

Bondar et al., Table S20
Sequences Used for the Alignment of Bacterial SecY Sequences

Accession number	Organism
SECY_METJA	<i>Methanocaldococcus jannaschii</i>
A0ALU8	<i>Listeria welshimeri</i> serovar 6b (strain ATCC 35897 / DSM 20650 / SLCC5334) GN
A0G538	<i>Burkholderia phymatum</i> STM815
A0GVT1	<i>Burkholderia phytofirmans</i> PsJN
A0H1L5	<i>Chloroflexus aggregans</i> DSM 9485
A0H927	<i>Comamonas testosteroni</i> KF-1
A0JB73	<i>Shewanella woodyi</i> ATCC 51908
A0JZ65	<i>Arthrobacter</i> sp. (strain FB24) GN
A0K3P5	<i>Burkholderia cenocepacia</i> (strain HI2424) GN
A0KF41	<i>Aeromonas hydrophila</i> subsp. <i>hydrophila</i> (strain ATCC 7966 / NCIB 9240) GN
A0KRP4	<i>Shewanella</i> sp. (strain ANA-3) GN
A0L5Z3	<i>Magnetococcus</i> sp. (strain MC-1) GN
A0LIL0	<i>Syntrophobacter fumaroxidans</i> (strain DSM 10017 / MPOB) GN
A0LRP0	<i>Acidothermus cellulolyticus</i> (strain ATCC 43068 / 11B) GN
A0M578	<i>Gramella forsetii</i> (strain KT0803) GN
A0NWG3	<i>Labrenzia aggregata</i> IAM 12614 GN
A0PM97	<i>Mycobacterium ulcerans</i> (strain Agy99) GN
A0PXW6	<i>Clostridium novyi</i> (strain NT) GN
A0Q4K3	<i>Francisella tularensis</i> subsp. <i>novicida</i> (strain U112) GN
A0QKY1	<i>Mycobacterium avium</i> (strain 104) GN
A0QSH7	<i>Mycobacterium smegmatis</i> (strain ATCC 700084 / mc(2)155) GN
A0R8K0	<i>Bacillus thuringiensis</i> (strain Al Hakam) GN
A0REV3	<i>Bacillus thuringiensis</i> (strain Al Hakam) GN
A0RM30	<i>Campylobacter fetus</i> subsp. <i>fetus</i> (strain 82-40) GN
A0TM30	<i>Burkholderia ambifaria</i> MC40-6
A0U5Y6	<i>Burkholderia cenocepacia</i> MC0-3
A0UU94	<i>Burkholderia multivorans</i> ATCC 17616
A0V0G6	<i>Clostridium cellulolyticum</i>
A0VAX3	<i>Delftia acidovorans</i>
A0VPW8	<i>Dinoroseobacter shibae</i>
A0WBZ7	<i>Geobacter lovleyi</i> SZ
A0Y5J6	<i>Alteromonadales bacterium</i> TW-7 GN
A0YGL9	<i>marine gamma proteobacterium</i> HTCC2143 GN
A0YJS5	<i>Lyngbya</i> sp. PCC 8106 GN
A0Z158	<i>marine gamma proteobacterium</i> HTCC2080 GN
A0ZG57	<i>Nodularia spumigena</i> CCY 9414 GN
A1A089	<i>Bifidobacterium adolescentis</i> (strain ATCC 15703 / DSM 20083) GN
A1AGJ0	<i>Escherichia coli</i> O1:K1 / APEC GN
A1ALW1	<i>Pelobacter propionicus</i> (strain DSM 2379) GN
A1AVM0	<i>Ruthia magnifica</i> subsp. <i>Calyptogena magnifica</i> GN
A1B048	<i>Paracoccus denitrificans</i> (strain Pd 1222) GN
A1B1J4	<i>Chlorobium phaeobacteroides</i> (strain DSM 266) GN
A1C3L4	<i>Streptococcus parasanguis</i> GN
A1ESM7	<i>Vibrio cholerae</i> V52 GN
A1FB01	<i>Vibrio cholerae</i> 2740-80 GN
A1FKH0	<i>Pseudomonas putida</i> W619
A1G0W2	<i>Stenotrophomonas maltophilia</i> R551-3
A1G491	<i>Salinispora arenicola</i> CNS-205
A1HK60	<i>Ralstonia pickettii</i> 12J
A1HQN1	<i>Thermosinus carboxydivorans</i> Nor1 GN
A1I7T8	<i>Candidatus Desulfococcus oleovorans</i> Hxd3
A1INX0	<i>Neisseria meningitidis</i> serogroup A GN
A1JS07	<i>Yersinia enterocolitica</i> serotype O:8 / biotype 1B (strain 8081) GN
A1JVF2	<i>Flavescence doree</i> phytoplasma GN
A1JVF3	<i>Flavescence doree</i> phytoplasma GN
A1JVF4	<i>Flavescence doree</i> phytoplasma GN
A1JVF5	<i>Flavescence doree</i> phytoplasma GN
A1JVF6	<i>Flavescence doree</i> phytoplasma GN
A1JVF7	<i>Flavescence doree</i> phytoplasma GN
A1JVF8	<i>Flavescence doree</i> phytoplasma GN
A1JVF9	<i>Flavescence doree</i> phytoplasma GN
A1JVG0	<i>Flavescence doree</i> phytoplasma GN
A1JVG1	<i>Flavescence doree</i> phytoplasma GN
A1JVG2	<i>Flavescence doree</i> phytoplasma GN
A1JVG3	<i>Flavescence doree</i> phytoplasma GN
A1JVG4	<i>Elm yellows</i> phytoplasma GN
A1JVG5	'Apocynun cannabinum' phytoplasma HD1 GN
A1JVG6	<i>Candidatus Phytoplasma rubi</i> GN
A1KB07	<i>Azoarcus</i> sp. (strain BH72) GN
A1KGL3	<i>Mycobacterium bovis</i> (strain BCG / Pasteur 1173P2) GN
A1KRJ3	<i>Neisseria meningitidis</i> serogroup C / serotype 2a (strain ATCC 700532 / FAM18) GN
A1QP7F	<i>Mycobacterium tuberculosis</i> (strain F11) GN
A1R8S6	<i>Arthrobacter aureus</i> (strain TC1) GN
A1RED4	<i>Shewanella</i> sp. (strain W3-18-1) GN
A1S238	<i>Shewanella amazonensis</i> (strain ATCC BAA-1098 / SB2B) GN
A1SNJ8	<i>Nocardioideis</i> sp. (strain BAA-499 / JS614) GN
A1T0C2	<i>Psychromonas ingrahamii</i> (strain 37) GN
A1T4T1	<i>Mycobacterium vanbaalenii</i> (strain DSM 7251 / PYR-1) GN
A1TJT7	<i>Acidovorax avenae</i> subsp. <i>citrulli</i> (strain AAC00-1) GN
A1TYL7	<i>Marinobacter aquaeolei</i> (strain ATCC 700491 / DSM 11845 / VT8) GN
A1UBR8	<i>Mycobacterium</i> sp. (strain KMS) GN
A1USR4	<i>Bartonella bacilliformis</i> (strain ATCC 35685 / KC583) GN
A1V883	<i>Burkholderia mallei</i> (strain SAVP1) GN
A1VE96	<i>Desulfovibrio vulgaris</i> subsp. <i>vulgaris</i> (strain DP4) GN
A1VJ35	<i>Polaromonas naphthalenivorans</i> (strain CJ2) GN
A1W328	<i>Acidovorax</i> sp. (strain JS42) GN
A1WK96	<i>Verminephrobacter eiseniae</i> (strain EF01-2) GN
A1WVA2	<i>Halorhodospira halophila</i> (strain DSM 244 / SL1) GN
A1XP85	<i>Aster yellows</i> phytoplasma GN

A1XWX1	<i>Shewanella putrefaciens</i> 200 GN
A1ZGT4	<i>Microscilla marina</i> ATCC 23134 GN
A2BTB9	<i>Prochlorococcus marinus</i> (strain AS9601) GN
A2BYR8	<i>Prochlorococcus marinus</i> (strain MIT 9515) GN
A2C4Y1	<i>Prochlorococcus marinus</i> (strain NATL1A) GN
A2CC46	<i>Prochlorococcus marinus</i> (strain MIT 9303) GN
A2PD79	<i>Vibrio cholerae</i> 1587 GN
A2PMT4	<i>Vibrio cholerae</i> MAK 757 GN
A2RC34	<i>Streptococcus pyogenes</i> serotype M5 (strain Manfredo) GN
A2RNN3	<i>Lactococcus lactis</i> subsp. <i>cremoris</i> (strain MG1363) GN
A2S7J6	<i>Burkholderia mallei</i> (strain NCTC 10229) GN
A2SLD7	<i>Methylibium petroleiphilum</i> (strain PM1) GN
A2TVP8	<i>Dokdonia donghaensis</i> MED134 GN
A2U3A6	<i>Polaribacter</i> sp. MED152 GN
A2U9S3	<i>Bacillus coagulans</i> 36D1 GN
A2UPF0	<i>Escherichia coli</i> B
