

Table S4. Bacteria mRNA (and other non-rRNA) gene sequences from V5.

Sequence ID	Q length	Q start	Q end	e-value	%-ident	%-sim	GI hit	Domain	Phylum	Class/Order	Genus/species	Description
GKJWQY101AGGHX	545	5	506	0	97	97	31789410	Bacteria	Acidobacteria	n	uncultured Acidobacteria bacterium	Uncultured Acidobacteria bacterium clone 38c7 genomic sequence
GKJWQY101BLAHS	571	66	567	2E-172	89	89	117647674	Bacteria	Actinobacteria	Actinobacteria_class_	Acidothermus cellulolyticus	Acidothermus cellulolyticus 11B strain 11B, complete genome
GKJWQY101BNKEW	560	16	500	5E-164	89	89	47118314	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium efficiens	Corynebacterium efficiens Y5-314 DNA, complete genome
GKJWQY101BMKQM	251	3	199	2E-75	93	93	140843962	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium glutamicum	Corynebacterium glutamicum R DNA, complete genome
GKJWQY101BNEK2	433	5	376	0	98	98	111147037	Bacteria	Actinobacteria	Actinobacteria_class_	Frankia alni	Frankia alni str. ACN14A chromosome, complete sequence
GKJWQY101ALVRY	500	5	174	2E-102	90	90	115951388	Bacteria	Actinobacteria	Actinobacteria_class_	Arthrobacter aureusens	Arthrobacter aureusens TC1 plasmid TC1, complete sequence
GKJWQY101B2QZ7	448	36	408	1.40E-100	91	91	41019279	Bacteria	Actinobacteria	Actinobacteria_class_	Micromonospora echinospora	Micromonospora echinospora ATCC 15835 gentamicin biosynthesis gene cluster, complete sequence
GKJWQY101BIJUE	542	38	541	3E-180	90	90	145301903	Bacteria	Actinobacteria	Actinobacteria_class_	Salinispora tropica	Salinispora tropica CNB-440, complete genome
GKJWQY101AYY7N	514	17	463	1E-149	89	89	145213092	Bacteria	Actinobacteria	Actinobacteria_class_	Mycobacterium gilvum	Mycobacterium gilvum PYR-GCK, complete genome
GKJWQY101BPOTD	550	202	550	1E-80	83	83	118168627	Bacteria	Actinobacteria	Actinobacteria_class_	Mycobacterium smegmatis	Mycobacterium smegmatis str. MC2 155, complete genome
GKJWQY101AHIKR	502	14	449	3E-81	80	80	126232413	Bacteria	Actinobacteria	Actinobacteria_class_	Mycobacterium sp. JLS	Mycobacterium sp. JLS, complete genome
GKJWQY101B2BHA	504	342	439	1E-39	98	98	76556220	Bacteria	Actinobacteria	Actinobacteria_class_	Propionibacterium freudenreichii	Propionibacterium freudenreichii subsp. shermanii fba2 gene for fructose-bisphosphate aldolase class I
GKJWQY101AE43F	573	18	571	0	91	91	133909243	Bacteria	Actinobacteria	Actinobacteria_class_	Saccharopolyspora erythraea	Saccharopolyspora erythraea NRRL2338 complete genome
GKJWQY101A68QX	413	315	358	0.0000002	93	93	24413764	Bacteria	Actinobacteria	Actinobacteria_class_	Streptomyces coelicolor	Streptomyces coelicolor A3(2) complete genome; segment 9/29
GKJWQY101AH1E9	507	161	482	2E-83	85	85	260644157	Bacteria	Actinobacteria	Actinobacteria_class_	Streptomyces scabiei	Streptomyces scabiei 87.22 complete genome
GKJWQY101BPFIQ	456	17	410	0	96	96	118764602	Bacteria	Actinobacteria	Actinobacteria_class_	Bifidobacterium adolescentis	Bifidobacterium adolescentis ATCC 15703 DNA, complete genome
GKJWQY101AFASU	502	380	494	8E-27	87	87	295793053	Bacteria	Actinobacteria	Actinobacteria_class_	Bifidobacterium animalis	Bifidobacterium animalis subsp. lactis V9, complete genome
GKJWQY101AA46T	615	4	148	2E-29	85	85	291516109	Bacteria	Actinobacteria	Actinobacteria_class_	Bifidobacterium longum	Bifidobacterium longum F8 draft genome
GKJWQY101AAQCE	567	5	522	3E-136	85	85	257473675	Bacteria	Actinobacteria	Actinobacteria_class_	Eggerthella lenta	Eggerthella lenta DSM 2243, complete genome
GKJWQY101B0WJH	576	227	572	4E-115	89	89	295105686	Bacteria	Actinobacteria	Actinobacteria_class_	Gordonia bacter pamelaeae	Gordonia bacter pamelaeae 7-10-1-37 draft genome
GKJWQY101BK67S	547	17	512	6E-148	86	86	108764099	Bacteria	Actinobacteria	Actinobacteria_class_	Rubrobacter xylanophilus	Rubrobacter xylanophilus DSM 9941, complete genome
GKJWQY101ASPOZ	510	4	427	4E-124	86	86	256007408	Bacteria	Actinobacteria	Actinobacteria_class_	Acidimicrobium ferrooxidans	Acidimicrobium ferrooxidans DSM 10331, complete genome
GKJWQY101BNTMX	401	18	370	9E-145	93	93	255918463	Bacteria	Actinobacteria	Actinobacteria_class_	Actinosynnema mirum	Actinosynnema mirum DSM 43827, complete genome
GKJWQY101B0WYX	571	17	571	0	88	88	229564415	Bacteria	Actinobacteria	Actinobacteria_class_	Beutenbergia cavernae	Beutenbergia cavernae DSM 12333, complete genome
GKJWQY101B0GGY	580	18	576	0	94	94	227452846	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium aurumcosum	Corynebacterium aurumcosum ATCC 700975, complete genome
GKJWQY101AE6QS	554	23	549	0	95	95	38200856	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium diphtheriae	Corynebacterium diphtheriae gravis NCTC13129, complete genome; segment 7/8
GKJWQY101BB5P1	574	5	569	0	94	94	68262661	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium jeikeium	Corynebacterium jeikeium K411 complete genome
GKJWQY101BC0IC	557	16	556	3E-175	88	88	237757549	Bacteria	Actinobacteria	Actinobacteria_class_	Corynebacterium kroppenstedtii	Corynebacterium kroppenstedtii DSM 44385, complete genome
GKJWQY101BW5Y7	570	16	565	0	94	94	256558041	Bacteria	Actinobacteria	Actinobacteria_class_	Brachybacterium faecium	Brachybacterium faecium DSM 4810 strain 6-10, complete genome
GKJWQY101A0S1G	597	5	571	0	88	88	256687298	Bacteria	Actinobacteria	Actinobacteria_class_	Kytococcus sedentarius	Kytococcus sedentarius DSM 20547, complete genome
GKJWQY101BI096	589	24	584	0	93	93	284061874	Bacteria	Actinobacteria	Actinobacteria_class_	Geodermatophilus obscurus	Geodermatophilus obscurus DSM 43160, complete genome
GKJWQY101B0W1Z	560	18	553	0	89	89	262083393	Bacteria	Actinobacteria	Actinobacteria_class_	Gordonia bronchialis	Gordonia bronchialis DSM 43247, complete genome
GKJWQY101AS578	556	5	556	0	89	89	196121877	Bacteria	Actinobacteria	Actinobacteria_class_	Rhodococcus radiodurans	Rhodococcus radiodurans SRJ3021 complete genome
GKJWQY101ABFJ2	584	18	583	0	95	95	147829108	Bacteria	Actinobacteria	Actinobacteria_class_	Clavibacter michiganensis	Clavibacter michiganensis subsp. michiganensis NCPBB 382 complete genome
GKJWQY101BBW1Z	602	7	594	0	92	92	169155030	Bacteria	Actinobacteria	Actinobacteria_class_	Clavibacter michiganensis	Clavibacter michiganensis subsp. sepedonicus complete genome
GKJWQY101A70KU	579	19	575	0	91	91	50950407	Bacteria	Actinobacteria	Actinobacteria_class_	Leifsonia xyli	Leifsonia xyli subsp. xyli str. CTC807, complete genome
GKJWQY101AV3CT	587	19	581	0	93	93	119947346	Bacteria	Actinobacteria	Actinobacteria_class_	Arthrobacter aureusens	Arthrobacter aureusens TC1, complete genome
GKJWQY101AS6C1	579	17	578	0	89	89	219857661	Bacteria	Actinobacteria	Actinobacteria_class_	Arthrobacter chlorophenolicus	Arthrobacter chlorophenolicus A6, complete genome
GKJWQY101AGV6J	570	5	567	0	89	89	116608677	Bacteria	Actinobacteria	Actinobacteria_class_	Arthrobacter sp. FB24	Arthrobacter sp. FB24, complete genome
GKJWQY101ASGX9	573	17	503	2E-173	90	90	183579876	Bacteria	Actinobacteria	Actinobacteria_class_	Kocuria rhizophila	Kocuria rhizophila DC2201 DNA, complete genome
GKJWQY101ANDPA	579	7	578	0	96	96	239837778	Bacteria	Actinobacteria	Actinobacteria_class_	Micrococcus luteus	Micrococcus luteus NCTC 2665, complete genome
GKJWQY101A6R2G	571	5	570	0	94	94	162952245	Bacteria	Actinobacteria	Actinobacteria_class_	Renibacterium salmoninarum	Renibacterium salmoninarum ATCC 33209, complete genome
GKJWQY101BB4K8	552	2	534	0	92	92	283133067	Bacteria	Actinobacteria	Actinobacteria_class_	Rothia mucilaginosa	Rothia mucilaginosa DY-18 DNA, complete genome
GKJWQY101BURAB	566	21	523	2E-92	80	80	119953846	Bacteria	Actinobacteria	Actinobacteria_class_	Mycobacterium vanbaalenii	Mycobacterium vanbaalenii PYR-1, complete genome
GKJWQY101BW780	526	17	230	6E-83	93	93	258553496	Bacteria	Actinobacteria	Actinobacteria_class_	Nakamurella multipartita	Nakamurella multipartita DSM 44233, complete genome
GKJWQY101BLJAK	582	5	598	1E-144	91	91	54013472	Bacteria	Actinobacteria	Actinobacteria_class_	Nocardia farcinica	Nocardia farcinica IFM 10152 DNA, complete genome
GKJWQY101APUX9	573	5	569	4E-170	87	87	110816552	Bacteria	Actinobacteria	Actinobacteria_class_	Rhodococcus jostii	Rhodococcus jostii RH41, complete genome
GKJWQY101BRTU9	573	18	561	0	90	90	226237899	Bacteria	Actinobacteria	Actinobacteria_class_	Rhodococcus opacus	Rhodococcus opacus B4 DNA, complete genome
GKJWQY101ALSD7	537	17	483	0	97	97	119534933	Bacteria	Actinobacteria	Actinobacteria_class_	Nocardiodioides sp. JS614	Nocardiodioides sp. JS614, complete genome
GKJWQY101BJOST	547	8	546	0	98	98	50839098	Bacteria	Actinobacteria	Actinobacteria_class_	Propionibacterium acnes	Propionibacterium acnes KPA171202, complete genome
GKJWQY101BQSO8	598	4	584	0	95	95	291375051	Bacteria	Actinobacteria	Actinobacteria_class_	Propionibacterium acnes	Propionibacterium acnes SK137, complete genome
GKJWQY101A2KCQ	591	17	589	0	94	94	269095543	Bacteria	Actinobacteria	Actinobacteria_class_	Sanguibacter keddii	Sanguibacter keddii DSM 10542, complete genome
GKJWQY101BYVMH	599	5	363	1E-114	88	88	270504784	Bacteria	Actinobacteria	Actinobacteria_class_	Streptosporangium roseum	Streptosporangium roseum DSM 43021, complete genome
GKJWQY101A0TH4	586	17	583	0	95	95	257472321	Bacteria	Actinobacteria	Actinobacteria_class_	Atopobium parvulum	Atopobium parvulum DSM 20469, complete genome
GKJWQY101ANZQF	303	4	68	2E-152	92	92	212548595	Bacteria	Bacteroidetes	Bacteroidia	Candidatus Azobacteroides pseudotrichonymphae	Candidatus Azobacteroides pseudotrichonymphae genomovar. CFP2 DNA, complete genome
GKJWQY101BUJW5	565	17	562	0	93	93	188593544	Bacteria	Bacteroidetes	Bacteroidia	Porphyromonas gingivalis	Porphyromonas gingivalis ATCC 33277 DNA, complete genome
GKJWQY101BQQMF	393	18	342	4E-78	84	84	291513545	Bacteria	Bacteroidetes	Bacteroidia	Alistipes shahii	Alistipes shahii WAL 8301 draft genome
