

TABLE S4

PHYLUM	CHROMOSOME	IS FAMILY	IS	Same	Anti	p-value
Proteobacteria	Shigella_sonnei_53G_NC_016822	IS1	172	101	71	2,67E-002
Cyanobacteria	Trichodesmium_erythraeum_IMS101_chromosome_NC_008312	IS1	14	10	4	1,80E-001
Proteobacteria	Shigella_flexneri_5_str._8401_chromosome_NC_008258	IS1	110	62	48	2,15E-001
Proteobacteria	Edwardsiella_ictaluri_93-146_chromosome_NC_012779	IS1	17	11	6	3,32E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS1	74	41	33	4,16E-001
Proteobacteria	Thiocystis_violascens_DSM_198_chromosome_NC_018012	IS1	14	9	5	4,24E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS1	8	5	3	7,27E-001
Proteobacteria	Escherichia_coli_042_NC_017626	IS1	10	6	4	7,54E-001
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	IS1	10	4	6	7,54E-001
Proteobacteria	Nitrosococcus_halophilus_Nc4_chromosome_NC_013960	IS1	12	7	5	7,74E-001
Proteobacteria	Salmonella_enterica_subsp._enterica_serovar_Typhimurium_str._T000240_NC_016860	IS1	14	6	8	7,91E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS1	18	8	10	8,15E-001
Proteobacteria	Shigella_boydii_CDC_3083-94_chromosome_NC_010658	IS1	194	99	95	8,30E-001
Bacteroidetes	Capnocytophaga_canimorsus_Cc5_chromosome_NC_015846	IS1	11	6	5	1,00E+000
Bacteroidetes	Salinibacter_ruber_DSM_13855_chromosome_NC_007677	IS1	9	5	4	1,00E+000
Proteobacteria	Shigella_dysenteriae_Sd197_NC_007606	IS1	477	238	239	1,00E+000
Firmicutes	Streptococcus_suis_D9_chromosome_NC_017620	IS110	20	3	17	2,58E-003
Proteobacteria	Alteromonas_macleodii_str._'Deep_ecotype'_chromosome_NC_011138	IS110	12	11	1	6,35E-003
Proteobacteria	Pseudoalteromonas_atlantica_T6c_chromosome_NC_008228	IS110	8	0	8	7,81E-003
Actinobacteria	Corynebacterium_diphtheriae_VA01_chromosome_NC_016790	IS110	7	0	7	1,56E-002
Proteobacteria	Oceanimonas_sp._GK1_chromosome_NC_016745	IS110	7	7	0	1,56E-002
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS110	19	4	15	1,92E-002
Firmicutes	Clostridium_cellulolyticum_H10_chromosome_NC_011898	IS110	10	9	1	2,15E-002
Proteobacteria	Rickettsia_bellii_OSU_85-389_chromosome_NC_009883	IS110	26	19	7	2,90E-002
Firmicutes	Desulfosporosinus_orientis_DSM_765_chromosome_NC_016584	IS110	6	0	6	3,13E-002
Proteobacteria	Francisella_cf._novicida_Fx1_chromosome_NC_017450	IS110	6	6	0	3,13E-002
Actinobacteria	Micromonospora_aurantiaca_ATCC_27029_chromosome_NC_014391	IS110	6	6	0	3,13E-002
Proteobacteria	Saccharophagus_degradans_2-40_chromosome_NC_007912	IS110	6	0	6	3,13E-002
Bacteroidetes	Salinibacter_ruber_M8_chromosome_NC_014032	IS110	6	0	6	3,13E-002
Proteobacteria	Syntrophus_aciditrophicus_SB_chromosome_NC_007759	IS110	6	6	0	3,13E-002
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS110	33	10	23	3,51E-002
Firmicutes	Paenibacillus_mucilaginosus_KNP414_chromosome_NC_015690	IS110	12	10	2	3,86E-002
Actinobacteria	Corynebacterium_jeikeium_K411_chromosome_NC_007164	IS110	9	1	8	3,91E-002
Bacteroidetes	Gramella_forsetii_KT0803_chromosome_NC_008571	IS110	9	8	1	3,91E-002
Firmicutes	Thermoanaerobacter_tengcongensis_MB4_NC_003869	IS110	9	8	1	3,91E-002
Firmicutes	Geobacillus_sp._Y412MC52_chromosome_NC_014915	IS110	17	13	4	4,90E-002
Firmicutes	Caldicellulosiruptor_saccharolyticus_DSM_8903_chromosome_NC_009437	IS110	14	11	3	5,74E-002
Proteobacteria	Shigella_sonnei_53G_NC_016822	IS110	19	5	14	6,36E-002
Firmicutes	Thermoanaerobacter_pseudethanolicus_ATCC_33223_chromosome_NC_010321	IS110	11	2	9	6,54E-002
Actinobacteria	Streptomyces_bingchenggensis_BCW-1_chromosome_NC_016582	IS110	8	7	1	7,03E-002
Chloroflexi	Roseiflexus_sp._RS-1_chromosome_NC_009523	IS110	40	14	26	8,07E-002
Proteobacteria	Shigella_boydii_CDC_3083-94_chromosome_NC_010658	IS110	28	9	19	8,72E-002
Proteobacteria	Desulfatibacillum_alkenivorans_AK-01_chromosome_NC_011768	IS110	13	3	10	9,23E-002
Firmicutes	Staphylococcus_epidermidis_ATCC_12228_chromosome_NC_004461	IS110	13	10	3	9,23E-002
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	IS110	18	13	5	9,63E-002
Firmicutes	Lactobacillus_acidophilus_30SC_chromosome_NC_015214	IS110	18	5	13	9,63E-002
Proteobacteria	Acidovorax_citrulli_AAC00-1_chromosome_NC_008752	IS110	10	8	2	1,09E-001
Proteobacteria	Orientia_tsutsugamushi_str._Boryong_NC_009488	IS110	10	2	8	1,09E-001
Proteobacteria	Desulfomonile_tiedjei_DSM_6799_chromosome_NC_018025	IS110	20	14	6	1,15E-001
Actinobacteria	Intrasporangium_calvum_DSM_43043_chromosome_NC_014830	IS110	7	1	6	1,25E-001
Firmicutes	Amphibacillus_xylanus_NBRC_15112_NC_018704	IS110	17	5	12	1,43E-001
Firmicutes	Bacillus_thuringiensis_Bt407_chromosome_NC_018877	IS110	17	5	12	1,43E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS110	12	3	9	1,46E-001
Proteobacteria	Methylobacterium_extorquens_DM4_NC_012988	IS110	12	9	3	1,46E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS110	31	20	11	1,50E-001
Actinobacteria	Mycobacterium_avium_subsp._paratuberculosis_K-10_NC_002944	IS110	24	16	8	1,52E-001
Firmicutes	Desulfotomaculum_reducens_MI-1_chromosome_NC_009253	IS110	14	4	10	1,80E-001
Proteobacteria	Edwardsiella_ictaluri_93-146_chromosome_NC_012779	IS110	14	10	4	1,80E-001
Proteobacteria	Idiomarina_loihiensis_L2TR_chromosome_NC_006512	IS110	14	10	4	1,80E-001
Proteobacteria	Caulobacter_sp._K31_chromosome_NC_010338	IS110	9	7	2	1,80E-001
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS110	9	7	2	1,80E-001
Actinobacteria	Mycobacterium_intracellulare_MOTT-02_chromosome_NC_016947	IS110	9	7	2	1,80E-001
Thermotogae	Thermosiphon_africanus_TCF52B_NC_011653	IS110	9	7	2	1,80E-001
Proteobacteria	Yersinia_enterocolitica_subsp._palaearctica_Y11_NC_017564	IS110	72	30	42	1,95E-001
Aquificae	Desulfurobacterium_thermolithotrophum_DSM_11699_chromosome_NC_015185	IS110	16	11	5	2,10E-001
Proteobacteria	Burkholderia_cenocepacia_AU_1054_chromosome_chromosome_1_NC_008060	IS110	6	1	5	2,19E-001
Proteobacteria	Burkholderia_multivorans_ATCC_17616_uid58697_chromosome_2_NC_010086	IS110	6	1	5	2,19E-001
Bacteroidetes	Dyadobacter_fermentans_DSM_18053_chromosome_NC_013037	IS110	6	5	1	2,19E-001
Proteobacteria	Pseudomonas_stutzeri_DSM_10701_chromosome_NC_018177	IS110	6	5	1	2,19E-001
Proteobacteria	Shewanella_frigidimarina_NCIMB_400_chromosome_NC_008345	IS110	6	1	5	2,19E-001
Spirochaetes	Treponema_succinifaciens_DSM_2489_chromosome_NC_015385	IS110	13	4	9	2,67E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS110	40	24	16	2,68E-001
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	IS110	8	6	2	2,89E-001
Proteobacteria	Bradyrhizobium_sp._BTai1_chromosome_NC_009485	IS110	8	2	6	2,89E-001
Proteobacteria	Colwellia_psychrerythraea_34H_chromosome_NC_003910	IS110	8	2	6	2,89E-001
Proteobacteria	Escherichia_coli_536_NC_008253	IS110	8	2	6	2,89E-001
Bacteroidetes	Flavobacterium_branchiophilum_FL-15_NC_016001	IS110	8	2	6	2,89E-001
Proteobacteria	Hyphomonas_neptunium_ATCC_15444_chromosome_NC_008358	IS110	8	2	6	2,89E-001
Actinobacteria	Mycobacterium_gilvum_PYR-GCK_chromosome_NC_009338	IS110	8	2	6	2,89E-001
Firmicutes	Streptococcus_parasanguinis_FW213_chromosome_NC_017905	IS110	8	2	6	2,89E-001
Firmicutes	Thermoanaerobacter_brockii_subsp._finnii_Ako-1_chromosome_NC_014964	IS110	8	2	6	2,89E-001

Proteobacteria	Mesorhizobium_opportunistum_WSM2075_chromosome_NC_015675	IS110	15	5	10	3,02E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS110	24	15	9	3,07E-001
Firmicutes	Desulfosporosinus_acidiphilus_SJ4_chromosome_NC_018068	IS110	17	6	11	3,32E-001
Proteobacteria	Pseudomonas_syringae_pv_tomato_str_DC3000_chromosome_NC_004578	IS110	10	7	3	3,44E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS110	10	7	3	3,44E-001
Firmicutes	Thermosediminibacter_oceani_DSM_16646_chromosome_NC_014377	IS110	10	3	7	3,44E-001
Proteobacteria	Coxiella_burnetii_CbuG_Q212_chromosome_NC_011527	IS110	28	11	17	3,45E-001
Firmicutes	Lactobacillus_helveticus_R0052_chromosome_NC_018528	IS110	12	4	8	3,88E-001
Proteobacteria	Legionella_pneumophila_subsp_pneumophila_NC_018139	IS110	12	4	8	3,88E-001
Cyanobacteria	Nostoc_sp_PCC_7120_chromosome_NC_003272	IS110	12	4	8	3,88E-001
Proteobacteria	Rahnella_aquatilis_HX2_chromosome_NC_017047	IS110	12	8	4	3,88E-001
Actinobacteria	Arthrobacter_phenanthrenivorans_Sphe3_chromosome_NC_015145	IS110	14	9	5	4,24E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS110	14	5	9	4,24E-001
Deferribacteres	Flexistipes_sinusarabici_DSM_4947_chromosome_NC_015672	IS110	14	9	5	4,24E-001
Actinobacteria	Micromonospora_sp_L5_chromosome_NC_014815	IS110	14	5	9	4,24E-001
Proteobacteria	Bordetella_petrii_DSM_12804_chromosome_NC_010170	IS110	7	2	5	4,53E-001
Bacteroidetes	Candidatus_Amoebophilus_asiaticus_5a2_chromosome_NC_010830	IS110	7	5	2	4,53E-001
Firmicutes	Clostridium_kluyveri_DSM_555_chromosome_NC_009706	IS110	7	2	5	4,53E-001
Proteobacteria	Cupriavidus_necator_N-1_chromosome_chromosome_2_NC_015723	IS110	7	5	2	4,53E-001
Bacteroidetes	Cyclobacterium_marinum_DSM_745_chromosome_NC_015914	IS110	7	5	2	4,53E-001
Firmicutes	Desulfotobacterium_dehalogenans_ATCC_51507_chromosome_NC_018017	IS110	7	5	2	4,53E-001
Actinobacteria	Gordonia_polyisoprenivorans_VH2_chromosome_NC_016906	IS110	7	5	2	4,53E-001
Firmicutes	Lactobacillus_crispatus_ST1_NC_014106	IS110	7	2	5	4,53E-001
Actinobacteria	Modestobacter_marinus_NC_017955	IS110	7	2	5	4,53E-001
Proteobacteria	Nitrosomonas_sp_Is79A3_chromosome_NC_015731	IS110	7	5	2	4,53E-001
Proteobacteria	Roseobacter_litoralis_Och_149_chromosome_NC_015730	IS110	7	2	5	4,53E-001
Actinobacteria	Streptomyces_avermitilis_MA-4680_NC_003155	IS110	7	2	5	4,53E-001
Firmicutes	Thermaerobacter_marianensis_DSM_12885_chromosome_NC_014831	IS110	7	5	2	4,53E-001
Firmicutes	Thermoanaerobacterium_saccharolyticum_JW/SL-YS485_chromosome_NC_017992	IS110	7	2	5	4,53E-001
Proteobacteria	Citrobacter_rodentium_ICC168_NC_013716	IS110	18	7	11	4,81E-001
Firmicutes	Bacillus_coagulans_36D1_chromosome_NC_016023	IS110	9	3	6	5,08E-001
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS110	9	3	6	5,08E-001
Thermotogae	Fervidobacterium_nodosum_Rt17-B1_chromosome_NC_009718	IS110	9	6	3	5,08E-001
Firmicutes	Geobacillus_kaustophilus_HTA426_chromosome_NC_006510	IS110	9	6	3	5,08E-001
Firmicutes	Lactobacillus_buchneri_CD034_chromosome_NC_018610	IS110	9	6	3	5,08E-001
Firmicutes	Lactobacillus_delbrueckii_subsp_bulgaricus_2038_chromosome_NC_017469	IS110	9	3	6	5,08E-001
Firmicutes	Kyrpidia_tusciae_DSM_2912_chromosome_NC_014098	IS110	11	4	7	5,49E-001
Proteobacteria	Shewanella_pealeana_ATCC_700345_chromosome_NC_009901	IS110	11	4	7	5,49E-001
Proteobacteria	Sinorhizobium_fredii_HH103_NC_016812	IS110	11	4	7	5,49E-001
Proteobacteria	Stenotrophomonas_maltophilia_K279a_chromosome_NC_010943	IS110	11	4	7	5,49E-001
Firmicutes	Sulfobacillus_acidophilus_DSM_10332_chromosome_NC_016884	IS110	11	4	7	5,49E-001
Bacteroidetes	Alistipes_finegoldii_DSM_17242_chromosome_NC_018011	IS110	13	5	8	5,81E-001
Proteobacteria	Methylobacterium_sp_4-46_chromosome_NC_010511	IS110	13	8	5	5,81E-001
Thermodesulfobacteria	Thermodesulfatator_indicus_DSM_15286_chromosome_NC_015681	IS110	13	5	8	5,81E-001
Proteobacteria	Shewanella_piezotolerans_WP3_chromosome_NC_011566	IS110	15	9	6	6,07E-001
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS110	17	10	7	6,29E-001
Spirochaetes	Leptospira_borgpetersenii_serovar_Hardjo-bovis_JB197_chromosome_chromosome_1_NC_0085	IS110	79	42	37	6,53E-001
Firmicutes	Caldicellulosiruptor_lactoaceticus_6A_chromosome_NC_015949	IS110	23	13	10	6,78E-001
Proteobacteria	Acidithiobacillus_ferrivorans_SS3_chromosome_NC_015942	IS110	6	4	2	6,88E-001
Actinobacteria	Blastococcus_saxobsidens_DD2_NC_016943	IS110	6	4	2	6,88E-001
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_chromosome_1_NC_009256	IS110	6	2	4	6,88E-001
Firmicutes	Caldicellulosiruptor_obsidiansis_OB47_chromosome_NC_014392	IS110	6	4	2	6,88E-001
Proteobacteria	Caulobacter_crescentus_CB15_chromosome_NC_002696	IS110	6	2	4	6,88E-001
Proteobacteria	Cupriavidus_taiwanensis_LMG_19424_chromosome_chromosome_2_NC_010530	IS110	6	4	2	6,88E-001
Firmicutes	Desulfotomaculum_ruminis_DSM_2154_chromosome_NC_015589	IS110	6	2	4	6,88E-001
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS110	6	4	2	6,88E-001
Actinobacteria	Gordonia_sp_KTR9_chromosome_NC_018581	IS110	6	4	2	6,88E-001
Firmicutes	Lactobacillus_amylovorus_GRL_1112_chromosome_NC_014724	IS110	6	2	4	6,88E-001
Actinobacteria	Mycobacterium_africanum_GM041182_chromosome_NC_015758	IS110	6	2	4	6,88E-001
Actinobacteria	Nocardioides_sp_JS614_chromosome_NC_008699	IS110	6	4	2	6,88E-001
Bacteroidetes	Pedobacter_saltans_DSM_12145_chromosome_NC_015177	IS110	6	2	4	6,88E-001
Chlorobi	Prosthecochloris_aestuarii_DSM_271_chromosome_NC_011059	IS110	6	2	4	6,88E-001
Proteobacteria	Pseudomonas_putida_F1_chromosome_NC_009512	IS110	6	2	4	6,88E-001
Firmicutes	Streptococcus_pneumoniae_AP200_chromosome_NC_014494	IS110	6	2	4	6,88E-001
Bacteroidetes	Tannerella_forsythia_ATCC_43037_chromosome_NC_016610	IS110	6	4	2	6,88E-001
Firmicutes	Thermoanaerobacter_italicus_Ab9_chromosome_NC_013921	IS110	6	2	4	6,88E-001
Actinobacteria	Mycobacterium_canettii_CIPT_140010059_NC_015848	IS110	8	3	5	7,27E-001
Actinobacteria	Mycobacterium_rhodesiae_NBB3_chromosome_NC_016604	IS110	8	3	5	7,27E-001
Proteobacteria	Neisseria_meningitidis_FAM18_chromosome_NC_008767	IS110	8	3	5	7,27E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_1_NC_006370	IS110	8	5	3	7,27E-001
Proteobacteria	Rhodopseudomonas_palustris_BisA53_chromosome_NC_008435	IS110	8	3	5	7,27E-001
Proteobacteria	Sinorhizobium_medicae_WSM419_chromosome_NC_009636	IS110	8	3	5	7,27E-001
Actinobacteria	Streptomyces_hygroscopicus_subsp_jinggangensis_5008_chromosome_NC_017765	IS110	8	5	3	7,27E-001
Firmicutes	Thermoanaerobacterium_thermosaccharolyticum_DSM_571_chromosome_NC_014410	IS110	8	5	3	7,27E-001
Proteobacteria	Variovorax_paradoxus_EPS_chromosome_NC_014931	IS110	8	5	3	7,27E-001
Proteobacteria	Acidithiobacillus_ferrooxidans_ATCC_23270_NC_011761	IS110	10	4	6	7,54E-001
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	IS110	10	6	4	7,54E-001
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS110	10	6	4	7,54E-001
Actinobacteria	Mycobacterium_vanbaalenii_PYR-1_chromosome_NC_008726	IS110	10	4	6	7,54E-001
Thermotogae	Petrogoga_mobilis_SJ95_chromosome_NC_010003	IS110	10	4	6	7,54E-001
Firmicutes	Thermoanaerobacter_wiegellii_Rt8.B1_chromosome_NC_015958	IS110	10	4	6	7,54E-001
Actinobacteria	Arthrobacter_arilaitensis_Re117_chromosome_NC_014550	IS110	12	5	7	7,74E-001
Proteobacteria	Azotobacter_vinelandii_DJ_chromosome_NC_012560	IS110	12	7	5	7,74E-001
Proteobacteria	Shewanella_denitrificans_OS217_NC_007954	IS110	12	5	7	7,74E-001

Proteobacteria	Shewanella_putrefaciens_200_chromosome_NC_017566	IS110	12	5	7	7,74E-001
Bacteroidetes	Sphingobacterium_sp._21_chromosome_NC_015277	IS110	12	5	7	7,74E-001
Spirochaetes	Leptospira_interrogans_serovar_Copenhageni_str._Fiocruz_L1-130_chromosome_chromosome_	IS110	14	6	8	7,91E-001
Proteobacteria	Geobacter_metallireducens_GS-15_chromosome_NC_007517	IS110	16	9	7	8,04E-001
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	IS110	20	9	11	8,24E-001
Acidobacteria	Candidatus_Solibacter_usitatus_Ellin6076_chromosome_NC_008536	IS110	20	11	9	8,24E-001
Proteobacteria	Dickeya_dadantii_3937_chromosome_NC_014500	IS110	20	11	9	8,24E-001
Proteobacteria	Verminephrobacter_eiseniae_EF01-2_chromosome_NC_008786	IS110	22	10	12	8,32E-001
Proteobacteria	Mesorhizobium_lotii_MAFF303099_chromosome_NC_002678	IS110	26	12	14	8,45E-001
Proteobacteria	Nitrobacter_hamburgensis_X14_chromosome_NC_007964	IS110	28	15	13	8,51E-001
Proteobacteria	Methylobacterium_nodulans_ORS_2060_chromosome_NC_011894	IS110	32	15	17	8,60E-001
Proteobacteria	Acidithiobacillus_calidus_SM-1_chromosome_NC_015850	IS110	6	3	3	1,00E+000
Proteobacteria	Acidovorax_avenae_subsp._avenae_ATCC_19860_chromosome_NC_015138	IS110	6	3	3	1,00E+000
Proteobacteria	Agrobacterium_radiobacter_K84_chromosome_2_NC_011983	IS110	6	3	3	1,00E+000
Firmicutes	Bacillus_cellulosilyticus_DSM_2522_chromosome_NC_014829	IS110	6	3	3	1,00E+000
Actinobacteria	Bifidobacterium_longum_subsp._infantis_ATCC_15697_chromosome_NC_011593	IS110	6	3	3	1,00E+000
Firmicutes	Caldicellulosiruptor_kristjanssonii_177R1B_chromosome_NC_014721	IS110	10	5	5	1,00E+000
Firmicutes	Clostridium_beijerinckii_NCIMB_8052_chromosome_NC_009617	IS110	6	3	3	1,00E+000
Actinobacteria	Corynebacterium_resistens_DSM_45100_chromosome_NC_015673	IS110	6	3	3	1,00E+000
Firmicutes	Dehalobacter_sp._DCA_chromosome_NC_018866	IS110	8	4	4	1,00E+000
Proteobacteria	Desulfobacterium_autotrophicum_HRM2_chromosome_NC_012108	IS110	8	4	4	1,00E+000
Firmicutes	Geobacillus_thermoglucosidasius_C56-YS93_chromosome_NC_015660	IS110	6	3	3	1,00E+000
Proteobacteria	Haemophilus_parasuis_SH0165_chromosome_NC_011852	IS110	16	8	8	1,00E+000
Actinobacteria	Mycobacterium_chubuense_NBB4_chromosome_NC_018027	IS110	10	5	5	1,00E+000
Actinobacteria	Mycobacterium_sp._Spyr1_chromosome_NC_014814	IS110	10	5	5	1,00E+000
Firmicutes	Natranaerobius_thermophilus_JW/NM-WN-LF_chromosome_NC_010718	IS110	14	7	7	1,00E+000
Proteobacteria	Neisseria_gonorrhoeae_FA_1090_NC_002946	IS110	8	4	4	1,00E+000
Proteobacteria	Polaromonas_naphthalenivorans_CJ2_chromosome_NC_008781	IS110	12	6	6	1,00E+000
Proteobacteria	Pseudomonas_aeruginosa_PAO1_chromosome_NC_002516	IS110	6	3	3	1,00E+000
Actinobacteria	Saccharopolyspora_erythraea_NRRL_2338_chromosome_NC_009142	IS110	8	4	4	1,00E+000
Proteobacteria	Salmonella_enterica_subsp._arizonae_serovar_62:z4_NC_010067	IS110	6	3	3	1,00E+000
Firmicutes	Thermacetogenium_phaeum_DSM_12270_chromosome_NC_018870	IS110	14	7	7	1,00E+000
Firmicutes	Thermoanaerobacter_sp._X513_chromosome_NC_014538	IS110	8	4	4	1,00E+000
Firmicutes	Thermoanaerobacterium_xylanolyticum_LX-11_chromosome_NC_015555	IS110	12	6	6	1,00E+000
Proteobacteria	Thioalkalivibrio_sp._K90mix_chromosome_NC_013889	IS110	12	6	6	1,00E+000
Proteobacteria	Wolbachia_sp._wRi_NC_012416	IS110	18	9	9	1,00E+000
Bacteroidetes	Bacteroides_thetaiotaomicron_VPI-5482_chromosome_NC_004663	IS110	7	3	4	1,00E+000
Proteobacteria	Bordetella_pertussis_CS_chromosome_NC_017223	IS110	17	8	9	1,00E+000
Acidobacteria	Candidatus_Koribacter_versatilis_Ellin345_chromosome_NC_008009	IS110	7	3	4	1,00E+000
Firmicutes	Desulfobacterium_hafniense_DCB-2_chromosome_NC_011830	IS110	11	5	6	1,00E+000
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS110	7	3	4	1,00E+000
Proteobacteria	Desulfovibrio_aespoensis_Aspo-2_chromosome_NC_014844	IS110	7	3	4	1,00E+000
Proteobacteria	Desulfovibrio_magneticus_RS-1_NC_012796	IS110	13	7	6	1,00E+000
Proteobacteria	Dickeya_zeae_Ech1591_chromosome_NC_012912	IS110	11	6	5	1,00E+000
Thermotogae	Fervidobacterium_pennivorans_DSM_9078_chromosome_NC_017095	IS110	7	3	4	1,00E+000
Acidobacteria	Granulicella_tundricola_chromosome_NC_015064	IS110	7	3	4	1,00E+000
Firmicutes	Lactobacillus_johnsonii_DPC_6026_chromosome_NC_017477	IS110	9	4	5	1,00E+000
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	IS110	7	4	3	1,00E+000
Thermotogae	Mesotoga_prima_MesG1.Ag.4.2_chromosome_NC_017934	IS110	11	6	5	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS110	9	5	4	1,00E+000
Actinobacteria	Mycobacterium_bovis_AF2122/97_chromosome_NC_002945	IS110	7	3	4	1,00E+000
Actinobacteria	Mycobacterium_smegmatis_str._MC2_155_chromosome_NC_018289	IS110	7	3	4	1,00E+000
Actinobacteria	Mycobacterium_tuberculosis_CCDC5079_chromosome_NC_017523	IS110	7	3	4	1,00E+000
Planctomycetes	Planctomyces_brasiliensis_DSM_5305_chromosome_NC_015174	IS110	7	4	3	1,00E+000
Proteobacteria	Pseudomonas_brassicacearum_subsp._brassicacearum_NFM421_chromosome_NC_015379	IS110	7	4	3	1,00E+000
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS110	19	9	10	1,00E+000
Proteobacteria	Rahnella_sp._Y9602_chromosome_NC_015061	IS110	11	6	5	1,00E+000
Proteobacteria	Rhodobacter_sphaeroides_ATCC_17025_chromosome_NC_009428	IS110	15	7	8	1,00E+000
Actinobacteria	Rhodococcus_jostii_RHA1_chromosome_NC_008268	IS110	7	4	3	1,00E+000
Proteobacteria	Shewanella_baltica_OS223_chromosome_NC_011663	IS110	7	3	4	1,00E+000
Proteobacteria	Shigella_flexneri_2a_str._301_chromosome_NC_004337	IS110	7	3	4	1,00E+000
Actinobacteria	Slackia_heliotrinireducens_DSM_20476_chromosome_NC_013165	IS110	7	4	3	1,00E+000
Proteobacteria	Sodalis_glossinidius_str._'morsitans'_chromosome_NC_007712	IS110	11	6	5	1,00E+000
Actinobacteria	Streptomyces_coelicolor_A3(2)_chromosome_NC_003888	IS110	7	3	4	1,00E+000
Actinobacteria	Streptomyces_scabiei_87.22_chromosome_NC_013929	IS110	11	6	5	1,00E+000
Aquificae	Sulfurihydrogenibium_sp._YO3AOP1_chromosome_NC_010730	IS110	11	5	6	1,00E+000
Actinobacteria	Tsukamurella_paurometabola_DSM_20162_chromosome_NC_014158	IS110	9	5	4	1,00E+000
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS110	33	16	17	1,00E+000
Proteobacteria	Desulfomonile_tiedjei_DSM_6799_chromosome_NC_018025	IS1182	18	13	5	9,63E-002
Firmicutes	Thermoanaerobacterium_xylanolyticum_LX-11_chromosome_NC_015555	IS1182	15	4	11	1,18E-001
Proteobacteria	Burkholderia_mallei_ATCC_23344_chromosome_1_NC_006348	IS1182	34	22	12	1,21E-001
Actinobacteria	Acidimicrobium_ferrooxidans_DSM_10331_chromosome_NC_013124	IS1182	7	6	1	1,25E-001
Firmicutes	Helibacterium_modesticaldum_Ice1_chromosome_NC_010337	IS1182	35	13	22	1,75E-001
Firmicutes	Bacillus_pumilus_SAFR-032_NC_009848	IS1182	9	2	7	1,80E-001
Proteobacteria	Stigmatella_aurantiaca_DW4/3-1_chromosome_NC_014623	IS1182	9	7	2	1,80E-001
Proteobacteria	Coralloccoccus_coralloides_DSM_2259_chromosome_NC_017030	IS1182	6	1	5	2,19E-001
Firmicutes	Desulfosporosinus_meridiei_DSM_13257_chromosome_NC_018515	IS1182	6	5	1	2,19E-001
Proteobacteria	Rhodopseudomonas_palustris_BisA53_chromosome_NC_008435	IS1182	6	5	1	2,19E-001
Firmicutes	Streptococcus_dysgalactiae_subsp._equisimilis_ATCC_12394_chromosome_NC_017567	IS1182	6	5	1	2,19E-001
Firmicutes	Thermoanaerobacterium_thermosaccharolyticum_DSM_571_chromosome_NC_014410	IS1182	6	1	5	2,19E-001
Proteobacteria	Sinorhizobium_fredii_USDA_257_chromosome_NC_018000	IS1182	8	2	6	2,89E-001
Firmicutes	Thermosediminibacter_oceani_DSM_16646_chromosome_NC_014377	IS1182	27	16	11	4,42E-001
Proteobacteria	Hyphomicrobium_sp._MC1_NC_015717	IS1182	7	5	2	4,53E-001
Firmicutes	Paenibacillus_mucilaginosus_3016_chromosome_NC_016935	IS1182	7	2	5	4,53E-001