A2VG37	<i>Mycobacterium tuberculosis</i> C GN
A2VTM7	<i>Burkholderia cenocepacia</i> PC184 GN
A2WDE1	<i>Burkholderia dolosa</i> AUO158 GN
A3CK84	<i>Streptococcus sanguinis</i> (strain SK36) GN
A3CM55	<i>Streptococcus sanguinis</i> (strain SK36) GN
A3DA52	<i>Shewanella baltica</i> (strain OS155 / ATCC BAA-1091) GN
A3DJJ2	<i>Clostridium thermocellum</i> (strain ATCC 27405 / DSM 1237) GN
A3EVQ1	<i>Leptospirillum</i> sp. Group II UBA GN
A3FWK1	<i>Listeria monocytogenes</i> J0161
A3G5N2	<i>Listeria monocytogenes</i> J2818
A3GCT8	<i>Listeria monocytogenes</i> 10403S
A3GTQ2	<i>Vibrio cholerae</i> NCTC 8457 GN
A3HLG6	<i>Pseudomonas putida</i> (strain GB-1)
A3HXd6	<i>Algoriphagus</i> sp. PR1 GN
A3IG90	<i>Bacillus</i> sp. B14905 GN
A3IQ22	<i>Cyanothece</i> sp. CCY 0110 GN
A3J1X9	<i>Flavobacteria bacterium</i> BAL38 GN
A3JEN3	<i>Marinobacter</i> sp. ELB17 GN
A3JN44	<i>Rhodobacterales bacterium</i> HTCC2150 GN
A3JXI3	<i>Sagittula stellata</i> E-37 GN
A3KZB8	<i>Pseudomonas aeruginosa</i> C3719 GN
A3M964	<i>Acinetobacter baumannii</i> (strain ATCC 17978 / NCDC KC 755) GN
A3MRX4	<i>Burkholderia mallei</i> (strain NCTC 10247) GN
A3N377	<i>Actinobacillus pleuropneumoniae</i> serotype 5b (strain L20) GN
A3NEF9	<i>Burkholderia pseudomallei</i> (strain 668) GN
A3P093	<i>Burkholderia pseudomallei</i> (strain 1106a) GN
A3PF29	<i>Prochlorococcus marinus</i> (strain MIT 9301) GN
A3PGN1	<i>Rhodobacter sphaeroides</i> (strain ATCC 17029 / ATH 2.4.9) GN
A3PVF4	<i>Mycobacterium</i> sp. (strain JLS) GN
A3Q9A2	<i>Shewanella loihica</i> (strain ATCC BAA-1088 / PV-4) GN
A3RVZ2	<i>Ralstonia solanacearum</i> UW551 GN
A3S610	<i>Prochlorococcus marinus</i> str. MIT 9211
A3S831	<i>Sulfitobacter</i> sp. EE-36 GN
A3SHY2	<i>Roseovarius nubinihibens</i> ISM GN
A3SSZ4	<i>Sulfitobacter</i> sp. NAS-14.1 GN
A3TH29	<i>Janibacter</i> sp. HTCC2649 GN
A3TU50	<i>Oceanicola batsensis</i> HTCC2597 GN
A3U7N6	<i>Croceibacter atlanticus</i> HTCC2559 GN
A3UD90	<i>Oceaniculis alexandrii</i> HTCC2633 GN
A3V0F5	<i>Vibrio splendidus</i> 12B01 GN
A3V4I6	<i>Loktanelia vestfoldensis</i> SKA53 GN
A3VFB2	<i>Rhodobacterales bacterium</i> HTCC2654 GN
A3VT40	<i>Parvularcula bermudensis</i> HTCC2503 GN
A3W6Z2	<i>Roseovarius</i> sp. 217 GN
A3WB50	<i>Erythrobacter</i> sp. NAP1 GN
A3WQ76	<i>Idiomarina baltica</i> OS145 GN
A3WVT9	<i>Nitrobacter</i> sp. Nb-311A GN
A3X439	<i>Roseobacter</i> sp. MED193 GN
A3XJV0	<i>Leeuwenhoekella blandensis</i> MED217 GN
A3Y4K5	<i>Vibrio</i> sp. MED222 GN
A3YK27	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> CF93-6 GN
A3YT80	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> 260.94 GN
A3YUK1	<i>Synechococcus</i> sp. WH 5701 GN
A3Z8V6	<i>Synechococcus</i> sp. RS9917 GN
A3ZD35	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> HB93-13 GN
A3ZFX4	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> 84-25 GN
A3ZLF1	<i>Blastopirellula marina</i> DSM 3645 GN
A4A664	<i>Congregibacter litoralis</i> KT71 GN
A4AFC3	<i>marine actinobacterium</i> PHSC20C1 GN
A4AM79	<i>Flavobacteriales bacterium</i> HTCC2170 GN
A4B5X1	<i>Alteromonas macleodii</i> 'Deep ecotype'
A4BT28	<i>Nitrococcus mobilis</i> Nb-231 GN
A4C2X0	<i>Polaribacter irgensii</i> 23-P GN
A4CFY4	<i>Pseudoalteromonas tunicata</i> D2 GN
A4CJW1	<i>Robiginitalea biformata</i> HTCC2501 GN
A4CSN4	<i>Synechococcus</i> sp. (strain WH7805) GN
A4DHH9	<i>Listeria monocytogenes</i> FSL N1-017
A4DQ17	<i>Listeria monocytogenes</i> FSL N3-165
A4DXG3	<i>Listeria monocytogenes</i> F6900
A4E5P8	<i>Listeria monocytogenes</i> HPB2262
A4EA78	<i>Collinsella aerofaciens</i> ATCC 25986 GN
A4EN77	<i>Roseobacter</i> sp. CCS2 GN
A4F014	<i>Roseobacter</i> sp. SK209-2-6 GN
A4FPK2	<i>Saccharopolyspora erythraea</i> (strain NRRL 23338) GN

A4G9R8 *Hermiimonas arsenicoxydans* GN
A4IJK8 *Geobacillus thermodenitrificans* (strain NG80-2) GN
A4IZR4 *Francisella tularensis* subsp. *tularensis* (strain WY96-3418) GN
A4JL31 *Desulfotomaculum reducens* (strain MI-1) GN
A4JAR0 *Burkholderia vietnamiensis* (strain G4 / LMG 22486) GN
A4KF52 *Mycobacterium tuberculosis* str. *Haarlem* GN
A4KPP8 *Francisella tularensis* subsp. *holarctica* 257 GN
A4LT23 *Burkholderia pseudomallei* 305 GN
A4M2W4 *Geobacter bemidjiensis* Bem
A4M9U2 *Petrogorgia mobilis* SJ95
A4MWS3 *Haemophilus influenzae* 22.1-21 GN
A4N338 *Haemophilus influenzae* R3021 GN
A4N7K5 *Haemophilus influenzae* 3655 GN
A4NF66 *Haemophilus influenzae* PittAA GN
A4NK90 *Haemophilus influenzae* PittHH GN
A4NPJ4 *Haemophilus influenzae* PittII GN
A4NX84 *Haemophilus influenzae* 22.4-21 GN
A4QBP2 *Corynebacterium glutamicum* (strain R) GN
A4SCS9 *Prosthecochloris vibrioformis* (strain DSM 265) GN
A4SSY6 *Aeromonas salmonicida* (strain A449) GN
A4SUU1 *Polynucleobacter* sp. (strain QLV-P1DMWA-1) GN
A4TED8 *Mycobacterium gilvum* (strain PYR-GCK) GN
A4TH11 *Yersinia pestis* (strain Pestoides F) GN
A4U4G1 *Magnetospirillum gryphiswaldense* GN
A4VHQ0 *Pseudomonas stutzeri* (strain A1501) GN
A4VSH3 *Streptococcus suis* (strain 05ZYH33) GN
A4VYR2 *Streptococcus suis* (strain 98HAH33) GN
A4WFA8 *Enterobacter* sp. (strain 638) GN
A4WV18 *Rhodobacter sphaeroides* (strain ATCC 17025 / ATH 2.4.3) GN
A4XBM6 *Salinispora tropica* (strain ATCC BAA-916 / DSM 44818 / CNB-440) GN
A4XLR1 *Caldicellulosiruptor saccharolyticus* (strain ATCC 43494 / DSM 8903) GN
A4XZ70 *Pseudomonas mendocina* (strain ymp) GN
A4YBW3 *Shewanella putrefaciens* (strain CN-32 / ATCC BAA-453) GN
A4YSL2 *Bradyrhizobium* sp. (strain ORS278) GN
A5CCJ3 *Orientia tsutsugamushi* (strain Boryong) GN
A5CU94 *Clavibacter michiganensis* subsp. *michiganensis* (strain NCPPB 382) GN
A5CX14 *Vesicomyxosocius okutanii* subsp. *Calyptogena okutanii* (strain HA) GN
A5D5H5 *Pelotomaculum thermopropionicum* (strain DSM 13744 / JCM 10971 / SI) GN
A5ELK7 *Bradyrhizobium* sp. (strain BTai1 / ATCC BAA-1182) GN