GKJWQY101BGGIN	310	18	247	3E-89	93	93	254946573	Bacteria	Bacteroidetes	Cytophagia	Dyadobacter fermentans	Dyadobacter fermentans DSM 18053, complete genome
GKJWQY101B2ZNG	246	18	200	4E-62	91	91	283814236	Bacteria	Bacteroidetes	Cytophagia	Spirosoma linguale	Spirosoma linguale DSM 74, complete genome
GKJWQY101BHRK1	544	18	518	0	96	96	294979899	Bacteria	Bacteroidetes	Flavobacteria	Zunongwangia profunda	Zunongwangia profunda SM-A87, complete genome
GKJWQY101A1JXZ	595	18	592	0	89	89	52214156	Bacteria	Bacteroidetes	Bacteroidia	Bacteroides fragilis	Bacteroides fragilis YCH46 DNA, complete genome
GKJWQY101AA40Z	576	19	574	0	88	88	60491031	Bacteria	Bacteroidetes	Bacteroidia	Bacteroides fragilis	Bacteroides fragilis NCTC 9343, complete genome
GKJWQY101B5ONP	584	64	582	0	91	91	29342101	Bacteria	Bacteroidetes	Bacteroidia	Bacteroides thetaiotaomicron	Bacteroides thetaiotaomicron VPI-5482, complete genome
GKJWQY101AN552	561	4	559	0	88	88	149931032	Bacteria	Bacteroidetes	Bacteroidia	Bacteroides vulgatus	Bacteroides vulgatus ATCC 8482, complete genome
GKJWQY101A0WSS	589	4	587	0	87	87	149935098	Bacteria	Bacteroidetes	Bacteroidia	Parabacteroides distasonis	Parabacteroides distasonis ATCC 8503, complete genome
GKJWQY101AP6Y7	476	18	421	8E-156	92	92	34398108	Bacteria	Bacteroidetes	Bacteroidia	Porphyromonas gingivalis	Porphyromonas gingivalis W83, complete genome
GKJWQY101BYSCO	548	7	537	7E-167	87	87	294471613	Bacteria	Bacteroidetes	Bacteroidia	Prevotella rumicicola	Prevotella rumicicola Z3, complete genome
GKJWQY101BJIIP	572	1	569	0	92	92	255340365	Bacteria	Bacteroidetes	Flavobacteria	Flavobacteriaceae bacterium 3519-10	Flavobacteriaceae bacterium 3519-10, complete genome
GKJWQY101B2XZT	586	18	571	0	94	94	146152184	Bacteria	Bacteroidetes	Flavobacteria	Flavobacterium johnsoniae	Flavobacterium johnsoniae UW101, complete genome
GKJWQY101BEOT5	555	20	329	8E-132	95	95	149770655	Bacteria	Bacteroidetes	Flavobacteria	Flavobacterium psychrophilum	Flavobacterium psychrophilum JIPO2/86 complete genome
GKJWQY101A3ZEU	584	18	577	1E-160	86	86	256033965	Bacteria	Bacteroidetes	Sphingobacteria	Chitinophaga pinensis	Chitinophaga pinensis DSM 2588, complete genome
GKJWQY101ABFUA	587	17	582	0	89	89	255342900	Bacteria	Bacteroidetes	Sphingobacteria	Pedobacter heparinus	Pedobacter heparinus DSM 2366, complete genome
GKJWQY101A9IOF	548	15	506	0	91	91	295083795	Bacteria	Bacteroidetes	Bacteroidia	Bacteroides xylanisolvens	Bacteroides xylanisolvens XB1A draft genome
GKJWQY101ABVQI	567	32	251	4E-45	83	83	296787736	Bacteria	Chloroflexi	Thermomicrobium_class_	Sphaerobacter thermophilus	Sphaerobacter thermophilus DSM 20745 chromosome 2, complete sequence
GKJWQY101ASMMW	163	29	136	1E-40	95	95	37508091	Bacteria	Gloeobacteria	Gloeobacteria	Gloeobacter violaceus	Gloeobacter violaceus PCC 7421 DNA, complete genome
GKJWQY101BB7V5	233	67	184	2E-40	93	93	171696371	Bacteria	Cyanobacteria	Cyanothece sp. ATCC 51142	Cyanothece sp. ATCC 51142 circular chromosome, complete sequence	
GKJWQY101ADTE9	305	19	271	2E-90	91	91	218169741	Bacteria	Cyanobacteria	Cyanothece sp. PCC 7424	Cyanothece sp. PCC 7424, complete genome	
GKJWQY101AIKHU	277	4	217	4E-92	96	96	256588085	Bacteria	Cyanobacteria	Cyanothece sp. PCC 8802	Cyanothece sp. PCC 8802, complete genome	
GKJWQY101AA4H7	553	333	381	4E-10	94	94	256592529	Bacteria	Cyanobacteria	Cyanothece sp. PCC 8802	Cyanothece sp. PCC 8802 plasmid pP880203, complete sequence	
GKJWQY101AXWLH	352	18	320	3E-104	90	90	146740642	Bacteria	Cyanobacteria	Cyanothece sp. rubescens	Synechococcus rubescens SAG 3.81 partial ribosomal RNA operon, strain SAG 3.81	
GKJWQY101BYVV6	360	16	277	7E-41	79	79	147849409	Bacteria	Cyanobacteria	Cyanothece sp. RCC307	Synechococcus sp. RCC307 genomic DNA sequence	
GKJWQY101AGFP8	340	16	279	4E-43	80	80	33633126	Bacteria	Cyanobacteria	Cyanothece sp. WH8102	Synechococcus sp. WH8102 complete genome; segment 6/7	
GKJWQY101AQP2B	526	5	383	2E-68	80	80	47118315	Bacteria	Cyanobacteria	Cyanothece sp. WH8102	Synechococcus elongatus BP-1 DNA, complete genome	
GKJWQY101ACIHK	426	24	349	8E-61	81	81	242955773	Bacteria	Cyanobacteria	Nostocales	Polysiphonia sp. PCC 7601 = UTEX LB 481	Fremyella diplosiphon Fd33 light-independent protochlorophyllide oxidoreductase subunit B (chlB) gene, complete cds
GKJWQY101BXWGA	568	157	184	0.002	100	100	111610610	Bacteria	Cyanobacteria	Nostocales	Polysiphonia sp. PCC 7601 = UTEX LB 481	Fremyella diplosiphon Fd33 phycobilisome linker-core protein (apcC) and phycocyanobilin oxidoreductase (pcyA) genes, complete cds; cpc2 and cpc1 ope
GKJWQY101BYZF1	480	18	443	1E-124	86	86	47606667	Bacteria	Cyanobacteria	Nostocales	Polysiphonia sp. PCC 7601 = UTEX LB 481	Fremyella diplosiphon TSPo-like protein, hypothetical protein, Nbla-1 (nblaI), CpeB (cpeB), CpeA (cpeA), CpeY (cpeY), and CpeZ (cpeZ) genes, complete cds
GKJWQY101A5ZEU	261	8	214	4E-92	97							

GKJWQY101APB60	447	5	401	1E-158	92	92	47118302	Bacteria	Cyanobacteria	Nostocales	Nostoc sp. PCC 7120	Nostoc sp. PCC 7120 DNA, complete genome
GKJWQY101BC039	546	335	540	3E-17	76	76	17134864	Bacteria	Cyanobacteria	Nostocales	Nostoc sp. PCC 7120	Nostoc sp. PCC 7120 plasmid pCC7120delta DNA, complete sequence
GKJWQY101ATFBR	558	5	556	0	90	90	146740643	Bacteria	Cyanobacteria	Oscillatoriales	Microcoleus chthonoplastes	Microcoleus chthonoplastes PCC 7420 partial ribosomal RNA operon, strain PCC 7420
GKJWQY101BRVHX	334	19	280	8E-85	89	89	146740638	Bacteria	Cyanobacteria	Prochlorales	Prochlorothrix hollandica	Prochlorothrix hollandica SAG 10.89 partial ribosomal RNA operon, strain SAG 10.89
GKJWQY101BYL6X	559	4	543	0	90	90	158303474	Bacteria	Cyanobacteria	n	Acaryochloris marina	Acaryochloris marina MBIC11017, complete genome
GKJWQY101AWOW9	290	5	221	2E-80	92	92	284809060	Bacteria	Cyanobacteria	n	Cyanobacterium UCYN-A	Cyanobacterium UCYN-A, complete genome
GKJWQY101BQ049	481	5	412	1E-169	93	93	213961224	Bacteria	Cyanobacteria	n	Cyanothecae sp. PCC 7425	Cyanothecae sp. PCC 7425, complete genome
GKJWQY101BJ44C	613	18	609	0	88	88	56684969	Bacteria	Cyanobacteria	n	Synechococcus elongatus	Synechococcus elongatus PCC 6301 DNA, complete genome
GKJWQY101BQPKJ	556	19	546	2E-88	79	79	75699950	Bacteria	Cyanobacteria	n	Anabaena variabilis	Anabaena variabilis ATCC 29413, complete genome
GKJWQY101AKALA	539	17	497	6E-158	88	88	110164990	Bacteria	Cyanobacteria	n	Trichodesmium erythraeum	Trichodesmium erythraeum IMS101, complete genome
GKJWQY101AKQKU	222	18	177	7E-74	99	99	146740644	Bacteria	Cyanobacteria	Oscillatoriales	Spirulina sp. PCC 6313	Spirulina sp. PCC 6313 partial ribosomal RNA operon, strain PCC 6313
GKJWQY101AQDCQE	479	17	414	0	98	98	290469363	Bacteria	Deinococcus-Thermus	Deinococci	Melothermus ruber	Melothermus ruber DSM 1279, complete genome
GKJWQY101A2UHA	548	5	238	6E-98	95	95	294979666	Bacteria	Deinococcus-Thermus	Deinococci	Thermus thermophilus	Chain A, Initiation Complex Of 70s Ribosome With Two Trnas And Mrna. This Entry 319e Contains 50s Ribosomal Subunit Of Molecule A. The 30s Ribosome
GKJWQY101AWMCZ	545	26	543	3E-156	86	86	226319394	Bacteria	Deinococcus-Thermus	Deinococci	Deinococcus deserti	Deinococcus deserti VCD115 plasmid 1, complete sequence
GKJWQY101AQZAT	611	79	551	4E-140	87	87	154350369	Bacteria	Firmicutes	Bacilli	Bacillus amyloliquefaciens	Bacillus amyloliquefaciens F2B42, complete genome
GKJWQY101ACEUC	378	6	334	1E-103	88	88	225785631	Bacteria	Firmicutes	Bacilli	Bacillus cereus	Bacillus cereus 038B102, complete genome
GKJWQY101AAGR0	423	5	386	4E-163	94	94	218540569	Bacteria	Firmicutes	Bacilli	Bacillus cereus	Bacillus cereus G9842, complete genome
GKJWQY101B2DIZ	416	18	364	6E-147	94	94	221237819	Bacteria	Firmicutes	Bacilli	Bacillus cereus	Bacillus cereus Q1, complete genome
GKJWQY101ANNC9	607	25	557	4E-95	80	80	37903989	Bacteria	Firmicutes	Bacilli	Bacillus cereus	Bacillus cereus strain BGSC 6A5 rrrB operon, complete sequence
GKJWQY101AGVHS	591	5	575	0	93	93	157679556	Bacteria	Firmicutes	Bacilli	Bacillus pumilus	Bacillus pumilus SAFR-032, complete genome
GKJWQY101ASZ2K	466	10	522	0	93	93	239805877	Bacteria	Firmicutes	Bacilli	Geobacillus sp. WCH70	Geobacillus sp. WCH70, complete genome
GKJWQY101BLU10	463	5	368	6E-157	95	95	226092535	Bacteria	Firmicutes	Bacilli	Brevibacillus brevis	Brevibacillus brevis NBRC 100599 DNA, complete genome
GKJWQY101AKNEB	590	18	104	7E-28	94	94	260066140	Bacteria	Firmicutes	Bacilli	Staphylococcus aureus	Staphylococcus aureus plasmid SAP085B, complete sequence
GKJWQY101A48B0	578	5	565	0	88	88	149944932	Bacteria	Firmicutes	Bacilli	Staphylococcus aureus	Staphylococcus aureus subsp. aureus JH1, complete genome
GKJWQY101B0C3N	562	24	533	0	97	97	9664635	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis strain SR1 clone step.1001g01 genomic sequence
GKJWQY101BML37	564	17	530	0	99	99	9664791	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis strain SR1 clone step.1005a08 genomic sequence
GKJWQY101AHEDV	181	30	142	2E-43	96	96	111182492	Bacteria	Firmicutes	Bacilli	Enterococcus avium	Enterococcus avium clone EPE8_4 genomic sequence
GKJWQY101BC6P5	383	13	79	3E-20	96	96	283481151	Bacteria	Firmicutes	Bacilli	Enterococcus faecium	Enterococcus faecium partial plasmid pVEF4, strain 399/F98/A4
GKJWQY101AM09E	334	134	282	1E-58	95	95	111182490	Bacteria	Firmicutes	Bacilli	Enterococcus gallinarum	Enterococcus gallinarum clone EPE8_2 genomic sequence
GKJWQY101A90D0	479	5	477	0	100	100	15146028	Bacteria	Firmicutes	Bacilli	Lactobacillus delbrueckii	Lactobacillus delbrueckii subsp. bulgaricus ISL5 transposase gene, complete cds
GKJWQY101ADA2E	517	5	472	0	99	99	15146030	Bacteria	Firmicutes	Bacilli	Lactobacillus delbrueckii	Lactobacillus delbrueckii subsp. lactis ISL6 transposase gene, complete cds
GKJWQY101ANUFG	478	5	472	0	100	100	13398532	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus insertion sequence IS1201-like truncated transposase gene, partial cds