Firmicutes	Thermoanaerobacter_tengcongensis_MB4_NC_003869	IS1182	7	5	2	4,53E-001
Bacteroidetes	Zobellia_galactanivorans_NC_015844	IS1182	7	5	2	4,53E-001
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS1182	16	10	6	4,54E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS1182	9	6	3	5,08E-001
Firmicutes	Clostridium_botulinum_BKT015925_chromosome_NC_015425	IS1182	15	6	9	6,07E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS1182	17	7	10	6,29E-001
Firmicutes	Caldicellulosiruptor_owensensis_OL_chromosome_NC_014657	IS1182	6	2	4	6,88E-001
Bacteroidetes	Cyclobacterium_marinum_DSM_745_chromosome_NC_015914	IS1182	6	4	2	6,88E-001
Bacteroidetes	Fluviicola_taffensis_DSM_16823_chromosome_NC_015321	IS1182	6	4	2	6,88E-001
Proteobacteria	Rhodospirillum_centenum_SW_chromosome_NC_011420	IS1182	6	4	2	6,88E-001
Firmicutes	Streptococcus_agalactiae_GD201008-001_chromosome_NC_018646	IS1182	6	2	4	6,88E-001
Firmicutes	Streptococcus_pyogenes_MGAS10750_chromosome_NC_008024	IS1182	6	4	2	6,88E-001
Firmicutes	Enterococcus_hirae_ATCC_9790_chromosome_NC_018081	IS1182	8	5	3	7,27E-001
Firmicutes	Bacillus_cereus_biovar_anthraxis_str_CI_chromosome_NC_014335	IS1182	10	6	4	7,54E-001
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS1182	10	6	4	7,54E-001
Firmicutes	Geobacillus_sp._Y4.1MC1_chromosome_NC_014650	IS1182	18	8	10	8,15E-001
Proteobacteria	Methylobacterium_nodulans_ORIS_2060_chromosome_NC_011894	IS1182	24	13	11	8,39E-001
Firmicutes	Clostridium_novyi_NT_chromosome_NC_008593	IS1182	26	12	14	8,45E-001
Firmicutes	Anoxybacillus_flavithermus_WK1_chromosome_NC_011567	IS1182	6	3	3	1,00E+000
Bacteroidetes	Bacteroides_vulgatus_ATCC_8482_chromosome_NC_009614	IS1182	10	5	5	1,00E+000
Proteobacteria	Burkholderia_pseudomallei_668_chromosome_chromosome_I_NC_009074	IS1182	6	3	3	1,00E+000
Bacteroidetes	Saprospira_grandis_str._Lewin_chromosome_NC_016940	IS1182	6	3	3	1,00E+000
Firmicutes	Selenomonas_ruminantium_subsp._lactilytica_TAM6421_NC_017068	IS1182	6	3	3	1,00E+000
Firmicutes	Staphylococcus_aureus_subsp._aureus_str._Newman_chromosome_NC_009641	IS1182	6	3	3	1,00E+000
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	IS1182	20	10	10	1,00E+000
Proteobacteria	Yersinia_enterocolitica_subsp._palearctica_Y11_NC_017564	IS1182	6	3	3	1,00E+000
Cyanobacteria	Anabaena_variabilis_ATCC_29413_chromosome_NC_007413	IS1182	17	8	9	1,00E+000
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	IS1182	7	3	4	1,00E+000
Firmicutes	Bacillus_thuringiensis_serovar_konkukian_str._97-27_chromosome_NC_005957	IS1182	15	8	7	1,00E+000
Firmicutes	Desulfosporosinus_acidiphilus_SJ4_chromosome_NC_018068	IS1182	7	4	3	1,00E+000
Deferribacteres	Flexistipes_sinusarabici_DSM_4947_chromosome_NC_015672	IS1182	19	9	10	1,00E+000
Proteobacteria	Gallibacterium_anatis_UMN179_chromosome_NC_015460	IS1182	7	4	3	1,00E+000
Bacteroidetes	Leadbetterella_byssophila_DSM_17132_chromosome_NC_014655	IS1182	7	4	3	1,00E+000
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS1182	11	5	6	1,00E+000
Proteobacteria	Pseudomonas_syringae_pv._tomato_str._DC3000_chromosome_NC_004578	IS1182	13	7	6	1,00E+000
Actinobacteria	Rhodococcus_jostii_RHA1_chromosome_NC_008268	IS1182	7	3	4	1,00E+000
Firmicutes	Syntrophomonas_wolfei_subsp._wolfei_str._Goettingen_chromosome_NC_008346	IS1182	7	4	3	1,00E+000
Proteobacteria	Verminephrobacter_eiseniae_EF01-2_chromosome_NC_008786	IS1182	9	5	4	1,00E+000
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS1380	9	2	7	1,80E-001
Proteobacteria	Syntrophobacter_fumaroxidans_MPOB_chromosome_NC_008554	IS1380	6	1	5	2,19E-001
Firmicutes	Bacillus_coagulans_2-6_chromosome_NC_015634	IS1380	8	2	6	2,89E-001
Chlorobi	Chlorobium_phaeobacteroides_BS1_chromosome_NC_010831	IS1380	26	10	16	3,27E-001
Proteobacteria	Marinobacter_aquaeolei_VT8_NC_008740	IS1380	7	2	5	4,53E-001
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	IS1380	9	3	6	5,08E-001
Firmicutes	Desulfotomaculum_reducens_MI-1_chromosome_NC_009253	IS1380	11	4	7	5,49E-001
Firmicutes	Streptococcus_pneumoniae_ST556_chromosome_NC_017769	IS1380	15	6	9	6,07E-001
Proteobacteria	Methylobacterium_methanica_MC09_chromosome_NC_015572	IS1380	6	2	4	6,88E-001
Proteobacteria	Thauera_sp._MZ1T_chromosome_NC_011662	IS1380	6	4	2	6,88E-001
Deferribacteres	Flexistipes_sinusarabici_DSM_4947_chromosome_NC_015672	IS1380	29	13	16	7,11E-001
Proteobacteria	Acetobacter_pasteurianus_IFO_3283-01_NC_013209	IS1380	47	22	25	7,71E-001
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS1380	12	5	7	7,74E-001
Firmicutes	Tetragenococcus_halophilus_NBRC_12172_NC_016052	IS1380	18	10	8	8,15E-001
Proteobacteria	Azospirillum_sp._B510_chromosome_NC_013854	IS1380	8	4	4	1,00E+000
Firmicutes	Desulfotomaculum_carboxydivorans_CO-1-SRB_chromosome_NC_015565	IS1380	8	4	4	1,00E+000
Proteobacteria	Sinorhizobium_fredii_NGR234_chromosome_NC_012587	IS1380	6	3	3	1,00E+000
Proteobacteria	Methylobacterium_populi_BJ001_chromosome_NC_010725	IS1380	15	7	8	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS1380	17	8	9	1,00E+000
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS1595	6	0	6	3,13E-002
Spirochaetes	Turneriella_parva_DSM_21527_chromosome_NC_018020	IS1595	6	0	6	3,13E-002
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS1595	14	11	3	5,74E-002
Spirochaetes	Brachyspira_pilosicoli_B2904_chromosome_NC_018607	IS1595	8	7	1	7,03E-002
Bacteroidetes	Psychroflexus_torquis_ATCC_700755_chromosome_NC_018721	IS1595	18	13	5	9,63E-002
Bacteroidetes	Odoribacter_splanchnicus_DSM_20712_chromosome_NC_015160	IS1595	6	5	1	2,19E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS1595	8	6	2	2,89E-001
Proteobacteria	Neisseria_gonorrhoeae_FA_1090_NC_002946	IS1595	17	11	6	3,32E-001
Proteobacteria	Shewanella_oneidensis_MR-1_chromosome_NC_004347	IS1595	12	4	8	3,88E-001
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS1595	14	5	9	4,24E-001
Actinobacteria	Mycobacterium_vanbaalenii_PYR-1_chromosome_NC_008726	IS1595	7	5	2	4,53E-001
Bacteroidetes	Cellulophaga_algicola_DSM_14237_chromosome_NC_014934	IS1595	20	8	12	5,03E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_1_NC_006370	IS1595	9	3	6	5,08E-001
Spirochaetes	Spirochaeta_thermophila_DSM_6578_chromosome_NC_017583	IS1595	11	7	4	5,49E-001
Actinobacteria	Slackia_heliotrinireducens_DSM_20476_chromosome_NC_013165	IS1595	13	8	5	5,81E-001
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS1595	12	7	5	7,74E-001
Proteobacteria	Neisseria_meningitidis_053442_chromosome_NC_010120	IS1595	14	8	6	7,91E-001
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	IS1595	68	33	35	9,04E-001
Proteobacteria	Desulfobrevibacter_aespoeensis_Aspo-2_chromosome_NC_014844	IS1595	16	8	8	1,00E+000
Proteobacteria	Francisella_cf._novicida_Fx1_chromosome_NC_017450	IS1595	18	9	9	1,00E+000
Bacteroidetes	Tannerella_forsythia_ATCC_43037_chromosome_NC_016610	IS1595	10	5	5	1,00E+000
Spirochaetes	Treponema_succinifaciens_DSM_2489_chromosome_NC_015385	IS1595	8	4	4	1,00E+000
Proteobacteria	Candidatus_Accumulibacter_phosphatis_clade_IIA_str._UW-1_chromosome_NC_013194	IS1595	11	5	6	1,00E+000
Proteobacteria	Haemophilus_somnus_2336_chromosome_NC_010519	IS1595	7	3	4	1,00E+000
Spirochaetes	Spirochaeta_sp._Buddy_chromosome_NC_015152	IS1595	7	4	3	1,00E+000
Firmicutes	Ruminococcus_albus_7_chromosome_NC_014833	IS1595	25	12	13	1,00E+000
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_DSM_446_chromosome_NC_013205	IS1634	7	6	1	1,25E-001

Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS1634	7	6	1	1,25E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS1634	8	5	3	7,27E-001
Firmicutes	Thermacetogenium_phaeum_DSM_12270_chromosome_NC_018870	IS1634	8	3	5	7,27E-001
Firmicutes	Geobacillus_kaustophilus_HTA426_chromosome_NC_006510	IS1634	14	6	8	7,91E-001
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS1634	6	3	3	1,00E+000
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	IS1634	20	10	10	1,00E+000
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	IS1634	7	4	3	1,00E+000
Proteobacteria	Hippea_maritima_DSM_10411_chromosome_NC_015318	IS1634	7	3	4	1,00E+000
Proteobacteria	Shewanella_sp._ANA-3_chromosome_chromosome_1_NC_008577	IS1634	9	4	5	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS1634	37	19	18	1,00E+000
Proteobacteria	Yersinia_pestis_D106004_chromosome_NC_017154	IS200	58	48	10	4,52E-007
Proteobacteria	Escherichia_coli_CFT073_chromosome_NC_004431	IS200	19	19	0	3,81E-006
Firmicutes	Streptococcus_salivarius_CCHSS3_NC_015760	IS200	19	18	1	7,63E-005
Chlorobi	Chlorobium_phaeobacteroides_DSM_266_chromosome_NC_008639	IS200	18	17	1	1,45E-004
Firmicutes	Clostridium_cellulovorans_743B_chromosome_NC_014393	IS200	13	13	0	2,44E-004
Proteobacteria	Salmonella_enterica_subsp._enterica_serovar_Typhi_str._CT18_chromosome_NC_003198	IS200	27	23	4	3,11E-004
Firmicutes	Streptococcus_suis_ST1_chromosome_NC_017950	IS200	41	32	9	4,31E-004
Proteobacteria	Photobacterium_profundum_SS9_chromosome_1_NC_006370	IS200	16	15	1	5,19E-004
Firmicutes	Clostridium_thermocellum_DSM_1313_chromosome_NC_017304	IS200	11	11	0	9,77E-004
Firmicutes	Clostridium_cellulolyticum_H10_chromosome_NC_011898	IS200	10	10	0	1,95E-003
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS200	10	10	0	1,95E-003
Proteobacteria	Rahnella_aquatilis_CIP_78.65_=_ATCC_33071_chromosome_NC_016818	IS200	9	9	0	3,91E-003
Proteobacteria	Shewanella_amazonensis_SB2B_chromosome_NC_008700	IS200	9	9	0	3,91E-003
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS200	12	11	1	6,35E-003
Firmicutes	Alkaliphilus_metalliredigens_QYMF_chromosome_NC_009633	IS200	8	8	0	7,81E-003
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	IS200	8	8	0	7,81E-003
Firmicutes	Roseburia_hominis_A2-183_chromosome_NC_015977	IS200	7	7	0	1,56E-002
Firmicutes	Tetragenococcus_halophilus_NBRC_12172_NC_016052	IS200	7	7	0	1,56E-002
Deinococcus-Thermus	Truepera_radiovictrix_DSM_17093_chromosome_NC_014221	IS200	7	7	0	1,56E-002
Proteobacteria	Alcanivorax_dieselolei_B5_chromosome_NC_018691	IS200	6	6	0	3,13E-002
Firmicutes	Staphylococcus_aureus_subsp._aureus_HO_5096_0412_NC_017763	IS200	6	6	0	3,13E-002
Firmicutes	Syntrophomonas_wolfei_subsp._wolfei_str._Goettingen_chromosome_NC_008346	IS200	6	6	0	3,13E-002
Firmicutes	Thermoanaerobacterium_xylanolyticum_LX-11_chromosome_NC_015555	IS200	6	6	0	3,13E-002
Proteobacteria	Rickettsia_massiliae_MTU5_chromosome_NC_009900	IS200	11	9	2	6,54E-002
Proteobacteria	Shewanella_woodyi_ATCC_51908_chromosome_NC_010506	IS200	11	9	2	6,54E-002
Ignavibacteria	Ignavibacterium_album_JCM_16511_chromosome_NC_017464	IS200	8	7	1	7,03E-002
Proteobacteria	Nitratifactor_salsuginis_DSM_16511_chromosome_NC_014935	IS200	8	7	1	7,03E-002
Proteobacteria	Nitrosococcus_halophilus_Nc4_chromosome_NC_013960	IS200	8	7	1	7,03E-002
Proteobacteria	Rickettsia_australis_str._Cutlack_chromosome_NC_017058	IS200	21	15	6	7,84E-002
Proteobacteria	Yersinia_pseudotuberculosis_IP_31758_chromosome_NC_009708	IS200	15	11	4	1,18E-001
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	IS200	7	6	1	1,25E-001
Proteobacteria	Pasteurella_multocida_36950_chromosome_NC_016808	IS200	7	6	1	1,25E-001
Proteobacteria	Rickettsia_akari_str._Hartford_chromosome_NC_009881	IS200	12	9	3	1,46E-001
Firmicutes	Filifactor_alocis_ATCC_35896_chromosome_NC_016630	IS200	9	7	2	1,80E-001
Firmicutes	Clostridium_tetani_E88_chromosome_NC_004557	IS200	6	5	1	2,19E-001
Proteobacteria	Desulfomonile_tiedjei_DSM_6799_chromosome_NC_018025	IS200	6	5	1	2,19E-001
Proteobacteria	Methylomicrobium_alcaliphilum_chromosome_NC_016112	IS200	6	5	1	2,19E-001
Proteobacteria	Pelobacter_carbinolicus_DSM_2380_chromosome_NC_007498	IS200	6	5	1	2,19E-001
Firmicutes	Thermoanaerobacterium_saccharolyticum_JW/SL-YS485_chromosome_NC_017992	IS200	6	5	1	2,19E-001
Bacteroidetes	Cytophaga_hutchinsonii_ATCC_33406_chromosome_NC_008255	IS200	8	2	6	2,89E-001
Bacteroidetes	Psychroflexus_torquis_ATCC_700755_chromosome_NC_018721	IS200	8	6	2	2,89E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS200	8	2	6	2,89E-001
Bacteroidetes	Flexibacter_litoralis_DSM_6794_chromosome_NC_018018	IS200	15	10	5	3,02E-001
Firmicutes	Lactobacillus_reuteri_DSM_20016_chromosome_NC_009513	IS200	15	10	5	3,02E-001
Planctomycetes	Rhodopirellula_baltica_SH_1_chromosome_NC_005027	IS200	7	5	2	4,53E-001
Proteobacteria	Rickettsia_canadensis_str._McKiel_NC_009879	IS200	7	5	2	4,53E-001
Bacteroidetes	Runella_slithyformis_DSM_19594_chromosome_NC_015703	IS200	7	2	5	4,53E-001
Thermodesulfobacteria	Thermodesulfatator_indicus_DSM_15286_chromosome_NC_015681	IS200	7	2	5	4,53E-001
Proteobacteria	Geobacter_uraniireducens_Rf4_chromosome_NC_009483	IS200	9	6	3	5,08E-001
Proteobacteria	Thioalkalivibrio_sp._K90mix_chromosome_NC_013889	IS200	9	6	3	5,08E-001
Cyanobacteria	Synechococcus_sp._JA-3-3Ab_chromosome_NC_007775	IS200	15	6	9	6,07E-001
Chloroflexi	Chloroflexus_aggregans_DSM_9485_chromosome_NC_011831	IS200	6	4	2	6,88E-001
Bacteroidetes	Flavobacterium_johnsoniae_UW101_chromosome_NC_009441	IS200	6	4	2	6,88E-001
Bacteroidetes	Haliscomenobacter_hydrossis_DSM_1100_chromosome_NC_015510	IS200	6	2	4	6,88E-001
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS200	6	2	4	6,88E-001
Cyanobacteria	Prochlorococcus_marinus_str._MIT_9303_chromosome_NC_008820	IS200	6	2	4	6,88E-001
Proteobacteria	Sulfurovum_sp._NBC37-1_chromosome_NC_009663	IS200	6	4	2	6,88E-001
Bacteroidetes	Candidatus_Amoebophilus_asiaticus_5a2_chromosome_NC_010830	IS200	8	5	3	7,27E-001
Cyanobacteria	Cyanothece_sp._PCC_7424_chromosome_NC_011729	IS200	8	3	5	7,27E-001
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS200	8	5	3	7,27E-001
Proteobacteria	Desulfatibacillum_alkenivorans_AK-01_chromosome_NC_011768	IS200	14	8	6	7,91E-001
Proteobacteria	Anaeromyxobacter_dehalogenans_2CP-1_chromosome_NC_011891	IS200	8	4	4	1,00E+000
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS200	6	3	3	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS200	8	4	4	1,00E+000
Firmicutes	Selenomonas_sputigena_ATCC_35185_chromosome_NC_015437	IS200	6	3	3	1,00E+000
Proteobacteria	Anaeromyxobacter_sp._K_chromosome_NC_011145	IS200	7	3	4	1,00E+000
Bacteroidetes	Emticicia_oligotrophica_DSM_17448_chromosome_NC_018748	IS200	7	3	4	1,00E+000
Proteobacteria	Methylomonas_methanica_MC09_chromosome_NC_015572	IS200	13	7	6	1,00E+000
Planctomycetes	Planctomyces_brasiliensis_DSM_5305_chromosome_NC_015174	IS200	7	4	3	1,00E+000
Proteobacteria	Thiocystis_violascens_DSM_198_chromosome_NC_018012	IS200	7	3	4	1,00E+000
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS200	9	4	5	1,00E+000
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	IS200_IS605	14	14	0	1,22E-004
Firmicutes	Lactobacillus_sanfranciscensis_TMW_1.1304_chromosome_NC_015978	IS200_IS605	8	8	0	7,81E-003
Firmicutes	Clostridium_perfringens_SM101_chromosome_NC_008262	IS200_IS605	12	10	2	3,86E-002