A5EX98 *Dichelobacter nodosus* (strain VCS1703A) GN
A5F560 *Vibrio cholerae* serotype O1 (strain ATCC 39541 / Ogawa 395 / O395) GN
A5FN01 *Flavobacterium johnsoniae* (strain ATCC 17061 / DSM 2064 / UW101) GN
A5FRW4 *Dehalococcoides* sp. (strain BAV1) GN
A5FZU5 *Acidiphilium cryptum* (strain JF-5) GN
A5GAW2 *Geobacter uraniireducens* (strain Rf4) GN
A5GIS7 *Synechococcus* sp. (strain WH7803) GN
A5GVX8 *Synechococcus* sp. (strain RCC307) GN
A5I7I6 *Clostridium botulinum* (strain Hall / ATCC 3502 / NCTC 13319 / Type A) GN
A5IHP5 *Legionella pneumophila* (strain Corby) GN
A5IMA3 *Thermotoga petrophila* (strain RKU-1 / ATCC BAA-488 / DSM 13995) GN
A5IV14 *Staphylococcus aureus* (strain JH9) GN
A5IW80 *Staphylococcus aureus* (strain JH9) GN
A5IYW5 *Mycoplasma agalactiae* (strain PG2) GN
A5J4S8 *Burkholderia mallei* FMH GN
A5KHP6 *Campylobacter jejuni* subsp. *jejuni* CG8486 GN
A5KQE1 *Ruminococcus torques* ATCC 27756 GN
A5L8L1 *Vibrionales bacterium* SWAT-3 GN
A5L9F2 *Streptococcus pneumoniae* SP3-BS71 GN
A5LJD1 *Streptococcus pneumoniae* SP6-BS73 GN
A5LN99 *Streptococcus pneumoniae* SP6-BS73 GN
A5LT01 *Streptococcus pneumoniae* SP9-BS68 GN
A5LYH1 *Streptococcus pneumoniae* SP11-BS70 GN
A5M4Y7 *Streptococcus pneumoniae* SP14-BS69 GN
A5MDR1 *Streptococcus pneumoniae* SP18-BS74 GN
A5MLF6 *Streptococcus pneumoniae* SP19-BS75 GN
A5MS30 *Streptococcus pneumoniae* SP23-BS72 GN
A5N4R7 *Clostridium kluyveri* (strain ATCC 8527 / DSM 555 / NCIMB 10680) GN
A5NPP8 *Methylobacterium* sp. 4-46
A5P6Y3 *Erythrobacter* sp. SD-21 GN
A5TH78 *Burkholderia mallei* 2002721280 GN
A5TVB7 *Fusobacterium nucleatum* subsp. *polymorphum* ATCC 10953 GN
A5U0B8 *Mycobacterium tuberculosis* (strain ATCC 25177 / H37Ra) GN
A5UDS7 *Haemophilus influenzae* (strain PittEE) GN
A5UHV1 *Haemophilus influenzae* (strain PittGG) GN
A5USG9 *Roseiflexus* sp. (strain RS-1) GN
A5V5Y2 *Sphingomonas wittichii* (strain RW1 / DSM 6014 / JCM 10273) GN
A5VLI5 *Lactobacillus reuteri* (strain DSM 20016) GN
A5VQY6 *Brucella ovis* (strain ATCC 25840 / 63/290 / NCTC 10512) GN
A5VXR7 *Pseudomonas putida* (strain F1 / ATCC 700007) GN
A5WCL0 *Psychrobacter* sp. (strain PRwf-1) GN
A5XQS0 *Burkholderia mallei* JHU GN
A5YRG9 *Flavescence doree phytoplasma* GN
A5YRH0 *Flavescence doree phytoplasma* GN
A5Z589 *Eubacterium ventriosum* ATCC 27560 GN
A5ZBJ1 *Bacteroides caccae* ATCC 43185 GN
A5ZW98 *Ruminococcus obeum* ATCC 29174 GN
A6A8A1 *Vibrio cholerae* MZO-2 GN
A6AIE8 *Vibrio cholerae* 623-39 GN
A6BIS2 *Dorea longicatena* DSM 13814 GN
A6BVR5 *Yersinia pestis* CA88-4125 GN

A6CGP8	<i>Planctomyces maris</i> DSM 8797 GN
A6D9B1	<i>Vibrio shilonii</i> AK1 GN
A6DRC9	<i>Lentisphaera araneosa</i> HTCC2155 GN
A6E0Q6	<i>Roseovarius</i> sp. TM1035 GN
A6EHP4	<i>Pedobacter</i> sp. BAL39 GN
A6ERJ5	unidentified eubacterium SCB49 GN
A6F153	<i>Marinobacter algicola</i> DG893 GN
A6FJT8	<i>Moritella</i> sp. PE36 GN
A6FUL9	<i>Roseobacter</i> sp. AzwK-3b GN
A6GCG0	<i>Plesiocystis pacifica</i> SIR-1 GN
A6GPH6	<i>Limnobacter</i> sp. MED105 GN
A6GZ79	<i>Flavobacterium psychrophilum</i> (strain JIP02/86 / ATCC 49511) GN
A6KYH5	<i>Bacteroides vulgatus</i> (strain ATCC 8482 / DSM 1447 / NCTC 11154) GN
A6LEH1	<i>Parabacteroides distasonis</i> (strain ATCC 8503 / DSM 20701 / NCTC 11152) GN
A6LLN3	<i>Thermosiphon melanesiensis</i> (strain BI429 / DSM 12029) GN
A6LPT1	<i>Clostridium beijerinckii</i> (strain ATCC 51743 / NCIMB 8052) GN
A6NXF0	<i>Bacteroides capillosus</i> ATCC 29799 GN
A6PPY0	<i>Victivallis vadensis</i> ATCC BAA-548 GN
A6Q1J7	<i>Nitratiruptor</i> sp. (strain SB155-2) GN
A6QCR7	<i>Sulfurovum</i> sp. (strain NBC37-1) GN
A6QJ72	<i>Staphylococcus aureus</i> (strain Newman) GN
A6QKE2	<i>Staphylococcus aureus</i> (strain Newman) GN
A6T3I4	<i>Janthinobacterium</i> sp. (strain Marseille) (Minibacterium massiliensis) GN
A6TEV2	<i>Klebsiella pneumoniae</i> subsp. pneumoniae (strain ATCC 700721 / MGH 78578) GN
A6TWG2	<i>Alkaliphilus metalliredigens</i> (strain QYMF) GN
A6U3V5	<i>Staphylococcus aureus</i> (strain JH1) GN
A6U537	<i>Staphylococcus aureus</i> (strain JH1) GN
A6U879	<i>Sinorhizobium medicae</i> (strain WSM419) GN
A6UZK8	<i>Pseudomonas aeruginosa</i> (strain PA7) GN
A6VLK8	<i>Actinobacillus succinogenes</i> (strain ATCC 55618 / 130Z) GN
A6W372	<i>Marinomonas</i> sp. (strain MWYL1) GN
A6W5V8	<i>Kineococcus radiotolerans</i> (strain ATCC BAA-149 / DSM 14245 / SRS30216) GN
A6WHU8	<i>Shewanella baltica</i> (strain OS185) GN
A6X0D8	<i>Ochrobactrum anthropi</i> (strain ATCC 49188 / DSM 6882 / NCTC 12168) GN
A7A442	<i>Bifidobacterium adolescentis</i> L2-32 GN
A7AJY8	<i>Parabacteroides merdae</i> ATCC 43184 GN
A7B525	<i>Ruminococcus gnavus</i> ATCC 29149 GN
A7B9M4	<i>Actinomyces odontolyticus</i> ATCC 17982 GN
A7C3F2	<i>Beggiatoa</i> sp. PS GN
A7CI25	<i>Ralstonia pickettii</i> 12D GN
A7CWY4	<i>Opitutaceae bacterium</i> TAV2 GN
A7DE13	<i>Methylobacterium extorquens</i> PA1
A7FNL4	<i>Yersinia pseudotuberculosis</i> serotype O:1b (strain IP 31758) GN
A7FQ38	<i>Clostridium botulinum</i> (strain ATCC 19397 / Type A) GN
A7GJ54	<i>Clostridium botulinum</i> (strain Langeland / NCTC 10281 / Type F) GN
A7GK40	<i>Bacillus cereus</i> subsp. cytotoxis (strain NVH 391-98) GN
A7GPS7	<i>Bacillus cereus</i> subsp. cytotoxis (strain NVH 391-98) GN
A7H637	<i>Campylobacter jejuni</i> subsp. doylei (strain ATCC BAA-1458 / RM4099 / 269.97) GN
A7HBN8	<i>Anaeromyxobacter</i> sp. (strain Fw109-5) GN
A7HM32	<i>Fervidobacterium nodosum</i> (strain ATCC 35602 / DSM 5306 / Rt17-B1) GN
A7HWT1	<i>Parvibaculum lavamentivorans</i> (strain DS-1 / DSM 13023 / NCIMB 13966) GN
A7HZM5	<i>Campylobacter hominis</i> (strain ATCC BAA-381 / LMG 19568 / NCTC 13146 / CH001A) GN
A7IPQ0	<i>Xanthobacter autotrophicus</i> (strain ATCC BAA-1158 / Py2) GN