GKJWQY101AWVPF	572	18	569	0	94	94	157272205	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 glycerate kinase (glyK) gene, complete cds
GKJWQY101AJUJ	390	18	357	5E-177	100	100	111610285	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 putative aminotransferase class V ATase1 gene, complete cds
GKJWQY101BFWHX	641	17	575	4E-140	94	94	111610140	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 putative hydrolase or acyltransferase (citrR), citrate lyase ligase (citrC), citrate lyase (citrD), citrate lyase beta-chain (citrE), an
GKJWQY101ATCEK	553	1	549	0	100	100	32823400	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus carnosinase (pepV) gene, complete cds	
GKJWQY101B1CMN	543	4	542	0	98	98	112148551	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 putative glycoprotein endopeptidase (ydcI) gene, complete cds
GKJWQY101A41CM	532	18	505	0	94	94	157272234	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 phosphoenolpyruvate carboxylase (ppc) pseudogene, complete sequence
GKJWQY101ACW54	527	4	524	0	100	100	111610264	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 ABC transporter ATP-binding protein ABCSATP5, putative ABC transporter ABCSMC5, cysteine desulfurase (csd), NifU-like
GKJWQY101ARF58	557	18	357	7E-167	98	98	133917173	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus atpA gene for ATP synthase alpha subunit, type strain LMG 6413T
GKJWQY101BSMTE	558	18	554	0	96	96	111610178	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 10 kDa chaperonin (groES) and 60 kDa chaperonin (groEL) genes, complete cds
GKJWQY101AEIV	527	18	523	0	99	99	157272211	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 aspartate kinase (lysC) and diaminoimide epimerase (dapF) genes, complete cds
GKJWQY101AGVG5	509	19	503	0	97	97	2687734	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus plasmid pLH1 complete sequence, strain ATCC15009
GKJWQY101AD5HW	559	78	517	0	98	98	111610125	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 transcription regulator (deoR-AP) gene, complete cds
GKJWQY101A4URK	517	18	516	0	97	97	157272233	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 arginine deiminase (arcA) pseudogene, complete sequence
GKJWQY101BJRWH	560	16	553	0	98	98	157272216	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 5-methyltetrahydropteroyl(Gly3)-homocysteine methyltransferase (metE) gene, complete cds
GKJWQY101BJ0YC	532	5	460	0	100	100	111610270	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR232 cysteine synthase (cysK), cystathionine beta-lyase (cbl), and serine O-transferase (cysE) genes, complete cds
GKJWQY101BLMTA	376	5	330	7E-86	85	85	120400324	Bacteria	Firmicutes	Bacilli	Lactobacillus johnsonii	Lactobacillus johnsonii strain ATCC 33200 exopolysaccharide biosynthesis gene cluster, complete sequence
GKJWQY101BIBYA	641	193	226	0.000001	100	100	195537732	Bacteria	Firmicutes	Bacilli	Lactobacillus plantarum	Lactobacillus plantarum L137 plasmid pLT13 DNA, complete genome
GKJWQY101A2WZJ	582	14	578	0	96	96	183223999	Bacteria	Firmicutes	Bacilli	Lactobacillus reuteri	Lactobacillus reuteri JCM 1112 DNA, complete genome
GKJWQY101AKANV	345	100	142	0.000003	91	91	116090851	Bacteria	Firmicutes	Bacilli	Oenococcus oeni	Oenococcus oeni PSU-1, complete genome
GKJWQY101ALDHC	261	17	182	8E-79	99	99	3582195	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis strain DPC3147 plasmid pMRC01, complete sequence
GKJWQY101AGFQL	507	18	504	0	99	99	116108977	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis subsp. cremoris SK11 plasmid 4, complete sequence
GKJWQY101AF275	567	23	362	6E-173	99	99	116106497	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis subsp. cremoris SK11, complete genome
GKJWQY101ASHHI	374	5	271	9E-105	93	93	23094784	Bacteria	Firmicutes	Bacilli	Streptococcus agalactiae	Streptococcus agalactiae NEM316 complete genome, segment 3
GKJWQY101A7KUH	203	5	159	4E-71	99	99	113120160	Bacteria	Firmicutes	Bacilli	Streptococcus macedonicus	Streptococcus macedonicus strain ACA-D 198 putative relaxase gene, complete cds; macedocin gene cluster, complete sequence; McdK (mcdK), McdR (r
GKJWQY101BXGNS	493	5	378	0	99	99	225724295	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae P103, complete genome
GKJWQY101AFNBN	518	18	511	1E-169	89	89	25307955	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae R6, complete genome
GKJWQY101A2ND4	505	5	355	5E-143	93	93	168994879	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae Hungary19A-6, complete genome
GKJWQY101BVGTV	546	4	543	0	97	97	182628304	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae CGSP14, complete genome
GKJWQY101A2QNZ	477	17	422	0	98	98	209539788	Bacteria	Firmicutes	Bacilli	Streptococcus pyogenes	Streptococcus pyogenes NZ131, complete genome
GKJWQY101AIF35	370	24	324	1E-93	88	88	21905618	Bacteria	Firmicutes	Bacilli	Streptococcus pyogenes	Streptococcus pyogenes MGA5315, complete genome
GKJWQY101AC25G	267	3	204	2E-100	100	100	284080586	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus strain 4F44 protease (prtS) gene, complete cds
GKJWQY101LBW7C	419	4	354	1E-173	98	98	90655828	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus strain 488 eps gene cluster, partial sequence
GKJWQY101AWY8E	592	27	306	2E-69	84	84	15485427	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus site-specific integrative conjugative element ICES1 and flanking regions
GKJWQY101AYS29	543	18	540	0	99	99	6708106	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus phosphotransferase (pfs) and pyruvate kinase (pyk) genes, complete cds
GKJWQY101BVSNC	236	18	199	9E-83	98	98	158139258	Bacteria	Firmicutes	Clostridia	Alkaliphilus oremlandii	Alkaliphilus oremlandii OHLAs, complete genome
GKJWQY101BIJGR	305	24	146	4E-48	96	96	149901357	Bacteria	Firmicutes	Clostridia	Clostridium beijerinckii	Clostridium beijerinckii NCIMB 8052, complete genome
GKJWQY101AVTLD	316	127	276	1E-67	99	99	295317476	Bacteria	Firmicutes	Clostridia	Clostridium botulinum	Clostridium botulinum F str. 230613, complete genome
GKJWQY101A7XRP	573	18	570	0	92	92	115249003	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile 630 complete genome
GKJWQY101AR4X1	537	18	537	0	100	100	110673209	Bacteria	Firmicutes	Clostridia	Clostridium perfringens	Clostridium perfringens ATCC 13124, complete genome
GKJWQY101AX0O9	546	25	207	1E-74	95	95	295089810	Bacteria	Firmicutes	Clostridia	Clostridium saccharolyticum	Clostridium saccharolyticum-like K10 draft genome
GKJWQY101APBWG	500	18	322	6E-118	93	93	223928079	Bacteria	Firmicutes	Clostridia	Clostridium sp.	Clostridium sp. enrichment culture clone 7-14
GKJWQY101BXM9C	573	12	555	1E-115	82	82	125712750	Bacteria	Firmicutes	Clostridia	Clostridium thermocellum	Clostridium thermocellum ATCC 27405, complete genome
GKJWQY101B17VM	233	16	192	1E-80	100	100	256797400	Bacteria	Firmicutes	Clostridia	Anaerococcus prevotii	Anaerococcus prevotii DSM 20548, complete genome
GKJWQY101AF4EN	544	18	542	0	98	98	167830502	Bacteria	Firmicutes	Clostridia	Fireglovia magna	Fireglovia magna ATCC 29328 DNA, complete genome
GKJWQY101AIZHR	472	23	409	3E-135	90	90	291555121	Bacteria	Firmicutes	Clostridia	Eubacterium siraeum	Eubacterium siraeum V105-8a draft genome
GKJWQY101B2AHH	421	14	374	1E-138	92	92	291529795	Bacteria	Firmicutes	Clostridia	Eubacterium siraeum	Eubacterium siraeum 70/3 draft genome
GKJWQY101BNDMO	405	57	351	1E-59	82	82	114336511	Bacteria	Firmicutes	Clostridia	Syntrophomonas wolfei	Syntrophomonas wolfei subsp. wolfei str. Goettingen, complete genome
GKJWQY101A8PV9	556	5	555	0	91	91	212559329	Bacteria	Firmicutes	Bacilli	Anoxybacillus flavithermus	Anoxybacillus flavithermus WK1, complete genome
GKJWQY101BRVTI	484	5	441	0	99	99	229264291	Bacteria	Firmicutes	Bacilli	Bacillus anthracis	Bacillus anthracis str. A0248, complete genome
GKJWQY101AXQ8R	580	4	576	0	92	92	56908016	Bacteria	Firmicutes	Bacilli	Bacillus clausii	Bacillus clausii KSM-K16 DNA, complete genome
GKJWQY101ASAUJ	575	5	528	0	95	95	152022606	Bacteria	Firmicutes	Bacilli	Bacillus cytotoxicus	Bacillus cereus subsp. cytotoxicus NVH 391-98, complete genome
GKJWQY101B2HXT	548	5	548	0	93	93	47118318	Bacteria	Firmicutes	Bacilli	Bacillus halodurans	Bacillus halodurans C-125 DNA, complete genome
GKJWQY101BN6EO	577	18	573	0	90	90	145902672	Bacteria	Firmicutes	Bacilli	Bacillus licheniformis	Bacillus licheniformis ATCC 14580, complete genome
GKJWQY101A4A0I	454	3	188	5E-83	97	97	294346812	Bacteria	Firmicutes	Bacilli	Bacillus megaterium	Bacillus megaterium QM B1551, complete genome
GKJWQY101A2M8L	595	5	588	0	93	93	294799901	Bacteria	Firmicutes	Bacilli	Bacillus megaterium	Bacillus megaterium DSM319, complete genome
GKJWQY101AM35J	538	5	537	0	96	96	225184640	Bacteria	Firmicutes	Bacilli	Bacillus subtilis	Bacillus subtilis subsp. subtilis str. 168 complete genome
GKJWQY101BMJUM	565	1	560									

GJKWQY101BL46W	622	12	498	8E-167	89	89	289169617	Bacteria	Firmicutes	Bacilli	Listeria seeligeri	Listeria seeligeri serovar 1/2b str. SLCC3954 complete genome
GJKWQY101BIMJV	561	5	558	6E-168	86	86	171988566	Bacteria	Firmicutes	Bacilli	Exiguobacterium sibiricum	Exiguobacterium sibiricum 255-15, complete genome
GJKWQY101A26PA	461	109	412	7E-107	90	90	229467163	Bacteria	Firmicutes	Bacilli	Exiguobacterium sp. AT1b	Exiguobacterium sp. AT1b, complete genome
GJKWQY101AKUVY	246	18	204	2E-75	95	95	261280339	Bacteria	Firmicutes	Bacilli	Paenibacillus sp. Y412MC10	Paenibacillus sp. Y412MC10, complete genome
GJKWQY101ALZEY	563	5	556	0	91	91	222119372	Bacteria	Firmicutes	Bacilli	Macrococcus caseolyticus	Macrococcus caseolyticus JCS5402 DNA, complete genome
GJKWQY101BM94T	530	5	527	0	89	89	47118312	Bacteria	Firmicutes	Bacilli	Staphylococcus aureus	Staphylococcus aureus subsp. aureus MW2 DNA, complete genome
GJKWQY101BQYU4	408	5	365	1E-178	98	98	222420101	Bacteria	Firmicutes	Bacilli	Staphylococcus carnosus	Staphylococcus carnosus subsp. carnosus TM300 complete genome