Proteobacteria	Proteus_mirabilis_HI4320_chromosome_NC_010554	IS200_IS605	12	2	10	3,86E-002
Chloroflexi	Chloroflexus_aggregans_DSM_9485_chromosome_NC_011831	IS200_IS605	7	1	6	1,25E-001
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS200_IS605	7	6	1	1,25E-001
Firmicutes	Clostridium_difficile_BI1_NC_017179	IS200_IS605	6	5	1	2,19E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS200_IS605	6	5	1	2,19E-001
Proteobacteria	Helicobacter_cetorum_MIT_99-5656_chromosome_NC_017735	IS200_IS605	20	12	8	5,03E-001
Cyanobacteria	Cyanothece_sp._PCC_7424_chromosome_NC_011729	IS200_IS605	6	4	2	6,88E-001
Deinococcus-Thermus	Deinococcus_radiodurans_R1_chromosome_chromosome_1_NC_001263	IS200_IS605	8	3	5	7,27E-001
Firmicutes	Lactobacillus_fermentum_IFO_3956_NC_010610	IS200_IS605	8	3	5	7,27E-001
Cyanobacteria	Thermosynechococcus_elongatus_BP-1_chromosome_NC_004113	IS200_IS605	12	7	5	7,74E-001
Proteobacteria	Helicobacter_pylori_26695_NC_000915	IS200_IS605	6	3	3	1,00E+000
Firmicutes	Lactobacillus_amylovorus_GRL1118_chromosome_NC_017470	IS200_IS605	6	3	3	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS200_IS605	6	3	3	1,00E+000
Firmicutes	Desulfosporosinus_orientis_DSM_765_chromosome_NC_016584	IS21	14	13	1	1,83E-003
Proteobacteria	Sorangium_cellulosum_'So_ce_56'_chromosome_NC_010162	IS21	7	0	7	1,56E-002
Proteobacteria	Burkholderia_multivorans_ATCC_17616_uid58697_chromosome_1_NC_010084	IS21	6	0	6	3,13E-002
Firmicutes	Bacillus_thuringiensis_serovar_chinensis_CT-43_chromosome_NC_017208	IS21	9	8	1	3,91E-002
Proteobacteria	Yersinia_pestis_KIM_10_chromosome_NC_004088	IS21	35	11	24	4,10E-002
Proteobacteria	Acidithiobacillus_ferroxidans_ATCC_53993_chromosome_NC_011206	IS21	8	7	1	7,03E-002
Proteobacteria	Alteromonas_sp._SN2_chromosome_NC_015554	IS21	8	7	1	7,03E-002
Actinobacteria	Corynebacterium_efficiens_YS-314_chromosome_NC_004369	IS21	8	7	1	7,03E-002
Proteobacteria	Methylobacterium_sp._4-46_chromosome_NC_010511	IS21	8	1	7	7,03E-002
Proteobacteria	Thauera_sp._MZ1T_chromosome_NC_011662	IS21	10	8	2	1,09E-001
Chlorobi	Chlorobium_phaeobacteroides_DSM_266_chromosome_NC_008639	IS21	27	18	9	1,22E-001
Actinobacteria	Microtholunatus_phosphovorus_NM-1_NC_015635	IS21	7	6	1	1,25E-001
Bacteroidetes	Sphingobacterium_sp._21_chromosome_NC_015277	IS21	7	6	1	1,25E-001
Firmicutes	Syntrophomonas_wolfei_subsp._wolfei_str._Goettingen_chromosome_NC_008346	IS21	7	1	6	1,25E-001
Firmicutes	Thermacetogenium_phaeum_DSM_12270_chromosome_NC_018870	IS21	7	6	1	1,25E-001
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid61587_chromosome_NC_010125	IS21	12	9	3	1,46E-001
Proteobacteria	Aeromonas_salmonicida_subsp._salmonicida_A449_NC_009348	IS21	9	7	2	1,80E-001
Proteobacteria	Marinobacter_aquaeolei_VT8_NC_008740	IS21	23	8	15	2,10E-001
Proteobacteria	Myxococcus_fulvus_HW-1_chromosome_NC_015711	IS21	16	11	5	2,10E-001
Firmicutes	Clostridium_botulinum_Ba4_str._657_chromosome_NC_012658	IS21	6	5	1	2,19E-001
Cyanobacteria	Cyanothece_sp._PCC_7425_chromosome_NC_011884	IS21	6	5	1	2,19E-001
Proteobacteria	Mesorhizobium_lotii_MAFF303099_chromosome_NC_002678	IS21	6	1	5	2,19E-001
Proteobacteria	Ralstonia_solanacearum_Po82_chromosome_NC_017574	IS21	6	5	1	2,19E-001
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS21	11	8	3	2,27E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS21	11	3	8	2,27E-001
Deferribacteres	Denitrovibrio_acetiphilus_DSM_12809_chromosome_NC_013943	IS21	18	12	6	2,38E-001
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	IS21	29	18	11	2,65E-001
Proteobacteria	Burkholderia_xenovorans_LB400_chromosome_1_NC_007951	IS21	13	9	4	2,67E-001
Proteobacteria	Azospirillum_sp._B510_chromosome_NC_013854	IS21	8	2	6	2,89E-001
Acidobacteria	Candidatus_Solibacter_usitatus_Ellin6076_chromosome_NC_008536	IS21	8	6	2	2,89E-001
Proteobacteria	Hippea_maritima_DSM_10411_chromosome_NC_015318	IS21	8	2	6	2,89E-001
Firmicutes	Sulfobacillus_acidophilus_DSM_10332_chromosome_NC_016884	IS21	8	6	2	2,89E-001
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS21	15	5	10	3,02E-001
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS21	10	3	7	3,44E-001
Proteobacteria	Desulfurivibrio_alkaliphilus_AHT2_chromosome_NC_014216	IS21	10	3	7	3,44E-001
Proteobacteria	Geobacter_lovleyi_SZ_chromosome_NC_010814	IS21	10	3	7	3,44E-001
Proteobacteria	Nitrobacter_hamburgensis_X14_chromosome_NC_007964	IS21	10	3	7	3,44E-001
Proteobacteria	Sulfurospirillum_deleyianum_DSM_6946_chromosome_NC_013512	IS21	10	7	3	3,44E-001
Proteobacteria	Acidithiobacillus_calidus_SM-1_chromosome_NC_015850	IS21	12	8	4	3,88E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS21	14	9	5	4,24E-001
Proteobacteria	Methylotenera_versatilis_301_chromosome_NC_014207	IS21	7	2	5	4,53E-001
Actinobacteria	Mycobacterium_canettii_CIPT_140010059_NC_015848	IS21	7	2	5	4,53E-001
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS21	16	10	6	4,54E-001
Firmicutes	Desulfotomaculum_carboxydvorans_CO-1-SRB_chromosome_NC_015565	IS21	9	6	3	5,08E-001
Proteobacteria	Sinorhizobium_melloti_SM11_chromosome_NC_017325	IS21	9	3	6	5,08E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS21	24	10	14	5,41E-001
Proteobacteria	Escherichia_coli_536_NC_008253	IS21	11	4	7	5,49E-001
Proteobacteria	Candidatus_Accumulibacter_phosphatis_clade_IIA_str._UW-1_chromosome_NC_013194	IS21	15	6	9	6,07E-001
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS21	6	4	2	6,88E-001
Firmicutes	Clostridium_beijerinckii_NCIMB_8052_chromosome_NC_009617	IS21	6	4	2	6,88E-001
Proteobacteria	Dechlorosoma_suillum_PS_chromosome_NC_016616	IS21	6	2	4	6,88E-001
Tenericutes	Mycoplasma_penetrans_HF-2_NC_004432	IS21	6	2	4	6,88E-001
Proteobacteria	Myxococcus_xanthus_DK_1622_chromosome_NC_008095	IS21	6	2	4	6,88E-001
Firmicutes	Roseburia_hominis_A2-183_chromosome_NC_015977	IS21	6	4	2	6,88E-001
Proteobacteria	Yersinia_enterocolitica_subsp._palearctica_Y11_NC_017564	IS21	6	4	2	6,88E-001
Proteobacteria	Yersinia_pseudotuberculosis_IP_32953_chromosome_NC_006155	IS21	6	4	2	6,88E-001
Firmicutes	Caldicellulosiruptor_bescii_DSM_6725_chromosome_NC_012034	IS21	8	5	3	7,27E-001
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS21	8	5	3	7,27E-001
Firmicutes	Desulfotomaculum_reducens_MI-1_chromosome_NC_009253	IS21	8	3	5	7,27E-001
Proteobacteria	Geobacter_metallireducens_GS-15_chromosome_NC_007517	IS21	8	3	5	7,27E-001
Firmicutes	Lactococcus_lactis_subsp._cremoris_MG1363_chromosome_NC_009004	IS21	8	5	3	7,27E-001
Proteobacteria	Polymorphum_gilvum_SL003B-26A1_chromosome_NC_015259	IS21	8	5	3	7,27E-001
Proteobacteria	Phaeobacter_gallaeciensis_DSM_17395_chromosome_NC_018290	IS21	10	6	4	7,54E-001
Firmicutes	Staphylococcus_aureus_subsp._aureus_HO_5096_0412_NC_017763	IS21	10	6	4	7,54E-001
Proteobacteria	Pseudomonas_putida_S16_chromosome_NC_015733	IS21	12	5	7	7,74E-001
Firmicutes	Symbiobacterium_thermophilum_IAM_14863_chromosome_NC_006177	IS21	12	7	5	7,74E-001
Firmicutes	Geobacillus_thermoglucosidasius_C56-YS93_chromosome_NC_015660	IS21	14	6	8	7,91E-001
Proteobacteria	Haliangium_ochraceum_DSM_14365_chromosome_NC_013440	IS21	14	8	6	7,91E-001
Proteobacteria	Sinorhizobium_fredii_HH103_NC_016812	IS21	16	9	7	8,04E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS21	16	9	7	8,04E-001
Proteobacteria	Shewanella_baltica_OS117_chromosome_NC_017579	IS21	32	17	15	8,60E-001

Actinobacteria	Bifidobacterium_longum_DJO10A_chromosome_NC_010816	IS21	10	5	5	1,00E+000
Firmicutes	Caldicellulosiruptor_saccharolyticus_DSM_8903_chromosome_NC_009437	IS21	10	5	5	1,00E+000
Proteobacteria	Comamonas_testosteroni_CNB-2_chromosome_NC_013446	IS21	8	4	4	1,00E+000
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS21	8	4	4	1,00E+000
Firmicutes	Geobacillus_sp._Y4.1MC1_chromosome_NC_014650	IS21	20	10	10	1,00E+000
Thermotogae	Kosmotoga_olearia_TBF_19.5.1_NC_012785	IS21	12	6	6	1,00E+000
Firmicutes	Mahella_australiensis_50-1_BON_chromosome_NC_015520	IS21	8	4	4	1,00E+000
Firmicutes	Moorella_thermoacetica_ATCC_39073_chromosome_NC_007644	IS21	6	3	3	1,00E+000
Proteobacteria	Pseudomonas_stutzeri_A1501_chromosome_NC_009434	IS21	8	4	4	1,00E+000
Proteobacteria	Rhodopseudomonas_palustris_BisB18_chromosome_NC_007925	IS21	6	3	3	1,00E+000
Proteobacteria	Rickettsia_felis_URRWXCal2_chromosome_NC_007109	IS21	6	3	3	1,00E+000
Actinobacteria	Saccharopolyspora_erythraea_NRR1_2338_chromosome_NC_009142	IS21	8	4	4	1,00E+000
Firmicutes	Thermoanaerobacterium_thermosaccharolyticum_DSM_571_chromosome_NC_014410	IS21	8	4	4	1,00E+000
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	IS21	13	7	6	1,00E+000
Proteobacteria	Alicyclophilus_denitrificans_K601_chromosome_NC_015422	IS21	11	6	5	1,00E+000
Firmicutes	Alkaliphilus_metalliredigens_QYMF_chromosome_NC_009633	IS21	15	8	7	1,00E+000
Proteobacteria	Edwardsiella_tarda_EIB202_chromosome_NC_013508	IS21	11	5	6	1,00E+000
Firmicutes	Ethanoligenens_harbinense_YUAN-3_chromosome_NC_014828	IS21	11	6	5	1,00E+000
Deferribacteres	Flexistipes_sinusarabici_DSM_4947_chromosome_NC_015672	IS21	9	5	4	1,00E+000
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	IS21	7	4	3	1,00E+000
Bacteroidetes	Parabacteroides_distasonis_ATCC_8503_chromosome_NC_009615	IS21	7	4	3	1,00E+000
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS21	13	7	6	1,00E+000
Proteobacteria	Rhodobacter_sphaeroides_ATCC_17025_chromosome_NC_009428	IS21	9	5	4	1,00E+000
Actinobacteria	Salinispora_arenicola_CNS-205_chromosome_NC_009953	IS21	7	3	4	1,00E+000
Firmicutes	Thermosediminibacter_oceani_DSM_16646_chromosome_NC_014377	IS21	15	8	7	1,00E+000
Proteobacteria	Thiomonas_intermedia_K12_chromosome_NC_014153	IS21	13	7	6	1,00E+000
Proteobacteria	Pseudomonas_syringae_pv._tomato_str._DC3000_chromosome_NC_004578	IS21	23	11	12	1,00E+000
Proteobacteria	Shigella_sonnei_53G_NC_016822	IS21	29	14	15	1,00E+000
Proteobacteria	Helicobacter_cetorum_MIT_99-5656_chromosome_NC_017735	IS256	8	8	0	7,81E-003
Proteobacteria	Actinobacillus_pleuropneumoniae_serovar_3_str._JL03_chromosome_NC_010278	IS256	7	7	0	1,56E-002
Firmicutes	Thermacetogenium_phaeum_DSM_12270_chromosome_NC_018870	IS256	7	7	0	1,56E-002
Firmicutes	Lactobacillus_fermentum_CECT_5716_chromosome_NC_017465	IS256	27	20	7	1,92E-002
Actinobacteria	Corynebacterium_diphtheriae_PW8_chromosome_NC_016789	IS256	10	9	1	2,15E-002
Proteobacteria	Methylobacterium_populi_BJ001_chromosome_NC_010725	IS256	13	11	2	2,25E-002
Proteobacteria	Rhodospirillum_rubrum_ATCC_11170_chromosome_NC_007643	IS256	6	6	0	3,13E-002
Proteobacteria	Rickettsia_felis_URRWXCal2_chromosome_NC_007109	IS256	38	26	12	3,36E-002
Spirochaetes	Spirochaeta_africana_DSM_8902_chromosome_NC_017098	IS256	20	15	5	4,14E-002
Actinobacteria	Mycobacterium_canettii_CIPT_140010059_NC_015848	IS256	8	1	7	7,03E-002
Proteobacteria	Ralstonia_solanacearum_CFBP2957_chromosome_NC_014307	IS256	8	1	7	7,03E-002
Firmicutes	Caldicellulosiruptor_saccharolyticus_DSM_8903_chromosome_NC_009437	IS256	32	11	21	1,10E-001
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS256	27	18	9	1,22E-001
Bacteroidetes	Capnocytophaga_canimorsus_Cc5_chromosome_NC_015846	IS256	7	6	1	1,25E-001
Firmicutes	Desulfotomaculum_carboxydivorans_CO-1-SRB_chromosome_NC_015565	IS256	7	6	1	1,25E-001
Firmicutes	Enterococcus_faecium_DO_chromosome_NC_017960	IS256	17	12	5	1,43E-001
Spirochaetes	Treponema_azotonutricium_ZAS-9_chromosome_NC_015577	IS256	12	3	9	1,46E-001
Firmicutes	Lactococcus_lactis_subsp._cremoris_A76_chromosome_NC_017492	IS256	40	15	25	1,54E-001
Proteobacteria	Rhodospirillum_photometricum_DSM_122_NC_017059	IS256	14	4	10	1,80E-001
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_DSM_446_chromosome_NC_013205	IS256	9	7	2	1,80E-001
Actinobacteria	Micrococcus_luteus_NCTC_2665_NC_012803	IS256	21	14	7	1,89E-001
Chlamydiae	Parachlamydia_acanthamoebae_UV7_NC_015702	IS256	16	11	5	2,10E-001
Proteobacteria	Acidithiobacillus_caldis_SM-1_chromosome_NC_015850	IS256	6	5	1	2,19E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS256	6	5	1	2,19E-001
Firmicutes	Paenibacillus_mucilaginosus_KNP414_chromosome_NC_015690	IS256	6	1	5	2,19E-001
Deinococcus-Thermus	Thermus_sp._CCB_US3_UF1_chromosome_NC_017278	IS256	13	9	4	2,67E-001
Proteobacteria	Pseudomonas_syringae_pv._phaseolicola_1448A_chromosome_NC_005773	IS256	53	31	22	2,72E-001
Proteobacteria	Yersinia_pestis_A1122_chromosome_NC_017168	IS256	22	14	8	2,86E-001
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS256	8	6	2	2,89E-001
Bacteroidetes	Bacteroides_thetaiotaomicron_VPI-5482_chromosome_NC_004663	IS256	8	2	6	2,89E-001
Actinobacteria	Bifidobacterium_longum_subsp._infantis_ATCC_15697_chromosome_NC_011593	IS256	8	6	2	2,89E-001
Thermotogae	Mesotoga_prima_MesG1.Ag.4.2_chromosome_NC_017934	IS256	8	6	2	2,89E-001
Proteobacteria	Thioalkalivibrio_sp._K90mix_chromosome_NC_013889	IS256	8	6	2	2,89E-001
Spirochaetes	Treponema_brennaboreense_DSM_12168_chromosome_NC_015500	IS256	8	6	2	2,89E-001
Deferribacteres	Denitrovibrio_acetiphilus_DSM_12809_chromosome_NC_013943	IS256	17	6	11	3,32E-001
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_chromosome_2_NC_009255	IS256	10	7	3	3,44E-001
Synergistetes	Thermovirga_lienii_DSM_17291_chromosome_NC_016148	IS256	21	13	8	3,83E-001
Aquificae	Sulfurihydrogenibium_sp._YO3AOP1_chromosome_NC_010730	IS256	12	8	4	3,88E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS256	23	14	9	4,05E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS256	7	5	2	4,53E-001
Actinobacteria	Blastococcus_saxosidens_DD2_NC_016943	IS256	7	5	2	4,53E-001
Firmicutes	Geobacillus_thermoglucosidasius_C56-YS93_chromosome_NC_015660	IS256	7	5	2	4,53E-001
Cyanobacteria	Gloeobacter_violaceus_PCC_7421_chromosome_NC_005125	IS256	7	5	2	4,53E-001
Proteobacteria	Methylobacterium_sp._4-46_chromosome_NC_010511	IS256	7	5	2	4,53E-001
Proteobacteria	Ralstonia_pickettii_12D_chromosome_chromosome_1_NC_012856	IS256	7	2	5	4,53E-001
Spirochaetes	Treponema_primitia_ZAS-2_chromosome_NC_015578	IS256	7	2	5	4,53E-001
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	IS256	9	6	3	5,08E-001
Proteobacteria	Burkholderia_multivorans_ATCC_17616_uid58697_chromosome_1_NC_010084	IS256	9	3	6	5,08E-001
Firmicutes	Symbiobacterium_thermophilum_IAM_14863_chromosome_NC_006177	IS256	9	6	3	5,08E-001
Proteobacteria	Erwinia_pyrifoliae_DSM_12163_NC_017390	IS256	22	13	9	5,23E-001
Actinobacteria	Corynebacterium_urealyticum_DSM_7109_chromosome_NC_010545	IS256	11	4	7	5,49E-001
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS256	11	7	4	5,49E-001
Actinobacteria	Mycobacterium_sp._KMS_chromosome_NC_008705	IS256	11	4	7	5,49E-001
Proteobacteria	Myxococcus_fulvus_HW-1_chromosome_NC_015711	IS256	11	7	4	5,49E-001
Proteobacteria	Edwardsiella_ictaluri_93-146_chromosome_NC_012779	IS256	45	25	20	5,51E-001
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS256	26	11	15	5,57E-001

Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS256	15	9	6	6,07E-001
Spirochaetes	Spirochaeta_thermophila_DSM_6192_chromosome_NC_014484	IS256	15	9	6	6,07E-001
Actinobacteria	Corynebacterium_variabile_DSM_44702_chromosome_NC_015859	IS256	19	8	11	6,48E-001
Firmicutes	Lactobacillus_helveticus_DPC_4571_NC_010080	IS256	23	13	10	6,78E-001
Proteobacteria	Asticcacaulis_excentricus_CB_48_chromosome_1_NC_014816	IS256	6	2	4	6,88E-001
Proteobacteria	Burkholderia_rhizoxinica_HK1_454_chromosome_NC_014722	IS256	6	2	4	6,88E-001
Firmicutes	Caldicellulosiruptor_kristjanssonii_177R1B_chromosome_NC_014721	IS256	6	4	2	6,88E-001
Firmicutes	Clostridium_kluyveri_DSM_555_chromosome_NC_009706	IS256	6	2	4	6,88E-001
Actinobacteria	Corynebacterium_aurimucosum_ATCC_700975_NC_012590	IS256	6	4	2	6,88E-001
Proteobacteria	Pseudomonas_fluorescens_F113_chromosome_NC_016830	IS256	6	2	4	6,88E-001
Proteobacteria	Psychrobacter_cryohalolentis_K5_chromosome_NC_007969	IS256	6	4	2	6,88E-001
Firmicutes	Streptococcus_macedonicus_ACA-DC_198_NC_016749	IS256	6	2	4	6,88E-001
Thermotogae	Thermotoga_thermarum_DSM_5069_chromosome_NC_015707	IS256	6	4	2	6,88E-001
Proteobacteria	Xanthomonas_oryzae_pv_oryzae_KACC10331_chromosome_NC_006834	IS256	6	4	2	6,88E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS256	6	2	4	6,88E-001
Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_II_NC_007650	IS256	8	3	5	7,27E-001
Actinobacteria	Gordonia_polyisoprenivorans_VH2_chromosome_NC_016906	IS256	8	5	3	7,27E-001
Firmicutes	Halanaerobium_hydrogeniformans_chromosome_NC_014654	IS256	8	5	3	7,27E-001
Tenericutes	Mycoplasma_fermentans_M64_chromosome_NC_014921	IS256	8	3	5	7,27E-001
Proteobacteria	Nitrosomonas_eutropha_C91_chromosome_NC_008344	IS256	8	5	3	7,27E-001
Actinobacteria	Saccharopolyspora_erythraea_NRRL_2338_chromosome_NC_009142	IS256	8	5	3	7,27E-001
Bacteroidetes	Saprospira_grandis_str._Lewin_chromosome_NC_016940	IS256	8	5	3	7,27E-001
Proteobacteria	Yersinia_enterocolitica_subsp._paleartica_105.5R(r)_chromosome_NC_015224	IS256	8	3	5	7,27E-001
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS256	10	6	4	7,54E-001
Actinobacteria	Mycobacterium_gilvum_PYR-GCK_chromosome_NC_009338	IS256	10	6	4	7,54E-001
Proteobacteria	Shewanella_oneidensis_MR-1_chromosome_NC_004347	IS256	45	21	24	7,66E-001
Firmicutes	Clostridium_sp._SY8519_NC_015737	IS256	12	5	7	7,74E-001
Proteobacteria	Geobacter_uraniireducens_Rf4_chromosome_NC_009483	IS256	12	5	7	7,74E-001
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS256	14	6	8	7,91E-001
Firmicutes	Staphylococcus_haemolyticus_JCSC1435_chromosome_NC_007168	IS256	14	8	6	7,91E-001
Actinobacteria	Mycobacterium_ulcerans_Agy99_chromosome_NC_008611	IS256	71	37	34	8,13E-001
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	IS256	18	10	8	8,15E-001
Chloroflexi	Dehalogenimonas_lykanthroporepellens_BL-DC-9_chromosome_NC_014314	IS256	24	13	11	8,39E-001
Proteobacteria	Burkholderia_gladioli_BSR3_chromosome_chromosome_1_NC_015381	IS256	8	4	4	1,00E+000
Deferribacteres	Calditerrivibrio_nitroreducens_DSM_19672_chromosome_NC_014758	IS256	8	4	4	1,00E+000
Proteobacteria	Cupriavidus_necator_N-1_chromosome_chromosome_2_NC_015723	IS256	6	3	3	1,00E+000
Actinobacteria	Mycobacterium_rhodesiae_NBB3_chromosome_NC_016604	IS256	6	3	3	1,00E+000
Actinobacteria	Mycobacterium_tuberculosis_CCDC5079_chromosome_NC_017523	IS256	10	5	5	1,00E+000
Firmicutes	Pelotomaculum_thermopropionicum_SI_chromosome_NC_009454	IS256	10	5	5	1,00E+000
Actinobacteria	Rhodococcus_jostii_RHA1_chromosome_NC_008268	IS256	6	3	3	1,00E+000
Proteobacteria	Sinorhizobium_meliloti_1021_NC_003047	IS256	12	6	6	1,00E+000
Proteobacteria	Syntrophus_aciditrophicus_SB_chromosome_NC_007759	IS256	10	5	5	1,00E+000
Proteobacteria	Acidiphilium_cryptum_JF-5_chromosome_NC_009484	IS256	7	4	3	1,00E+000
Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_I_NC_007651	IS256	15	7	8	1,00E+000
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_chromosome_1_NC_009256	IS256	9	5	4	1,00E+000
Actinobacteria	Corynebacterium_efficiens_YS-314_chromosome_NC_004369	IS256	15	7	8	1,00E+000
Proteobacteria	Desulfurivibrio_alkaliphilus_AHT2_chromosome_NC_014216	IS256	9	5	4	1,00E+000
Actinobacteria	Eggerthella_lenta_DSM_2243_chromosome_NC_013204	IS256	15	8	7	1,00E+000
Firmicutes	Enterococcus_faecalis_62_chromosome_NC_017312	IS256	9	4	5	1,00E+000
Proteobacteria	Escherichia_coli_ETEC_H10407_NC_017633	IS256	7	4	3	1,00E+000
Proteobacteria	Gallibacterium_anatis_UMN179_chromosome_NC_015460	IS256	9	4	5	1,00E+000
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	IS256	15	8	7	1,00E+000
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	IS256	9	5	4	1,00E+000
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS256	7	3	4	1,00E+000
Proteobacteria	Hippea_maritima_DSM_10411_chromosome_NC_015318	IS256	9	5	4	1,00E+000
Thermotogae	Kosmotoga_olearia_TBF_19.5.1_NC_012785	IS256	7	4	3	1,00E+000
Actinobacteria	Kytococcus_sedentarius_DSM_20547_chromosome_NC_013169	IS256	15	8	7	1,00E+000
Firmicutes	Lactobacillus_crispatus_ST1_NC_014106	IS256	9	5	4	1,00E+000
Firmicutes	Lactobacillus_delbrueckii_subsp._bulgaricus_ND02_chromosome_NC_014727	IS256	7	3	4	1,00E+000
Firmicutes	Lactobacillus_ruminis_ATCC_27782_chromosome_NC_015975	IS256	7	3	4	1,00E+000
Deinococcus-Thermus	Meiothermus_silvanus_DSM_9946_chromosome_NC_014212	IS256	15	8	7	1,00E+000
Actinobacteria	Mycobacterium_africanum_GM041182_chromosome_NC_015758	IS256	9	5	4	1,00E+000
Actinobacteria	Mycobacterium_bovis_AF2122/97_chromosome_NC_002945	IS256	9	5	4	1,00E+000
Actinobacteria	Mycobacterium_vanbaalenii_PYR-1_chromosome_NC_008726	IS256	13	7	6	1,00E+000
Tenericutes	Mycoplasma_gallisepticum_NC06_2006.080-5-2P_chromosome_NC_018411	IS256	13	7	6	1,00E+000
Proteobacteria	Nitrosococcus_halophilus_Nc4_chromosome_NC_013960	IS256	13	6	7	1,00E+000
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS256	7	4	3	1,00E+000
Proteobacteria	Salmonella_enterica_subsp._enterica_serovar_Paratyphi_C_strain_RKS4594_chromosome_NC_015312	IS256	7	3	4	1,00E+000
Proteobacteria	Sinorhizobium_fredii_USDA_257_chromosome_NC_018000	IS256	11	6	5	1,00E+000
Firmicutes	Streptococcus_thermophilus_CNRZ1066_chromosome_NC_006449	IS256	11	5	6	1,00E+000
Actinobacteria	Streptomyces_violaceusniger_Tu_4113_chromosome_NC_015957	IS256	11	6	5	1,00E+000
Firmicutes	Sulfobacillus_acidophilus_DSM_10332_chromosome_NC_016884	IS256	15	7	8	1,00E+000
Proteobacteria	Sulfurospirillum_barnesii_SES-3_chromosome_NC_018002	IS256	7	4	3	1,00E+000
Proteobacteria	Yersinia_pseudotuberculosis_IP_32953_chromosome_NC_006155	IS256	7	4	3	1,00E+000
Firmicutes	Staphylococcus_aureus_subsp._aureus_T0131_chromosome_NC_017347	IS256	21	11	10	1,00E+000
Actinobacteria	Corynebacterium_jeikeium_K411_chromosome_NC_007164	IS256	23	12	11	1,00E+000
Actinobacteria	Mycobacterium_avium_104_NC_008595	IS256	69	34	35	1,00E+000
Firmicutes	Lactococcus_garvieae_Lg2_NC_017490	IS3	11	0	11	9,77E-004
Proteobacteria	Acidithiobacillus_ferrivorans_SS3_chromosome_NC_015942	IS3	9	9	0	3,91E-003
Proteobacteria	Actinobacillus_pleuropneumoniae_serovar_7_str._AP76_NC_010939	IS3	12	1	11	6,35E-003
Synergistetes	Thermovirga_lienii_DSM_17291_chromosome_NC_016148	IS3	18	3	15	7,54E-003
Firmicutes	Streptococcus_pyogenes_MGAS2096_chromosome_NC_008023	IS3	8	0	8	7,81E-003
Firmicutes	Acidaminococcus_fermentans_DSM_20731_chromosome_NC_013740	IS3	7	0	7	1,56E-002
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS3	37	11	26	2,01E-002