A7JDB9	<i>Francisella tularensis</i> subsp. tularensis FSC033 GN
A7JFX1	<i>Francisella novicida</i> GA99-3549 GN
A7JK45	<i>Francisella novicida</i> GA99-3548 GN
A7JW19	<i>Mannheimia haemolytica</i> PHL213 GN
A7LT67	<i>Bacteroides ovatus</i> ATCC 8483 GN
A7MPF4	<i>Enterobacter sakazakii</i> (strain ATCC BAA-894) GN
A7MWH8	<i>Vibrio harveyi</i> (strain ATCC BAA-1116 / BB120) GN
A7N9U5	<i>Francisella tularensis</i> subsp. holarctica (strain FTA) GN
A7NR43	<i>Roseiflexus castenholzii</i> (strain DSM 13941 / HLO8) GN
A7UZR0	<i>Bacteroides uniformis</i> ATCC 8492 GN
A7VH89	<i>Clostridium</i> sp. L2-50 GN
A7VR33	<i>Clostridium leptum</i> DSM 753 GN
A7W8D3	<i>Methylobacterium chloromethanicum</i> CM4
A7X5D3	<i>Staphylococcus aureus</i> (strain Mu3 / ATCC 700698) GN
A7X740	<i>Staphylococcus aureus</i> (strain Mu3 / ATCC 700698) GN
A7YRP2	<i>Francisella tularensis</i> subsp. holarctica FSC022 GN
A7Z0Q8	<i>Bacillus amyloliquefaciens</i> (strain FZB42) GN
A7ZFZ3	<i>Campylobacter concisus</i> (strain 13826) GN
A7ZS19	<i>Escherichia coli</i> O139:H28 (strain E24377A / ETEC) GN
A8A5A5	<i>Escherichia coli</i> O9:H4 (strain HS) GN
A8AQJ4	<i>Citrobacter koseri</i> (strain ATCC BAA-895 / CDC 4225-83 / SGSC4696) GN
A8AWV0	<i>Streptococcus gordonii</i> (strain Challis / ATCC 35105 / CH1 / DL1 / V288) GN
A8AZK5	<i>Streptococcus gordonii</i> (strain Challis / ATCC 35105 / CH1 / DL1 / V288) GN
A8CRX1	<i>Dehalococcoides</i> sp. VS GN
A8D2N7	<i>Methylobacterium populi</i> BJ001
A8EM50	<i>Burkholderia pseudomallei</i> 406e GN
A8ESW2	<i>Arcobacter butzleri</i> (strain RM4018) GN
A8EZJ6	<i>Rickettsia canadensis</i> (strain McKiel) GN
A8F2C7	<i>Rickettsia massiliae</i> (strain Mtu5) GN
A8F4T1	<i>Thermotoga lettingae</i> (strain ATCC BAA-301 / DSM 14385 / TMO) GN
A8F9A5	<i>Bacillus pumilus</i> (strain SAFR-032) GN
A8FP02	<i>Campylobacter jejuni</i> subsp. jejuni serotype O:6 (strain 81116 / NCTC 11828) GN
A8G1C9	<i>Shewanella sediminis</i> (strain HAW-EB3) GN
A8G743	<i>Prochlorococcus marinus</i> (strain MIT 9215) GN
A8GKH7	<i>Serratia proteamaculans</i> (strain 568) GN
A8GPD0	<i>Rickettsia akari</i> (strain Hartford) GN
A8GT49	<i>Rickettsia rickettsii</i> (strain Sheila Smith) GN

A8GVD4	<i>Rickettsia bellii</i> (strain OSU 85-389) GN
A8GYZ6	<i>Shewanella pealeana</i> (strain ATCC 700345 / ANG-SQ1) GN
O08387	<i>Staphylococcus aureus</i> (strain NCTC 8325) GN
O25879	<i>Helicobacter pylori</i> GN
O33006	<i>Mycobacterium leprae</i> GN
O51451	<i>Borrelia burgdorferi</i> GN
O52351	<i>Mycoplasma gallisepticum</i> GN
O52758	<i>Mycobacterium smegmatis</i> GN
O66491	<i>Aquifex aeolicus</i> GN
O83238	<i>Treponema pallidum</i> GN
P0A4H0	<i>Synechococcus elongatus</i> (strain PCC 7942) GN
P0A4H1	<i>Synechococcus</i> sp. (strain ATCC 27144 / PCC 6301 / SAUG 1402/1) GN
P0A5Z2	<i>Mycobacterium tuberculosis</i> GN
P0A5Z3	<i>Mycobacterium bovis</i> GN
P0AGA2	<i>Escherichia coli</i> (strain K12) GN
P0AGA3	<i>Escherichia coli</i> O6 GN
P0AGA4	<i>Escherichia coli</i> O157:H7 GN
P0AGA5	<i>Shigella flexneri</i> GN
P10250	<i>Mycoplasma capricolum</i> subsp. <i>capricolum</i> (strain California kid / ATCC 27343 / NCTC 10154) GN
P16336	<i>Bacillus subtilis</i> GN
P27148	<i>Lactococcus lactis</i> subsp. <i>cremoris</i> GN
P28539	<i>Chlamydia trachomatis</i> GN
P33108	<i>Micrococcus luteus</i> GN
P38375	<i>Bacillus halodurans</i> GN
P38376	<i>Corynebacterium glutamicum</i> GN
P43416	<i>Streptomyces scabies</i> GN
P43804	<i>Haemophilus influenzae</i> GN
P46785	<i>Streptomyces coelicolor</i> GN
P47416	<i>Mycoplasma genitalium</i> GN
P49976	<i>Buchnera aphidicola</i> subsp. <i>Acyrtosiphon kondoi</i> GN
P49977	<i>Streptomyces lividans</i> GN
P57571	<i>Buchnera aphidicola</i> subsp. <i>Acyrtosiphon pisum</i> GN
P58118	<i>Lactococcus lactis</i> subsp. <i>lactis</i> GN
P77964	<i>Synechocystis</i> sp. (strain PCC 6803) GN
P78283	<i>Vibrio cholerae</i> GN
Q01WB2	<i>Solibacter usitatus</i> (strain Ellin6076) GN
Q02T60	<i>Pseudomonas aeruginosa</i> (strain UCBPP-PA14) GN
Q02W45	<i>Lactococcus lactis</i> subsp. <i>cremoris</i> (strain SK11) GN
Q035A3	<i>Lactobacillus casei</i> (strain ATCC 334) GN
Q03ED6	<i>Pediococcus pentosaceus</i> (strain ATCC 25745 / 183-1w) GN
Q03HZ8	<i>Pediococcus pentosaceus</i> (strain ATCC 25745 / 183-1w) GN
Q03IH1	<i>Streptococcus thermophilus</i> (strain ATCC BAA-491 / LMD-9) GN
Q03PX7	<i>Lactobacillus brevis</i> (strain ATCC 367 / JCM 1170) GN
Q03ZM6	<i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i> (strain ATCC 8293 / NCDO 523) GN
Q046A6	<i>Lactobacillus gasseri</i> (strain ATCC 33323 / DSM 20243) GN
Q04BZ5	<i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> (strain ATCC BAA-365) GN
Q04G66	<i>Oenococcus oeni</i> (strain BAA-331 / PSU-1) GN
Q04ML6	<i>Streptococcus pneumoniae</i> serotype 2 (strain D39 / NCTC 7466) GN
Q04PV8	<i>Leptospira borgpetersenii</i> serovar <i>Hardjo-ovis</i> (strain JB197) GN
Q05207	<i>Bacillus licheniformis</i> (strain DSM 13 / ATCC 14580) GN
Q05217	<i>Staphylococcus carnosus</i> GN
Q055C4	<i>Leptospira borgpetersenii</i> serovar <i>Hardjo-ovis</i> (strain L550) GN
Q057C4	<i>Buchnera aphidicola</i> subsp. <i>Cinara cedri</i> GN
Q05QD1	<i>Synechococcus</i> sp. <i>RS9916</i> GN
Q060T9	<i>Synechococcus</i> sp. <i>BL107</i> GN
Q06VW3	<i>Paulownia witches'-broom phytoplasma</i> GN
Q07KN8	<i>Rhodopseudomonas palustris</i> (strain BisA53) GN
Q089N4	<i>Shewanella frigidimarina</i> (strain NCIMB 400) GN
Q08ZH8	<i>Stigmatella aurantiaca</i> DW4/3-1 GN
Q09KN2	<i>Leptospira interrogans</i> serovar <i>Bataviae</i> GN
Q0ABF5	<i>Alkalilimnicola ehrlichei</i> (strain MLHE-1) GN
Q0AIH6	<i>Nitrosomonas eutropha</i> (strain C91) GN
Q0ANS0	<i>Maricaulis maris</i> (strain MCS10) GN
Q0AUK0	<i>Syntrophomonas wolfei</i> subsp. <i>wolfei</i> (strain Goettingen) GN