GJKWQY101BUHRL	539	33	449	6E-168	93	93	27315888	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	Staphylococcus epidermidis ATCC 12228, complete genome
GJKWQY101AKQXT	538	18	531	0	97	97	68445725	Bacteria	Firmicutes	Bacilli	Staphylococcus haemolyticus	Staphylococcus haemolyticus JCS41435 DNA, complete genome
GJKWQY101BW81P	559	18	552	0	97	97	289178903	Bacteria	Firmicutes	Bacilli	Staphylococcus lugdunensis	Staphylococcus lugdunensis HKU09-01, complete genome
GJKWQY101AIN1W	569	5	564	0	94	94	72493824	Bacteria	Firmicutes	Bacilli	Staphylococcus saprophyticus	Staphylococcus saprophyticus subsp. saprophyticus ATCC 15305 DNA, complete genome
GJKWQY101A2H1I	561	29	521	6E-173	89	89	158967071	Bacteria	Firmicutes	Bacilli	Lactobacillus acidophilus	Lactobacillus acidophilus NCFM, complete genome
GJKWQY101BFXEC	525	18	522	0	99	99	116103724	Bacteria	Firmicutes	Bacilli	Lactobacillus casei	Lactobacillus casei ATCC 334, complete genome
GJKWQY101BFH4F	563	60	395	2E-167	99	99	190711126	Bacteria	Firmicutes	Bacilli	Lactobacillus casei	Lactobacillus casei BL23 complete genome, strain BL23
GJKWQY101BLWUI	529	18	474	0	97	97	295029968	Bacteria	Firmicutes	Bacilli	Lactobacillus crispatus	Lactobacillus crispatus ST1 complete genome, strain ST1
GJKWQY101ACCFZ	548	22	545	0	99	99	103422338	Bacteria	Firmicutes	Bacilli	Lactobacillus delbrueckii	Lactobacillus delbrueckii subsp. bulgaricus ATCC 11842 complete genome
GJKWQY101AIPY1	586	18	585	0	98	98	116092543	Bacteria	Firmicutes	Bacilli	Lactobacillus delbrueckii	Lactobacillus delbrueckii subsp. bulgaricus ATCC BAA-365, complete genome
GJKWQY101BFEY2	607	18	605	0	99	99	160347623	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus DPC 4571, complete genome
GJKWQY101A91I5	579	5	571	0	95	95	111610219	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR323 conserved hypothetical penicillin-binding protein (pbpC1) gene, complete cds
GJKWQY101AMIEU	538	18	536	0	95	95	112148580	Bacteria	Firmicutes	Bacilli	Lactobacillus helveticus	Lactobacillus helveticus CNR323 cell-envelope associated proteinase (prh2) gene, complete cds
GJKWQY101EXUBT	538	1	516	0	93	93	262396937	Bacteria	Firmicutes	Bacilli	Lactobacillus johnsonii	Lactobacillus johnsonii F8785, complete genome
GJKWQY101AKKW7T	451	18	307	7E-92	88	88	254044098	Bacteria	Firmicutes	Bacilli	Lactobacillus plantarum	Lactobacillus plantarum DSM 9843, complete genome
GJKWQY101A9FF7	586	5	583	0	97	97	259648365	Bacteria	Firmicutes	Bacilli	Lactobacillus rhamnosus	Lactobacillus rhamnosus ATCC 53103 DNA, complete genome
GJKWQY101APN55	556	5	554	4E-145	84	84	78609255	Bacteria	Firmicutes	Bacilli	Lactobacillus sakei	Lactobacillus sakei strain 23K complete genome
GJKWQY101BF89U	570	5	564	0	99	99	90820184	Bacteria	Firmicutes	Bacilli	Lactobacillus salivarius	Lactobacillus salivarius UCCL18, complete genome
GJKWQY101A6GDN	151	13	119	4E-39	95	95	295831662	Bacteria	Firmicutes	Bacilli	Leuconostoc kimchii	Leuconostoc kimchii IMSNU 11154, complete genome
GJKWQY101A2303	492	16	431	0	96	96	13400022	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis subsp. lactis IL1403, complete genome
GJKWQY101AUKS3	528	3	525	0	99	99	124491690	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis subsp. cremoris MG1363, complete genome
GJKWQY101A3SPW	574	5	574	0	100	100	281374316	Bacteria	Firmicutes	Bacilli	Lactococcus lactis	Lactococcus lactis subsp. lactis FI147, complete genome
GJKWQY101AB8GR	544	5	516	0	93	93	22535226	Bacteria	Firmicutes	Bacilli	Streptococcus agalactiae	Streptococcus agalactiae 2603V/R, complete genome
GJKWQY101B2HSI	545	5	410	3E-170	94	94	225700893	Bacteria	Firmicutes	Bacilli	Streptococcus equi	Streptococcus equi subsp. zooepidemicus H70, complete genome
GJKWQY101AH1ID	551	5	544	0	97	97	288730948	Bacteria	Firmicutes	Bacilli	Streptococcus gallolyticus	Streptococcus gallolyticus UCN34 complete genome
GJKWQY101BI2WE	560	5	557	0	98	98	157074445	Bacteria	Firmicutes	Bacilli	Streptococcus gordonii	Streptococcus gordonii str. Challis substr. CH1, complete genome
GJKWQY101AKWUI	575	16	574	0	91	91	288906474	Bacteria	Firmicutes	Bacilli	Streptococcus mitis	Streptococcus mitis B6 complete genome, strain B6
GJKWQY101AYWCV	538	5	559	0	97	97	254989425	Bacteria	Firmicutes	Bacilli	Streptococcus mutans	Streptococcus mutans NH2025 DNA, complete genome
GJKWQY101BOVEU	558	21	556	0	97	97	225726369	Bacteria	Firmicutes	Bacilli	Streptococcus pneumoniae	Streptococcus pneumoniae Taiwan19F-14, complete genome
GJKWQY101A1CSL	395	4	362	1E-172	98	98	19913450	Bacteria	Firmicutes	Bacilli	Streptococcus pyogenes	Streptococcus pyogenes MGA58232, complete genome
GJKWQY101AODH5	587	5	587	0	95	95	125496804	Bacteria	Firmicutes	Bacilli	Streptococcus sanguinis	Streptococcus sanguinis SK36, complete genome
GJKWQY101BNMON	430	107	383	6E-142	100	100	292557464	Bacteria	Firmicutes	Bacilli	Streptococcus suis	Streptococcus suis G21, complete genome
GJKWQY101AXEED	594	18	590	0	98	98	55737978	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus CNR21066, complete genome
GJKWQY101AAEQD	585	5	579	0	97	97	55736088	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus LMG 18311, complete genome
GJKWQY101B0375	620	18	609	0	92	92	116100249	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus LMD-9, complete genome
GJKWQY101AYWMX	285	5	253	7E-105	95	95	222113012	Bacteria	Firmicutes	Bacilli	Streptococcus uberis	Streptococcus uberis 0140J complete genome
GJKWQY101AOC8C	305	17	260	2E-115	98	98	188497817	Bacteria	Firmicutes	Clostridia	Clostridium botulinum	Clostridium botulinum E3 str. Alaska E43, complete genome
GJKWQY101BE1IM	547	24	521	0	93	93	291482099	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile complete genome, strain CF5
GJKWQY101BG2WT	586	5	580	0	92	92	291482100	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile complete genome, strain M120
GJKWQY101BAWH0	552	4	531	0	91	91	291482251	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile B11 chromosome, complete sequence
GJKWQY101B14ZL	587	5	585	0	90	90	291482250	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile M68, complete genome
GJKWQY101BE4ZG	596	18	590	0	95	95	110681940	Bacteria	Firmicutes	Clostridia	Clostridium perfringens	Clostridium perfringens 38101, complete genome
GJKWQY101BXQWB	552	1	504	1E-174	89	89	160426828	Bacteria	Firmicutes	Clostridia	Clostridium phytofermentans	Clostridium phytofermentans ISdG, complete genome
GJKWQY101AUKJZ	542	17	488	6E-173	90	90	238871336	Bacteria	Firmicutes	Clostridia	Eubacterium eligens	Eubacterium eligens ATCC 27750, complete genome
GJKWQY101BDY1Q	551	5	485	0	95	95	238874104	Bacteria	Firmicutes	Clostridia	Eubacterium rectale	Eubacterium rectale ATCC 33656, complete genome
GJKWQY101ARORW	494	18	447	4E-79	80	80	219536331	Bacteria	Firmicutes	Clostridia	Desulfotobacterium hafniense	Desulfotobacterium hafniense DCB-2, complete genome
GJKWQY101AHKOV	564	5	555	0	91	91	283951607	Bacteria	Firmicutes	Negativicutes	Acidaminococcus fermentans	Acidaminococcus fermentans DSM 20731, complete genome
GJKWQY101BGGHX	576	17	568	0	99	99	269093698	Bacteria	Firmicutes	Negativicutes	Veillonella parvula	Veillonella parvula DSM 2008, complete genome
GJKWQY101BOSAK	552	5	552	0	97	97	9664721	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	AF269400 Staphylococcus epidermidis strain SR1 clone step.1003c05 genomic sequence
GJKWQY101BQBW7	564	17	560	0	99	99	9664737	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	AF269416 Staphylococcus epidermidis strain SR1 clone step.1003e02 genomic sequence
GJKWQY101AO1AU	556	18	534	0	99	99	9664799	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	AF269478 Staphylococcus epidermidis strain SR1 clone step.1005d12 genomic sequence
GJKWQY101A7HX3	540	18	538	3E-180	89	89	9623643	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	AF269747 Staphylococcus epidermidis strain SR1 clone step.1021f07 genomic sequence
GJKWQY101ALP91	553	18	553	0	100	100	9624258	Bacteria	Firmicutes	Bacilli	Staphylococcus epidermidis	AF270345 Staphylococcus epidermidis strain SR1 clone step.4023g04a genomic sequence
GJKWQY101BUKAI	560	18	560	0	94	94	295112306	Bacteria	Firmicutes	Bacilli	Enterococcus sp. 7L76	Enterococcus sp. 7L76 draft genome
GJKWQY101BPJUN	555	18	555	0	100	100	257152781	Bacteria	Firmicutes	Bacilli	Lactobacillus rhamnosus	Lactobacillus rhamnosus Lc 705 plasmid sequence, strain Lc 705
GJKWQY101AWRQY	590	23	427	0	94	94	257149867	Bacteria	Firmicutes	Bacilli	Lactobacillus rhamnosus	Lactobacillus rhamnosus Lc 705 whole genome sequence, strain Lc 705
GJKWQY101ALG3R	326	18	259	5E-112	98	98	15487824	Bacteria	Firmicutes	Bacilli	Lactobacillus sakei	Lactobacillus sakei rnaA operon and rnaB operon, partial sequence
GJKWQY101BCX33	567	18	560	0	99	99	24473733	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus eps type III operon, partial sequence
GJKWQY101BGY7W	543	24	521	0	94	94	154424882	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus partial atpA gene for ATP synthase alpha subunit, strain LMG 18240
GJKWQY101BXHH4	536	5	483	0	100	100	46019822	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus site-specific integrative and potentially conjugative element ICES13 and flanking regions
GJKWQY101ANZOM	524	18	517	0	96	96	221047219	Bacteria	Firmicutes	Bacilli	Streptococcus thermophilus	Streptococcus thermophilus strain JIM8232 sensor protein (ciaH) gene, partial cds; and ISStH1 transposase (tnpStH1orf1), ISStH1 transposase (tnpStH1orf2)
GJKWQY101A1C80	551	23	498	0	92	92	291482254	Bacteria	Firmicutes	Clostridia	Clostridium difficile	Clostridium difficile B19 chromosome
GJKWQY101ATSIV	593	7	583	0	87	87	223928104	Bacteria	Firmicutes	Clostridia	Clostridium sp. enrichment culture clone 7-25	Clostridium sp. enrichment culture clone 7-25 genomic sequence
GJKWQY101BNDWM	572	5	571	0	88	88	291523683	Bacteria	Firmicutes	Clostridia	Eubacterium rectale	Eubacterium rectale DSM 17629 draft genome