Actinobacteria	Mycobacterium_tuberculosis_RGTB327_chromosome_NC_017026	IS3	16	3	13	2,13E-002
Firmicutes	Clostridium_cellulovorans_743B_chromosome_NC_014393	IS3	6	0	6	3,13E-002
Proteobacteria	Escherichia_coli_NA114_chromosome_NC_017644	IS3	6	6	0	3,13E-002
Proteobacteria	Pseudomonas_putida_ND6_chromosome_NC_017986	IS3	6	6	0	3,13E-002
Proteobacteria	Shewanella_sediminis_HAW-EB3_chromosome_NC_009831	IS3	6	0	6	3,13E-002
Firmicutes	Syntrophomonas_wolfei_subsp._wolfei_str._Goettingen_chromosome_NC_008346	IS3	6	6	0	3,13E-002
Firmicutes	Ammonifex_degensii_KC4_chromosome_NC_013385	IS3	15	3	12	3,52E-002
Actinobacteria	Corynebacterium_diphtheriae_BH8_chromosome_NC_016800	IS3	15	12	3	3,52E-002
Proteobacteria	Burkholderia_mallei_SAVP1_chromosome_II_NC_008784	IS3	25	7	18	4,33E-002
Proteobacteria	Burkholderia_pseudomallei_1026b_chromosome_2_NC_017832	IS3	14	11	3	5,74E-002
Firmicutes	Streptococcus_macedonicus_ACA-DC_198_NC_016749	IS3	14	11	3	5,74E-002
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS3	14	11	3	5,74E-002
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS3	24	17	7	6,39E-002
Proteobacteria	Legionella_pneumophila_str._Lens_NC_006369	IS3	8	7	1	7,03E-002
Firmicutes	Clostridium_lentocellum_DSM_5427_chromosome_NC_015275	IS3	13	3	10	9,23E-002
Actinobacteria	Gordonia_bronchialis_DSM_43247_chromosome_NC_013441	IS3	18	13	5	9,63E-002
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS3	10	8	2	1,09E-001
Proteobacteria	Rahnella_aquatilis_CIP_78.65_=_ATCC_33071_chromosome_NC_016818	IS3	10	8	2	1,09E-001
Actinobacteria	Mycobacterium_canettii_CIPT_140010059_NC_015848	IS3	15	4	11	1,18E-001
Spirochaetes	Spirochaeta_thermophila_DSM_6578_chromosome_NC_017583	IS3	15	11	4	1,18E-001
Firmicutes	Kyrpidia_tusciae_DSM_2912_chromosome_NC_014098	IS3	7	1	6	1,25E-001
Actinobacteria	Mycobacterium_intracellulare_MOTT-02_chromosome_NC_016947	IS3	7	1	6	1,25E-001
Firmicutes	Streptococcus_galloyticus_subsp._galloyticus_ATCC_BAA-2069_NC_015215	IS3	7	6	1	1,25E-001
Proteobacteria	Verminephrobacter_eiseniae_EF01-2_chromosome_NC_008786	IS3	7	6	1	1,25E-001
Proteobacteria	Nitrobacter_winogradskyi_Nb-255_chromosome_NC_007406	IS3	35	22	13	1,75E-001
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS3	14	10	4	1,80E-001
Proteobacteria	Burkholderia_gladioli_BSR3_chromosome_chromosome_1_NC_015381	IS3	14	4	10	1,80E-001
Bacteroidetes	Saprospira_grandis_str._Lewin_chromosome_NC_016940	IS3	14	10	4	1,80E-001
Proteobacteria	Methylobacterium_chloromethanicum_CM4_chromosome_NC_011757	IS3	9	2	7	1,80E-001
Firmicutes	Natranaerobius_thermophilus_JW/NM-WN-LF_chromosome_NC_010718	IS3	9	2	7	1,80E-001
Firmicutes	Selenomonas_ruminantium_subsp._lactilytica_TAM6421_NC_017068	IS3	9	7	2	1,80E-001
Proteobacteria	Shigella_flexneri_2002017_chromosome_NC_017328	IS3	96	55	41	1,84E-001
Proteobacteria	Xanthomonas_axonopodis_pv._citri_str._306_chromosome_NC_003919	IS3	28	10	18	1,85E-001
Firmicutes	Aerococcus_urinae_ACS-120-V-Col10a_chromosome_NC_015278	IS3	21	14	7	1,89E-001
Proteobacteria	Magnetococcus_sp._MC-1_chromosome_NC_008576	IS3	21	7	14	1,89E-001
Proteobacteria	Erwinia_sp._Ejp617_chromosome_NC_017445	IS3	23	15	8	2,10E-001
Actinobacteria	Propionibacterium_freudenreichii_subsp._shermanii_CIRM-BIA1_chromosome_NC_014215	IS3	23	15	8	2,10E-001
Firmicutes	Lactococcus_lactis_subsp._cremoris_A76_chromosome_NC_017492	IS3	52	31	21	2,12E-001
Proteobacteria	Alteromonas_sp._SN2_chromosome_NC_015554	IS3	6	5	1	2,19E-001
Firmicutes	Clostridium_difficile_BI1_NC_017179	IS3	6	5	1	2,19E-001
Proteobacteria	Geobacter_lovleyi_SZ_chromosome_NC_010814	IS3	6	1	5	2,19E-001
Bacteroidetes	Gramella_forsetii_KT0803_chromosome_NC_008571	IS3	6	5	1	2,19E-001
Actinobacteria	Kitasatospora_setae_KM-6054_NC_016109	IS3	6	5	1	2,19E-001
Actinobacteria	Mycobacterium_africanum_GM041182_chromosome_NC_015758	IS3	6	5	1	2,19E-001
Proteobacteria	Rhizobium_leguminosarum_bv._trifolii_WSM1325_chromosome_NC_012850	IS3	6	5	1	2,19E-001
Proteobacteria	Rhodopseudomonas_palustris_TIE-1_chromosome_NC_011004	IS3	6	1	5	2,19E-001
Chlorobi	Prosthecochloris_aestuarii_DSM_271_chromosome_NC_011059	IS3	11	3	8	2,27E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS3	11	3	8	2,27E-001
Proteobacteria	Aeromonas_salmonicida_subsp._salmonicida_A449_NC_009348	IS3	18	12	6	2,38E-001
Firmicutes	Paenibacillus_mucilaginosus_3016_chromosome_NC_016935	IS3	18	12	6	2,38E-001
Actinobacteria	Corynebacterium_efficiens_YS-314_chromosome_NC_004369	IS3	20	7	13	2,63E-001
Proteobacteria	Magnetospirillum_magneticum_AMB-1_chromosome_NC_007626	IS3	20	7	13	2,63E-001
Proteobacteria	Burkholderia_rhizoxinica_HK1_454_chromosome_NC_014722	IS3	13	4	9	2,67E-001
Firmicutes	Bacillus_pseudofirmus_OF4_chromosome_NC_013791	IS3	8	6	2	2,89E-001
Firmicutes	Bacillus_selenitireducens_MLS10_chromosome_NC_014219	IS3	8	6	2	2,89E-001
Firmicutes	Clostridium_botulinum_Ba4_str._657_chromosome_NC_012658	IS3	8	2	6	2,89E-001
Proteobacteria	Colwellia_psychrerythraea_34H_chromosome_NC_003910	IS3	8	6	2	2,89E-001
Proteobacteria	Desulfarculus_baarsii_DSM_2075_chromosome_NC_014365	IS3	8	2	6	2,89E-001
Firmicutes	Lactobacillus_sakei_subsp._sakei_23K_chromosome_NC_007576	IS3	8	2	6	2,89E-001
Firmicutes	Thermacetogenium_phaeum_DSM_12270_chromosome_NC_018870	IS3	8	2	6	2,89E-001
Firmicutes	Streptococcus_infantarius_subsp._infantarius_CJ18_chromosome_NC_016826	IS3	15	10	5	3,02E-001
Actinobacteria	Mycobacterium_gilvum_PYR-GCK_chromosome_NC_009338	IS3	24	15	9	3,07E-001
Actinobacteria	Mycobacterium_vanbaalenii_PYR-1_chromosome_NC_008726	IS3	17	11	6	3,32E-001
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS3	10	3	7	3,44E-001
Proteobacteria	Alteromonas_macleodii_str._'Black_Sea_11'_chromosome_NC_018692	IS3	10	7	3	3,44E-001
Actinobacteria	Bifidobacterium_longum_subsp._longum_JDM301_chromosome_NC_014169	IS3	10	7	3	3,44E-001
Actinobacteria	Corynebacterium_urealyticum_DSM_7109_chromosome_NC_010545	IS3	10	7	3	3,44E-001
Proteobacteria	Sinorhizobium_meliloti_1021_NC_003047	IS3	10	7	3	3,44E-001
Deinococcus-Thermus	Meiothermus_silvanus_DSM_9946_chromosome_NC_014212	IS3	58	33	25	3,58E-001
Chloroflexi	Dehalogenimonas_lykanthroporepellens_BL-DC-9_chromosome_NC_014314	IS3	12	8	4	3,88E-001
Proteobacteria	Escherichia_blatiae_DSM_4481_chromosome_NC_017910	IS3	12	4	8	3,88E-001
Proteobacteria	Pelobacter_carbinolicus_DSM_2380_chromosome_NC_007498	IS3	12	4	8	3,88E-001
Firmicutes	Streptococcus_dysgalactiae_subsp._equisimilis_ATCC_12394_chromosome_NC_017567	IS3	12	4	8	3,88E-001
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggansensis_5008_chromosome_NC_017765	IS3	12	4	8	3,88E-001
Proteobacteria	Bradyrhizobium_sp._BTAi1_chromosome_NC_009485	IS3	14	9	5	4,24E-001
Bacteroidetes	Chitinophaga_pinensis_DSM_2588_chromosome_NC_013132	IS3	14	5	9	4,24E-001
Proteobacteria	Pseudomonas_syringae_pv._syringae_B728a_chromosome_NC_007005	IS3	14	5	9	4,24E-001
Proteobacteria	Acinetobacter_sp._ADP1_chromosome_NC_005966	IS3	7	2	5	4,53E-001
Proteobacteria	Aeromonas_veronii_B565_chromosome_NC_015424	IS3	7	2	5	4,53E-001
Firmicutes	Alkaliphilus_oremlandii_OhILAs_chromosome_NC_009922	IS3	7	5	2	4,53E-001
Firmicutes	Anoxybacillus_flavithermus_WK1_chromosome_NC_011567	IS3	7	2	5	4,53E-001
Firmicutes	Bacillus_cytotoxicus_NVH_391-98_chromosome_NC_009674	IS3	7	2	5	4,53E-001
Chlorobi	Chlorobium_limicola_DSM_245_chromosome_NC_010803	IS3	7	5	2	4,53E-001
Proteobacteria	Comamonas_testosteroni_CNB-2_chromosome_NC_013446	IS3	7	5	2	4,53E-001

Proteobacteria	Cupriavidus_metallidurans_CH34_chromosome_NC_007973	IS3	7	5	2	4,53E-001
Firmicutes	Desulfotobacterium_hafniense_Y51_NC_007907	IS3	7	5	2	4,53E-001
Proteobacteria	Geobacter_sulfurreducens_KN400_chromosome_NC_017454	IS3	7	5	2	4,53E-001
Proteobacteria	Laribacter_hongkongensis_HLHK9_NC_012559	IS3	7	2	5	4,53E-001
Proteobacteria	Methylobacterium_radiotolerans_JCM_2831_chromosome_NC_010505	IS3	7	2	5	4,53E-001
Verrucomicrobia	Opitutus_terrae_PB90-1_chromosome_NC_010571	IS3	7	5	2	4,53E-001
Proteobacteria	Phenylobacterium_zucineum_HLK1_chromosome_NC_011144	IS3	7	2	5	4,53E-001
Proteobacteria	Photorhabdus_asymbiotica_subsp._asymbiotica_ATCC_43949_chromosome_NC_012962	IS3	7	5	2	4,53E-001
Proteobacteria	Pseudomonas_stutzeri_ATCC_17588 = LMG_11199_chromosome_NC_015740	IS3	7	5	2	4,53E-001
Proteobacteria	Shewanella_baltica_BA175_chromosome_NC_017571	IS3	7	2	5	4,53E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS3	16	6	10	4,54E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS3	16	10	6	4,54E-001
Proteobacteria	Candidatus_Accumulibacter_phosphatis_clade_IIA_str._UW-1_chromosome_NC_013194	IS3	18	7	11	4,81E-001
Proteobacteria	Desulfovibrio_aespoensis_Aspo-2_chromosome_NC_014844	IS3	18	11	7	4,81E-001
Proteobacteria	Psychrobacter_sp._PRwf-1_chromosome_NC_009524	IS3	18	11	7	4,81E-001
Firmicutes	Sulfobacillus_acidophilus_DSM_10332_chromosome_NC_016884	IS3	18	7	11	4,81E-001
Proteobacteria	Methylobacterium_extorquens_DM4_NC_012988	IS3	20	12	8	5,03E-001
Actinobacteria	Streptomyces_violaceusniger_Tu_4113_chromosome_NC_015957	IS3	20	8	12	5,03E-001
Proteobacteria	Xanthomonas_albilineans_GPE_PC73_chromosome_NC_013722	IS3	20	12	8	5,03E-001
Firmicutes	Bacillus_licheniformis_ATCC_14580_chromosome_NC_006270	IS3	9	3	6	5,08E-001
Firmicutes	Bacillus_subtilis_subsp._spizizenii_str._W23_chromosome_NC_014479	IS3	9	6	3	5,08E-001
Proteobacteria	Geobacter_bemidjensis_Bem_chromosome_NC_011146	IS3	9	6	3	5,08E-001
Proteobacteria	Myxococcus_xanthus_DK_1622_chromosome_NC_008095	IS3	9	3	6	5,08E-001
Proteobacteria	Psychrobacter_cryohalolentis_K5_chromosome_NC_007969	IS3	9	6	3	5,08E-001
Firmicutes	Thermosediminibacter_oceani_DSM_16646_chromosome_NC_014377	IS3	9	3	6	5,08E-001
Proteobacteria	Shigella_dysenteriae_Sd197_NC_007606	IS3	85	46	39	5,15E-001
Proteobacteria	Enterobacter_cloacae_subsp._cloacae_ATCC_13047_chromosome_NC_014121	IS3	39	17	22	5,22E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS3	24	14	10	5,41E-001
Actinobacteria	Amycolatopsis_mediterranei_S699_chromosome_uid158689_NC_017186	IS3	11	7	4	5,49E-001
Proteobacteria	Psychrobacter_arcticus_273-4_chromosome_NC_007204	IS3	11	4	7	5,49E-001
Planctomycetes	Rhodopirellula_baltica_SH_1_chromosome_NC_005027	IS3	11	7	4	5,49E-001
Proteobacteria	Nitrospira_multiformis_ATCC_25196_chromosome_NC_007614	IS3	26	15	11	5,57E-001
Thermotogae	Thermosipho_africanus_TCF52B_NC_011653	IS3	26	15	11	5,57E-001
Firmicutes	Streptococcus_equi_subsp._equi_4047_NC_012471	IS3	47	21	26	5,60E-001
Proteobacteria	Acidovorax_citrulli_AAC00-1_chromosome_NC_008752	IS3	13	5	8	5,81E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS3	53	24	29	5,83E-001
Firmicutes	Lactobacillus_fermentum_CECT_5716_chromosome_NC_017465	IS3	15	6	9	6,07E-001
Acidobacteria	Candidatus_Solibacter_usitatus_Ellin6076_chromosome_NC_008536	IS3	34	19	15	6,08E-001
Actinobacteria	Frankia_symbiont_of_Datisca_glomerata_chromosome_NC_015656	IS3	63	29	34	6,15E-001
Proteobacteria	Shigella_sonnei_Ss046_chromosome_NC_007384	IS3	104	55	49	6,24E-001
Aquificae	Desulfurobacterium_thermolithotrophum_DSM_11699_chromosome_NC_015185	IS3	17	10	7	6,29E-001
Tenericutes	Mycoplasma_mycooides_subsp._capri_LC_str._95010_NC_015431	IS3	17	10	7	6,29E-001
Proteobacteria	Polymorphum_gilvum_SL003B-26A1_chromosome_NC_015259	IS3	17	10	7	6,29E-001
Actinobacteria	Acidimicrobium_ferroxidans_DSM_10331_chromosome_NC_013124	IS3	19	8	11	6,48E-001
Firmicutes	Streptococcus_thermophilus_MN-ZLW-002_chromosome_NC_017927	IS3	19	11	8	6,48E-001
Proteobacteria	Bordetella_petrij_DSM_12804_chromosome_NC_010170	IS3	44	20	24	6,52E-001
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_PXO99A_chromosome_NC_010717	IS3	50	27	23	6,72E-001
Proteobacteria	Acidovorax_ebreus_TPSY_chromosome_NC_011992	IS3	6	4	2	6,88E-001
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	IS3	6	2	4	6,88E-001
Firmicutes	Brevibacillus_brevis_NBRC_100599_NC_012491	IS3	6	2	4	6,88E-001
Proteobacteria	Burkholderia_multivorans_ATCC_17616_uid58697_chromosome_3_NC_010087	IS3	6	4	2	6,88E-001
Firmicutes	Caldicellulosiruptor_kristjanssonii_177R1B_chromosome_NC_014721	IS3	6	2	4	6,88E-001
Firmicutes	Caldicellulosiruptor_lactoaceticus_6A_chromosome_NC_015949	IS3	6	2	4	6,88E-001
Proteobacteria	Desulfovibrio_desulfuricans_subsp._desulfuricans_str._ATCC_27774_chromosome_NC_011883	IS3	6	4	2	6,88E-001
Proteobacteria	Enterobacter_aerogenes_KCTC_2190_chromosome_NC_015663	IS3	6	2	4	6,88E-001
Bacteroidetes	Flavobacterium_columnare_ATCC_49512_chromosome_NC_016510	IS3	6	4	2	6,88E-001
Actinobacteria	Gordonia_polyisoprenivorans_VH2_chromosome_NC_016906	IS3	6	4	2	6,88E-001
Firmicutes	Heliobacterium_modesticaldum_lce1_chromosome_NC_010337	IS3	6	4	2	6,88E-001
Thermotogae	Kosmotoga_olearia_TBF_19.5.1_NC_012785	IS3	6	2	4	6,88E-001
Firmicutes	Lactobacillus_helveticus_DPC_4571_NC_010080	IS3	6	2	4	6,88E-001
Firmicutes	Lysinibacillus_sphaericus_C3-41_chromosome_NC_010382	IS3	6	2	4	6,88E-001
Proteobacteria	Mesorhizobium_lotii_MAFF303099_chromosome_NC_002678	IS3	6	4	2	6,88E-001
Actinobacteria	Mobiluncus_curtisii_ATCC_43063_chromosome_NC_014246	IS3	6	2	4	6,88E-001
Bacteroidetes	Ornithobacterium_rhinotracheale_DSM_15997_chromosome_NC_018016	IS3	6	2	4	6,88E-001
Proteobacteria	Polaromonas_sp._JS666_chromosome_NC_007948	IS3	6	2	4	6,88E-001
Proteobacteria	Pseudovibrio_sp._FO-BEG1_chromosome_NC_016642	IS3	6	4	2	6,88E-001
Actinobacteria	Rhodococcus_jostii_RHA1_chromosome_NC_008268	IS3	6	4	2	6,88E-001
Actinobacteria	Segniliparus_rotundus_DSM_44985_chromosome_NC_014168	IS3	6	2	4	6,88E-001
Proteobacteria	Shewanella_sp._ANA-3_chromosome_chromosome_1_NC_008577	IS3	6	2	4	6,88E-001
Actinobacteria	Slackia_heliotrinireducens_DSM_20476_chromosome_NC_013165	IS3	6	2	4	6,88E-001
Firmicutes	Streptococcus_pneumoniae_Hungary19A-6_NC_010380	IS3	6	2	4	6,88E-001
Firmicutes	Thermodesulfobium_narugense_DSM_14796_chromosome_NC_015499	IS3	6	2	4	6,88E-001
Proteobacteria	Vibrio_anguillarum_775_chromosome_chromosome_I_NC_015633	IS3	6	2	4	6,88E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS3	6	4	2	6,88E-001
Proteobacteria	Acidiphilium_multivorans_AIU301_NC_015186	IS3	8	5	3	7,27E-001
Actinobacteria	Arthrobacter_aurescens_TC1_NC_008711	IS3	8	3	5	7,27E-001
Proteobacteria	Citrobacter_rodentium_ICC168_NC_013716	IS3	8	3	5	7,27E-001
Chloroflexi	Dehalococcoides_sp._BAV1_chromosome_NC_009455	IS3	8	5	3	7,27E-001
Firmicutes	Desulfotomaculum_reducens_MI-1_chromosome_NC_009253	IS3	8	5	3	7,27E-001
Proteobacteria	Desulfovibrio_vulgaris_RCH1_chromosome_NC_017310	IS3	8	5	3	7,27E-001
Firmicutes	Geobacillus_thermodenitrificans_NG80-2_chromosome_NC_009328	IS3	8	5	3	7,27E-001
Firmicutes	Geobacillus_thermoglucosidasius_C56-YS93_chromosome_NC_015660	IS3	8	5	3	7,27E-001
Firmicutes	Lactobacillus_acidophilus_30SC_chromosome_NC_015214	IS3	8	5	3	7,27E-001
Firmicutes	Lactobacillus_rhamnosus_GG_NC_013198	IS3	8	3	5	7,27E-001