Q0BJ26	<i>Burkholderia ambifaria</i> (strain ATCC BAA-244 / AMMD) GN
Q0BNQ7	<i>Francisella tularensis</i> subsp. <i>holarctica</i> (strain OSU18) GN
Q0BUN0	<i>Granulibacter bethesdaensis</i> (strain ATCC BAA-1260 / CGDNIH1) GN
Q0BYD4	<i>Hyphomonas neptunium</i> (strain ATCC 15444) GN
Q0EPV1	<i>Thermoanaerobacter ethanolicus</i> X514
Q0EW56	<i>Mariprofundus ferrooxydans</i> PV-1 GN
Q0FAA0	<i>Rhodobacterales bacterium</i> HTCC2255 GN
Q0FHN1	<i>Roseovarius</i> sp. <i>HTCC2601</i> GN
Q0G7F5	<i>Fulvimarina pelagi</i> HTCC2506 GN
Q0HNR7	<i>Shewanella</i> sp. (strain MR-4) GN
Q0I085	<i>Shewanella</i> sp. (strain MR-7) GN
Q0I142	<i>Haemophilus somnus</i> (strain 129Pt) GN
Q0ID23	<i>Synechococcus</i> sp. (strain CC9311) GN
Q0K639	<i>Ralstonia eutropha</i> (strain ATCC 17699 / H16 / DSM 428 / Stanier 337) GN
Q0KLU3	<i>Shewanella baltica</i> OS195
Q0LPX6	<i>Herpetosiphon aurantiacus</i> ATCC 23779
Q0M4Z5	<i>Caulobacter</i> sp. <i>K31</i>
Q0P7U3	<i>Campylobacter jejuni</i> GN
Q0PN08	<i>Chrysanthemum yellows phytoplasma</i> PE
Q0Q7H2	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i> serotype O:23/36 (strain 81-176) GN
Q0RRQ1	<i>Frankia alni</i> (strain ACN14a) GN
Q0S3F6	<i>Rhodococcus</i> sp. (strain RHA1) GN
Q0SN09	<i>Borrelia afzelii</i> (strain PKo) GN
Q0SQG4	<i>Clostridium perfringens</i> (strain SM101 / Type A) GN
Q0T002	<i>Shigella flexneri</i> serotype 5b (strain 8401) GN
Q0TCG1	<i>Escherichia coli</i> O6:K15:H31 (strain 536 / UPEC) GN

Q0TMR6 *Clostridium perfringens* (strain ATCC 13124 / NCTC 8237 / Type A) GN
 Q0VSI3 *Alcanivorax borkumensis* (strain SK2 / ATCC 700651 / DSM 11573) GN
 Q0YHL6 *Geobacter* sp. FRC-32
 Q0YR54 *Chlorobium ferrooxidans* DSM 13031 GN
 Q110C5 *Trichodesmium erythraeum* (strain IMS101) GN
 Q11HS2 *Mesorhizobium* sp. (strain BNC1) GN
 Q11QD2 *Cytophaga hutchinsonii* (strain ATCC 33406 / NCIMB 9469) GN
 Q12G83 *Polaromonas* sp. (strain JS666 / ATCC BAA-500) GN
 Q12ST9 *Shewanella denitrificans* (strain OS217 / ATCC BAA-1090 / DSM 15013) GN
 Q134U9 *Rhodopseudomonas palustris* (strain BisB5) GN
 Q13TJ0 *Burkholderia xenovorans* (strain LB400) GN
 Q14JA0 *Francisella tularensis* subsp. *tularensis* (strain FSC 198) GN
 Q14PJ3 *Spiroplasma citri* GN
 Q14RR6 *Flavescence doree phytoplasma* GN
 Q15X53 *Pseudoalteromonas atlantica* (strain T6c / BAA-1087) GN
 Q16AC3 *Roseobacter denitrificans* (strain ATCC 33942 / OCh 114) GN
 Q17ZC0 *Helicobacter acinonychis* (strain Sheeba) GN
 Q18CH6 *Clostridium difficile* (strain 630) GN
 Q18VC2 *Desulfitobacterium hafniense* (strain DCB-2)
 Q1AU49 *Rubrobacter xylanophilus* (strain DSM 9941 / NBRC 16129) GN
 Q1BD74 *Mycobacterium* sp. (strain MCS) GN
 Q1BRW8 *Burkholderia cenocepacia* (strain AU 1054) GN
 Q1C2W7 *Yersinia pestis* bv. *Antiqua* (strain *Antiqua*) GN
 Q1CCW4 *Yersinia pestis* bv. *Antiqua* (strain Nepal516) GN
 Q1CRW0 *Helicobacter pylori* (strain HPAG1) GN
 Q1D755 *Myxococcus xanthus* (strain DK 1622) GN
 Q1EU45 *Alkaliphilus oremlandii* OhILAs
 Q1FEQ4 *Clostridium phytofermentans* ISDg
 Q1GBJ8 Sequence
 Q1GK08
 Q1GPB9 *Sphingopyxis alaskensis* GN
 Q1H4L7 *Methylobacillus flagellatus* (strain KT / ATCC 51484 / DSM 6875) GN
 Q1IFU6 *Pseudomonas entomophila* (strain L48) GN
 Q1ISA2 *Acidobacteria bacterium* (strain Ellin345) GN
 Q1IX92 *Deinococcus geothermalis* (strain DSM 11300) GN
 Q1JBZ3 *Streptococcus pyogenes* serotype M4 (strain MGAS10750) GN
 Q1JE39 *Streptococcus pyogenes* serotype M12 (strain MGAS2096) GN
 Q1JJ42 *Streptococcus pyogenes* serotype M2 (strain MGAS10270) GN
 Q1JNZ7 *Streptococcus pyogenes* serotype M12 (strain MGAS9429) GN
 Q1JXZ1 *Desulfuromonas acetoxidans* DSM 684 GN
 Q1L157 *Ralstonia metallidurans* (strain CH34 / ATCC 43123 / DSM 2839) GN
 Q1LTB8 *Baumannia cicadellinicola* subsp. *Homalodisca coagulata* GN
 Q1MIC1 *Rhizobium leguminosarum* bv. *viciae* (strain 3841) GN
 Q1MPP6 *Lawsonia intracellularis* (strain PHE/MN1-00) GN
 Q1N0X8 *Bermanella marisrubri* GN
 Q1N7X4 *Sphingomonas* sp. SKA58 GN
 Q1NPL8 *delta proteobacterium MLMS-1* GN
 Q1NYZ7 *Candidatus Sulcia muelleri* str. Hc (*Homalodisca coagulata*) GN
 Q1Q157 *Candidatus Kuenenia stuttgartiensis* GN
 Q1QDG6 *Psychrobacter cryohalolentis* (strain K5) GN
 Q1QN10 *Nitrobacter hamburgensis* (strain X14 / DSM 10229) GN
 Q1R0F5 *Chromohalobacter salexigens* (strain DSM 3043 / ATCC BAA-138 / NCIMB 13768) GN
 Q1R631 *Escherichia coli* (strain UTI89 / UPEC) GN
 Q1RHP1 *Rickettsia bellii* (strain RML369-C) GN
 Q1U800 *Lactobacillus reuteri* 100-23
 Q1UZE8 *Candidatus Pelagibacter ubique* HTCC1002 GN
 Q1V371 *Vibrio alginolyticus* 12G01 GN
 Q1VTY0 *Psychroflexus torquis* ATCC 700755 GN
 Q1WSB0 *Lactobacillus salivarius* subsp. *salivarius* (strain UCC118) GN
 Q1YNG1 *Manganese-oxidizing bacterium* (strain SI85-9A1) GN
 Q1YNU2 *gamma proteobacterium* HTCC2207 GN
 Q1YW61 *Photobacterium profundum* 3TCK GN
 Q1ZBR6 *Psychromonas* sp. CNPT3 GN
 Q1ZJG4 *Vibrio angustum* S14 GN
 Q211G8 *Rhodopseudomonas palustris* (strain BisB18) GN
 Q21M38 *Saccharophagus degradans* (strain 2-40 / ATCC 43961 / DSM 17024) GN
 Q21QP3 *Rhodoferax ferrireducens* (strain DSM 15236 / ATCC BAA-621 / T118) GN
 Q250L2 *Desulfitobacterium hafniense* (strain Y51) GN
 Q252X1 *Chlamydomphila felis* (strain Fe/C-56) GN
 Q26D42 *Flavobacteria bacterium* BBFL7 GN
 Q28UT3 *Jannaschia* sp. (strain CCS1) GN
 Q29XU6 *Campylobacter jejuni* GN
 Q2A5F0 *Francisella tularensis* subsp. *holarctica* (strain LVS) GN
 Q2ADP9 *Halothermothrix orenii* H 168
 Q2AJ80 *Bacillus weihenstephanensis* KBAB4
 Q2AJG5 *Bacillus weihenstephanensis* KBAB4
 Q2B2N5 *Bacillus* sp. NRRL B-14911 GN
 Q2BLN6 *Neptuniibacter caesariensis* GN
 Q2BXT4 *Photobacterium* sp. SKA34 GN
 Q2CBK7 *Oceanicola granulosus* HTCC2516 GN
 Q2FDK6 *Staphylococcus aureus* (strain USA300) GN
 Q2FEQ9 *Staphylococcus aureus* (strain USA300) GN