GJKWQY101A40TK	418	4	370	7E-141	92	92	291526582	Bacteria	Firmicutes	Clostridia	Eubacterium rectale	Eubacterium rectale M104/1 draft genome
GJKWQY101AO1P2	622	6	618	0	86	86	291520697	Bacteria	Firmicutes	Clostridia	Coprococcus catus	Coprococcus catus GD/7 draft genome
GJKWQY101A44JY	561	7	541	0	94	94	295092884	Bacteria	Firmicutes	Clostridia	Coprococcus sp. ART55/1	Coprococcus sp. ART55/1 draft genome
GJKWQY101AGCFL	593	5	590	0	91	91	291537741	Bacteria	Firmicutes	Clostridia	Roseburia intestinalis	Roseburia intestinalis XB684 draft genome
GJKWQY101BGRCD	543	9	543	0	92	92	295114602	Bacteria	Firmicutes	Clostridia	butyrate-producing bacterium SM4/1	Clostridiales sp. SM4/1 draft genome
GJKWQY101BGTQA	480	18	427	0	95	95	291558333	Bacteria	Firmicutes	Clostridia	butyrate-producing bacterium SSC/2	Clostridiales sp. SSC/2 draft genome
GJKWQY101AQWZZ	574	18	571	0	89	89	295102939	Bacteria	Firmicutes	Clostridia	Faecalibacterium prausnitzii	Faecalibacterium prausnitzii SL3/3 draft genome
GJKWQY101AYGOY	563	24	559	2E-163	87	87	291541372	Bacteria	Firmicutes	Clostridia	Ruminococcus bromii	Ruminococcus bromii L2-63 draft genome
GJKWQY101AKXDF	588	18	579	0	91	91	295107714	Bacteria	Firmicutes	Clostridia	Ruminococcus obeum	Ruminococcus obeum A2-162 draft genome
GJKWQY101BCTZL	587	5	534	0	89	89	291543184	Bacteria	Firmicutes	Clostridia	Ruminococcus sp. 18P13	Ruminococcus sp. 18P13 draft genome
GJKWQY101B8VCY	569	17	526	0	96	96	291545299	Bacteria	Firmicutes	Clostridia	Ruminococcus sp. SR1/5	Ruminococcus sp. SR1/5 draft genome
GJKWQY101BCX1D	600	15	598	0	90	90	291548560	Bacteria	Firmicutes	Clostridia	Ruminococcus torques	Ruminococcus torques L2-14 draft genome
GJKWQY101BSTM C	564	27	564	0	91	91	295098739	Bacteria	Firmicutes	Erysipelotrichi	Eubacterium cylindroides	Eubacterium cylindroides T2-87 draft genome
GJKWQY101BWHUV	584	5	572	0	89	89	291532143	Bacteria	Firmicutes	Negativicutes	Megamonas hypermegale	Megamonas hypermegale ART12/1 draft genome
GJKWQY101AEIGL	570	18	559	0	91	91	20095250	Bacteria	Fusobacteria	Fusobacterium class_	Fusobacterium nucleatum subsp. nucleatum ATCC 25586, complete genome	
GJKWQY101BJ7Q1	563	17	560	0	94	94	257048753	Bacteria	Fusobacteria	Fusobacterium class_	Leptotrichia buccalis	Leptotrichia buccalis DSM 1135, complete genome
GJKWQY101AANQ5	765	8	284	2E-108	93	93	156773414	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LM0AC6ZE09FM1 genomic sequence
GJKWQY101AP35G	369	18	305	3E-104	91	91	156774261	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone HADAAA18ZA07FM1 genomic sequence
GJKWQY101BYICA	271	5	223	1E-106	99	99	156770305	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LM0ABA36ZC08FM1 genomic sequence

GJKWQY101BA89J	207	18	127	8E-43	96	96	156776473	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA9ZB08RM1 genomic sequence
GJKWQY101BFWYL	285	18	240	2E-105	98	98	156769021	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA7ZF10FM1 genomic sequence
GJKWQY101AR683	223	3	155	2E-69	99	99	156770979	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA6ZE04RM1 genomic sequence
GJKWQY101AMU20	257	18	106	8E-24	91	91	156768878	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5ZG02FM1 genomic sequence
GJKWQY101A8WYN	563	18	515	0	91	91	156773397	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA6ZD02FM1 genomic sequence
GJKWQY101B0JQO	229	65	198	9E-58	98	98	156773640	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA9ZC05FM1 genomic sequence
GJKWQY101BNH9Q	303	4	217	3E-78	92	92	156773646	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA9ZC11FM1 genomic sequence
GJKWQY101BQAGF	532	4	471	3E-151	86	88	156770997	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA6ZG02RM1 genomic sequence
GJKWQY101BTYHD	557	13	343	3E-96	87	87	156770867	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5A211RM1 genomic sequence
GJKWQY101A2KY0	541	18	484	2E-138	86	86	156775997	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA3ZE01RM1 genomic sequence
GJKWQY101BXWSP	521	15	449	5E-94	82	82	156770975	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA6ZD12RM1 genomic sequence
GJKWQY101A06LP	569	18	569	0	94	94	156768872	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5ZF07FM1 genomic sequence
GJKWQY101ACT2K	476	108	435	5E-98	87	87	156775471	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA21ZE06RM1 genomic sequence
GJKWQY101A2BN5	538	10	424	2E-163	92	92	156768589	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA4OZ05FM1 genomic sequence
GJKWQY101BL15N	555	18	465	0	98	98	156772425	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA2ZF10FM1 genomic sequence
GJKWQY101A24D1	418	3	362	6E-92	84	84	156773609	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA8ZH09FM1 genomic sequence
GJKWQY101BNAWX	568	15	560	0	88	88	156774731	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA1ZH04RM1 genomic sequence
GJKWQY101A2WZH	537	34	489	3E-161	90	90	156769665	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA1ZF09RM1 genomic sequence
GJKWQY101ASD79	603	129	555	1E-160	91	91	156768004	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA31ZH01FM1 genomic sequence
GJKWQY101B0UGL	555	14	548	0	93	93	156767585	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA2ZD09FM1 genomic sequence
GJKWQY101A4300	358	5	306	1E-108	91	91	193083711	Bacteria	n	n	uncultured bacterium AD12_C5	Uncultured bacterium AD12_C5 genomic sequence
GJKWQY101A91EV	205	20	160	5E-40	89	89	193084530	Bacteria	n	n	uncultured bacterium ARCTIC38_F_05	Uncultured bacterium ARCTIC38_F_05 genomic sequence
GJKWQY101ADWVG	416	27	347	7E-131	94	94	193084460	Bacteria	n	n	uncultured bacterium ARCTIC47_D_06	Uncultured bacterium ARCTIC47_D_06 genomic sequence
GJKWQY101AUOML	283	7	239	4E-102	96	96	193084613	Bacteria	n	n	uncultured bacterium HF0070_34E11	Uncultured bacterium HF0070_34E11 genomic sequence
GJKWQY101ANMYP	93	23	60	7E-10	100	100	193084646	Bacteria	n	n	uncultured bacterium HF0200_39L23	Uncultured bacterium HF0200_39L23 genomic sequence
GJKWQY101AHOJC	335	1	273	1E-102	92	92	193084638	Bacteria	n	n	uncultured bacterium HF4000_48A13	Uncultured bacterium HF4000_48A13 genomic sequence
GJKWQY101BI2JO	400	5	337	1E-104	88	88	193083728	Bacteria	n	n	uncultured bacterium KM3-47-A6	Uncultured bacterium KM3-47-A6 genomic sequence
GJKWQY101ANGSG	545	17	544	0	89	89	62945638	Bacteria	n	n	uncultured bacterium zdt-25h14	Uncultured bacterium zdt-25h14 clone zdt-25h14, complete sequence
GJKWQY101A9FHD	225	5	141	2E-24	83	83	83595892	Bacteria	n	n	uncultured marine bacterium Ant4E12	Uncultured marine bacterium Ant4E12, partial genomic sequence
GJKWQY101BLR88	506	5	501	0	97	97	146260146	Bacteria	n	n	uncultured soil bacterium	Uncultured soil bacterium clone M53 similar to beta-lactamase genomic sequence
GJKWQY101AH7PE	431	9	388	3E-164	94	94	62860402	Bacteria	n	n	uncultured bacterium zdt-44a23	Uncultured bacterium zdt-44a23 clone zdt-44a23, complete sequence
GJKWQY101B18KD	574	14	492	8E-172	90	90	156777063	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone HAOAAA17ZD02RM1 genomic sequence
GJKWQY101AM37K	544	86	508	8E-117	85	85	156769510	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone HAOAAA7ZF01FM1 genomic sequence
GJKWQY101B2XVZ	586	5	580	0	91	91	156769729	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA7ZB07RM1 genomic sequence
GJKWQY101A17ME	572	18	570	0	90	90	156767597	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA2ZD09FM1 genomic sequence
GJKWQY101AECKX	530	4	522	9E-176	88	88	156769699	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA2ZE04RM1 genomic sequence
GJKWQY101BZ6F8	569	18	566	3E-176	88	88	156767618	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA2ZD05FM1 genomic sequence
GJKWQY101A2QNX	544	7	423	6E-163	92	92	156767628	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA2ZH11FM1 genomic sequence
GJKWQY101BM4AZ	443	18	341	2E-121	91	91	156768405	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA39ZA06FM1 genomic sequence
GJKWQY101BNW14	408	20	353	6E-92	86	86	156770664	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA4OZ07RM1 genomic sequence
GJKWQY101AXA5Z	445	53	386	8E-126	91	91	156770556	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA4ZC09RM1 genomic sequence
GJKWQY101BWUJY	548	18	457	6E-118	85	85	156768500	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA4ZD05FM1 genomic sequence
GJKWQY101A0B4M	528	193	432	6E-93	93	93	156770596	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA4ZH01RM1 genomic sequence
GJKWQY101A8S8N	551	5	547	0	92	92	156770864	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5ZA06RM1 genomic sequence
GJKWQY101BSJWR	566	11	564	0	94	94	156768827	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5A212FM1 genomic sequence
GJKWQY101BLIPI	556	2	555	0	95	95	156768841	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5ZC04FM1 genomic sequence
GJKWQY101BVQJU	585	18	580	3E-166	86	86	156770902	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA5ZE03RM1 genomic sequence
GJKWQY101BKAYD	576	4	571	0	93	93	156771060	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA7ZF03RM1 genomic sequence
GJKWQY101BJHQJ	560	16	557	0	95	95	156769048	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOABA2ZD06FM1 genomic sequence
GJKWQY101BD56T	570	62	565	0	95	95	156773064	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA2BZD06FM1 genomic sequence
GJKWQY101BY5FD	536	3	531	0	92	92	156775970	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA3ZB06RM1 genomic sequence
GJKWQY101AKOGB	575	18	572	2E-152	85	85	156776145	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA5ZD04RM1 genomic sequence
GJKWQY101B1UIB	569	17	562	0	90	90	156776214	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA6ZA05RM1 genomic sequence
GJKWQY101AXTWX	530	18	455	6E-128	86	86	156776216	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA6ZA08RM1 genomic sequence
GJKWQY101A2QXZ	535	18	529	0	92	92	156773440	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA6ZH03FM1 genomic sequence