Proteobacteria	Leptothrix_cholodnii_SP-6_chromosome_NC_010524	IS3	8	5	3	7,27E-001
Firmicutes	Mahella_australiensis_50-1_BON_chromosome_NC_015520	IS3	8	3	5	7,27E-001
Proteobacteria	Methylococcus_capsulatus_str_Bath_chromosome_NC_002977	IS3	8	5	3	7,27E-001
Proteobacteria	Serratia_proteamaculans_568_chromosome_NC_009832	IS3	8	5	3	7,27E-001
Actinobacteria	Arcanobacterium_haemolyticum_DSM_20595_chromosome_NC_014218	IS3	10	6	4	7,54E-001
Proteobacteria	Cellvibrio_japonicus_Ueda107_chromosome_NC_010995	IS3	10	6	4	7,54E-001
Firmicutes	Clostridium_kluyveri_DSM_555_chromosome_NC_009706	IS3	10	6	4	7,54E-001
Firmicutes	Clostridium_tetani_E88_chromosome_NC_004557	IS3	10	4	6	7,54E-001
Actinobacteria	Corynebacterium_variabile_DSM_44702_chromosome_NC_015859	IS3	10	6	4	7,54E-001
Proteobacteria	Dickeya_dadantii_3937_chromosome_NC_014500	IS3	10	4	6	7,54E-001
Proteobacteria	Edwardsiella_ictaluri_93-146_chromosome_NC_012779	IS3	10	6	4	7,54E-001
Proteobacteria	Erythrobacter_litoralis_HTCC2594_chromosome_NC_007722	IS3	10	6	4	7,54E-001
Proteobacteria	Herminiimonas_arsenicoydans_chromosome_NC_009138	IS3	10	6	4	7,54E-001
Proteobacteria	Marinomonas_sp_MWYL1_chromosome_NC_009654	IS3	10	6	4	7,54E-001
Actinobacteria	Mycobacterium_smegmatis_str_MC2_155_chromosome_NC_018289	IS3	10	6	4	7,54E-001
Tenericutes	Mycoplasma_bovis_HB0801_chromosome_NC_018077	IS3	10	4	6	7,54E-001
Proteobacteria	Rhodobacter_sphaeroides_ATCC_17025_chromosome_NC_009428	IS3	10	4	6	7,54E-001
Proteobacteria	Shewanella_frigidimarina_NCIMB_400_chromosome_NC_008345	IS3	10	6	4	7,54E-001
Firmicutes	Streptococcus_mutans_UA159_chromosome_NC_004350	IS3	10	4	6	7,54E-001
Proteobacteria	Yersinia_pestis_A1122_chromosome_NC_017168	IS3	10	4	6	7,54E-001
Firmicutes	Acidaminococcus_intestini_RyC-MR95_chromosome_NC_016077	IS3	12	5	7	7,74E-001
Firmicutes	Bacillus_cereus_NC7401_NC_016771	IS3	12	5	7	7,74E-001
Proteobacteria	Burkholderia_cenocepacia_MC0-3_chromosome_chromosome_2_NC_010515	IS3	12	5	7	7,74E-001
Proteobacteria	Gluconobacter_oxydans_621H_chromosome_NC_006677	IS3	12	5	7	7,74E-001
Firmicutes	Halobacillus_halophilus_DSM_2266_NC_017668	IS3	12	5	7	7,74E-001
Firmicutes	Lactobacillus_casei_ATCC_334_NC_008526	IS3	12	7	5	7,74E-001
Firmicutes	Lactobacillus_ruminis_ATCC_27782_chromosome_NC_015975	IS3	12	7	5	7,74E-001
Proteobacteria	Thiomonas_intermedia_K12_chromosome_NC_014153	IS3	12	5	7	7,74E-001
Firmicutes	Clostridium_cellulolyticum_H10_chromosome_NC_011898	IS3	53	25	28	7,84E-001
Proteobacteria	Azotobacter_vinelandii_DJ_chromosome_NC_012560	IS3	14	8	6	7,91E-001
Bacteroidetes	Zunongwangia_profunda_SM-A87_chromosome_NC_014041	IS3	14	6	8	7,91E-001
Proteobacteria	Caulobacter_sp_K31_chromosome_NC_010338	IS3	16	7	9	8,04E-001
Firmicutes	Dehalobacter_sp_DCA_chromosome_NC_018866	IS3	16	7	9	8,04E-001
Proteobacteria	Erwinia_pyrifoliae_DSM_12163_NC_017390	IS3	16	7	9	8,04E-001
Actinobacteria	Mycobacterium_marinum_M_chromosome_NC_010612	IS3	16	7	9	8,04E-001
Actinobacteria	Arthrobacter_arilaitensis_Re117_chromosome_NC_014550	IS3	18	10	8	8,15E-001
Actinobacteria	Mycobacterium_avium_104_NC_008595	IS3	18	8	10	8,15E-001
Firmicutes	Lactobacillus_sanfranciscensis_TMW_1.1304_chromosome_NC_015978	IS3	20	11	9	8,24E-001
Actinobacteria	Corynebacterium_aurimucosum_ATCC_700975_NC_012590	IS3	26	12	14	8,45E-001
Actinobacteria	Corynebacterium_jeikeium_K411_chromosome_NC_007164	IS3	26	14	12	8,45E-001
Proteobacteria	Nitrosomonas_eutropha_C91_chromosome_NC_008344	IS3	26	12	14	8,45E-001
Proteobacteria	Nitrosomonas_europaea_ATCC_19718_chromosome_NC_004757	IS3	36	17	19	8,68E-001
Actinobacteria	Streptomyces_bingchenggensis_BCW-1_chromosome_NC_016582	IS3	40	19	21	8,75E-001
Proteobacteria	Shigella_boydii_CDC_3083-94_chromosome_NC_010658	IS3	68	33	35	9,04E-001
Actinobacteria	Renibacterium_salmoninarum_ATCC_33209_chromosome_NC_010168	IS3	80	41	39	9,11E-001
Proteobacteria	Alicyclophilus_denitrificans_BC_chromosome_NC_014910	IS3	16	8	8	1,00E+000
Bacteroidetes	Alistipes_finegoldii_DSM_17242_chromosome_NC_018011	IS3	18	9	9	1,00E+000
Firmicutes	Bacillus_cellulosilyticus_DSM_2522_chromosome_NC_014829	IS3	6	3	3	1,00E+000
Actinobacteria	Bifidobacterium_bifidum_PRL2010_chromosome_NC_014638	IS3	6	3	3	1,00E+000
Proteobacteria	Bradyrhizobium_sp_OR_278_chromosome_NC_009445	IS3	6	3	3	1,00E+000
Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_I_NC_007651	IS3	6	3	3	1,00E+000
Chlamydiae	Candidatus_Protochlamydia_amoebophila_UWE25_chromosome_NC_005861	IS3	6	3	3	1,00E+000
Firmicutes	Clostridium_saccharolyticum_WM1_chromosome_NC_014376	IS3	6	3	3	1,00E+000
Proteobacteria	Delftia_acidovorans_SPH-1_chromosome_NC_010002	IS3	10	5	5	1,00E+000
Proteobacteria	Desulfomicrobium_baculatum_DSM_4028_NC_013173	IS3	10	5	5	1,00E+000
Chrysiogenetes	Desulfurispirillum_indicum_S5_chromosome_NC_014836	IS3	8	4	4	1,00E+000
Proteobacteria	Dinoroseobacter_shibae_DFL_12_chromosome_NC_009952	IS3	10	5	5	1,00E+000
Bacteroidetes	Dyadobacter_fermentans_DSM_18053_chromosome_NC_013037	IS3	10	5	5	1,00E+000
Proteobacteria	Enterobacter_sp_638_NC_009436	IS3	6	3	3	1,00E+000
Firmicutes	Enterococcus_faecalis_62_chromosome_NC_017312	IS3	6	3	3	1,00E+000
Proteobacteria	Gallibacterium_anatis_UMN179_chromosome_NC_015460	IS3	16	8	8	1,00E+000
Proteobacteria	Klebsiella_pneumoniae_KCTC_2242_chromosome_NC_017540	IS3	14	7	7	1,00E+000
Proteobacteria	Marinobacter_aquaeolei_VT8_NC_008740	IS3	6	3	3	1,00E+000
Firmicutes	Moorella_thermoacetica_ATCC_39073_chromosome_NC_007644	IS3	6	3	3	1,00E+000
Actinobacteria	Mycobacterium_smegmatis_str_MC2_155_chromosome_NC_008596	IS3	6	3	3	1,00E+000
Tenericutes	Onion_yellow_phytoplasma_OY-M_NC_005303	IS3	8	4	4	1,00E+000
Firmicutes	Paenibacillus_polymyxa_E681_chromosome_NC_014483	IS3	12	6	6	1,00E+000
Proteobacteria	Pseudomonas_fluorescens_F113_chromosome_NC_016830	IS3	6	3	3	1,00E+000
Proteobacteria	Salmonella_enterica_subsp_arizonae_serovar_62:z4_NC_010067	IS3	10	5	5	1,00E+000
Proteobacteria	Shewanella_woodyi_ATCC_51908_chromosome_NC_010506	IS3	6	3	3	1,00E+000
Proteobacteria	Sorangium_cellulosum_'So_ce_56'_chromosome_NC_010162	IS3	8	4	4	1,00E+000
Spirochaetes	Spirochaeta_smaragdinae_DSM_11293_chromosome_NC_014364	IS3	6	3	3	1,00E+000
Firmicutes	Acetobacterium_woodii_DSM_1030_chromosome_NC_016894	IS3	9	5	4	1,00E+000
Proteobacteria	Achromobacter_xylosoxidans_A8_chromosome_NC_014640	IS3	9	4	5	1,00E+000
Proteobacteria	Aggregatibacter_actinomycetemcomitans_D7S-1_chromosome_NC_017846	IS3	13	6	7	1,00E+000
Firmicutes	Amphibacillus_xylanus_NBRC_15112_NC_018704	IS3	9	4	5	1,00E+000
Actinobacteria	Arthrobacter_phenanthrenivorans_Sphe3_chromosome_NC_015145	IS3	17	8	9	1,00E+000
Firmicutes	Bacillus_thuringiensis_serovar_konkukian_str_97-27_chromosome_NC_005957	IS3	7	3	4	1,00E+000
Proteobacteria	Burkholderia_glumae_BGR1_chromosome_chromosome_1_NC_012724	IS3	11	6	5	1,00E+000
Proteobacteria	Burkholderia_glumae_BGR1_chromosome_chromosome_2_NC_012721	IS3	11	6	5	1,00E+000
Proteobacteria	Burkholderia_multivorans_ATCC_17616_uid58697_chromosome_1_NC_010084	IS3	9	5	4	1,00E+000
Proteobacteria	Burkholderia_phytofirmans_PsJN_chromosome_chromosome_1_NC_010681	IS3	7	4	3	1,00E+000
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_3_NC_009254	IS3	7	3	4	1,00E+000
Proteobacteria	Burkholderia_xenovorans_LB400_chromosome_1_NC_007951	IS3	19	10	9	1,00E+000

Nitrospirae	Candidatus_Nitrospira_defluvii_NC_014355	IS3	11	5	6	1,00E+000
Tenericutes	Candidatus_Phytoplasma_australiense_NC_010544	IS3	9	5	4	1,00E+000
Proteobacteria	Caulobacter_crescentus_CB15_chromosome_NC_002696	IS3	7	3	4	1,00E+000
Firmicutes	Clostridium_sp._SY8519_NC_015737	IS3	9	4	5	1,00E+000
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS3	17	9	8	1,00E+000
Actinobacteria	Corynebacterium_resistens_DSM_45100_chromosome_NC_015673	IS3	13	6	7	1,00E+000
Deferribacteres	Denitrovibrio_acetiphilus_DSM_12809_chromosome_NC_013943	IS3	17	8	9	1,00E+000
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS3	15	8	7	1,00E+000
Firmicutes	Desulfotomaculum_ruminis_DSM_2154_chromosome_NC_015589	IS3	17	9	8	1,00E+000
Proteobacteria	Desulfovibrio_alaskensis_G20_chromosome_NC_007519	IS3	19	9	10	1,00E+000
Proteobacteria	Dickeya_zeae_Ech1591_chromosome_NC_012912	IS3	7	3	4	1,00E+000
Firmicutes	Erysipelothrix_rhusiopathiae_str._Fujisawa_NC_015601	IS3	9	5	4	1,00E+000
Proteobacteria	Geobacter_sulfurreducens_PCA_chromosome_NC_002939	IS3	11	5	6	1,00E+000
Proteobacteria	Halorhodospira_halophila_SL1_chromosome_NC_008789	IS3	7	4	3	1,00E+000
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	IS3	7	4	3	1,00E+000
Bacteroidetes	Leadbetterella_byssophila_DSM_17132_chromosome_NC_014655	IS3	13	7	6	1,00E+000
Firmicutes	Megasphaera_elsdenii_DSM_20460_NC_015873	IS3	11	5	6	1,00E+000
Proteobacteria	Methylobacterium_sp._4-46_chromosome_NC_010511	IS3	13	6	7	1,00E+000
Proteobacteria	Methylomonas_methanica_MC09_chromosome_NC_015572	IS3	19	9	10	1,00E+000
Actinobacteria	Micromonospora_aurantiaca_ATCC_27029_chromosome_NC_014391	IS3	7	3	4	1,00E+000
Actinobacteria	Mycobacterium_sp._JLS_chromosome_NC_009077	IS3	19	9	10	1,00E+000
Tenericutes	Mycoplasma_hyorhinis_HUB-1_chromosome_NC_014448	IS3	19	9	10	1,00E+000
Firmicutes	Pelotomaculum_thermopropionicum_SI_chromosome_NC_009454	IS3	9	5	4	1,00E+000
Proteobacteria	Phaeobacter_gallaeciensis_2.10_chromosome_NC_018286	IS3	7	3	4	1,00E+000
Proteobacteria	Providencia_stuartii_MRSN_2154_chromosome_NC_017731	IS3	7	3	4	1,00E+000
Proteobacteria	Pseudomonas_aeruginosa_DK2_chromosome_NC_018080	IS3	11	6	5	1,00E+000
Proteobacteria	Ralstonia_solanacearum_CFBP2957_chromosome_NC_014307	IS3	7	4	3	1,00E+000
Proteobacteria	Rhodomicrobium_vannielii_ATCC_17100_chromosome_NC_014664	IS3	17	8	9	1,00E+000
Proteobacteria	Roseobacter_denitrificans_OCh_114_chromosome_NC_008209	IS3	11	5	6	1,00E+000
Actinobacteria	Saccharopolyspora_erythraea_NRRL_2338_chromosome_NC_009142	IS3	13	6	7	1,00E+000
Proteobacteria	Shewanella_denitrificans_OS217_NC_007954	IS3	9	4	5	1,00E+000
Proteobacteria	Sinorhizobium_fredii_USDA_257_chromosome_NC_018000	IS3	7	3	4	1,00E+000
Firmicutes	Staphylococcus_aureus_subsp._aureus_ED133_chromosome_NC_017337	IS3	7	3	4	1,00E+000
Proteobacteria	Stenotrophomonas_maltophilia_D457_NC_017671	IS3	7	3	4	1,00E+000
Actinobacteria	Streptomyces_scabiei_87.22_chromosome_NC_013929	IS3	13	7	6	1,00E+000
Aquificae	Sulfurihydrogenibium_azorense_Az-Fu1_chromosome_NC_012438	IS3	13	7	6	1,00E+000
Proteobacteria	Thioalkalivibrio_sp._K90mix_chromosome_NC_013889	IS3	7	4	3	1,00E+000
Actinobacteria	Tsukamurella_paurometabola_DSM_20162_chromosome_NC_014158	IS3	9	5	4	1,00E+000
Spirochaetes	Turneriella_parva_DSM_21527_chromosome_NC_018020	IS3	19	9	10	1,00E+000
Proteobacteria	Variovorax_paradoxus_EPS_chromosome_NC_014931	IS3	7	4	3	1,00E+000
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	IS3	13	6	7	1,00E+000
Proteobacteria	Wolinella_succinogenes_DSM_1740_chromosome_NC_005090	IS3	15	7	8	1,00E+000
Proteobacteria	Yersinia_enterocolitica_subsp._enterocolitica_8081_chromosome_NC_008800	IS3	13	6	7	1,00E+000
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS3	21	10	11	1,00E+000
Firmicutes	Halanaerobium_hydrogeniformans_chromosome_NC_014654	IS3	21	11	10	1,00E+000
Actinobacteria	Microlunatus_phosphovorus_NM-1_NC_015635	IS3	21	11	10	1,00E+000
Proteobacteria	Shewanella_oneidensis_MR-1_chromosome_NC_004347	IS3	37	19	18	1,00E+000
Proteobacteria	Rickettsia_peacockii_str._Rustic_NC_012730	IS3	29	15	14	1,00E+000
Proteobacteria	Xanthomonas_campestris_pv._campestris_str._8004_chromosome_NC_007086	IS3	27	13	14	1,00E+000
Firmicutes	Streptococcus_mitis_B6_NC_013853	IS30	45	3	42	8,65E-010
Firmicutes	Lactobacillus_kefiranofaciens_ZW3_chromosome_NC_015602	IS30	9	9	0	3,91E-003
Proteobacteria	Vibrio_vulnificus_CMCP6_chromosome_I_NC_004459	IS30	7	0	7	1,56E-002
Firmicutes	Staphylococcus_aureus_subsp._aureus_MRSA252_chromosome_NC_002952	IS30	6	0	6	3,13E-002
Proteobacteria	Neisseria_meningitidis_M04-240196_chromosome_NC_017515	IS30	12	2	10	3,86E-002
Firmicutes	Lactobacillus_acidophilus_30SC_chromosome_NC_015214	IS30	9	8	1	3,91E-002
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	IS30	29	20	9	6,14E-002
Actinobacteria	Mycobacterium_rhodesiae_NBB3_chromosome_NC_016604	IS30	8	7	1	7,03E-002
Firmicutes	Selenomonas_sputigena_ATCC_35185_chromosome_NC_015437	IS30	8	1	7	7,03E-002
Firmicutes	Lactobacillus_buchneri_NRRL_B-30929_chromosome_NC_015428	IS30	13	10	3	9,23E-002
Actinobacteria	Saccharopolyspora_erythraea_NRRL_2338_chromosome_NC_009142	IS30	12	3	9	1,46E-001
Firmicutes	Streptococcus_pneumoniae_AP200_chromosome_NC_014494	IS30	9	7	2	1,80E-001
Firmicutes	Clostridium_cellulovorans_743B_chromosome_NC_014393	IS30	6	5	1	2,19E-001
Tenericutes	Mycoplasma_penetrans_HF-2_NC_004432	IS30	6	1	5	2,19E-001
Proteobacteria	Psychromonas_ingrahamii_37_chromosome_NC_008709	IS30	6	1	5	2,19E-001
Firmicutes	Halanaerobium_hydrogeniformans_chromosome_NC_014654	IS30	11	8	3	2,27E-001
Firmicutes	Streptococcus_infantarius_subsp._infantarius_CJ18_chromosome_NC_016826	IS30	11	3	8	2,27E-001
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS30	27	17	10	2,48E-001
Actinobacteria	Arthrobacter_phenanthrenivorans_Sphe3_chromosome_NC_015145	IS30	8	2	6	2,89E-001
Actinobacteria	Corynebacterium_diphtheriae_31A_chromosome_NC_016799	IS30	8	6	2	2,89E-001
Actinobacteria	Tsukamurella_paurometabola_DSM_20162_chromosome_NC_014158	IS30	10	7	3	3,44E-001
Proteobacteria	Francisella_philomiragia_subsp._philomiragia_ATCC_25017_chromosome_NC_010336	IS30	46	20	26	4,61E-001
Firmicutes	Lactobacillus_fermentum_CECT_5716_chromosome_NC_017465	IS30	9	3	6	5,08E-001
Firmicutes	Streptococcus_salivarius_57.I_chromosome_NC_017594	IS30	9	6	3	5,08E-001
Firmicutes	Thermoanaerobacter_brockii_subsp._finnii_Ako-1_chromosome_NC_014964	IS30	9	6	3	5,08E-001
Firmicutes	Thermoanaerobacter_pseudethanolicus_ATCC_33223_chromosome_NC_010321	IS30	9	6	3	5,08E-001
Actinobacteria	Leifsonia_xyli_subsp._xyli_str._CTCB07_chromosome_NC_006087	IS30	15	6	9	6,07E-001
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_3_NC_009254	IS30	6	2	4	6,88E-001
Actinobacteria	Corynebacterium_jeikeium_K411_chromosome_NC_007164	IS30	6	4	2	6,88E-001
Firmicutes	Lactobacillus_plantarum_subsp._plantarum_ST-III_chromosome_NC_014554	IS30	6	4	2	6,88E-001
Proteobacteria	Marinomonas_mediterranea_MMB-1_chromosome_NC_015276	IS30	6	4	2	6,88E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS30	6	4	2	6,88E-001
Acidobacteria	Terriglobus_saanensis_SP1PR4_chromosome_NC_014963	IS30	6	2	4	6,88E-001
Proteobacteria	Shewanella_baltica_OS117_chromosome_NC_017579	IS30	25	14	11	6,90E-001
Firmicutes	Lactobacillus_casei_ATCC_334_NC_008526	IS30	27	12	15	7,01E-001

Actinobacteria	Clavibacter_michiganensis_subsp._sepedonicus_chromosome_NC_010407	IS30	8	5	3	7,27E-001
Firmicutes	Lactococcus_lactis_subsp._lactis_CV56_chromosome_NC_017486	IS30	8	3	5	7,27E-001
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS30	8	3	5	7,27E-001
Firmicutes	Streptococcus_equi_subsp._zooepidemicus_MGCS10565_NC_011134	IS30	8	5	3	7,27E-001
Firmicutes	Lactobacillus_helveticus_H10_chromosome_NC_017467	IS30	10	6	4	7,54E-001
Bacteroidetes	Ornithobacterium_rhinotracheale_DSM_15997_chromosome_NC_018016	IS30	10	4	6	7,54E-001
Firmicutes	Caldicellulosiruptor_kristjanssonii_177R1B_chromosome_NC_014721	IS30	12	5	7	7,74E-001
Firmicutes	Clostridium_perfringens_SM101_chromosome_NC_008262	IS30	14	8	6	7,91E-001
Firmicutes	Lactobacillus_brevis_ATCC_367_NC_008497	IS30	20	11	9	8,24E-001
Proteobacteria	Allivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS30	6	3	3	1,00E+000
Actinobacteria	Bifidobacterium_longum_DJO10A_chromosome_NC_010816	IS30	6	3	3	1,00E+000
Actinobacteria	Blastococcus_saxobsidens_DD2_NC_016943	IS30	6	3	3	1,00E+000
Firmicutes	Filifactor_alocis_ATCC_35896_chromosome_NC_016630	IS30	10	5	5	1,00E+000
Firmicutes	Lactobacillus_delbrueckii_subsp._bulgaricus_2038_chromosome_NC_017469	IS30	10	5	5	1,00E+000
Proteobacteria	Methylobacterium_sp._4-46_chromosome_NC_010511	IS30	14	7	7	1,00E+000
Tenericutes	Mycoplasma_bovis_PG45_chromosome_NC_014760	IS30	6	3	3	1,00E+000
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS30	6	3	3	1,00E+000
Proteobacteria	Shewanella_denitrificans_OS217_NC_007954	IS30	8	4	4	1,00E+000
Firmicutes	Streptococcus_pyogenes_MGAS10394_chromosome_NC_006086	IS30	12	6	6	1,00E+000
Firmicutes	Streptococcus_thermophilus_CNRZ1066_chromosome_NC_006449	IS30	12	6	6	1,00E+000
Firmicutes	Thermoanaerobacter_italicus_Ab9_chromosome_NC_013921	IS30	12	6	6	1,00E+000
Proteobacteria	Acinetobacter_baumannii_ACICU_chromosome_NC_010611	IS30	7	4	3	1,00E+000
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS30	13	7	6	1,00E+000
Firmicutes	Exiguobacterium_sibiricum_255-15_chromosome_NC_010556	IS30	11	6	5	1,00E+000
Acidobacteria	Granulicella_mallensis_MP5ACTX8_chromosome_NC_016631	IS30	7	4	3	1,00E+000
Firmicutes	Lactobacillus_amylovorus_GRL_1112_chromosome_NC_014724	IS30	9	5	4	1,00E+000
Firmicutes	Lactobacillus_crispatus_ST1_NC_014106	IS30	7	4	3	1,00E+000
Firmicutes	Lactobacillus_johnsonii_NCC_533_NC_005362	IS30	7	3	4	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS30	11	6	5	1,00E+000
Actinobacteria	Mycobacterium_intracellulare_ATCC_13950_chromosome_NC_016946	IS30	9	5	4	1,00E+000
Actinobacteria	Mycobacterium_sp._MOTT36Y_chromosome_NC_017904	IS30	7	4	3	1,00E+000
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS30	11	5	6	1,00E+000
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS30	9	4	5	1,00E+000
Firmicutes	Streptococcus_dysgalactiae_subsp._equisimilis_RE378_NC_018712	IS30	11	5	6	1,00E+000
Firmicutes	Thermoanaerobacter_wiegelei_Rt8.B1_chromosome_NC_015958	IS30	11	6	5	1,00E+000
Spirochaetes	Turneriella_parva_DSM_21527_chromosome_NC_018020	IS30	15	8	7	1,00E+000
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	IS30	53	27	26	1,00E+000
Proteobacteria	Bordetella_pertussis_CS_chromosome_NC_017223	IS481	199	84	115	3,32E-002
Acidobacteria	Acidobacterium_capsulatum_ATCC_51196_NC_012483	IS481	11	9	2	6,54E-002
Actinobacteria	Clavibacter_michiganensis_subsp._sepedonicus_chromosome_NC_010407	IS481	89	52	37	1,37E-001
Proteobacteria	Acidovorax_citrulli_AAC00-1_chromosome_NC_008752	IS481	19	6	13	1,67E-001
Proteobacteria	Bordetella_parapertussis_12822_chromosome_NC_002928	IS481	9	2	7	1,80E-001
Actinobacteria	Cellulomonas_flavigena_DSM_20109_chromosome_NC_014151	IS481	6	1	5	2,19E-001
Proteobacteria	Cellvibrio_gilvus_ATCC_13127_chromosome_NC_015671	IS481	6	1	5	2,19E-001
Actinobacteria	Mycobacterium_sp._KMS_chromosome_NC_008705	IS481	7	5	2	4,53E-001
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggangensis_5008_chromosome_NC_017765	IS481	15	6	9	6,07E-001
Actinobacteria	Mycobacterium_avium_104_NC_008595	IS481	6	2	4	6,88E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	IS481	6	4	2	6,88E-001
Actinobacteria	Leifsonia_xyli_subsp._xyli_str._CTCB07_chromosome_NC_006087	IS481	6	3	3	1,00E+000
Actinobacteria	Mycobacterium_marinum_M_chromosome_NC_010612	IS481	7	3	4	1,00E+000
Actinobacteria	Streptomyces_coelicolor_A3(2)_chromosome_NC_003888	IS481	9	5	4	1,00E+000
Proteobacteria	Shigella_dysenteriae_Sd197_NC_007606	IS4a	11	10	1	1,17E-002
Proteobacteria	Shigella_flexneri_2a_str._301_chromosome_NC_004337	IS4a	17	13	4	4,90E-002
Actinobacteria	Frankia_symbiont_of_Datisca_glomerata_chromosome_NC_015656	IS4a	16	4	12	7,68E-002
Proteobacteria	Shigella_sonnei_53G_NC_016822	IS4a	35	23	12	8,95E-002
Actinobacteria	Corynebacterium_efficiens_YS-314_chromosome_NC_004369	IS4a	9	2	7	1,80E-001
Actinobacteria	Frankia_sp._CcI3_chromosome_NC_007777	IS4a	6	1	5	2,19E-001
Proteobacteria	Yersinia_enterocolitica_subsp._enterocolitica_8081_chromosome_NC_008800	IS4a	11	3	8	2,27E-001
Proteobacteria	Rahnella_aquatilis_HX2_chromosome_NC_017047	IS4a	14	9	5	4,24E-001
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS4a	27	11	16	4,42E-001
Proteobacteria	Rahnella_sp._Y9602_chromosome_NC_015061	IS4a	11	7	4	5,49E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS4a	13	8	5	5,81E-001
Proteobacteria	Shewanella_baltica_OS155_chromosome_NC_009052	IS4a	6	4	2	6,88E-001
Proteobacteria	Vibrio_vulnificus_CMCP6_chromosome_I_NC_004459	IS4a	6	2	4	6,88E-001
Actinobacteria	Mycobacterium_sp._Spyr1_chromosome_NC_014814	IS4a	8	5	3	7,27E-001
Proteobacteria	Shigella_boydii_CDC_3083-94_chromosome_NC_010658	IS4a	20	11	9	8,24E-001
Proteobacteria	Dickeya_zeae_Ech1591_chromosome_NC_012912	IS4a	8	4	4	1,00E+000
Actinobacteria	Microlunatus_phosphovorus_NM-1_NC_015635	IS4a	6	3	3	1,00E+000
Proteobacteria	Allivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS4a	9	4	5	1,00E+000
Proteobacteria	Citrobacter_rodentium_ICC168_NC_013716	IS4a	13	6	7	1,00E+000
Proteobacteria	Escherichia_coli_IAI39_chromosome_NC_011750	IS4a	15	7	8	1,00E+000
Proteobacteria	Sinorhizobium_meliloti_BL225C_chromosome_NC_017322	IS4b	6	0	6	3,13E-002
Bacteroidetes	Chitinophaga_pinensis_DSM_2588_chromosome_NC_013132	IS4b	9	1	8	3,91E-002
Proteobacteria	Cellvibrio_japonicus_Ueda107_chromosome_NC_010995	IS4b	13	10	3	9,23E-002
Proteobacteria	Gallionella_capsiferiformans_ES-2_chromosome_NC_014394	IS4b	11	3	8	2,27E-001
Proteobacteria	Sinorhizobium_fredii_HH103_NC_016812	IS4b	11	8	3	2,27E-001
Firmicutes	Desulfotomaculum_reducens_MI-1_chromosome_NC_009253	IS4b	7	2	5	4,53E-001
Proteobacteria	Geobacter_metallireducens_GS-15_chromosome_NC_007517	IS4b	9	3	6	5,08E-001
Proteobacteria	Nitrosomonas_sp._Is79A3_chromosome_NC_015731	IS4b	9	6	3	5,08E-001
Bacteroidetes	Porphyromonas_gingivalis_W83_chromosome_NC_002950	IS4b	10	6	4	7,54E-001
Bacteroidetes	Sphingobacterium_sp._21_chromosome_NC_015277	IS4b	12	5	7	7,74E-001
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS4c	11	2	9	6,54E-002
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS4c	6	5	1	2,19E-001
Proteobacteria	Shewanella_putrefaciens_200_chromosome_NC_017566	IS4c	18	6	12	2,38E-001

Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS4c	19	12	7	3,59E-001
Proteobacteria	Sorangium_cellulosum_'So_ce_56'_chromosome_NC_010162	IS4c	9	3	6	5,08E-001
Proteobacteria	Legionella_pneumophila_str._Lens_NC_006369	IS4c	6	4	2	6,88E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS4c	6	4	2	6,88E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS4c	17	9	8	1,00E+000
Proteobacteria	Escherichia_coli_O127:H6_str._E2348/69_chromosome_NC_011601	IS4c	27	14	13	1,00E+000
Proteobacteria	Thioalkalivibrio_sulfidophilus_HL-EbGr7_chromosome_NC_011901	IS5a	10	0	10	1,95E-003
Firmicutes	Thermincola_potens_JR_chromosome_NC_014152	IS5a	12	11	1	6,35E-003
Firmicutes	Caldicellulosiruptor_lactoaceticus_6A_chromosome_NC_015949	IS5a	18	3	15	7,54E-003
Firmicutes	Bacillus_coagulans_2-6_chromosome_NC_015634	IS5a	7	7	0	1,56E-002
Deferribacteres	Flexistipes_sinuarabici_DSM_4947_chromosome_NC_015672	IS5a	27	20	7	1,92E-002
Proteobacteria	Neisseria_meningitidis_G2136_chromosome_NC_017513	IS5a	10	1	9	2,15E-002
Firmicutes	Thermoanaerobacter_wiegelei_Rt8.B1_chromosome_NC_015958	IS5a	13	2	11	2,25E-002
Firmicutes	Bacillus_cellulosilyticus_DSM_2522_chromosome_NC_014829	IS5a	6	6	0	3,13E-002
Firmicutes	Kyrpidia_tusciae_DSM_2912_chromosome_NC_014098	IS5a	12	10	2	3,86E-002
Firmicutes	Thermoanaerobacter_italicus_Ab9_chromosome_NC_013921	IS5a	12	2	10	3,86E-002
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS5a	10	2	8	1,09E-001
Chlorobi	Chlorobium_phaeobacteroides_BS1_chromosome_NC_010831	IS5a	12	9	3	1,46E-001
Firmicutes	Caldicellulosiruptor_hydrothermalis_108_chromosome_NC_014652	IS5a	31	11	20	1,50E-001
Firmicutes	Alkaliphilus_metalliredigens_QYMF_chromosome_NC_009633	IS5a	9	2	7	1,80E-001
Firmicutes	Desulfosporosinus_acidiphilus_SJ4_chromosome_NC_018068	IS5a	23	15	8	2,10E-001
Proteobacteria	Pseudomonas_syringae_pv._tomato_str._DC3000_chromosome_NC_004578	IS5a	41	16	25	2,11E-001
Proteobacteria	Alicyclophilus_denitrificans_BC_chromosome_NC_014910	IS5a	6	5	1	2,19E-001
Firmicutes	Lactobacillus_acidophilus_30SC_chromosome_NC_015214	IS5a	6	1	5	2,19E-001
Firmicutes	Staphylococcus_aureus_subsp._aureus_11819-97_chromosome_NC_017351	IS5a	6	1	5	2,19E-001
Proteobacteria	Marinobacter_aquaeolei_VT8_NC_008740	IS5a	11	8	3	2,27E-001
Proteobacteria	Pelobacter_propionicus_DSM_2379_chromosome_NC_008609	IS5a	25	16	9	2,30E-001
Proteobacteria	Escherichia_coli_str._K-12_substr._W3110_NC_007779	IS5a	18	12	6	2,38E-001
Firmicutes	Desulfotomaculum_carboxydivorans_CO-1-SRB_chromosome_NC_015565	IS5a	8	6	2	2,89E-001
Proteobacteria	Desulfovibrio_alaskensis_G20_chromosome_NC_007519	IS5a	8	6	2	2,89E-001
Firmicutes	Staphylococcus_haemolyticus_JCSC1435_chromosome_NC_007168	IS5a	24	15	9	3,07E-001
Bacteroidetes	Odoribacter_splanchnicus_DSM_20712_chromosome_NC_015160	IS5a	21	8	13	3,83E-001
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS5a	7	5	2	4,53E-001
Fusobacteria	Fusobacterium_nucleatum_subsp._nucleatum_ATCC_25586_chromosome_NC_003454	IS5a	7	5	2	4,53E-001
Proteobacteria	Geobacter_metallireducens_GS-15_chromosome_NC_007517	IS5a	7	2	5	4,53E-001
Firmicutes	Caldicellulosiruptor_saccharolyticus_DSM_8903_chromosome_NC_009437	IS5a	16	6	10	4,54E-001
Proteobacteria	Anaeromyxobacter_dehalogenans_2CP-1_chromosome_NC_011891	IS5a	9	6	3	5,08E-001
Proteobacteria	Desulfococcus_oleovorans_Hxd3_chromosome_NC_009943	IS5a	9	6	3	5,08E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS5a	9	3	6	5,08E-001
Firmicutes	Lactobacillus_rhamnosus_GG_NC_013198	IS5a	24	10	14	5,41E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_6_NC_017249	IS5a	11	4	7	5,49E-001
Firmicutes	Lactobacillus_plantarum_JDM1_NC_012984	IS5a	11	7	4	5,49E-001
Proteobacteria	Desulfovibrio_magneticus_RS-1_NC_012796	IS5a	13	8	5	5,81E-001
Acidobacteria	Granulicella_tundricola_chromosome_NC_015064	IS5a	15	9	6	6,07E-001
Spirochaetes	Spirochaeta_caldaria_DSM_7334_chromosome_NC_015732	IS5a	17	7	10	6,29E-001
Bacteroidetes	Porphyromonas_gingivalis_ATCC_33277_NC_010729	IS5a	44	24	20	6,52E-001
Proteobacteria	Acidovorax_ebreus_TPSY_chromosome_NC_011992	IS5a	6	4	2	6,88E-001
Proteobacteria	Neisseria_gonorrhoeae_NCCP11945_chromosome_NC_011035	IS5a	6	2	4	6,88E-001
Bacteroidetes	Psychroflexus_torquis_ATCC_700755_chromosome_NC_018721	IS5a	6	4	2	6,88E-001
Proteobacteria	Rhodopseudomonas_palustris_BisB5_chromosome_NC_007958	IS5a	6	4	2	6,88E-001
Proteobacteria	Thiomonas_intermedia_K12_chromosome_NC_014153	IS5a	6	4	2	6,88E-001
Proteobacteria	Nitrobacter_hamburgensis_X14_chromosome_NC_007964	IS5a	27	15	12	7,01E-001
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	IS5a	31	14	17	7,20E-001
Proteobacteria	Acidovorax_avenae_subsp._avenae_ATCC_19860_chromosome_NC_015138	IS5a	8	5	3	7,27E-001
Firmicutes	Geobacillus_thermodenitrificans_NG80-2_chromosome_NC_009328	IS5a	8	3	5	7,27E-001
Firmicutes	Lactobacillus_helveticus_DPC_4571_NC_010080	IS5a	8	3	5	7,27E-001
Firmicutes	Symbiobacterium_thermophilum_IAM_14863_chromosome_NC_006177	IS5a	8	5	3	7,27E-001
Spirochaetes	Treponema_azotonutricium_ZAS-9_chromosome_NC_015577	IS5a	8	3	5	7,27E-001
Firmicutes	Desulfitobacterium_hafniense_DCB-2_chromosome_NC_011830	IS5a	10	4	6	7,54E-001
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS5a	10	6	4	7,54E-001
Firmicutes	Pelotomaculum_thermopropionicum_SI_chromosome_NC_009454	IS5a	10	6	4	7,54E-001
Proteobacteria	Rhodospirillum_photometricum_DSM_122_NC_017059	IS5a	10	6	4	7,54E-001
Proteobacteria	Salmonella_enterica_subsp._enterica_serovar_Heidelberg_str._SL476_chromosome_NC_011083	IS5a	10	6	4	7,54E-001
Firmicutes	Syntrophomonas_wolfei_subsp._wolfei_str._Goettingen_chromosome_NC_008346	IS5a	12	7	5	7,74E-001
Proteobacteria	Aromatoleum_aromaticum_Ebn1_chromosome_NC_006513	IS5a	14	8	6	7,91E-001
Proteobacteria	Methylobium_petroleiphilum_PM1_chromosome_NC_008825	IS5a	14	6	8	7,91E-001
Proteobacteria	Acidithiobacillus_calidus_SM-1_chromosome_NC_015850	IS5a	30	16	14	8,56E-001
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	IS5a	70	36	34	9,05E-001
Bacteroidetes	Bacteroides_vulgatus_ATCC_8482_chromosome_NC_009614	IS5a	18	9	9	1,00E+000
Proteobacteria	Burkholderia_pseudomallei_1106a_chromosome_chromosome_I_NC_009076	IS5a	8	4	4	1,00E+000
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS5a	20	10	10	1,00E+000
Ignavibacteria	Ignavibacterium_album_JCM_16511_chromosome_NC_017464	IS5a	6	3	3	1,00E+000
Actinobacteria	Mycobacterium_avium_subsp._paratuberculosis_K-10_NC_002944	IS5a	6	3	3	1,00E+000
Firmicutes	Paenibacillus_mucilaginosus_3016_chromosome_NC_016935	IS5a	8	4	4	1,00E+000
Proteobacteria	Sinorhizobium_meliloti_AK83_chromosome_3_NC_015591	IS5a	6	3	3	1,00E+000
Firmicutes	Tetragenococcus_halophilus_NBRC_12172_NC_016052	IS5a	6	3	3	1,00E+000
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS5a	9	4	5	1,00E+000
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS5a	7	3	4	1,00E+000
Proteobacteria	Azotobacter_vinelandii_DJ_chromosome_NC_012560	IS5a	9	5	4	1,00E+000
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	IS5a	7	4	3	1,00E+000
Proteobacteria	Bradyrhizobium_sp._ORS_278_chromosome_NC_009445	IS5a	13	7	6	1,00E+000
Chlorobi	Chlorobium_limicola_DSM_245_chromosome_NC_010803	IS5a	9	4	5	1,00E+000
Firmicutes	Clostridium_beijerinckii_NCIMB_8052_chromosome_NC_009617	IS5a	9	4	5	1,00E+000
Chloroflexi	Dehalogenimonas_lykanthroporepellens_BL-DC-9_chromosome_NC_014314	IS5a	11	6	5	1,00E+000

Proteobacteria	Desulfobulbus_propionicus_DSM_2032_chromosome_NC_014972	IS5a	7	3	4	1,00E+000
Proteobacteria	Geobacter_lovleyi_SZ_chromosome_NC_010814	IS5a	9	5	4	1,00E+000
Proteobacteria	Gluconobacter_oxydans_621H_chromosome_NC_006677	IS5a	11	5	6	1,00E+000
Firmicutes	Lactobacillus_casei_ATCC_334_NC_008526	IS5a	11	5	6	1,00E+000
Proteobacteria	Pseudomonas_putida_S16_chromosome_NC_015733	IS5a	11	5	6	1,00E+000
Proteobacteria	Pseudomonas_stutzeri_ATCC_17588 =_LMG_11199_chromosome_NC_015740	IS5a	9	5	4	1,00E+000
Spirochaetes	Spirochaeta_thermophila_DSM_6578_chromosome_NC_017583	IS5a	9	4	5	1,00E+000
Proteobacteria	Methylococcus_capsulatus_str_Bath_chromosome_NC_002977	IS5a	21	11	10	1,00E+000
Proteobacteria	Nitrosomonas_sp_AL212_chromosome_NC_015222	IS5a	31	15	16	1,00E+000
Proteobacteria	Xanthomonas_campestris_pv_campestris_str_8004_chromosome_NC_007086	IS5a	25	12	13	1,00E+000
Proteobacteria	Brucella_melitensis_bv_1_str_16M_chromosome_I_NC_003317	IS5b	11	11	0	9,77E-004
Proteobacteria	Brucella_suis_ATCC_23445_chromosome_chromosome_I_NC_010169	IS5b	10	10	0	1,95E-003
Proteobacteria	Brucella_abortus_S19_chromosome_chromosome_1_NC_010742	IS5b	7	7	0	1,56E-002
Proteobacteria	Brucella_canis_ATCC_23365_chromosome_chromosome_I_NC_010103	IS5b	7	7	0	1,56E-002
Deinococcus-Thermus	Truepera_radiovictrix_DSM_17093_chromosome_NC_014221	IS5b	6	0	6	3,13E-002
Proteobacteria	Azospirillum_sp_B510_chromosome_NC_013854	IS5b	15	3	12	3,52E-002
Proteobacteria	Stigmatella_aurantiaca_DW4/3-1_chromosome_NC_014623	IS5b	15	12	3	3,52E-002
Proteobacteria	Collimonas_fungivorans_Ter331_chromosome_NC_015856	IS5b	8	7	1	7,03E-002
Cyanobacteria	Synechococcus_sp_JA-2-3B'a(2-13)_chromosome_NC_007776	IS5b	16	12	4	7,68E-002
Proteobacteria	Pseudomonas_syringae_pv_phaseolicola_1448A_chromosome_NC_005773	IS5b	31	20	11	1,50E-001
Actinobacteria	Frankia_sp_Ccl3_chromosome_NC_007777	IS5b	14	10	4	1,80E-001
Actinobacteria	Nocardia_farcinica_IFM_10152_chromosome_NC_006361	IS5b	9	2	7	1,80E-001
Proteobacteria	Nitrobacter_winogradskyi_Nb-255_chromosome_NC_007406	IS5b	30	19	11	2,00E-001
Proteobacteria	Brucella_microti_CCM_4915_chromosome_1_NC_013119	IS5b	6	5	1	2,19E-001
Chloroflexi	Roseiflexus_sp_RS-1_chromosome_NC_009523	IS5b	11	3	8	2,27E-001
Actinobacteria	Streptomyces_coelicolor_A3(2)_chromosome_NC_003888	IS5b	11	3	8	2,27E-001
Actinobacteria	Kitasatospora_setae_KM-6054_NC_016109	IS5b	18	12	6	2,38E-001
Proteobacteria	Wolbachia_sp_wRi_NC_012416	IS5b	20	13	7	2,63E-001
Chloroflexi	Chloroflexus_aurantiacus_J-10-fl_chromosome_NC_010175	IS5b	13	4	9	2,67E-001
Chloroflexi	Chloroflexus_sp_Y-400-fl_chromosome_NC_012032	IS5b	13	4	9	2,67E-001
Proteobacteria	Burkholderia_cenocepacia_J2315_chromosome_chromosome_1_NC_011000	IS5b	8	2	6	2,89E-001
Actinobacteria	Corynebacterium_variabile_DSM_44702_chromosome_NC_015859	IS5b	8	6	2	2,89E-001
Actinobacteria	Streptomyces_bingchenggensis_BCW-1_chromosome_NC_016582	IS5b	8	2	6	2,89E-001
Proteobacteria	Acidovorax_citrulli_AAC00-1_chromosome_NC_008752	IS5b	15	10	5	3,02E-001
Proteobacteria	Delftia_acidovorans_SPH-1_chromosome_NC_010002	IS5b	10	3	7	3,44E-001
Actinobacteria	Streptomyces_sp_SirexAA-E_chromosome_NC_015953	IS5b	10	3	7	3,44E-001
Proteobacteria	Nitrosomonas_europaea_ATCC_19718_chromosome_NC_004757	IS5b	19	7	12	3,59E-001
Cyanobacteria	Cyanothece_sp_PCC_7425_chromosome_NC_011884	IS5b	12	8	4	3,88E-001
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS5b	14	9	5	4,24E-001
Cyanobacteria	Trichodesmium_erythraeum_IMS101_chromosome_NC_008312	IS5b	14	5	9	4,24E-001
Actinobacteria	Amycolatopsis_mediterranei_S699_chromosome_uid158689_NC_017186	IS5b	7	5	2	4,53E-001
Proteobacteria	Burkholderia_sp_CCGE1001_chromosome_1_NC_015136	IS5b	7	5	2	4,53E-001
Proteobacteria	Methylophaga_sp_JAM1_chromosome_NC_017857	IS5b	7	5	2	4,53E-001
Proteobacteria	Nitrosomonas_eutropha_C91_chromosome_NC_008344	IS5b	7	5	2	4,53E-001
Cyanobacteria	Nostoc_sp_PCC_7120_chromosome_NC_003272	IS5b	7	2	5	4,53E-001
Firmicutes	Paenibacillus_terrae_HPL-003_chromosome_NC_016641	IS5b	7	2	5	4,53E-001
Chlamydiae	Parachlamydia_acanthamoebae_UV7_NC_015702	IS5b	7	5	2	4,53E-001
Proteobacteria	Ralstonia_solanacearum_GMI1000_chromosome_NC_003295	IS5b	7	2	5	4,53E-001
Actinobacteria	Streptomyces_scabiei_87.22_chromosome_NC_013929	IS5b	18	7	11	4,81E-001
Actinobacteria	Frankia_sp_EAN1pec_chromosome_NC_009921	IS5b	9	3	6	5,08E-001
Firmicutes	Lactobacillus_rhamnosus_GG_NC_013198	IS5b	9	6	3	5,08E-001
Firmicutes	Paenibacillus_polymyxa_E681_chromosome_NC_014483	IS5b	9	6	3	5,08E-001
Proteobacteria	Nitrobacter_hamburgensis_X14_chromosome_NC_007964	IS5b	11	7	4	5,49E-001
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS5b	13	5	8	5,81E-001
Proteobacteria	Zymomonas_mobilis_subsp_mobilis_ATCC_10988_chromosome_NC_017262	IS5b	30	13	17	5,85E-001
Proteobacteria	Nitrospira_multiformis_ATCC_25196_chromosome_NC_007614	IS5b	19	11	8	6,48E-001
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS5b	21	9	12	6,64E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS5b	21	12	9	6,64E-001
Proteobacteria	Allochromatium_vinosum_DSM_180_chromosome_NC_013851	IS5b	6	2	4	6,88E-001
Deferribacteres	Denitrovibrio_acetiphilus_DSM_12809_chromosome_NC_013943	IS5b	6	2	4	6,88E-001
Fusobacteria	Leptotrichia_buccalis_C-1013-b_chromosome_NC_013192	IS5b	6	2	4	6,88E-001
Proteobacteria	Pelagibacterium_halotolerans_B2_chromosome_NC_016078	IS5b	6	4	2	6,88E-001
Proteobacteria	Verminephrobacter_eiseniae_EF01-2_chromosome_NC_008786	IS5b	6	4	2	6,88E-001
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	IS5b	6	4	2	6,88E-001
Proteobacteria	Azorhizobium_caulinodans_OR_571_chromosome_NC_009937	IS5b	8	3	5	7,27E-001
Proteobacteria	Azotobacter_vinelandii_DJ_chromosome_NC_012560	IS5b	8	5	3	7,27E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS5b	8	3	5	7,27E-001
Cyanobacteria	Thermosynechococcus_elongatus_BP-1_chromosome_NC_004113	IS5b	8	3	5	7,27E-001
Proteobacteria	Xanthomonas_oryzae_pv_oryzae_KACC10331_chromosome_NC_006834	IS5b	80	42	38	7,38E-001
Proteobacteria	Acetobacter_pasteurianus_IFO_3283-01_NC_013209	IS5b	10	4	6	7,54E-001
Proteobacteria	Bradyrhizobium_sp_BTAi1_chromosome_NC_009485	IS5b	10	6	4	7,54E-001
Proteobacteria	Mesorhizobium_lotii_MAFF303099_chromosome_NC_002678	IS5b	10	6	4	7,54E-001
Proteobacteria	Methylobacterium_extorquens_DM4_NC_012988	IS5b	10	6	4	7,54E-001
Proteobacteria	Methylobacterium_populi_BJ001_chromosome_NC_010725	IS5b	10	4	6	7,54E-001
Bacteroidetes	Emticicia_oligotrophica_DSM_17448_chromosome_NC_018748	IS5b	18	10	8	8,15E-001
Proteobacteria	Francisella_tularensis_subsp_holarctica_FTNF002-00_chromosome_NC_009749	IS5b	28	15	13	8,51E-001
Cyanobacteria	Nostoc_azollae_0708_chromosome_NC_014248	IS5b	32	15	17	8,60E-001
Actinobacteria	Saccharopolyspora_erythraea_NRR1_2338_chromosome_NC_009142	IS5b	34	16	18	8,64E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS5b	14	7	7	1,00E+000
Proteobacteria	Acidovorax_avenae_subsp_avenae_ATCC_19860_chromosome_NC_015138	IS5b	14	7	7	1,00E+000
Proteobacteria	Beijerinckia_indica_subsp_indica_ATCC_9039_chromosome_NC_010581	IS5b	6	3	3	1,00E+000
Proteobacteria	Burkholderia_glumae_BGR1_chromosome_chromosome_2_NC_012721	IS5b	6	3	3	1,00E+000
Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_I_NC_007651	IS5b	6	3	3	1,00E+000
Proteobacteria	Burkholderia_vietnamiensis_G4_chromosome_3_NC_009254	IS5b	6	3	3	1,00E+000

Proteobacteria	Candidatus_Hamiltonella_defensa_5AT_(Acyrtosiphon_pisum)_NC_012751	IS5b	6	3	3	1,00E+000
Chrysiogenetes	Desulfurispirillum_indicum_S5_chromosome_NC_014836	IS5b	12	6	6	1,00E+000
Planctomycetes	Planctomyces_brasiliensis_DSM_5305_chromosome_NC_015174	IS5b	26	13	13	1,00E+000
Proteobacteria	Shewanella_oneidensis_MR-1_chromosome_NC_004347	IS5b	6	3	3	1,00E+000
Actinobacteria	Streptomyces_violaceusniger_Tu_4113_chromosome_NC_015957	IS5b	18	9	9	1,00E+000
Proteobacteria	Xanthomonas_campestris_pv._campestris_str._B100_chromosome_NC_010688	IS5b	10	5	5	1,00E+000
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	IS5b	11	5	6	1,00E+000
Actinobacteria	Actinoplanes_sp._SE50/110_chromosome_NC_017803	IS5b	11	5	6	1,00E+000
Cyanobacteria	Anabaena_variabilis_ATCC_29413_chromosome_NC_007413	IS5b	9	4	5	1,00E+000
Proteobacteria	Azospirillum_brasiliense_Sp245_NC_016617	IS5b	7	3	4	1,00E+000
Proteobacteria	Corallococcus_coralloides_DSM_2259_chromosome_NC_017030	IS5b	9	5	4	1,00E+000
Actinobacteria	Geodermatophilus_obscurus_DSM_43160_chromosome_NC_013757	IS5b	11	6	5	1,00E+000
Proteobacteria	Gluconobacter_oxydans_621H_chromosome_NC_006677	IS5b	13	6	7	1,00E+000
Proteobacteria	Magnetospirillum_magneticum_AMB-1_chromosome_NC_007626	IS5b	7	3	4	1,00E+000
Proteobacteria	Methylobacterium_nodulans_ORIS_2060_chromosome_NC_011894	IS5b	19	10	9	1,00E+000
Actinobacteria	Micrococcus_luteus_NCTC_2665_NC_012803	IS5b	11	6	5	1,00E+000
Planctomycetes	Pirellula_staleyii_DSM_6068_chromosome_NC_013720	IS5b	9	4	5	1,00E+000
Proteobacteria	Rhodobacter_sphaeroides_ATCC_17025_chromosome_NC_009428	IS5b	7	4	3	1,00E+000
Proteobacteria	Sphingobium_japonicum_UT26S_chromosome_1_NC_014006	IS5b	7	4	3	1,00E+000
Actinobacteria	Streptomyces_avermitilis_MA-4680_NC_003155	IS5b	13	7	6	1,00E+000
Actinobacteria	Streptomyces_griseus_subsp._griseus_NBRC_13350_chromosome_NC_010572	IS5b	9	5	4	1,00E+000
Actinobacteria	Streptosporangium_roseum_DSM_43021_chromosome_NC_013595	IS5b	11	6	5	1,00E+000
Cyanobacteria	Synechocystis_sp._PCC_6803_chromosome_NC_000911	IS5b	19	10	9	1,00E+000
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS5b	13	6	7	1,00E+000
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_II_NC_009784	IS5b	7	4	3	1,00E+000
Proteobacteria	Wolbachia_endosymbiont_of_Drosophila_melanogaster_NC_002978	IS5b	13	6	7	1,00E+000
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS5b	15	8	7	1,00E+000
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS5b	21	11	10	1,00E+000
Bacteroidetes	Candidatus_Amoebophilus_asiaticus_5a2_chromosome_NC_010830	IS5b	25	13	12	1,00E+000
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggagensis_5008_chromosome_NC_017765	IS5b	23	12	11	1,00E+000
Proteobacteria	Desulfovibrio_africanus_str._Walvis_Bay_chromosome_NC_016629	IS5b	27	13	14	1,00E+000
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS5c	9	2	7	1,80E-001
Proteobacteria	Acinetobacter_baumannii_1656-2_chromosome_NC_017162	IS5c	24	15	9	3,07E-001
Proteobacteria	Comamonas_testosteroni_CNB-2_chromosome_NC_013446	IS5c	10	3	7	3,44E-001
Proteobacteria	Citrobacter_rodentium_ICC168_NC_013716	IS5c	12	4	8	3,88E-001
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_II_NC_009784	IS5c	15	6	9	6,07E-001
Proteobacteria	Enterobacter_cloacae_subsp._cloacae_ATCC_13047_chromosome_NC_014121	IS5c	19	11	8	6,48E-001
Proteobacteria	Sodalis_glossinidius_str._'morsitans'_chromosome_NC_007712	IS5c	16	9	7	8,04E-001
Bacteroidetes	Runella_slithyformis_DSM_19594_chromosome_NC_015703	IS5c	8	4	4	1,00E+000
Proteobacteria	Klebsiella_pneumoniae_subsp._pneumoniae_HS11286_chromosome_NC_016845	IS5c	7	4	3	1,00E+000
Proteobacteria	Shewanella_baltica_OS117_chromosome_NC_017579	IS5c	7	4	3	1,00E+000
Cyanobacteria	Trichodesmium_erythraeum_IMS101_chromosome_NC_008312	IS5c	13	7	6	1,00E+000
Proteobacteria	Vibrio_anguillarum_775_chromosome_chromosome_I_NC_015633	IS5c	11	6	5	1,00E+000
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS5c	9	4	5	1,00E+000
Firmicutes	Streptococcus_pneumoniae_70585_NC_012468	IS5d	33	23	10	3,51E-002
Cyanobacteria	Nostoc_punctiforme_PCC_73102_chromosome_NC_010628	IS5d	24	17	7	6,39E-002
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS5d	38	15	23	2,56E-001
Bacteroidetes	Candidatus_Amoebophilus_asiaticus_5a2_chromosome_NC_010830	IS5d	57	33	24	2,89E-001
Firmicutes	Streptococcus_pseudopneumoniae_IS7493_chromosome_NC_015875	IS5d	10	7	3	3,44E-001
Firmicutes	Streptococcus_agalactiae_GD201008-001_chromosome_NC_018646	IS5d	12	8	4	3,88E-001
Actinobacteria	Micromonospora_aurantiaca_ATCC_27029_chromosome_NC_014391	IS5d	7	2	5	4,53E-001
Actinobacteria	Streptomyces_coelicolor_A3(2)_chromosome_NC_003888	IS5d	7	2	5	4,53E-001
Actinobacteria	Geodermatophilus_obscurus_DSM_43160_chromosome_NC_013757	IS5d	9	6	3	5,08E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS5d	13	5	8	5,81E-001
Proteobacteria	Orientia_tsutsugamushi_str._lkeda_NC_010793	IS5d	55	30	25	5,90E-001
Actinobacteria	Micromonospora_sp._L5_chromosome_NC_014815	IS5d	6	4	2	6,88E-001
Actinobacteria	Actinosynnema_mirum_DSM_43827_chromosome_NC_013093	IS5d	8	3	5	7,27E-001
Chloroflexi	Roseiflexus_sp._RS-1_chromosome_NC_009523	IS5d	22	11	11	1,00E+000
Cyanobacteria	Cyanothece_sp._ATCC_51142_chromosome_chromosome_circular_NC_010546	IS5d	15	8	7	1,00E+000
Cyanobacteria	Nostoc_azollae_0708_chromosome_NC_014248	IS5d	9	4	5	1,00E+000
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggagensis_5008_chromosome_NC_017765	IS5d	13	7	6	1,00E+000
Cyanobacteria	Trichodesmium_erythraeum_IMS101_chromosome_NC_008312	IS5d	49	25	24	1,00E+000
Firmicutes	Clostridium_botulinum_BKT015925_chromosome_NC_015425	IS6	23	5	18	1,06E-002
Firmicutes	Tetragenococcus_halophilus_NBRC_12172_NC_016052	IS6	10	2	8	1,09E-001
Proteobacteria	Novosphingobium_aromaticivorans_DSM_12444_chromosome_NC_007794	IS6	7	6	1	1,25E-001
Firmicutes	Staphylococcus_aureus_subsp._aureus_str._JKD6008_chromosome_NC_017341	IS6	7	1	6	1,25E-001
Firmicutes	Clostridium_perfringens_SM101_chromosome_NC_008262	IS6	12	3	9	1,46E-001
Thermotogae	Fervidobacterium_pennivorans_DSM_9078_chromosome_NC_017095	IS6	24	8	16	1,52E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS6	9	7	2	1,80E-001
Proteobacteria	Acinetobacter_baumannii_1656-2_chromosome_NC_017162	IS6	6	1	5	2,19E-001
Firmicutes	Streptococcus_macedonicus_ACA-DC_198_NC_016749	IS6	6	1	5	2,19E-001
Firmicutes	Natranaerobius_thermophilus_JW/NM-WN-LF_chromosome_NC_010718	IS6	11	3	8	2,27E-001
Firmicutes	Staphylococcus_haemolyticus_JCSC1435_chromosome_NC_007168	IS6	9	3	6	5,08E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS6	11	4	7	5,49E-001
Thermotogae	Fervidobacterium_nodosum_Rt17-B1_chromosome_NC_009718	IS6	23	13	10	6,78E-001
Proteobacteria	Agrobacterium_radiobacter_K84_chromosome_2_NC_011983	IS6	6	2	4	6,88E-001
Proteobacteria	Wolbachia_endosymbiont_of_Culex_quinquefasciatus_Pel_chromosome_NC_010981	IS6	6	2	4	6,88E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS6	10	6	4	7,54E-001
Actinobacteria	Corynebacterium_diphtheriae_BH8_chromosome_NC_016800	IS6	6	3	3	1,00E+000
Actinobacteria	Corynebacterium_glutamicum_ATCC_13032_uid61611_NC_006958	IS6	6	3	3	1,00E+000
Proteobacteria	Klebsiella_oxytoca_E718_chromosome_NC_018106	IS6	8	4	4	1,00E+000
Proteobacteria	Sphingobium_japonicum_UT26S_chromosome_1_NC_014006	IS6	6	3	3	1,00E+000
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS6	11	6	5	1,00E+000
Actinobacteria	Corynebacterium_resistens_DSM_45100_chromosome_NC_015673	IS6	7	3	4	1,00E+000

