Pseudoxanthomonas suwonensis (0%|0.04%)
SP327 Pseudoxanthomonas indica (0%|0.12%)
SP187 Stenotrophomonas bentonitica (0%|0.08%)
SP361 Stenotrophomonas rhizophila (0%|0.04%)
SP89 Stenotrophomonas tumulicola (0%|0.16%)
SP204 Stenotrophomonas nitritireducens (0%|0.16%)
SP124 Stenotrophomonas koreensis (0%|0.04%)
SP194 Stenotrophomonas maltophilia (0%|0.20%)
SP464 Stenotrophomonas [Pseudomonas] hibiscicola (0.01%|0.04%)
SP23 Stenotrophomonas pavanii (0%|0.70%)
SP137 Acinetobacter baumannii (0%|0.20%)
SP260 Acinetobacter sp._Oral_Taxon_F58 (0%|0.04%)
SP449 Acinetobacter bouvetii (0%|0.04%)
SP362 Acinetobacter lwoffii (0%|0.04%)
SP178 Acinetobacter sp._Oral_Taxon_D29 (0%|0.23%)
SP376 Acinetobacter brisouii (0%|0.16%)
SP140 Pseudomonas matsuisoli (0%|0.74%)
SP142 Pseudomonas citronellolis (0%|0.16%)
SP151 Pseudomonas jilinensis (0%|0.12%)
SP190 Pseudomonas bauzanensis (0%|0.08%)
SP358 Pseudomonas xiamenensis (0%|0.12%)
SP56 Pseudomonas parafulva (0.03%|1.01%)
SP535 Pseudomonas mosselii_Oral_Taxon_A88 (0%|0.04%)
SP216 Pseudomonas agarici (0%|0.20%)
SP217 Pseudomonas moraviensis (0%|0.04%)
SP126 Pseudomonas lini (0%|0.12%)
SP179 Pseudomonas extremorientalis (0%|0.20%)
SP330 Pseudomonas sp._Oral_Taxon_C84 (0%|0.20%)
SP19 Pseudomonas flavescens (0.01%|0.47%)
SP127 Pseudomonas punonensis (0.01%|1.40%)
SP143 Pseudomonas straminea (0%|1.33%)
SP18 Pseudomonas argentinensis (0%|1.68%)
SP237 Pseudomonas mendocina (0%|0.08%)
SP363 Pseudomonas alcaliphila (0%|0.04%)
SP485 Pseudomonas chengduensis (0%|0.04%)
SP488 Pseudomonas chloritidismutans (0%|0.04%)
SP212 Pseudomonas nitritolerans (0%|0.66%)
SP544 Pseudomonas stutzeri (0%|0.04%)
SP503 Salinicola zeshunii (0%|0.04%)
SP123 Halomonas malpeensis (0%|0.39%)
SP87 Halomonas nanhaiensis (0%|0.90%)
SP486 Halomonas lutescens (0%|0.08%)
SP454 Halomonas aquamarina (0%|0.08%)
SP528 Shewanella xiamenensis (0%|0.04%)
SP372 Pseudaeromonas sharmana (0%|0.04%)
SP256 Serratia proteamaculans (0%|0.08%)
SP341 Serratia oryzae (0%|0.04%)
SP24 Ewingella americana (0.01%|6.63%)
SP148 Sodalis glossinidius (0%|0.04%)
SP243 Pectobacterium aroidearum (0.01%|0%)
SP379 Pectobacterium carotovorum (0.01%|0%)
SP375 Pantoea dispersa (0%|0.08%)
SP11 Pantoea ananatis (0%|0.04%)
SP103 Pantoea agglomerans (0.02%|0.43%)
SP343 Mixta gaviniae (0%|0.04%)
SP412 Siccibacter colletis (0%|0.16%)
SP301 Siccibacter turicensis (0%|0.35%)
SP57 Erwinia endophytica (0%|0.08%)
SP29 Erwinia billingiae (0%|0.08%)
SP221 Erwinia rhapontici (0%|0.74%)
SP30 Erwinia persicina (0%|0.04%)
SP28 Erwinia aphidicola (0%|5.11%)
SP52 Klebsiella variicola (0%|0.78%)
SP31 Klebsiella pneumoniae (0%|0.16%)
SP73 Serratia marcescens (0.01%|0.04%)
SP244 Enterobacter soli (0.01%|0.23%)
SP315 Enterobacter sp._str._638 (0.01%|0.08%)
SP548 Kluyvera cryocrescens (0%|0.04%)
SP213 Klebsiella oxytoca (0%|0.08%)
SP533 Citrobacter cronae (0%|0.04%)
SP519 Citrobacter sp._str._KMSI_3 (0%|0.04%)
SP32 Enterobacter cloacae (0%|0.31%)
SP230 Kosakonia radicincitans (0%|0.51%)
SP496 Kosakonia oryzae (0%|0.04%)
SP65 Shimwellia pseudoproteus (0%|0.70%)
SP245 Cronobacter sakazakii (0%|0.12%)
SP219 Enterobacter mori (0.01%|0.31%)
SP389 Mangrovibacter yixingensis (0%|0.04%)
SP227 Citrobacter farmeri (0.01%|0.08%)
SP67 Citrobacter youngae (0%|0.16%)
SP189 Escherichia coli (0%|0.16%)
SP172 Citrobacter koseri (0%|0.20%)
American
Indian
substitutions/site
0
0.25
0.5
0.75