 Q2FUW2 *Staphylococcus aureus* (strain NCTC 8325) GN
 Q2G8W0 *Novosphingobium aromaticivorans* (strain DSM 12444) GN
 Q2GEC0 *Neorickettsia sennetsu* (strain Miyayama) GN
 Q2GH37 *Ehrlichia chaffeensis* (strain Arkansas) GN
 Q2GL40 *Anaplasma phagocytophilum* (strain HZ) GN
 Q2IJ69 *Anaeromyxobacter dehalogenans* (strain 2CP-C) GN
 Q2IXP0 *Rhodopseudomonas palustris* (strain Haa2) GN
 Q2JFF6 *Frankia* sp. (strain Cc13) GN

Q2JIK9	<i>Synechococcus</i> sp. (strain JA-2-3B'a(2-13)) GN
Q2JV95	<i>Synechococcus</i> sp. (strain JA-3-3Ab) GN
Q2K9J6	<i>Rhizobium etli</i> (strain CFN 42 / ATCC 51251) GN
Q2L257	<i>Bordetella avium</i> (strain 197N) GN
Q2LQB7	<i>Syntrophus aciditrophicus</i> (strain SB) GN
Q2N9D2	<i>Erythrobacter litoralis</i> (strain HTCC2594) GN
Q2NIX4	<i>Aster yellows witches'-broom phytoplasma</i> (strain AYWB) GN
Q2NQP2	<i>Sodalis glossinidius</i> (strain morsitans) GN
Q2P005	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (strain MAFF 311018) GN
Q2RFR7	<i>Moorella thermoacetica</i> (strain ATCC 39073) GN
Q2RQY0	<i>Rhodospirillum rubrum</i> (strain ATCC 11170 / NCIB 8255) GN
Q2S3P5	<i>Salinibacter ruber</i> (strain DSM 13855) GN
Q2S932	<i>Hahella chejuensis</i> (strain KCTC 2396) GN
Q2SU47	<i>Burkholderia thailandensis</i> (strain E264 / ATCC 700388 / DSM 13276 / CIP 106301) GN
Q2W2L0	<i>Magnetospirillum magneticum</i> (strain AMB-1 / ATCC 700264) GN
Q2YAX7	<i>Nitrosospora multiformis</i> (strain ATCC 25196 / NCIMB 11849) GN
Q2YRT6	<i>Brucella abortus</i> (strain 2308) GN
Q2YYL7	<i>Staphylococcus aureus</i> (strain bovine RF122 / ET3-1) GN
Q2YZ90	<i>Staphylococcus aureus</i> (strain bovine RF122 / ET3-1) GN
Q2ZYN6	<i>Streptococcus suis</i> 89/1591 GN
Q30TU5	<i>Sulfurimonas denitrificans</i> (strain ATCC 33889 / DSM 1251) GN
Q30Z62	<i>Desulfovibrio desulfuricans</i> (strain G20) GN
Q318K2	<i>Prochlorococcus marinus</i> (strain MIT 9312) GN
Q31IW2	<i>Thiomicrospira crunigena</i> (strain XCL-2) GN
Q31VX6	<i>Shigella boydii</i> serotype 4 (strain Sb227) GN
Q32B51	<i>Shigella dysenteriae</i> serotype 1 (strain Sd197) GN
Q38UT1	<i>Lactobacillus sakei</i> subsp. <i>sakei</i> (strain 23K) GN
Q39KE7	<i>Burkholderia</i> sp. (strain 383) GN
Q39XY6	<i>Geobacter metallireducens</i> (strain GS-15 / ATCC 53774 / DSM 7210) GN
Q3AGM7	<i>Pelobacter carbinolicus</i> (strain DSM 2380 / Gra Bd 1) GN
Q3A9T6	<i>Carboxydotherrmus hydrogenoformans</i> (strain Z-2901 / DSM 6008) GN
Q3AMP8	<i>Synechococcus</i> sp. (strain CC9605) GN
Q3APJ3	<i>Chlorobium chlorochromatii</i> (strain CaD3) GN
Q3AW75	<i>Synechococcus</i> sp. (strain CC9902) GN
Q3B6E2	<i>Pelodictyon luteolum</i> (strain DSM 273) GN
Q3BWW3	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (strain 85-10) GN
Q3CF41	<i>Thermoanaerobacter ethanolicus</i> ATCC 33223
Q3D1G0	<i>Streptococcus agalactiae</i> H36B GN
Q3D431	<i>Streptococcus agalactiae</i> H36B GN
Q3D5U3	<i>Streptococcus agalactiae</i> COH1 GN
Q3D9W8	<i>Streptococcus agalactiae</i> COH1 GN
Q3DCL0	<i>Streptococcus agalactiae</i> CJB111 GN
Q3DFZ2	<i>Streptococcus agalactiae</i> CJB111 GN
Q3DDJ1	<i>Streptococcus agalactiae</i> 515 GN
Q3DM67	<i>Streptococcus agalactiae</i> 515 GN
Q3DTT1	<i>Streptococcus agalactiae</i> 18RS21 GN
Q3DVG6	<i>Streptococcus agalactiae</i> 18RS21 GN
Q3DVX0	<i>Chloroflexus aurantiacus</i> J-10-fl
Q3IJK5	<i>Pseudoalteromonas haloplanktis</i> (strain TAC 125) GN
Q3J5Q2	<i>Rhodobacter sphaeroides</i> (strain ATCC 17023 / 2.4.1 / NCIB 8253 / DSM 158) GN
Q3JBT3	<i>Nitrosococcus oceani</i> (strain ATCC 19707 / NCIMB 11848) GN
Q3JMT3	<i>Burkholderia pseudomallei</i> (strain 1710b) GN
Q3K059	<i>Streptococcus agalactiae</i> serotype Ia GN
Q3K3U9	<i>Streptococcus agalactiae</i> serotype Ia GN
Q3K608	<i>Pseudomonas fluorescens</i> (strain Pf0-1) GN
Q3KLI7	<i>Chlamydia trachomatis</i> (strain A/HAR-13 / ATCC VR-571B) GN
Q3MFA3	<i>Anabaena variabilis</i> (strain ATCC 29413 / PCC 7937) GN
Q3R245	<i>Xylella fastidiosa</i> Ann-1 GN
Q3R3D8	<i>Xylella fastidiosa</i> Ann-1 GN
Q3RCK2	<i>Xylella fastidiosa</i> Dixon GN
Q3S2Y7	<i>Streptococcus agalactiae</i> GN
Q3SLM9	<i>Thiobacillus denitrificans</i> (strain ATCC 25259) GN
Q3SSU6	<i>Nitrobacter winogradskyi</i> (strain Nb-255 / ATCC 25391) GN
Q3VJ62	<i>Pelodictyon phaeoclathratiforme</i> BU-1
Q3VQU1	<i>Prosthecochloris aestuarii</i> DSM 271
Q3WA15	<i>Frankia</i> sp. EAN1pec
Q3XYW9	<i>Enterococcus faecium</i> DO GN
Q3YRM8	<i>Ehrlichia canis</i> (strain Jake) GN
Q3YVW9	<i>Shigella sonnei</i> (strain Ss046) GN
Q3Z961	<i>Dehalococcoides ethenogenes</i> (strain 195) GN
Q3ZZQ4	<i>Dehalococcoides</i> sp. (strain CBDB1) GN
Q41AL5	<i>Exiguobacterium sibiricum</i> 255-15
Q44M12	<i>Chlorobium limicola</i> DSM 245
Q46IS7	<i>Prochlorococcus marinus</i> (strain NATL2A) GN
Q46WG4	<i>Ralstonia eutropha</i> (strain JMP134) GN
Q47J83	<i>Dechloromonas aromatica</i> (strain RCB) GN
Q47LL3	<i>Thermobifida fusca</i> (strain YX) GN
Q488Z3	<i>Colwellia psychrerythraea</i> (strain 34H / ATCC BAA-681) GN
Q48D56	<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> (strain 1448A / Race 6) GN
Q48VS9	<i>Streptococcus pyogenes</i> serotype M28 GN
Q493I9	<i>Blochmannia pennsylvanicus</i> (strain BPEN) GN
Q49ZE8	<i>Staphylococcus saprophyticus</i> subsp. <i>saprophyticus</i> (strain ATCC 15305 / DSM 20229) GN
Q4A5I3	<i>Mycoplasma synoviae</i> (strain 53) GN
Q4A8J0	<i>Mycoplasma hyopneumoniae</i> (strain 7448) GN
Q4AAF9	<i>Mycoplasma hyopneumoniae</i> (strain J / ATCC 25934 / NCTC 10110) GN
Q4AN97	<i>Chlorobium phaeobacteroides</i> BS1
Q4C153	<i>Crocospaera watsonii</i> GN
Q4EF73	<i>Listeria monocytogenes</i> str. 4b H7858 GN
Q4ENX2	<i>Listeria monocytogenes</i> str. 1/2a F6854 GN
Q4FLN7	<i>Pelagibacter ubique</i> GN

Q4FUD6	<i>Psychrobacter arcticus</i> (strain DSM 17307 / 273-4) GN