Firmicutes	Thermoanaerobacter_tengcongensis_MB4_NC_003869	IS6	7	3	4	1,00E+000
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS6	11	6	5	1,00E+000
Firmicutes	Desulfotomaculum_kuznetsovii_DSM_6115_chromosome_NC_015573	IS607	10	10	0	1,95E-003
Firmicutes	Lactobacillus_helveticus_DPC_4571_NC_010080	IS607	7	7	0	1,56E-002
Firmicutes	Thermoanaerobacter_tengcongensis_MB4_NC_003869	IS607	7	7	0	1,56E-002
Firmicutes	Lactobacillus_crispatus_ST1_NC_014106	IS607	6	6	0	3,13E-002
Actinobacteria	Mycobacterium_bovis_BCG_str._Tokyo_172_NC_012207	IS607	6	6	0	3,13E-002
Actinobacteria	Mycobacterium_tuberculosis_CCDC5079_chromosome_NC_017523	IS607	6	6	0	3,13E-002
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS607	7	1	6	1,25E-001
Firmicutes	Selenomonas_ruminantium_subsp._lactilytica_TAM6421_NC_017068	IS607	8	6	2	2,89E-001
Firmicutes	Ammonifex_degensii_KC4_chromosome_NC_013385	IS607	12	8	4	3,88E-001
Firmicutes	Desulfotomaculum_carboxydivorans_CO-1-SRB_chromosome_NC_015565	IS607	7	5	2	4,53E-001
Firmicutes	Lactobacillus_kefiranofaciens_ZW3_chromosome_NC_015602	IS607	7	5	2	4,53E-001
Cyanobacteria	Synechococcus_sp._JA-3-3Ab_chromosome_NC_007775	IS607	20	8	12	5,03E-001
Firmicutes	Kyrpidia_tusciae_DSM_2912_chromosome_NC_014098	IS607	11	7	4	5,49E-001
Verrucomicrobia	Methylacidiphilum_inferorum_V4_NC_010794	IS607	6	2	4	6,88E-001
Proteobacteria	Helicobacter_pylori_Shi169_chromosome_NC_017740	IS607	6	3	3	1,00E+000
Firmicutes	Lactobacillus_delbrueckii_subsp._bulgaricus_ND02_chromosome_NC_014727	IS607	11	6	5	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS607	7	3	4	1,00E+000
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS630	36	9	27	3,93E-003
Proteobacteria	Photobacterium_profundum_SS9_chromosome_1_NC_006370	IS630	16	2	14	4,18E-003
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS630	18	4	14	3,09E-002
Proteobacteria	Bradyrhizobium_japonicum_USDA_110_chromosome_NC_004463	IS630	19	14	5	6,36E-002
Firmicutes	Streptococcus_pneumoniae_670-6B_chromosome_NC_014498	IS630	15	11	4	1,18E-001
Planctomycetes	Phycisphaera_mikurensis_NBRC_102666_NC_017080	IS630	7	6	1	1,25E-001
Proteobacteria	Psychromonas_ingrahamii_37_chromosome_NC_008709	IS630	7	1	6	1,25E-001
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS630	43	27	16	1,26E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS630	17	5	12	1,43E-001
Cyanobacteria	Synechocystis_sp._PCC_6803_substr._PCC-P_NC_017039	IS630	28	18	10	1,85E-001
Proteobacteria	Azotobacter_vinelandii_DJ_chromosome_NC_012560	IS630	16	5	11	2,10E-001
Bacteroidetes	Salinibacter_ruber_M8_chromosome_NC_014032	IS630	6	5	1	2,19E-001
Actinobacteria	Gordonia_bronchialis_DSM_43247_chromosome_NC_013441	IS630	11	3	8	2,27E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS630	13	4	9	2,67E-001
Proteobacteria	Nitrosococcus_watsonii_C-113_chromosome_NC_014315	IS630	13	4	9	2,67E-001
Proteobacteria	Aeromonas_salmonicida_subsp._salmonicida_A449_NC_009348	IS630	31	12	19	2,81E-001
Proteobacteria	Photorhabdus_asymbiotica_subsp._asymbiotica_ATCC_43949_chromosome_NC_012962	IS630	8	6	2	2,89E-001
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	IS630	8	2	6	2,89E-001
Proteobacteria	Candidatus_Hamiltonella_defensa_5AT_(Acyrtosiphon_pisum)_NC_012751	IS630	26	10	16	3,27E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_2_NC_011313	IS630	10	3	7	3,44E-001
Proteobacteria	Erwinia_pyrifoliae_DSM_12163_NC_017390	IS630	10	3	7	3,44E-001
Proteobacteria	Rhodomicrobium_vannielii_ATCC_17100_chromosome_NC_014664	IS630	10	3	7	3,44E-001
Proteobacteria	Hahella_chejuensis_KCTC_2396_chromosome_NC_007645	IS630	12	8	4	3,88E-001
Bacteroidetes	Runella_slithyformis_DSM_19594_chromosome_NC_015703	IS630	12	4	8	3,88E-001
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggangensis_5008_chromosome_NC_017765	IS630	12	4	8	3,88E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	IS630	23	14	9	4,05E-001
Cyanobacteria	Nostoc_sp._PCC_7120_chromosome_NC_003272	IS630	14	5	9	4,24E-001
Chlamydiae	Candidatus_Protoclamydia_amoebophila_UWE25_chromosome_NC_005861	IS630	7	2	5	4,53E-001
Bacteroidetes	Flavobacterium_columnare_ATCC_49512_chromosome_NC_016510	IS630	7	5	2	4,53E-001
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS630	7	5	2	4,53E-001
Bacteroidetes	Spirosoma_linguale_DSM_74_chromosome_NC_013730	IS630	7	5	2	4,53E-001
Proteobacteria	Stigmatella_aurantiaca_DW4/3-1_chromosome_NC_014623	IS630	7	5	2	4,53E-001
Actinobacteria	Streptomyces_scabiei_87.22_chromosome_NC_013929	IS630	7	5	2	4,53E-001
Proteobacteria	Nitrosomonas_sp._Is79A3_chromosome_NC_015731	IS630	16	10	6	4,54E-001
Cyanobacteria	Synechococcus_sp._JA-3-3Ab_chromosome_NC_007775	IS630	16	6	10	4,54E-001
Proteobacteria	Gluconacetobacter_diazotrophicus_PAI_5_uid59075_chromosome_NC_011365	IS630	18	11	7	4,81E-001
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	IS630	33	19	14	4,87E-001
Cyanobacteria	Nostoc_punctiforme_PCC_73102_chromosome_NC_010628	IS630	20	12	8	5,03E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS630	116	62	54	5,16E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS630	91	49	42	5,30E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS630	43	19	24	5,42E-001
Bacteroidetes	Haliscomenobacter_hydrossis_DSM_1100_chromosome_NC_015510	IS630	11	4	7	5,49E-001
Proteobacteria	Nitrobacter_winogradskyi_Nb-255_chromosome_NC_007406	IS630	28	12	16	5,72E-001
Firmicutes	Streptococcus_pseudopneumoniae_IS7493_chromosome_NC_015875	IS630	13	8	5	5,81E-001
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	IS630	34	19	15	6,08E-001
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	IS630	19	8	11	6,48E-001
Proteobacteria	Polaromonas_naphthalenivorans_CJ2_chromosome_NC_008781	IS630	19	8	11	6,48E-001
Proteobacteria	Orientia_tsutsugamushi_str._lkeda_NC_010793	IS630	44	24	20	6,52E-001
Cyanobacteria	Cyanothece_sp._ATCC_51142_chromosome_chromosome_circular_NC_010546	IS630	21	12	9	6,64E-001
Proteobacteria	Alicyclophilus_denitrificans_K601_chromosome_NC_015422	IS630	6	2	4	6,88E-001
Firmicutes	Clostridium_lentocellum_DSM_5427_chromosome_NC_015275	IS630	6	2	4	6,88E-001
Proteobacteria	Legionella_pneumophila_str._Lens_NC_006369	IS630	6	2	4	6,88E-001
Actinobacteria	Salinispora_arenicola_CNS-205_chromosome_NC_009953	IS630	6	4	2	6,88E-001
Actinobacteria	Salinispora_tropica_CNB-440_chromosome_NC_009380	IS630	6	2	4	6,88E-001
Actinobacteria	Streptomyces_violaceusniger_Tu_4113_chromosome_NC_015957	IS630	6	2	4	6,88E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS630	58	27	31	6,94E-001
Proteobacteria	Edwardsiella_ictaluri_93-146_chromosome_NC_012779	IS630	8	3	5	7,27E-001
Proteobacteria	Shewanella_oneidensis_MR-1_chromosome_NC_004347	IS630	8	5	3	7,27E-001
Chlorobi	Chlorobium_phaeobacteroides_DSM_266_chromosome_NC_008639	IS630	10	4	6	7,54E-001
Actinobacteria	Mycobacterium_smegmatis_str._MC2_155_chromosome_NC_018289	IS630	10	4	6	7,54E-001
Chloroflexi	Roseiflexus_sp._RS-1_chromosome_NC_009523	IS630	10	6	4	7,54E-001
Proteobacteria	Nitrosomonas_eutropha_C91_chromosome_NC_008344	IS630	12	7	5	7,74E-001
Chloroflexi	Caldilinea_aerophila_DSM_14535_=_NBRC_104270_NC_017079	IS630	16	9	7	8,04E-001
Cyanobacteria	Trichodesmium_erythraeum_IMS101_chromosome_NC_008312	IS630	69	36	33	8,10E-001
Bacteroidetes	Psychroflexus_torquis_ATCC_700755_chromosome_NC_018721	IS630	26	12	14	8,45E-001

Proteobacteria	Caulobacter_sp._K31_chromosome_NC_010338	IS630	8	4	4	1,00E+000
Actinobacteria	Frankia_symbiont_of_Datisca_glomerata_chromosome_NC_015656	IS630	58	29	29	1,00E+000
Cyanobacteria	Gloeobacter_violaceus_PCC_7421_chromosome_NC_005125	IS630	6	3	3	1,00E+000
Actinobacteria	Kitasatospora_setae_KM-6054_NC_016109	IS630	6	3	3	1,00E+000
Proteobacteria	Methylomonas_methanica_MC09_chromosome_NC_015572	IS630	10	5	5	1,00E+000
Proteobacteria	Neisseria_gonorrhoeae_NCCP11945_chromosome_NC_011035	IS630	8	4	4	1,00E+000
Actinobacteria	Saccharopolyspora_erythraea_NRRL_2338_chromosome_NC_009142	IS630	14	7	7	1,00E+000
Proteobacteria	Shewanella_frigidimarina_NCIMB_400_chromosome_NC_008345	IS630	8	4	4	1,00E+000
Proteobacteria	Shigella_sonnei_53G_NC_016822	IS630	12	6	6	1,00E+000
Proteobacteria	Sinorhizobium_fredii_HH103_NC_016812	IS630	8	4	4	1,00E+000
Proteobacteria	Sinorhizobium_meliloti_1021_NC_003047	IS630	6	3	3	1,00E+000
Proteobacteria	Sphingobium_japonicum_UT26S_chromosome_1_NC_014006	IS630	6	3	3	1,00E+000
Firmicutes	Streptococcus_suis_98HAH33_NC_009443	IS630	6	3	3	1,00E+000
Proteobacteria	Verminephrobacter_eiseniae_EF01-2_chromosome_NC_008786	IS630	22	11	11	1,00E+000
Cyanobacteria	Anabaena_variabilis_ATCC_29413_chromosome_NC_007413	IS630	11	5	6	1,00E+000
Firmicutes	Anoxybacillus_flavithermus_WK1_chromosome_NC_011567	IS630	9	5	4	1,00E+000
Bacteroidetes	Flexibacter_litoralis_DSM_6794_chromosome_NC_018018	IS630	7	4	3	1,00E+000
Proteobacteria	Methylobacterium_nodulans_ORIS_2060_chromosome_NC_011894	IS630	15	8	7	1,00E+000
Proteobacteria	Methylobacterium_sp._4-46_chromosome_NC_010511	IS630	7	4	3	1,00E+000
Proteobacteria	Nitrobacter_hamburgensis_X14_chromosome_NC_007964	IS630	15	8	7	1,00E+000
Proteobacteria	Nitrosococcus_halophilus_Nc4_chromosome_NC_013960	IS630	9	5	4	1,00E+000
Chlorobi	Pelodictyon_phaeoclathratiforme_BU-1_chromosome_NC_011060	IS630	9	5	4	1,00E+000
Proteobacteria	Shewanella_putrefaciens_200_chromosome_NC_017566	IS630	9	4	5	1,00E+000
Proteobacteria	Sphingobium_sp._SYK-6_NC_015976	IS630	9	4	5	1,00E+000
Actinobacteria	Streptomyces_avermitilis_MA-4680_NC_003155	IS630	9	4	5	1,00E+000
Actinobacteria	Streptosporangium_roseum_DSM_43021_chromosome_NC_013595	IS630	11	6	5	1,00E+000
Proteobacteria	Nitrosococcus_oceani_ATCC_19707_chromosome_NC_007484	IS630	23	12	11	1,00E+000
Proteobacteria	Francisella_tularensis_subsp._holarctica_FTNF002-00_chromosome_NC_009749	IS630	57	29	28	1,00E+000
Proteobacteria	Escherichia_coli_ETEC_H10407_NC_017633	IS66a	16	13	3	2,13E-002
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS66a	10	9	1	2,15E-002
Proteobacteria	Acidithiobacillus_calidus_SM-1_chromosome_NC_015850	IS66a	6	6	0	3,13E-002
Firmicutes	Lactobacillus_amylovorus_GRL_1112_chromosome_NC_014724	IS66a	8	1	7	7,03E-002
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_II_NC_009784	IS66a	23	16	7	9,31E-002
Proteobacteria	Pseudomonas_syringae_pv._tomato_str._DC3000_chromosome_NC_004578	IS66a	35	22	13	1,75E-001
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS66a	14	4	10	1,80E-001
Proteobacteria	Rhodomicrobium_vannielii_ATCC_17100_chromosome_NC_014664	IS66a	14	4	10	1,80E-001
Proteobacteria	Desulfatibacillum_alkenivorans_AK-01_chromosome_NC_011768	IS66a	9	7	2	1,80E-001
Proteobacteria	Desulfovibrio_magneticus_RS-1_NC_012796	IS66a	9	7	2	1,80E-001
Proteobacteria	Gamma_proteobacterium_HdN1_chromosome_NC_014366	IS66a	6	1	5	2,19E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS66a	6	5	1	2,19E-001
Proteobacteria	Stigmatella_aurantiaca_DW4/3-1_chromosome_NC_014623	IS66a	11	3	8	2,27E-001
Proteobacteria	Citrobacter_rodentium_ICC168_NC_013716	IS66a	22	8	14	2,86E-001
Proteobacteria	Magnetococcus_sp._MC-1_chromosome_NC_008576	IS66a	17	11	6	3,32E-001
Firmicutes	Ethanoligenens_harbinense_YUAN-3_chromosome_NC_014828	IS66a	10	7	3	3,44E-001
Proteobacteria	Sinorhizobium_fredii_USDA_257_chromosome_NC_018000	IS66a	10	3	7	3,44E-001
Proteobacteria	Alicyclophilus_denitrificans_K601_chromosome_NC_015422	IS66a	7	5	2	4,53E-001
Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_I_NC_007651	IS66a	7	5	2	4,53E-001
Proteobacteria	Gluconacetobacter_xylinus_NBRC_3288_NC_016027	IS66a	7	5	2	4,53E-001
Proteobacteria	Shigella_flexneri_2a_str._2457T_NC_004741	IS66a	7	5	2	4,53E-001
Proteobacteria	Sinorhizobium_meliloti_AK83_chromosome_3_NC_015591	IS66a	7	2	5	4,53E-001
Proteobacteria	Photobacterium_profundum_SS9_chromosome_1_NC_006370	IS66a	6	2	4	6,88E-001
Firmicutes	Ruminococcus_albus_7_chromosome_NC_014833	IS66a	8	5	3	7,27E-001
Proteobacteria	Burkholderia_xenovorans_LB400_chromosome_1_NC_007951	IS66a	10	4	6	7,54E-001
Proteobacteria	Vibrio_anguillarum_775_chromosome_chromosome_I_NC_015633	IS66a	10	4	6	7,54E-001
Proteobacteria	Shigella_boydii_CDC_3083-94_chromosome_NC_010658	IS66a	43	23	20	7,61E-001
Proteobacteria	Vibrio_harveyi_ATCC_BAA-1116_chromosome_chromosome_I_NC_009783	IS66a	34	18	16	8,64E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS66a	40	21	19	8,75E-001
Proteobacteria	Acetobacter_pasteurianus_IFO_3283-01_NC_013209	IS66a	6	3	3	1,00E+000
Bacteroidetes	Bacteroides_vulgatus_ATCC_8482_chromosome_NC_009614	IS66a	6	3	3	1,00E+000
Proteobacteria	Bradyrhizobium_sp._BTAi1_chromosome_NC_009485	IS66a	8	4	4	1,00E+000
Proteobacteria	Cellvibrio_japonicus_Ueda107_chromosome_NC_010995	IS66a	12	6	6	1,00E+000
Proteobacteria	Ochrobactrum_anthropi_ATCC_49188_chromosome_chromosome_1_NC_009667	IS66a	6	3	3	1,00E+000
Proteobacteria	Pseudomonas_fluorescens_F113_chromosome_NC_016830	IS66a	8	4	4	1,00E+000
Proteobacteria	Pseudomonas_putida_KT2440_chromosome_NC_002947	IS66a	12	6	6	1,00E+000
Proteobacteria	Rhodobacter_sphaeroides_ATCC_17025_chromosome_NC_009428	IS66a	6	3	3	1,00E+000
Proteobacteria	Roseobacter_litoralis_Och_149_chromosome_NC_015730	IS66a	6	3	3	1,00E+000
Proteobacteria	Sorangium_cellulosum_'So_ce_56'_chromosome_NC_010162	IS66a	12	6	6	1,00E+000
Proteobacteria	Alcanivorax_dieselolei_B5_chromosome_NC_018691	IS66a	7	3	4	1,00E+000
Firmicutes	Alicyclobacillus_acidocaldarius_subsp._acidocaldarius_Tc-4-1_chromosome_NC_017167	IS66a	11	6	5	1,00E+000
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	IS66a	9	5	4	1,00E+000
Bacteroidetes	Bacteroides_salanitronis_DSM_18170_chromosome_NC_015164	IS66a	7	4	3	1,00E+000
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS66a	7	3	4	1,00E+000
Proteobacteria	Nitrosomonas_sp._AL212_chromosome_NC_015222	IS66a	11	5	6	1,00E+000
Proteobacteria	Pseudomonas_mendocina_ymc_chromosome_NC_009439	IS66a	11	5	6	1,00E+000
Proteobacteria	Pseudomonas_stutzeri_A1501_chromosome_NC_009434	IS66a	7	4	3	1,00E+000
Proteobacteria	Pusillimonas_sp._T7-7_chromosome_NC_015458	IS66a	9	5	4	1,00E+000
Proteobacteria	Rhizobium_etli_CFN_42_NC_007761	IS66a	7	4	3	1,00E+000
Proteobacteria	Shewanella_putrefaciens_200_chromosome_NC_017566	IS66a	9	4	5	1,00E+000
Bacteroidetes	Belliella_baltica_DSM_15883_chromosome_NC_018010	IS66b	20	13	7	2,63E-001
Firmicutes	Anoxybacillus_flavithermus_WK1_chromosome_NC_011567	IS66b	9	3	6	5,08E-001
Cyanobacteria	Cyanothece_sp._PCC_7425_chromosome_NC_011884	IS66b	21	12	9	6,64E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS66b	8	3	5	7,27E-001
Actinobacteria	Frankia_symbiont_of_Datisca_glomerata_chromosome_NC_015656	IS66b	26	12	14	8,45E-001
Proteobacteria	Methylobacterium_nodulans_ORIS_2060_chromosome_NC_011894	IS66b	6	3	3	1,00E+000