GJKWQY101BH4I5	552	2	550	7E-177	87	87	156773475	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA7ZC10FM1 genomic sequence
GJKWQY101BYVVG	588	16	586	0	91	91	156773480	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA7ZD04FM1 genomic sequence
GJKWQY101A407X	528	4	523	0	93	93	156776331	Bacteria	n	n	uncultured bacterium	Uncultured bacterium clone LMOACA7ZE02RM1 genomic sequence
GJKWQY101B1OHM	297	18	247	1E-112	99	99	193084596	Bacteria	n	n	uncultured bacterium 2.6_D6	Uncultured bacterium 2.6_D6 genomic sequence
GJKWQY101A41PE	569	7	567	0	89	89	193083707	Bacteria	n	n	uncultured bacterium AD12-A11	Uncultured bacterium AD12-A11 genomic sequence
GJKWQY101BT4ZY	567	24	531	0	96	96	193083717	Bacteria	n	n	uncultured bacterium AD84-H10	Uncultured bacterium AD84-H10 genomic sequence
GJKWQY101AWPDP	568	17	566	0	96	96	193084603	Bacteria	n	n	uncultured bacterium HF0010_04H24	Uncultured bacterium HF0010_04H24 genomic sequence
GJKWQY101BKKTZ	579	21	575	0	89	89	193084608	Bacteria	n	n	uncultured bacterium HF0010_10C01	Uncultured bacterium HF0010_10C01 genomic sequence
GJKWQY101BD5KR	585	18	585	0	99	99	193084619	Bacteria	n	n	uncultured bacterium HF0500_12C04	Uncultured bacterium HF0500_12C04 genomic sequence
GJKWQY101BMECY	519	17	477	0	96	96	193084621	Bacteria	n	n	uncultured bacterium HF0500_24B12	Uncultured bacterium HF0500_24B12 genomic sequence
GJKWQY101AH347	608	20	87	1E-20	96	96	193084601	Bacteria	n	n	uncultured bacterium JM9_G5	Uncultured bacterium JM9_G5 genomic sequence
GJKWQY101BE4R0	362	215	242	0.001	100	100	91199943	Bacteria	Planctomycetes	Planctomycetacia	Candidatus Kuenenia stuttgartiensis	Kuenenia stuttgartiensis genome fragment KUST_E [5 of 5]
GJKWQY101BDY6H	568	20	550	1E-135	84	84	283436255	Bacteria	Planctomycetes	Planctomycetacia	Pirellula staleyii	Pirellula staleyii DSM 6068, complete genome
GJKWQY101AYMDQ	317	20	270	1E-102	94	94	67003493	Bacteria	Proteobacteria	Alphaproteobacteria	Brevundimonas sp. SD212	Brevundimonas sp. SD212 carotenoid biosynthesis gene cluster (orf1, crtW, crtY, crtI, crtB, orf6, orf7, crtE, idi, crtZ, crtG, orf12), complete cds
GJKWQY101A2HLQ	209	31	165	5E-55	96	96	240266805	Bacteria	Proteobacteria	Alphaproteobacteria	Bartonella grahamii as4aup	Bartonella grahamii as4aup, complete genome
GJKWQY101B0GZZ	540	171	203	0.000003	100	100	146189981	Bacteria	Proteobacteria	Alphaproteobacteria	Bradyrhizobium sp. ORS 278	Bradyrhizobium sp. ORS278, complete sequence
GJKWQY101B0W4V	543	341	488	9E-12	77	77	90103542	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospseudomonas palustris	Rhodospseudomonas palustris BisB18, complete genome
GJKWQY101B0DY9	536	18	476	0	92	92	219944660	Bacteria	Proteobacteria	Alphaproteobacteria	Methylobacterium nodulans	Methylobacterium nodulans ORS 2060, complete genome
GJKWQY101AXN46	232	59	183	9E-53	98	98	168192641	Bacteria	Proteobacteria	Alphaproteobacteria	Methylobacterium sp. 4-46	Methylobacterium sp. 4-46, complete genome
GJKWQY101A40MR	527	191	527	6E-118	90	90	111606883	Bacteria	Proteobacteria	Alphaproteobacteria	Aminobacter aminovorans	Aminobacter aminovorans partial gapA gene for glyceraldehyde-3-phosphate dehydrogenase, strain DSM 10368
GJKWQY101A3454	419	55	374	8E-41	77	77	159140696	Bacteria	Proteobacteria	Alphaproteobacteria	Agrobacterium tumefaciens str. C58	Agrobacterium tumefaciens str. C58 linear chromosome, complete sequence
GJKWQY101BEWX8	522	288	501	8E-27	78	78	221721649	Bacteria	Proteobacteria	Alphaproteobacteria	Agrobacterium tumefaciens	Agrobacterium radiobacter K84 chromosome 1, complete sequence
GJKWQY101BV24Z	541	123	216	2E-23	89	89	221739013	Bacteria	Proteobacteria	Alphaproteobacteria	Agrobacterium vitis	Agrobacterium vitis S4 plasmid pAt54e, complete sequence
GJKWQY101BU68N	504	38	404	7E-112	87	87	86284380	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium etli	Rhizobium etli CFN 42 plasmid p42c, complete sequence
GJKWQY101AX6T2	494	18	391	1E-75	81	81	190694918	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium etli	Rhizobium etli CIAT 652, complete genome
GJKWQY101A44CM	474	6	420	2E-88	81	81	115259848	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium leguminosarum bv. viciae	Rhizobium leguminosarum bv. viciae plasmid pRL11 complete genome, strain 3841
GJKWQY101AA9UB	528	33	448	2E-83	81	81	115254414	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium leguminosarum	Rhizobium leguminosarum bv. viciae chromosome complete genome, strain 3841
GJKWQY101BSXFZ	528	349	470	5E-24	85	85	209533368	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium leguminosarum bv. trifolii	Rhizobium leguminosarum bv. trifolii WSM2304, complete genome
GJKWQY101BERHY	547	24	479	6E-78	79	79	227339586	Bacteria	Proteobacteria	Alphaproteobacteria	Sinorhizobium fredii	Rhizobium sp. NGR234, complete genome
GJKWQY101BHVBO	505	5	505	1E-99	81	81	227337257	Bacteria	Proteobacteria	Alphaproteobacteria	Sinorhizobium fredii	Rhizobium sp. NGR234 plasmid pNGR234b, complete sequence
GJKWQY101BRU7O	505	21	489	1E-84	80	80	30407155	Bacteria	Proteobacteria	Alphaproteobacteria	Sinorhizobium meliloti	Sinorhizobium meliloti 1021 complete chromosome
GJKWQY101BRQ7P	560	134	394	5E-64	85	85	25168258	Bacteria	Proteobacteria	Alphaproteobacteria	Sinorhizobium meliloti	Sinorhizobium meliloti 1021 plasmid pSymA, complete sequence
GJKWQY101ARU2K	500	434	480	0.000002	91	91	158328513	Bacteria	Proteobacteria	Alphaproteobacteria	Azorhizobium caulinodans	Azorhizobium caulinodans ORS 571 DNA, complete genome
GJKWQY101A1PHZ	518	63	472	4E-50	77	77	119372524	Bacteria	Proteobacteria	Alphaproteobacteria	Paracoccus denitrificans	Paracoccus denitrificans PD1222 chromosome 1, complete sequence
GJKWQY101AGSJB	496	5	429	0	99	99	32263857	Bacteria	Proteobacteria	Alphaproteobacteria	Paracoccus sp. O118	Paracoccus sp. O118 plasmid pO118 rrn operon, complete sequence

GKJWQY101BYMZ	548	17	68	4E-10	93	93	221161990	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodobacter sphaeroides	Rhodobacter sphaeroides KD131 chromosome 2, complete sequence
GKJWQY101ATYDP	385	15	328	7E-136	95	95	56676665	Bacteria	Proteobacteria	Alphaproteobacteria	Ruegeria pomeroyi	Ruegeria pomeroyi DSS-3, complete genome
GKJWQY101BSXCF	501	54	453	4E-134	89	89	42414566	Bacteria	Proteobacteria	Alphaproteobacteria	Acetobacter pasteurianus partial IT51, strain CCM 3606	Acetobacter pasteurianus partial IT51, strain CCM 3606
GKJWQY101AL6GD	481	5	436	3E-130	87	87	82943940	Bacteria	Proteobacteria	Alphaproteobacteria	Magnetospirillum magneticum	Magnetospirillum magneticum AMB-1 DNA, complete genome
GKJWQY101ATZNT	193	44	158	1E-50	99	99	288926859	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillum centenum	Rhodospirillum centenum SW, complete genome
GKJWQY101BUXBD	461	372	459	4E-10	82	82	145322318	Bacteria	Proteobacteria	Alphaproteobacteria	Novosphingobium aromaticivorans	Novosphingobium aromaticivorans DSM 12444 plasmid pNL2, complete sequence
GKJWQY101BRVHF	351	21	316	1E-142	98	98	188532098	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingobium chungbukense	Sphingobium chungbukense trmC operon, complete sequence
GKJWQY101A9F0H	544	336	471	7E-23	82	82	295423362	Bacteria	Proteobacteria	Alphaproteobacteria	Caulobacter segnis	Caulobacter segnis ATCC 21756, complete genome
GKJWQY101A14H0	579	23	576	0	91	91	170658659	Bacteria	Proteobacteria	Alphaproteobacteria	Methylobacterium radiotolerans	Methylobacterium radiotolerans JCM 2831 plasmid pMRAD01, complete sequence
GKJWQY101AHOIZ	503	10	497	9E-176	90	90	47118328	Bacteria	Proteobacteria	Alphaproteobacteria	Mesorhizobium loti	Mesorhizobium loti MAFF303099 DNA, complete genome
GKJWQY101A1E9L	514	6	509	2E-148	86	86	240856645	Bacteria	Proteobacteria	Alphaproteobacteria	Rhizobium leguminosarum	Rhizobium leguminosarum bv. trifolii WSM1325, complete genome
GKJWQY101BSA8U	613	19	610	0	91	91	119376152	Bacteria	Proteobacteria	Alphaproteobacteria	Paracoccus denitrificans	Paracoccus denitrificans PD1222 chromosome 2, complete sequence
GKJWQY101BM00X	551	21	550	0	91	91	83574254	Bacteria	Proteobacteria	Alphaproteobacteria	Rhodospirillum rubrum	Rhodospirillum rubrum ATCC 11170, complete genome
GKJWQY101A9VAR	532	208	508	9E-37	77	77	84785911	Bacteria	Proteobacteria	Alphaproteobacteria	Erythrobacter litoralis	Erythrobacter litoralis HTCC2594, complete genome
GKJWQY101ASBL2	563	18	545	0	96	96	292676846	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingobium japonicum	Sphingobium japonicum UT265 DNA, chromosome 2, complete genome
GKJWQY101B2TF4	563	1	515	0	95	95	148498119	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingomonas wittichii	Sphingomonas wittichii RW1, complete genome
GKJWQY101BATJM	570	18	563	0	97	97	98975575	Bacteria	Proteobacteria	Alphaproteobacteria	Sphingopyxis alaskensis	Sphingopyxis alaskensis RB2256, complete genome
GKJWQY101BQWCO	376	66	220	8E-11	76	76	115421100	Bacteria	Proteobacteria	Betaproteobacteria	Bordetella avium	Bordetella avium 197N complete genome
GKJWQY101BOJME	364	106	331	1E-83	92	92	163258032	Bacteria	Proteobacteria	Betaproteobacteria	Bordetella petrii	Bordetella petrii strain DSM 12804, complete genome
GKJWQY101BRVHV	506	3	491	0	91	91	115280044	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia ambifaria	Burkholderia ambifaria AMMD chromosome 1, complete sequence
GKJWQY101ASXG1	515	371	468	2E-17	85	85	38707187	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia anthina	Burkholderia anthina pANT1 plasmid ORF3 for hypotheoretical protein, strain BHS1
GKJWQY101A440F	528	9	525	1E-159	87	87	190714216	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia J2315 chromosome 2, complete genome
GKJWQY101BPFL	514	42	514	0	97	97	116652879	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia H12424 plasmid 1, complete sequence
GKJWQY101B2A3A	566	5	562	0	99	99	169820555	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia MCO-3 chromosome 3, complete sequence