Q4HE56	<i>Campylobacter coli</i> RM2228 GN
Q4HJ06	<i>Campylobacter lari</i> RM2100
Q4HQW6	<i>Campylobacter upsaliensis</i> RM3195 GN
Q4IWP7	<i>Azotobacter vinelandii</i> DJ GN
Q4JLQ1	<i>Lactobacillus reuteri</i> GN
Q4JTB4	<i>Corynebacterium jeikeium</i> (strain K411) GN
Q4K553	<i>Pseudomonas fluorescens</i> (strain Pf-5 / ATCC BAA-477) GN
Q4L894	<i>Staphylococcus haemolyticus</i> (strain JCSC1435) GN
Q4L9N9	<i>Staphylococcus haemolyticus</i> (strain JCSC1435) GN
Q4MG72	<i>Bacillus cereus</i> G9241 GN
Q4MGD8	<i>Bacillus cereus</i> G9241 GN
Q4QMA1	<i>Haemophilus influenzae</i> (strain 86-028NP) GN
Q4UMQ9	<i>Rickettsia felis</i> GN
Q4URF9	<i>Xanthomonas campestris</i> pv. <i>campestris</i> (strain 8004) GN
Q4ZMR4	<i>Pseudomonas syringae</i> pv. <i>syringae</i> (strain B728a) GN
Q57CS8	<i>Brucella abortus</i> GN
Q57J52	<i>Salmonella choleraesuis</i> GN
Q59124	<i>Buchnera aphidicola</i> subsp. <i>Acyrtosiphon kondoi</i> GN
Q59548	<i>Mycoplasma pneumoniae</i> GN
Q59912	<i>Streptomyces galbus</i> GN
Q59916	<i>Streptomyces griseus</i> GN
Q5E894	<i>Vibrio fischeri</i> (strain ATCC 700601 / ES114) GN
Q5EU74	<i>Buchnera aphidicola</i> (Cinara cedri) GN
Q5FSU7	<i>Neisseria gonorrhoeae</i> (strain ATCC 700825 / FA 1090) GN
Q5FFR7	<i>Ehrlichia ruminantium</i> (strain Gardel) GN
Q5FM71	<i>Lactobacillus acidophilus</i> GN
Q5FU03	<i>Gluconobacter oxydans</i> GN
Q5GSW3	<i>Wolbachia</i> sp. subsp. <i>Brugia malayi</i> (strain TRS) GN
Q5GWV5	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i> GN
Q5HAU1	<i>Ehrlichia ruminantium</i> (strain Welgevonden) GN
Q5HCP4	<i>Staphylococcus aureus</i> (strain COL) GN
Q5HDX8	<i>Staphylococcus aureus</i> (strain COL) GN
Q5HKR3	<i>Staphylococcus epidermidis</i> (strain ATCC 35984 / RP62A) GN
Q5HM19	<i>Staphylococcus epidermidis</i> (strain ATCC 35984 / RP62A) GN
Q5HSA9	<i>Campylobacter jejuni</i> (strain RM1221) GN
Q5L3R9	<i>Geobacillus kaustophilus</i> GN
Q5L702	<i>Chlamydomonada abortus</i> GN
Q5L8C9	<i>Bacteroides fragilis</i> (strain ATCC 25285 / NCTC 9343) GN
Q5LW37	<i>Silicibacter pomeroyi</i> GN
Q5LXT1	<i>Streptococcus thermophilus</i> (strain CNRZ 1066) GN
Q5M2D3	<i>Streptococcus thermophilus</i> (strain ATCC BAA-250 / LMG 18311) GN
Q5NHU8	<i>Francisella tularensis</i> subsp. <i>tularensis</i> GN
Q5NQ44	<i>Zymomonas mobilis</i> GN
Q5P312	<i>Azoarcus</i> sp. (strain EbN1) GN
Q5PA77	<i>Anaplasma marginale</i> (strain St. Maries) GN
Q5PK04	<i>Salmonella paratyphi A</i> GN
Q5Q050	<i>Aster yellows phytoplasma</i> GN
Q5Q051	<i>Aster yellows phytoplasma</i> GN
Q5Q053	<i>Aster yellows phytoplasma</i> GN
Q5Q055	<i>Aster yellows phytoplasma</i> GN
Q5Q056	<i>Aster yellows phytoplasma</i> GN
Q5Q057	<i>Aster yellows phytoplasma</i> GN
Q5Q059	<i>Aster yellows phytoplasma</i> GN
Q5Q060	<i>Aster yellows phytoplasma</i> GN
Q5Q063	<i>Aster yellows phytoplasma</i> GN
Q5Q064	<i>Aster yellows phytoplasma</i> GN
Q5Q066	<i>Aster yellows phytoplasma</i> GN
Q5Q067	<i>Aster yellows phytoplasma</i> GN
Q5Q069	<i>Aster yellows phytoplasma</i> GN
Q5QXV3	<i>Idiomarina loihiensis</i> GN
Q5SHQ8	<i>Thermus thermophilus</i> (strain HB8 / ATCC 27634 / DSM 579) GN
Q5WLP2	<i>Bacillus clausii</i> (strain KSM-K16) GN
Q5WZJ2	<i>Legionella pneumophila</i> (strain Lens) GN
Q5X839	<i>Legionella pneumophila</i> (strain Paris) GN
Q5XEB5	<i>Streptococcus pyogenes</i> serotype M6 GN
Q5Z1Q2	<i>Nocardia farcinica</i> GN
Q5ZYM3	<i>Legionella pneumophila</i> subsp. <i>pneumophila</i> (strain Philadelphia 1 / ATCC 33152 / DSM 7513) GN
Q601J5	<i>Mycoplasma hyopneumoniae</i> (strain 232) GN
Q605D2	<i>Methylococcus capsulatus</i> GN
Q62GM5	<i>Burkholderia mallei</i> GN
Q63AK9	<i>Bacillus cereus</i> (strain ZK / E33L) GN
Q63H70	<i>Bacillus cereus</i> (strain ZK / E33L) GN
Q63Q31	<i>Burkholderia pseudomallei</i> GN
Q64NM8	<i>Bacteroides fragilis</i> GN
Q65QX5	<i>Mannheimia succiniciproducens</i> (strain MBEL55E) GN
Q661C2	<i>Borrelia garinii</i> GN
Q664U1	<i>Yersinia pseudotuberculosis</i> GN
Q67JW3	<i>Symbiobacterium thermophilum</i> GN
Q68W98	<i>Rickettsia typhi</i> GN
Q6A6Q3	<i>Propionibacterium acnes</i> GN
Q6AD14	<i>Leifsonia xyli</i> subsp. <i>xyli</i> GN
Q6AP50	<i>Desulfotalea psychrophila</i> GN
Q6CZZ0	<i>Erwinia carotovora</i> subsp. <i>atroseptica</i> GN
Q6F1X5	<i>Mesoplasma florum</i> GN
Q6F7T2	<i>Acinetobacter</i> sp. (strain ADP1) GN
Q6FZE2	<i>Bartonella quintana</i> GN
Q6G2Y5	<i>Bartonella henselae</i> GN
Q6G621	<i>Staphylococcus aureus</i> (strain MSSA476) GN
Q6G791	<i>Staphylococcus aureus</i> (strain MSSA476) GN

Q6GDF0	<i>Staphylococcus aureus</i> (strain MRSA252) GN
Q6GEK3	<i>Staphylococcus aureus</i> (strain MRSA252) GN
Q6HHZ7	<i>Bacillus thuringiensis</i> subsp. <i>konkukian</i> GN
Q6HPN8	<i>Bacillus thuringiensis</i> subsp. <i>konkukian</i> GN
Q6KI36	<i>Mycoplasma mobile</i> GN
Q6LV96	<i>Photobacterium profundum</i> GN
Q6ME45	<i>Protochlamydia amoebophila</i> (strain UWE25) GN
Q6MJ32	<i>Bdellovibrio bacteriovorus</i> GN
Q6MSP4	<i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> SC GN
Q6N4V3	<i>Rhodopseudomonas palustris</i> GN
Q6NJ72	<i>Corynebacterium diphtheriae</i> GN
Q6Q8W8	uncultured marine gamma proteobacterium EBAC20E09 GN
Q6UCU2	uncultured marine gamma proteobacterium EB000-45B06 GN
Q6XYW9	<i>Spiroplasma kunkelii</i> PE
Q6YR02	Onion yellows phytoplasma GN
Q71WG6	<i>Listeria monocytogenes</i> serotype 4b (strain F2365) GN
Q72CG0	<i>Desulfovibrio vulgaris</i> (strain Hildenborough / ATCC 29579 / NCIMB 8303) GN
Q72I24	<i>Thermus thermophilus</i> (strain HB27 / ATCC BAA-163 / DSM 7039) GN
Q72NI1	<i>Leptospira interrogans</i> serogroup <i>Icterohaemorrhagiae</i> serovar <i>copenhageni</i> GN
Q736Y4	<i>Bacillus cereus</i> (strain ATCC 10987) GN
Q73F76	<i>Bacillus cereus</i> (strain ATCC 10987) GN
Q73HA5	<i>Wolbachia pipientis</i> wMel GN
Q73PL2	<i>Treponema denticola</i> GN