Proteobacteria	Wolbachia_sp._wRi_NC_012416	IS66b	22	11	11	1,00E+000
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	IS66b	9	5	4	1,00E+000
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_PXO99A_chromosome_NC_010717	IS701	95	33	62	3,83E-003
Proteobacteria	Magnetococcus_sp._MC-1_chromosome_NC_008576	IS701	18	15	3	7,54E-003
Actinobacteria	Streptomyces_avermitilis_MA-4680_NC_003155	IS701	12	2	10	3,86E-002
Cyanobacteria	Synechocystis_sp._PCC_6803_chromosome_NC_000911	IS701	9	2	7	1,80E-001
Firmicutes	Alkaliphilus_metalliredigens_QYMF_chromosome_NC_009633	IS701	8	6	2	2,89E-001
Proteobacteria	Acetobacter_pasteurianus_IFO_3283-01_NC_013209	IS701	10	7	3	3,44E-001
Actinobacteria	Kitasatospora_setae_KM-6054_NC_016109	IS701	10	3	7	3,44E-001
Firmicutes	Lactobacillus_delbrueckii_subsp._bulgaricus_ND02_chromosome_NC_014727	IS701	10	7	3	3,44E-001
Actinobacteria	Streptomyces_bingchenggensis_BCW-1_chromosome_NC_016582	IS701	10	7	3	3,44E-001
Actinobacteria	Actinoplanes_missouriensis_431_NC_017093	IS701	12	8	4	3,88E-001
Firmicutes	Clostridium_clariflavum_DSM_19732_chromosome_NC_016627	IS701	14	5	9	4,24E-001
Deferribacteres	Denitrovibrio_acetiphilus_DSM_12809_chromosome_NC_013943	IS701	14	9	5	4,24E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	IS701	35	20	15	5,00E-001
Proteobacteria	Thiocystis_violascens_DSM_198_chromosome_NC_018012	IS701	11	4	7	5,49E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	IS701	15	9	6	6,07E-001
Proteobacteria	Desulfomonile_tiedjei_DSM_6799_chromosome_NC_018025	IS701	17	7	10	6,29E-001
Proteobacteria	Myxococcus_xanthus_DK_1622_chromosome_NC_008095	IS701	6	2	4	6,88E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS701	6	4	2	6,88E-001
Actinobacteria	Streptomyces_hygroscopicus_subsp._jinggangensis_5008_chromosome_NC_017765	IS701	25	11	14	6,90E-001
Proteobacteria	Geobacter_uraniireducens_Rf4_chromosome_NC_009483	IS701	8	3	5	7,27E-001
Cyanobacteria	Nostoc_punctiforme_PCC_73102_chromosome_NC_010628	IS701	10	6	4	7,54E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	IS701	22	11	11	1,00E+000
Planctomycetes	Rhodopirellula_baltica_SH_1_chromosome_NC_005027	IS701	10	5	5	1,00E+000
Proteobacteria	Sulfurospirillum_deleyianum_DSM_6946_chromosome_NC_013512	IS701	8	4	4	1,00E+000
Actinobacteria	Actinoplanes_sp._SE50/110_chromosome_NC_017803	IS701	9	5	4	1,00E+000
Chloroflexi	Roseiflexus_castenholzii_DSM_13941_chromosome_NC_009767	IS701	7	3	4	1,00E+000
Proteobacteria	Stigmatella_aurantiaca_DW4/3-1_chromosome_NC_014623	IS701	7	4	3	1,00E+000
Fusobacteria	Streptobacillus_moniliformis_DSM_12112_chromosome_NC_013515	IS91	10	0	10	1,95E-003
Proteobacteria	Shigella_flexneri_2002017_chromosome_NC_017328	IS91	7	0	7	1,56E-002
Proteobacteria	Vibrio_anguillarum_775_chromosome_II_NC_015637	IS91	6	0	6	3,13E-002
Proteobacteria	Geobacter_uraniireducens_Rf4_chromosome_NC_009483	IS91	8	1	7	7,03E-002
Proteobacteria	Photobacterium_profundum_SS9_chromosome_2_NC_006371	IS91	6	1	5	2,19E-001
Planctomycetes	Rhodopirellula_baltica_SH_1_chromosome_NC_005027	IS91	9	3	6	5,08E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_2_NC_011313	IS91	21	12	9	6,64E-001
Proteobacteria	Sorangium_cellulosum_'So_ce_56'_chromosome_NC_010162	IS91	6	2	4	6,88E-001
Proteobacteria	Desulfobacula_toluolica_Tol2_NC_018645	IS91	10	6	4	7,54E-001
Proteobacteria	Desulfobacterium_autotrophicum_HRM2_chromosome_NC_012108	IS91	10	5	5	1,00E+000
Firmicutes	Oscillibacter_valericigenes_Sjm18-20_NC_016048	IS91	9	5	4	1,00E+000
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS91	21	10	11	1,00E+000
Proteobacteria	Photorhabdus_asymbiotica_subsp._asymbiotica_ATCC_43949_chromosome_NC_012962	IS982	8	1	7	7,03E-002
Proteobacteria	Acinetobacter_baumannii_SDF_chromosome_NC_010400	IS982	141	79	62	1,78E-001
Bacteroidetes	Bacteroides_vulgatus_ATCC_8482_chromosome_NC_009614	IS982	6	5	1	2,19E-001
Firmicutes	Geobacillus_thermoglucosidasius_C56-YS93_chromosome_NC_015660	IS982	6	1	5	2,19E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	IS982	8	2	6	2,89E-001
Proteobacteria	Candidatus_Rickettsia_amblyommii_str._GAT-30V_chromosome_NC_017028	IS982	12	8	4	3,88E-001
Firmicutes	Lactobacillus_helveticus_DPC_4571_NC_010080	IS982	12	8	4	3,88E-001
Bacteroidetes	Prevotella_intermedia_17_chromosome_chromosome_I_NC_017860	IS982	7	5	2	4,53E-001
Firmicutes	Clostridium_cellulovorans_743B_chromosome_NC_014393	IS982	29	12	17	4,58E-001
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	IS982	20	8	12	5,03E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_1_NC_011312	IS982	43	19	24	5,42E-001
Proteobacteria	Wolbachia_endosymbiont_of_Culex_quinquefasciatus_Pel_chromosome_NC_010981	IS982	46	25	21	6,59E-001
Firmicutes	Geobacillus_kaustophilus_HTA426_chromosome_NC_006510	IS982	6	2	4	6,88E-001
Firmicutes	Lactobacillus_amylovorus_GRL_1112_chromosome_NC_014724	IS982	6	2	4	6,88E-001
Proteobacteria	Nitrosomonas_europaea_ATCC_19718_chromosome_NC_004757	IS982	6	4	2	6,88E-001
Proteobacteria	Shewanella_denitrificans_OS217_NC_007954	IS982	8	5	3	7,27E-001
Firmicutes	Streptococcus_dysgalactiae_subsp._equisimilis_GGS_124_chromosome_chromosome_1_NC_010101	IS982	8	5	3	7,27E-001
Proteobacteria	Candidatus_Midichloria_mitochondrii_IricVA_chromosome_NC_015722	IS982	39	18	21	7,49E-001
Bacteroidetes	Candidatus_Amoebophilus_asiaticus_5a2_chromosome_NC_010830	IS982	10	6	4	7,54E-001
Proteobacteria	Rickettsia_massiliae_str._AZT80_chromosome_NC_016931	IS982	10	6	4	7,54E-001
Proteobacteria	Methylophaga_sp._JAM1_chromosome_NC_017857	IS982	12	7	5	7,74E-001
Bacteroidetes	Flavobacterium_columnare_ATCC_49512_chromosome_NC_016510	IS982	14	8	6	7,91E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	IS982	16	9	7	8,04E-001
Chlamydiae	Candidatus_Protochlamydia_amoebophila_UWE25_chromosome_NC_005861	IS982	20	11	9	8,24E-001
Proteobacteria	Aliivibrio_salmonicida_LF11238_chromosome_chromosome_2_NC_011313	IS982	14	7	7	1,00E+000
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	IS982	10	5	5	1,00E+000
Deinococcus-Thermus	Meiothermus_ruber_DSM_1279_chromosome_NC_013946	IS982	6	3	3	1,00E+000
Proteobacteria	Psychrobacter_arcticus_273-4_chromosome_NC_007204	IS982	10	5	5	1,00E+000
Proteobacteria	Rickettsia_rhipicephali_str._3-7-female6-CWPP_chromosome_NC_017042	IS982	12	6	6	1,00E+000
Firmicutes	Clostridium_thermocellum_ATCC_27405_chromosome_NC_009012	IS982	7	4	3	1,00E+000
Bacteroidetes	Haliscomenobacter_hydrossis_DSM_1100_chromosome_NC_015510	IS982	7	3	4	1,00E+000
Cyanobacteria	Nostoc_sp._PCC_7120_chromosome_NC_003272	IS982	9	5	4	1,00E+000
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	IS982	17	9	8	1,00E+000
Bacteroidetes	Prevotella_intermedia_17_chromosome_chromosome_II_NC_017861	IS982	15	7	8	1,00E+000
Actinobacteria	Pseudonocardia_dioxanivorans_CB1190_chromosome_NC_015312	IS982	7	3	4	1,00E+000
Aquificae	Sulfurihydrogenibium_azorense_Az-Fu1_chromosome_NC_012438	IS982	7	3	4	1,00E+000
Proteobacteria	Orientia_tsutsugamushi_str._lkeda_NC_010793	IS982	49	25	24	1,00E+000
Bacteroidetes	Porphyromonas_gingivalis_ATCC_33277_NC_010729	IS982	27	14	13	1,00E+000
Firmicutes	Streptococcus_pyogenes_MGAS9429_chromosome_NC_008021	ISAs1	8	8	0	7,81E-003
Proteobacteria	Escherichia_coli_ETEC_H10407_NC_017633	ISAs1	7	7	0	1,56E-002
Firmicutes	Bacillus_coagulans_36D1_chromosome_NC_016023	ISAs1	6	6	0	3,13E-002
Proteobacteria	Thiocystis_violascens_DSM_198_chromosome_NC_018012	ISAs1	23	6	17	3,47E-002
Proteobacteria	Acidiphilium_multivorum_AIU301_NC_015186	ISAs1	6	5	1	2,19E-001

Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	ISAs1	18	12	6	2,38E-001
Firmicutes	Kyrpidia_tusciae_DSM_2912_chromosome_NC_014098	ISAs1	8	6	2	2,89E-001
Actinobacteria	Mycobacterium_ulcerans_Agy99_chromosome_NC_008611	ISAs1	185	100	85	3,03E-001
Deinococcus-Thermus	Meiothermus_silvanus_DSM_9946_chromosome_NC_014212	ISAs1	24	15	9	3,07E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	ISAs1	19	12	7	3,59E-001
Proteobacteria	Aromatoleum_aromaticum_EbN1_chromosome_NC_006513	ISAs1	12	8	4	3,88E-001
Proteobacteria	Rhodospirillum_centenum_SW_chromosome_NC_011420	ISAs1	14	5	9	4,24E-001
Proteobacteria	Nitrosomonas_sp._Is79A3_chromosome_NC_015731	ISAs1	7	2	5	4,53E-001
Deinococcus-Thermus	Thermus_scotoductus_SA-01_chromosome_NC_014974	ISAs1	7	2	5	4,53E-001
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	ISAs1	7	5	2	4,53E-001
Actinobacteria	Frankia_sp._Ccl3_chromosome_NC_007777	ISAs1	31	13	18	4,73E-001
Proteobacteria	Azospirillum_sp._B510_chromosome_NC_013854	ISAs1	9	3	6	5,08E-001
Proteobacteria	Legionella_pneumophila_subsp._pneumophila_NC_018140	ISAs1	9	6	3	5,08E-001
Proteobacteria	Acidithiobacillus_ferroxidans_ATCC_53993_chromosome_NC_011206	ISAs1	24	10	14	5,41E-001
Cyanobacteria	Cyanothece_sp._PCC_7425_chromosome_NC_011884	ISAs1	6	2	4	6,88E-001
Firmicutes	Streptococcus_agalactiae_2603V/R_chromosome_NC_004116	ISAs1	6	4	2	6,88E-001
Firmicutes	Streptococcus_dysgalactiae_subsp._equisimilis_RE378_NC_018712	ISAs1	6	4	2	6,88E-001
Chlamydiae	Waddlia_chondrophila_WSU_86-1044_chromosome_NC_014225	ISAs1	6	4	2	6,88E-001
Proteobacteria	Xenorhabdus_bovienii_SS-2004_chromosome_NC_013892	ISAs1	8	3	5	7,27E-001
Proteobacteria	Shewanella_baltica_OS223_chromosome_NC_011663	ISAs1	34	18	16	8,64E-001
Proteobacteria	Alteromonas_sp._SN2_chromosome_NC_015554	ISAs1	8	4	4	1,00E+000
Actinobacteria	Micrococcus_phosphovorus_NM-1_NC_015635	ISAs1	12	6	6	1,00E+000
Bacteroidetes	Porphyromonas_gingivalis_W83_chromosome_NC_002950	ISAs1	6	3	3	1,00E+000
Bacteroidetes	Psychroflexus_torquis_ATCC_700755_chromosome_NC_018721	ISAs1	8	4	4	1,00E+000
Proteobacteria	Sinorhizobium_meliloti_SM11_chromosome_NC_017325	ISAs1	13	7	6	1,00E+000
Proteobacteria	Thauera_sp._MZ1T_chromosome_NC_011662	ISAs1	7	3	4	1,00E+000
Spirochaetes	Treponema_succinifaciens_DSM_2489_chromosome_NC_015385	ISAs1	11	6	5	1,00E+000
Cyanobacteria	Nostoc_punctiforme_PCC_73102_chromosome_NC_010628	ISAzo13	9	7	2	1,80E-001
Chlorobi	Chlorobium_phaeobacteroides_DSM_266_chromosome_NC_008639	ISAzo13	11	6	5	1,00E+000
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	ISAzo13	17	8	9	1,00E+000
Firmicutes	Streptococcus_pneumoniae_JJA_NC_012466	ISL3	20	0	20	1,91E-006
Firmicutes	Streptococcus_thermophilus_ND03_chromosome_NC_017563	ISL3	21	1	20	2,10E-005
Firmicutes	Lactobacillus_reuteri_SD2112_chromosome_NC_015697	ISL3	21	2	19	2,21E-004
Firmicutes	Streptococcus_macedonicus_ACA-DC_198_NC_016749	ISL3	23	3	20	4,88E-004
Firmicutes	Streptococcus_suis_D9_chromosome_NC_017620	ISL3	9	0	9	3,91E-003
Firmicutes	Bacillus_halodurans_C-125_chromosome_NC_002570	ISL3	40	29	11	6,43E-003
Firmicutes	Acidaminococcus_intestini_RyC-MR95_chromosome_NC_016077	ISL3	32	8	24	7,00E-003
Actinobacteria	Gordonia_polyisoprenivorans_VH2_chromosome_NC_016906	ISL3	7	0	7	1,56E-002
Firmicutes	Lactobacillus_helveticus_R0052_chromosome_NC_018528	ISL3	19	4	15	1,92E-002
Firmicutes	Streptococcus_salivarius_CCHSS3_NC_015760	ISL3	10	1	9	2,15E-002
Firmicutes	Lactobacillus_crispatus_ST1_NC_014106	ISL3	6	0	6	3,13E-002
Firmicutes	Enterococcus_faecium_DO_chromosome_NC_017960	ISL3	15	3	12	3,52E-002
Proteobacteria	Geobacter_metallireducens_GS-15_chromosome_NC_007517	ISL3	25	18	7	4,33E-002
Firmicutes	Clostridium_phytofermentans_ISDg_chromosome_NC_010001	ISL3	11	2	9	6,54E-002
Proteobacteria	Syntrophus_aciditrophicus_SB_chromosome_NC_007759	ISL3	13	10	3	9,23E-002
Firmicutes	Lactobacillus_amylovorus_GRL_1112_chromosome_NC_014724	ISL3	7	1	6	1,25E-001
Firmicutes	Acetobacterium_woodii_DSM_1030_chromosome_NC_016894	ISL3	9	7	2	1,80E-001
Bacteroidetes	Flavobacterium_columnare_ATCC_49512_chromosome_NC_016510	ISL3	9	2	7	1,80E-001
Firmicutes	Geobacillus_sp._WCH70_chromosome_NC_012793	ISL3	9	2	7	1,80E-001
Proteobacteria	Pusillimonas_sp._T7-7_chromosome_NC_015458	ISL3	9	7	2	1,80E-001
Chrysiogenetes	Desulfurispirillum_indicum_S5_chromosome_NC_014836	ISL3	6	5	1	2,19E-001
Firmicutes	Enterococcus_faecalis_62_chromosome_NC_017312	ISL3	6	5	1	2,19E-001
Firmicutes	Lactobacillus_johnsonii_NCC_533_NC_005362	ISL3	6	1	5	2,19E-001
Proteobacteria	Pseudomonas_stutzeri_DSM_4166_chromosome_NC_017532	ISL3	11	8	3	2,27E-001
Actinobacteria	Arthrobacter_arilaitensis_Re117_chromosome_NC_014550	ISL3	45	27	18	2,33E-001
Proteobacteria	Burkholderia_mallei_ATCC_23344_chromosome_1_NC_006348	ISL3	13	4	9	2,67E-001
Synergistetes	Anaerobaculum_mobile_DSM_13181_chromosome_NC_018024	ISL3	8	6	2	2,89E-001
Actinobacteria	Intrasporangium_calvum_DSM_43043_chromosome_NC_014830	ISL3	8	6	2	2,89E-001
Firmicutes	Oceanobacillus_ihayensis_HTE831_chromosome_NC_004193	ISL3	8	6	2	2,89E-001
Firmicutes	Streptococcus_infantarius_subsp._infantarius_CJ18_chromosome_NC_016826	ISL3	8	2	6	2,89E-001
Firmicutes	Staphylococcus_haemolyticus_JCSC1435_chromosome_NC_007168	ISL3	33	13	20	2,96E-001
Cyanobacteria	Acaryochloris_marina_MBIC11017_chromosome_NC_009925	ISL3	10	7	3	3,44E-001
Firmicutes	Lactobacillus_buchneri_NRRL_B-30929_chromosome_NC_015428	ISL3	19	7	12	3,59E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	ISL3	44	25	19	4,51E-001
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	ISL3	7	5	2	4,53E-001
Actinobacteria	Mycobacterium_gilvum_PYR-GCK_chromosome_NC_009338	ISL3	7	2	5	4,53E-001
Bacteroidetes	Runella_slithyformis_DSM_19594_chromosome_NC_015703	ISL3	7	2	5	4,53E-001
Firmicutes	Staphylococcus_pseudintermedius_ED99_chromosome_NC_017568	ISL3	7	5	2	4,53E-001
Proteobacteria	Geobacter_uraniireducens_Rf4_chromosome_NC_009483	ISL3	16	6	10	4,54E-001
Actinobacteria	Nakamurella_multipartita_DSM_44233_chromosome_NC_013235	ISL3	18	7	11	4,81E-001
Firmicutes	Lactobacillus_casei_ATCC_334_NC_008526	ISL3	9	3	6	5,08E-001
Actinobacteria	Mycobacterium_smegmatis_str._MC2_155_chromosome_NC_018289	ISL3	22	9	13	5,23E-001
Proteobacteria	Pseudomonas_mendocina_ymc_chromosome_NC_009439	ISL3	13	5	8	5,81E-001
Firmicutes	Lactobacillus_salivarius_CECT_5713_chromosome_NC_017481	ISL3	21	9	12	6,64E-001
Actinobacteria	Bifidobacterium_animalis_subsp._lactis_AD011_chromosome_NC_011835	ISL3	6	2	4	6,88E-001
Actinobacteria	Corynebacterium_glutamicum_ATCC_13032_uid57905_NC_003450	ISL3	6	4	2	6,88E-001
Bacteroidetes	Fluviicola_taffensis_DSM_16823_chromosome_NC_015321	ISL3	6	2	4	6,88E-001
Actinobacteria	Frankia_sp._EAN1pec_chromosome_NC_009921	ISL3	6	2	4	6,88E-001
Firmicutes	Lactobacillus_kefiranofaciens_ZW3_chromosome_NC_015602	ISL3	6	2	4	6,88E-001
Proteobacteria	Legionella_pneumophila_str._Corby_chromosome_NC_009494	ISL3	6	4	2	6,88E-001
Actinobacteria	Mycobacterium_bovis_AF2122/97_chromosome_NC_002945	ISL3	6	2	4	6,88E-001
Actinobacteria	Mycobacterium_tuberculosis_CDC1551_chromosome_NC_002755	ISL3	6	4	2	6,88E-001
Bacteroidetes	Porphyromonas_asaccharolytica_DSM_20707_chromosome_NC_015501	ISL3	6	4	2	6,88E-001
Bacteroidetes	Bacteroides_vulgatus_ATCC_8482_chromosome_NC_009614	ISL3	8	5	3	7,27E-001

Proteobacteria	Burkholderia_thailandensis_E264_chromosome_chromosome_I_NC_007651	ISL3	8	5	3	7,27E-001
Thermotogae	Fervidobacterium_nodosum_Rt17-B1_chromosome_NC_009718	ISL3	8	3	5	7,27E-001
Proteobacteria	Methylomicrobium_alcaliphilum_chromosome_NC_016112	ISL3	8	5	3	7,27E-001
Chlorobi	Chlorobium_phaeobacteroides_DSM_266_chromosome_NC_008639	ISL3	10	6	4	7,54E-001
Firmicutes	Geobacillus_thermodenitrificans_NG80-2_chromosome_NC_009328	ISL3	10	6	4	7,54E-001
Firmicutes	Staphylococcus_aureus_subsp._aureus_Mu50_chromosome_NC_002758	ISL3	10	6	4	7,54E-001
Actinobacteria	Micrococcus_luteus_NCTC_2665_NC_012803	ISL3	16	9	7	8,04E-001
Actinobacteria	Kytococcus_sedentarius_DSM_20547_chromosome_NC_013169	ISL3	20	9	11	8,24E-001
Proteobacteria	Bordetella_parapertussis_12822_chromosome_NC_002928	ISL3	22	12	10	8,32E-001
Chlorobi	Chlorobium_chlorochromatii_CaD3_chromosome_NC_007514	ISL3	14	7	7	1,00E+000
Actinobacteria	Corynebacterium_variabile_DSM_44702_chromosome_NC_015859	ISL3	26	13	13	1,00E+000
Proteobacteria	Desulfohalobium_retbaense_DSM_5692_chromosome_NC_013223	ISL3	10	5	5	1,00E+000
Actinobacteria	Mycobacterium_sp._Spyr1_chromosome_NC_014814	ISL3	8	4	4	1,00E+000
Firmicutes	Streptococcus_mitis_B6_NC_013853	ISL3	6	3	3	1,00E+000
Proteobacteria	Xanthomonas_oryzae_pv._oryzae_KACC10331_chromosome_NC_006834	ISL3	20	10	10	1,00E+000
Actinobacteria	Bifidobacterium_longum_subsp._infantis_ATCC_15697_NC_017219	ISL3	7	3	4	1,00E+000
Actinobacteria	Brachybacterium_faecium_DSM_4810_chromosome_NC_013172	ISL3	7	4	3	1,00E+000
Proteobacteria	Escherichia_coli_ABU_83972_chromosome_NC_017631	ISL3	7	4	3	1,00E+000
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	ISL3	13	6	7	1,00E+000
Actinobacteria	Gordonia_bronchialis_DSM_43247_chromosome_NC_013441	ISL3	7	3	4	1,00E+000
Firmicutes	Lactobacillus_fermentum_CECT_5716_chromosome_NC_017465	ISL3	9	4	5	1,00E+000
Firmicutes	Lactobacillus_plantarum_subsp._plantarum_ST-III_chromosome_NC_014554	ISL3	9	4	5	1,00E+000
Actinobacteria	Mycobacterium_canettii_CIPT_140010059_NC_015848	ISL3	13	6	7	1,00E+000
Proteobacteria	Acidithiobacillus_calidus_SM-1_chromosome_NC_015850	ISL3	39	20	19	1,00E+000
Actinobacteria	Propionibacterium_freudenreichii_subsp._shermanii_CIRM-BIA1_chromosome_NC_014215	ISL3	27	14	13	1,00E+000
Firmicutes	Caldicellulosiruptor_bescii_DSM_6725_chromosome_NC_012034	ISNCYa	10	10	0	1,95E-003
Firmicutes	Bacillus_coagulans_36D1_chromosome_NC_016023	ISNCYa	11	10	1	1,17E-002
Proteobacteria	Magnetococcus_sp._MC-1_chromosome_NC_008576	ISNCYa	10	9	1	2,15E-002
Firmicutes	Caldicellulosiruptor_kronotskyensis_2002_chromosome_NC_014720	ISNCYa	6	6	0	3,13E-002
Firmicutes	Desulfotomaculum_kuznetsovii_DSM_6115_chromosome_NC_015573	ISNCYa	12	10	2	3,86E-002
Firmicutes	Geobacillus_thermoleovorans_CCB_US3_UF5_chromosome_NC_016593	ISNCYa	9	8	1	3,91E-002
Firmicutes	Desulfotomaculum_acetoxidans_DSM_771_chromosome_NC_013216	ISNCYa	8	7	1	7,03E-002
Firmicutes	Thermoanaerobacterium_thermosaccharolyticum_DSM_571_chromosome_NC_014410	ISNCYa	8	7	1	7,03E-002
Cyanobacteria	Anabaena_variabilis_ATCC_29413_chromosome_NC_007413	ISNCYa	7	1	6	1,25E-001
Firmicutes	Geobacillus_sp._Y412MC61_chromosome_NC_013411	ISNCYa	7	6	1	1,25E-001
Proteobacteria	Sodalis_glossinidius_str._'morsitans'_chromosome_NC_007712	ISNCYa	7	1	6	1,25E-001
Firmicutes	Caldicellulosiruptor_owensensis_OL_chromosome_NC_014657	ISNCYa	6	5	1	2,19E-001
Firmicutes	Caldicellulosiruptor_saccharolyticus_DSM_8903_chromosome_NC_009437	ISNCYa	11	8	3	2,27E-001
Firmicutes	Moorella_thermoacetica_ATCC_39073_chromosome_NC_007644	ISNCYa	8	2	6	2,89E-001
Cyanobacteria	Microcystis_aeruginosa_NIES-843_chromosome_NC_010296	ISNCYa	26	16	10	3,27E-001
Proteobacteria	Photorhabdus_luminescens_subsp._laumondii_TTO1_NC_005126	ISNCYa	10	7	3	3,44E-001
Cyanobacteria	Nostoc_punctiforme_PCC_73102_chromosome_NC_010628	ISNCYa	7	2	5	4,53E-001
Aquificae	Sulfurihydrogenibium_azorense_Az-Fu1_chromosome_NC_012438	ISNCYa	11	4	7	5,49E-001
Proteobacteria	Orientia_tsutsugamushi_str._lkeda_NC_010793	ISNCYa	17	7	10	6,29E-001
Firmicutes	Caldicellulosiruptor_hydrothermalis_108_chromosome_NC_014652	ISNCYa	6	4	2	6,88E-001
Proteobacteria	Escherichia_coli_ATCC_8739_chromosome_NC_010468	ISNCYa	6	4	2	6,88E-001
Proteobacteria	Klebsiella_oxytoca_E718_chromosome_NC_018106	ISNCYa	6	4	2	6,88E-001
Cyanobacteria	Gloeobacter_violaceus_PCC_7421_chromosome_NC_005125	ISNCYa	8	3	5	7,27E-001
Proteobacteria	Rickettsia_bellii_RML369-C_chromosome_NC_007940	ISNCYa	8	3	5	7,27E-001
Proteobacteria	Haliangium_ochraceum_DSM_14365_chromosome_NC_013440	ISNCYa	12	5	7	7,74E-001
Proteobacteria	Escherichia_fergusonii_ATCC_35469_chromosome_NC_011740	ISNCYa	6	3	3	1,00E+000
Proteobacteria	Klebsiella_pneumoniae_KCTC_2242_chromosome_NC_017540	ISNCYa	6	3	3	1,00E+000
Cyanobacteria	Cyanothece_sp._PCC_7425_chromosome_NC_011884	ISNCYa	11	6	5	1,00E+000
Proteobacteria	Klebsiella_pneumoniae_subsp._pneumoniae_MGH_78578_chromosome_NC_009648	ISNCYa	7	3	4	1,00E+000
Cyanobacteria	Nostoc_sp._PCC_7120_chromosome_NC_003272	ISNCYa	9	5	4	1,00E+000
Actinobacteria	Corynebacterium_jeikeium_K411_chromosome_NC_007164	ISNCYb	19	3	16	4,43E-003
Actinobacteria	Corynebacterium_urealyticum_DSM_7109_chromosome_NC_010545	ISNCYb	19	6	13	1,67E-001
Actinobacteria	Corynebacterium_resistens_DSM_45100_chromosome_NC_015673	ISNCYb	22	11	11	1,00E+000
Proteobacteria	Xenorhabdus_nematophila_ATCC_19061_chromosome_NC_014228	Tn3	8	2	6	2,89E-001
Proteobacteria	Acidovorax_sp._JS42_chromosome_NC_008782	Tn3	6	3	3	1,00E+000