GKJWQY101BWFJ6	528	156	524	4E-159	95	95	116649273	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia H12424 chromosome 2, complete sequence
GKJWQY101BLJCL	511	155	511	0	100	100	13625778	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cepacia	Burkholderia cepacia acyl-homoserine lactone synthase BvII (bvII) and transcriptional activator BvIR (bvIR) genes, complete cds
GKJWQY101ALSXG	499	279	313	0.00001	97	97	126238441	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia mallei	Burkholderia mallei NCTC 10247 chromosome II, complete sequence
GKJWQY101B8BDS	506	22	462	4E-99	82	82	189336000	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia multivorans	Burkholderia multivorans ATCC 17616 genomic DNA, complete genome, chromosome 2
GKJWQY101BJXKU	557	260	555	2E-137	97	97	189338899	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia multivorans	Burkholderia multivorans ATCC 17616 plasmid pTGL1 DNA, complete sequence
GKJWQY101BS6QI	486	17	453	0	95	95	237502667	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia pseudomallei	Burkholderia pseudomallei MSHR346 chromosome I, complete sequence
GKJWQY101BN6XJ	105	5	67	5E-17	94	94	295438061	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. CCGE1002	Burkholderia sp. CCGE1002 chromosome 2, complete sequence
GKJWQY101BCW7I	562	74	193	3E-16	81	81	295434944	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. CCGE1002	Burkholderia sp. CCGE1002 chromosome 1, complete sequence
GKJWQY101BKETD	510	18	215	1E-39	82	82	83649860	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia thailandensis	Burkholderia thailandensis E264 chromosome II, complete sequence
GKJWQY101AHRRM	534	5	308	9E-32	77	77	83652219	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia thailandensis	Burkholderia thailandensis E264 chromosome I, complete sequence
GKJWQY101BSGH1	505	21	505	1E-144	95	95	91685338	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia xenovorans	Burkholderia xenovorans LB400 chromosome 1, complete sequence
GKJWQY101BQ51J	519	141	502	7E-18	73	73	171192370	Bacteria	Proteobacteria	Betaproteobacteria	Polynucleobacter necessarius	Polynucleobacter necessarius subsp. necessarius STR1, complete genome
GKJWQY101AEMFY	513	16	513	0	96	96	28974940	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii strain LMG7001 flagellin (flgC) gene, partial cds
GKJWQY101AIRRG	539	39	414	3E-146	92	92	601939	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii pDS-P5 gene for poly(3-hydroxybutyrate) depolymerase, complete cds
GKJWQY101AK7G8	502	18	469	9E-106	83	83	206593202	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia solanacearum	Ralstonia solanacearum strain IPO1609 Genome Draft
GKJWQY101BIKNE	401	18	348	1E-153	97	97	120587178	Bacteria	Proteobacteria	Betaproteobacteria	Acidovorax citrulli	Acidovorax citrulli AAC00-1, complete genome
GKJWQY101AIJRO	413	25	376	1E-133	92	92	121551644	Bacteria	Proteobacteria	Betaproteobacteria	Verminephrobacter eiseniae	Verminephrobacter eiseniae EF01-2, complete genome
GKJWQY101A3210	489	17	431	0	96	96	124257968	Bacteria	Proteobacteria	Betaproteobacteria	Methylobium petroleiphilum	Methylobium petroleiphilum PM1, complete genome
GKJWQY101B2KTE	243	4	129	8E-49	95	95	295794626	Bacteria	Proteobacteria	Betaproteobacteria	Thiomonas intermedia	Thiomonas intermedia K12, complete genome
GKJWQY101AW7F5	510	61	278	2E-37	81	81	294338440	Bacteria	Proteobacteria	Betaproteobacteria	Thiomonas sp. 3A5	Thiomonas sp. str. 3A5, chromosome, complete genome
GKJWQY101BKTPD	537	17	533	0	93	93	48428765	Bacteria	Proteobacteria	Betaproteobacteria	Collimonas fungivorans	Collimonas fungivorans fosmid CFUF0526, complete sequence
GKJWQY101A7HUP	554	10	508	0	93	93	34105712	Bacteria	Proteobacteria	Betaproteobacteria	Chromobacterium violaceum	Chromobacterium violaceum ATCC 12472, complete genome
GKJWQY101B0C0B	511	18	391	4E-179	98	98	66731897	Bacteria	Proteobacteria	Betaproteobacteria	Neisseria meningitidis	Neisseria meningitidis MC58, complete genome
GKJWQY101AXXBZ	498	5	442	0	98	98	161594571	Bacteria	Proteobacteria	Betaproteobacteria	Neisseria meningitidis	Neisseria meningitidis 053442, complete genome
GKJWQY101BYXBF	547	24	547	0	96	96	254667570	Bacteria	Proteobacteria	Betaproteobacteria	Neisseria meningitidis	Neisseria meningitidis alpha14 complete genome
GKJWQY101BQ54I	256	18	211	1E-92	99	99	171994659	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia ambifaria	Burkholderia ambifaria MCA0-6 chromosome 2, complete sequence
GKJWQY101BY113	513	26	510	8E-97	81	81	115283258	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia ambifaria	Burkholderia ambifaria AMMD chromosome 2, complete sequence
GKJWQY101BE1I0	536	18	534	0	95	95	171998010	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia ambifaria	Burkholderia ambifaria MCA0-6 plasmid pBMC401, complete sequence
GKJWQY101ALL88	537	32	498	1E-154	89	89	190714214	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia J2315 chromosome 1, complete genome
GKJWQY101A2LFA	523	18	523	0	92	92	169814598	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia MCO-3 chromosome 1, complete sequence
GKJWQY101AQ2I9	584	18	580	0	93	93	190714218	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia J2315 chromosome 3, complete genome
GKJWQY101BL5T8	548	24	545	0	98	98	169817759	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia MCO-3 chromosome 2, complete sequence
GKJWQY101BP3WG	502	5	499	0	100	100	190714220	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia cenocepacia	Burkholderia cenocepacia J2315 pBCJ2315 plasmid, complete genome
GKJWQY101A2NI2	512	214	474	1E-34	78	78	189332915	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia multivorans	Burkholderia multivorans ATCC 17616 DNA, complete genome, chromosome 1
GKJWQY101AY842	526	5	519	0	98	98	189338131	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia multivorans	Burkholderia multivorans ATCC 17616 genomic DNA, complete genome, chromosome 3
GKJWQY101A4LWM	503	18	500	0	92	92	77964193	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. 383	Burkholderia sp. 383 chromosome 3, complete sequence
GKJWQY101B17Y7	497	18	341	2E-151	97	97	77965403	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. 383	Burkholderia sp. 383 chromosome 1, complete sequence
GKJWQY101AGP17	539	17	500	0	97	97	77968738	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. 383	Burkholderia sp. 383, complete sequence
GKJWQY101ATCIB	517	18	514	0	96	96	295441430	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia sp. CCGE1002	Burkholderia sp. CCGE1002 plasmid pBC201, complete sequence
GKJWQY101A1LOF	527	6	520	0	97	97	134134073	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 3, complete sequence
GKJWQY101ACN2B	554	9	552	0	99	99	134137285	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 1, complete sequence
GKJWQY101AQ2CY	512	5	511	0	99	99	134132180	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 plasmid pBVEI02, complete sequence
GKJWQY101B056W	577	4	572	0	93	93	134135188	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis G4 chromosome 2, complete sequence
GKJWQY101AD239	350	18	201	2E-90	100	100	288237308	Bacteria	Proteobacteria	Betaproteobacteria	Cupriavidus metallidurans	Cupriavidus metallidurans CH34 megaplasmid, complete sequence
GKJWQY101ALG7X	519	7	518	0	92	92	240863652	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii 12D chromosome 1, complete sequence
GKJWQY101APKXX	485	3	480	0	92	92	240867064	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii 12D chromosome 2, complete sequence
GKJWQY101BDQBQ	545	20	544	0	99	99	187724002	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii 12J chromosome 1, complete sequence
GKJWQY101AAZQK	550	5	541	0	91	91	240868245	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia pickettii	Ralstonia pickettii 12D plasmid pRp12D01, complete sequence
GKJWQY101AG8T1	459	5	405	2E-102	84	84	30407127	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia solanacearum	Ralstonia solanacearum GMI1000 chromosome complete sequence
GKJWQY101AX6PV	517	19	513	3E-151	87	87	30407128	Bacteria	Proteobacteria	Betaproteobacteria	Ralstonia solanacearum	Ralstonia solanacearum GMI1000 megaplasmid complete sequence
GKJWQY101BLPFC	544	18	528	0	95	95	22178869	Bacteria	Proteobacteria	Betaproteobacteria	Acidovorax ebreus	Acidovorax ebreus TSPV, complete genome
GKJWQY101AQ5RN	545	18	545	0	91	91	120604516	Bacteria	Proteobacteria	Betaproteobacteria	Acidovorax sp. JS42	Acidovorax sp. JS42, complete genome
GKJWQY101BPNFG	528	24	468	0	100	100	262066648	Bacteria	Proteobacteria	Betaproteobacteria	Comamonas testosteroni	Comamonas testosteroni CHB-2, complete genome
GKJWQY101AEFD0	566	24	563	0	96	96	91695138	Bacteria	Proteobacteria	Betaproteobacteria	Polaromonas sp. JS666	Polaromonas sp. JS666, complete genome
GKJWQY101BJ06Q	538	17	534	0	98	98	239799596	Bacteria	Proteobacteria	Betaproteobacteria	Variovorax paradoxus	Variovorax paradoxus S110 chromosome 1, complete sequence
GKJWQY101BNV97	515	55	512	1E-178	92	92	170774137	Bacteria	Proteobacteria	Betaproteobacteria	Leptothrix cholodnii	Leptothrix cholodnii SP-6, complete genome
GKJWQY101BLFW7	540	18	534	0	90	90	133737197	Bacteria	Proteobacteria	Betaproteobacteria	Hermulinimonas arsenicoydans	Hermulinimonas arsenicoydans chromosome, complete sequence
GKJWQY101AVD73	547	51	545	1E-159	88	88	71845263	Bacteria	Proteobacteria	Betaproteobacteria	Dechloromonas aromatica	Dechloromonas aromatica RCB, complete genome
GKJWQY101B3I7Y	506	18	506	0	98	98	186660182	Bacteria	Proteobacteria	Betaproteobacteria	Burkholderia vietnamiensis	Burkholderia vietnamiensis strain CBMB40 nitrogenase molybdenum-iron protein beta chain-like (nifK) gene, partial sequence
GKJWQY101BIS5Y	575	18	571	0	99	99	260222220	Bacteria	Proteobacteria	Betaproteobacteria	Curvibacter putative symbiont of Hydra magnipapillata	Curvibacter putative symbiont of Hydra magnipapillata genomic scaffold HmaUn_WGA71069_1