Q73S78	<i>Mycobacterium paratuberculosis</i> GN
Q749A7	<i>Geobacter sulfurreducens</i> GN
Q74L41	<i>Lactobacillus johnsonii</i> GN
Q74L70	<i>Lactobacillus johnsonii</i> GN
Q7A086	<i>Staphylococcus aureus</i> (strain MW2) GN
Q7A363	<i>Staphylococcus aureus</i> (strain N315) GN
Q7A468	<i>Staphylococcus aureus</i> (strain N315) GN
Q7CFK3	<i>Streptococcus pyogenes</i> serotype M3 GN
Q7CFT0	<i>Yersinia pestis</i> GN
Q7CNP0	<i>Streptococcus pyogenes</i> serotype M18 GN
Q7CY83	<i>Agrobacterium tumefaciens</i> (strain C58 / ATCC 33970) GN
Q7DD58	<i>Neisseria meningitidis</i> serogroup B GN
Q7M8F1	<i>Wolinella succinogenes</i> GN
Q7MPG8	<i>Vibrio vulnificus</i> (strain YJ016) GN
Q7MTN3	<i>Porphyromonas gingivalis</i> GN
Q7MYH1	<i>Photorhabdus luminescens</i> subsp. <i>laumondii</i> GN
Q7NKT4	<i>Gloeobacter violaceus</i> GN
Q7NQH2	<i>Chromobacterium violaceum</i> GN
Q7P2B8	<i>Fusobacterium nucleatum</i> subsp. <i>vincentii</i> ATCC 49256 GN
Q7P9B4	<i>Rickettsia sibirica</i> 246 GN
Q7U4I2	<i>Synechococcus</i> sp. (strain WH8102) GN
Q7UN01	<i>Rhodopirellula baltica</i> GN
Q7UZW2	<i>Prochlorococcus marinus</i> subsp. <i>pastoris</i> (strain CCMP1378 / MED4) GN
Q7V527	<i>Prochlorococcus marinus</i> (strain MIT 9313) GN
Q7V9Y0	<i>Prochlorococcus marinus</i> GN
Q7VGC5	<i>Helicobacter hepaticus</i> GN
Q7VKF3	<i>Haemophilus ducreyi</i> GN
Q7VQC8	<i>Blochmannia floridanus</i> GN
Q7VTB1	<i>Bordetella pertussis</i> GN
Q7W2D5	<i>Bordetella parapertussis</i> GN
Q7WRA3	<i>Bordetella bronchiseptica</i> GN
Q7WZR8	<i>Candidatus Portiera aleyrodidarum</i> GN
Q7X4D9	<i>Rubus stunt</i> phytoplasma GN
Q7X4E1	<i>Jujube witches'-broom</i> phytoplasma GN
Q7X4E3	<i>Peach yellows</i> phytoplasma GN
Q7X4E5	<i>Cherry lethal yellows</i> phytoplasma GN
Q7X4E7	<i>Alder yellows</i> phytoplasma GN
Q7X4E8	<i>Elm yellows</i> phytoplasma GN
Q7X4E9	<i>Elm yellows</i> phytoplasma GN
Q7X4F0	<i>Candidatus Phytoplasma spartii</i> GN
Q7X4F2	<i>Flavescence doree</i> phytoplasma GN
Q7X4F3	<i>Hemp dogbane yellows</i> phytoplasma GN
Q7X4F5	<i>Flavescence doree</i> phytoplasma GN
Q7X4F6	<i>Flavescence doree</i> phytoplasma GN
Q7X4F7	<i>Alder yellows</i> phytoplasma GN
Q81CL5	<i>Bacillus cereus</i> (strain ATCC 14579 / DSM 31) GN
Q81PR7	<i>Bacillus anthracis</i> GN
Q81VR0	<i>Bacillus anthracis</i> GN
Q824N3	<i>Chlamydomphila caviae</i> GN
Q82DM6	<i>Streptomyces avermitilis</i> GN
Q82X72	<i>Nitrosomonas europaea</i> GN
Q839E4	<i>Enterococcus faecalis</i> GN
Q83EQ6	<i>Coxiella burnetii</i> GN
Q83MT8	<i>Tropheryma whipplei</i> (strain Twist) GN
Q83NQ1	<i>Tropheryma whipplei</i> (strain TW08/27) GN
Q87E62	<i>Xylella fastidiosa</i> (strain Temecula1 / ATCC 700964) GN
Q87SZ3	<i>Vibrio parahaemolyticus</i> GN
Q889V1	<i>Pseudomonas syringae</i> pv. <i>tomato</i> GN
Q88QL5	<i>Pseudomonas putida</i> (strain KT2440) GN
Q88XW6	<i>Lactobacillus plantarum</i> GN
Q890Q4	<i>Clostridium tetani</i> GN
Q89A85	<i>Buchnera aphidicola</i> subsp. <i>Baizongia pistaciae</i> GN
Q89JA4	<i>Bradyrhizobium japonicum</i> GN
Q8A496	<i>Bacteroides thetaiotaomicron</i> GN
Q8CMU8	<i>Staphylococcus epidermidis</i> (strain ATCC 12228) GN
Q8CNF3	<i>Staphylococcus epidermidis</i> (strain ATCC 12228) GN
Q8D1Z2	<i>Wigglesworthia glossinidia brevipalpis</i> GN

Q8DE60	<i>Vibrio vulnificus</i> GN
Q8DML5	<i>Thermosynechococcus elongatus</i> (strain BP-1) GN
Q8DRD5	<i>Streptococcus pneumoniae</i> (strain ATCC BAA-255 / R6) GN
Q8DS32	<i>Streptococcus mutans</i> GN
Q8DYM3	<i>Streptococcus agalactiae</i> serotype V GN
Q8E2B4	<i>Streptococcus agalactiae</i> serotype V GN
Q8E480	<i>Streptococcus agalactiae</i> serotype III GN
Q8E7S1	<i>Streptococcus agalactiae</i> serotype III GN
Q8EK50	<i>Shewanella oneidensis</i> GN
Q8ETW4	<i>Oceanobacillus iheyensis</i> GN
Q8EUD2	<i>Mycoplasma penetrans</i> GN
Q8FS40	<i>Corynebacterium efficiens</i> GN
Q8G091	<i>Brucella suis</i> GN
Q8G3Z9	<i>Bifidobacterium longum</i> GN
Q8GE25	<i>Heliobacillus mobilis</i> PE
Q8K969	<i>Buchnera aphidicola</i> subsp. <i>Schizaphis graminum</i> GN
Q8KAJ1	<i>Chlorobium tepidum</i> GN
Q8KZP3	<i>Thermus thermophilus</i> GN
Q8NUJ4	<i>Staphylococcus aureus</i> (strain MW2) GN
Q8PC33	<i>Xanthomonas campestris</i> pv. <i>campestris</i> GN
Q8PNQ8	<i>Xanthomonas axonopodis</i> pv. <i>citri</i> GN
Q8R7X3	<i>Thermoanaerobacter tengcongensis</i> GN
Q8RIH6	<i>Fusobacterium nucleatum</i> subsp. <i>nucleatum</i> GN
Q8UE37	<i>Agrobacterium tumefaciens</i> (strain C58 / ATCC 33970)
Q8VLX4	<i>Xanthomonas campestris</i> pv. <i>campestris</i> GN
Q8XHU3	<i>Clostridium perfringens</i> GN
Q8XV32	<i>Ralstonia solanacearum</i> GN
Q8Y448	<i>Listeria monocytogenes</i> GN
Q8YHM0	<i>Brucella melitensis</i> GN
Q8YPJ7	<i>Anabaena</i> sp. (strain PCC 7120) GN
Q8Z1X7	<i>Salmonella typhi</i> GN
Q8ZLM0	<i>Salmonella typhimurium</i> GN
Q927M7	<i>Listeria innocua</i> GN
Q92GY6	<i>Rickettsia conorii</i> GN
Q92QF0	<i>Rhizobium meliloti</i> GN
Q97EJ8	<i>Clostridium acetobutylicum</i> GN
Q97P79	<i>Streptococcus pneumoniae</i> GN
Q97SU2	<i>Streptococcus pneumoniae</i> GN
Q98N37	<i>Rhizobium loti</i> GN
Q98Q01	<i>Mycoplasma pulmonis</i> GN
Q99QY5	<i>Staphylococcus aureus</i> (strain Mu50 / ATCC 700699) GN
Q99S39	<i>Staphylococcus aureus</i> (strain Mu50 / ATCC 700699) GN
Q9A1V4	<i>Streptococcus pyogenes</i> serotype M1 GN
Q9A8T3	<i>Caulobacter crescentus</i> GN
Q9AEU0	<i>Streptococcus gordonii</i> GN
Q9CL50	<i>Pasteurella multocida</i> GN
Q9HWF5	<i>Pseudomonas aeruginosa</i> GN
Q9PE56	<i>Xylella fastidiosa</i> GN
Q9PJN1	<i>Chlamydia muridarum</i> GN
Q9PQP1	<i>Ureaplasma parvum</i> GN
Q9RSK8	<i>Deinococcus radiodurans</i> GN
Q9X1I9	<i>Thermotoga maritima</i> GN
Q9XD16	<i>Leptospira interrogans</i> GN
Q9Z7S5	<i>Chlamydia pneumoniae</i> GN
Q9ZCS5	<i>Rickettsia prowazekii</i> GN
Q9ZJS9	<i>Helicobacter pylori</i> J99 GN