GKJWQY101A2RQ4	553	5	551	1E-150	85	85	90823168	Bacteria	Proteobacteria	Deltaproteobacteria	Pelobacter carbinolicus	Pelobacter carbinolicus DSM 2380, complete genome
GKJWQY101AVQQS	550	11	275	8E-112	95	95	262076673	Bacteria	Proteobacteria	Deltaproteobacteria	Haliangium ochraceum	Haliangium ochraceum DSM 14365, complete genome
GKJWQY101A7KK6	487	18	272	9E-91	91	91	219952977	Bacteria	Proteobacteria	Deltaproteobacteria	Anaeromyxobacter dehalogenans	Anaeromyxobacter dehalogenans ZCP-1, complete genome
GKJWQY101AN6A1	562	23										

GKJWQY101AR8JF	379	18	332	1E-137	95	95	237499037	Bacteria	Proteobacteria	Gammaproteobacteria	Tolomonas auensis	Tolomonas auensis DSM 9187, complete genome
GKJWQY101ACR3I	481	18	416	5E-158	92	92	120322793	Bacteria	Proteobacteria	Gammaproteobacteria	Marinobacter hydrocarbonoclasticus	Marinobacter aquaeolei VT8, complete genome
GKJWQY101AML8K	373	18	335	8E-135	94	94	167351963	Bacteria	Proteobacteria	Gammaproteobacteria	Shewanella halifaxensis	Shewanella halifaxensis HAW-EB4, complete genome
GKJWQY101ABSDV	547	23	460	0	98	98	117610791	Bacteria	Proteobacteria	Gammaproteobacteria	Shewanella sp. ANA-3	Shewanella sp. ANA-3, complete genome
GKJWQY101BJDXY	460	5	399	6E-127	88	88	219994503	Bacteria	Proteobacteria	Gammaproteobacteria	Thioalkalivibrio sulfidophilus	Thioalkalivibrio sp. HL-EBGR7, complete genome
GKJWQY101BMVH7	413	12	299	2E-122	95	95	261835099	Bacteria	Proteobacteria	Gammaproteobacteria	Halothiobacillus neapolitanus	Halothiobacillus neapolitanus c2, complete genome
GKJWQY101BJUK3	498	5	237	1E-79	90	90	295054830	Bacteria	Proteobacteria	Gammaproteobacteria	Enterobacter cloacae	Enterobacter cloacae subsp. cloacae ATCC 13047, complete genome
GKJWQY101BJ7OH	517	18	516	0	100	100	295059951	Bacteria	Proteobacteria	Gammaproteobacteria	Enterobacter cloacae	Enterobacter cloacae subsp. cloacae ATCC 13047 plasmid pECL_A, complete sequence
GKJWQY101ADZWK	379	7	356	2E-115	89	89	145316543	Bacteria	Proteobacteria	Gammaproteobacteria	Enterobacter sp. 638	Enterobacter sp. 638, complete genome
GKJWQY101A5ASO	229	5	197	3E-77	94	94	291551905	Bacteria	Proteobacteria	Gammaproteobacteria	Erwinia amylovora	Erwinia amylovora CFBP1430 complete genome
GKJWQY101AF69O	551	4	548	0	97	97	291197582	Bacteria	Proteobacteria	Gammaproteobacteria	Erwinia amylovora	Erwinia amylovora ATCC 49946 chromosomal sequence
GKJWQY101BGVZ8	410	5	361	0	100	100	294489418	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli IHE3034, complete genome
GKJWQY101AVWVM	539	5	532	0	90	90	290760697	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli O55:H7 str. CB9615, complete genome
GKJWQY101AYZFU	278	24	176	2E-41	88	88	150953431	Bacteria	Proteobacteria	Gammaproteobacteria	Klebsiella pneumoniae	Klebsiella pneumoniae subsp. pneumoniae MGH 78578, complete sequence
GKJWQY101AXBCM	557	18	557	0	95	95	288887617	Bacteria	Proteobacteria	Gammaproteobacteria	Klebsiella varicicola	Klebsiella varicicola At-22, complete genome
GKJWQY101AULKC	321	5	36	0.000007	100	100	295647398	Bacteria	Proteobacteria	Gammaproteobacteria	Legionella pneumophila	Legionella pneumophila 2300/99 Alcoy, complete genome
GKJWQY101AOYQY	489	4	456	0	98	98	53749768	Bacteria	Proteobacteria	Gammaproteobacteria	Legionella pneumophila	Legionella pneumophila str. Paris complete genome
GKJWQY101BJ87H	400	5	271	4E-103	93	93	256794767	Bacteria	Proteobacteria	Gammaproteobacteria	Kangielia koreensis	Kangielia koreensis DSM 16069, complete genome
GKJWQY101ASOBT	495	119	292	1E-29	82	82	83630956	Bacteria	Proteobacteria	Gammaproteobacteria	Hahella chejuensis	Hahella chejuensis KCTC 2396, complete genome
GKJWQY101A55T9	550	25	496	5E-149	87	87	261412053	Bacteria	Proteobacteria	Gammaproteobacteria	Aggregatibacter actinomycetemcomitans	Aggregatibacter actinomycetemcomitans D11S-1, complete genome
GKJWQY101AOVUX	253	21	216	5E-61	89	89	247533203	Bacteria	Proteobacteria	Gammaproteobacteria	Aggregatibacter aphrophilus	Aggregatibacter aphrophilus NJ8700, complete genome
GKJWQY101ASAMI	547	20	307	6E-123	95	95	213985689	Bacteria	Proteobacteria	Gammaproteobacteria	Acinetobacter baumannii	Acinetobacter baumannii AB307_0294, complete genome
GKJWQY101AGCOW	420	5	240	3E-100	95	95	150958624	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas aeruginosa	Pseudomonas aeruginosa PA7, complete genome
GKJWQY101A34YN	233	25	195	6E-65	93	93	7546742	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens ribosomal RNA operon rrmC, partial sequence
GKJWQY101BV9BO	477	5	414	0	98	98	68342549	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens Pf-5, complete genome
GKJWQY101AYR98	500	18	492	2E-127	85	85	171705315	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens strain SS101 clone 2 massetolide A biosynthesis gene cluster, partial sequence
GKJWQY101AY1OW	527	18	55	0.00004	95	95	13310118	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas putida	Pseudomonas putida FadD2 (fadD2) and FadD1 (fadD1) genes, complete cds; and unknown gene
GKJWQY101A320H	573	4	514	0	97	97	71553748	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas savastanoi	Pseudomonas syringae pv. phaseolicola 1448A, complete genome
GKJWQY101AU6HQ	497	14	493	0	98	98	60115908	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas stutzeri	Pseudomonas stutzeri strain Q insertion sequence ISPt4 putative transposase subunit A and putative transposase subunit B genes, complete cds
GKJWQY101BJFY5	507	5	462	0	99	99	108733343	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas syringae	Pseudomonas syringae pv. syringae strain UMAF0158 mangotoxin production gene cluster and rrm operon, partial sequence
GKJWQY101AP1J4	648	9	306	4E-61	84	84	190010013	Bacteria	Proteobacteria	Gammaproteobacteria	Stenotrophomonas maltophilia	Stenotrophomonas maltophilia K279a complete genome, strain K279a
GKJWQY101BYDKG	535	19	533	0	97	97	260447279	Bacteria	Proteobacteria	Gammaproteobacteria	Escherichia coli	Escherichia coli DH1, complete genome
GKJWQY101AZO3V	560	18	452	0	95	95	49529273	Bacteria	Proteobacteria	Gammaproteobacteria	Acinetobacter sp. ADP1	Acinetobacter sp. ADP1 complete genome
GKJWQY101AX65L	589	5	588	0	93	93	71037566	Bacteria	Proteobacteria	Gammaproteobacteria	Psychrobacter arcticus	Psychrobacter arcticus 273-4, complete genome
GKJWQY101BE3XC	583	5	583	0	98	98	92392509	Bacteria	Proteobacteria	Gammaproteobacteria	Psychrobacter cryohalolentis	Psychrobacter cryohalolentis KS, complete genome
GKJWQY101ALTT0	576	18	572	0	97	97	148570901	Bacteria	Proteobacteria	Gammaproteobacteria	Psychrobacter sp. PRwf-1	Psychrobacter sp. PRwf-1, complete genome
GKJWQY101ASW69	515	17	430	0	97	97	226717097	Bacteria	Proteobacteria	Gammaproteobacteria	Azotobacter vinelandii	Azotobacter vinelandii DJ, complete genome
GKJWQY101ACBOK	278	18	227	1E-77	93	93	190684944	Bacteria	Proteobacteria	Gammaproteobacteria	Cellvibrio japonicus	Cellvibrio japonicus Ueda107, complete genome
GKJWQY101ADACY	576	7	567	0	90	90	218768969	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas aeruginosa	Pseudomonas aeruginosa LESB58 complete genome sequence
GKJWQY101AGJIM9	537	23	508	0	99	99	95101722	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas entomophila	Pseudomonas entomophila str. L48 chromosome, complete sequence
GKJWQY101A1SM7	594	17	593	0	98	98	229359445	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens SBW25 complete genome
GKJWQY101BIU2N	566	6	562	0	97	97	253992019	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas fluorescens	Pseudomonas fluorescens Pf0-1, complete genome
GKJWQY101BF9AJ	569	17	532	0	99	99	145573243	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas mendocina	Pseudomonas mendocina ymp, complete genome
GKJWQY101AZ2LO	580	5	579	0	98	98	169757190	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas putida	Pseudomonas putida W619, complete genome
GKJWQY101BZK7N	571	17	567	0	98	98	148509317	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas putida	Pseudomonas putida F1, complete genome
GKJWQY101BA5SM	560	5	558	0	98	98	166857509	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas putida	Pseudomonas putida GB-1, complete genome
GKJWQY101BQFXA	514	24	510	0	99	99	24987239	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas putida	Pseudomonas putida KT2440 complete genome
GKJWQY101BQGTJ	598	5	595	0	96	96	145568602	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas stutzeri	Pseudomonas stutzeri A1501, complete genome
GKJWQY101ARN9L	358	17	310	4E-148	99	99	63253978	Bacteria	Proteobacteria	Gammaproteobacteria	Pseudomonas syringae	Pseudomonas syringae pv. syringae B728a, complete genome
GKJWQY101A9KUB	568	5	556	0	91	91	283472039	Bacteria	Proteobacteria	Gammaproteobacteria	Xanthomonas albilineans	Xanthomonas albilineans str. GPE PC73, chromosome, complete genome
GKJWQY101AGMLE	576	20	556	1E-155	86	86	117607074	Bacteria	Proteobacteria	n	Magnetococcus sp. MC-1	Magnetococcus sp. MC-1, complete genome
GKJWQY101ALGOA	548	18	548	0	90	90	226525288	Bacteria	Verrucomicrobia	n	Uncultured Verrucomicrobia bacterium	Uncultured Verrucomicrobia bacterium clone 118 genomic sequence
GKJWQY101BWYXQ	338	8	275	5E-82	88	88	187424568	Bacteria	Verrucomicrobia	Verrucomicrobiae	Akkermansia muciniphila	Akkermansia muciniphila ATCC BAA-835, complete genome

al Subunit Can Be Found In Pdb Entry 3i9d. Molecule B In The Same Asymmetric Unit Is Deposited As 3i9b (...

id citrate lyase alpha-chain (citF) genes, complete cds

: protein, and putative iron-regulated ABC transporter component ABC1MC1 genes, complete cds

ncdR), and hypothetical protein genes, complete cds; and hypothetical protein gene, partial cds

2), transposase IS204 (tnpIS204), truncated polyamine-putrescine/spermidine-ABC uptake transporter membrane-spanning protein (potC), spermidine/putrescine-binding per

