

Animal  
Plant  
Cell  
DNA  
JCM  
Info

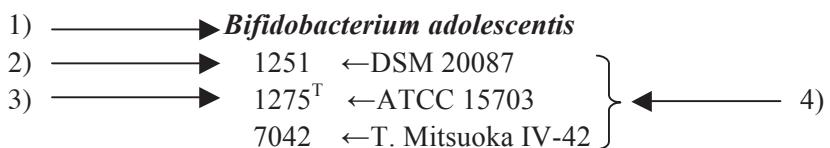
RIKEN BIORESOURCE CENTER  
JAPAN COLLECTION OF  
MICROORGANISMS



微生物株リスト



## 1. リストの見方



- 1) 学名。細菌とアーキアで、“ ”で囲まれた学名は 2009 年 12 月現在までに正式発表されていないものであることを示しています。
- 2) JCM 番号。
- 3) JCM 番号の肩付き T はこの株が基準株 (type strain) であることを示しています。
- 4) 寄託者および株番号。寄託者が微生物保存機関の場合は略称で示しています。略称については下記の「2. 他機関の略称」をご覧下さい。

なお、培養条件、培地組成、各種性状、文献等につきましては、JCM 微生物株オンラインカタログをご参照下さい。

## 2. 他機関の略称

AHU	Laboratory of Culture Collection of Microorganisms, Faculty of Agriculture, Hokkaido University, Sapporo, Japan.	CGMCC	China General Microbiological Culture Collection Center, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China.
AJ	Central Research Laboratories, Ajinomoto Co. Inc., Kawasaki, Japan.	CIP	Pasteur Institute Collection, Biological Resource Center of Pasteur Institute (CRBIP), Paris, France.
AS	See CGMCC.	CNCTC	Czechoslovak National Collection of Type Cultures, Institute of Hygiene and Epidemiology, Prague, Czech.
ATCC	American Type Culture Collection, Manassas, VA, USA.	DAOM	Plant Research Institute, Department of Agriculture (Mycology), Ottawa, Canada.
BCC	BIOTEC Culture Collection, National Center for Genetic Engineering and Biotechnology (BIOTEC), Bangkok, Thailand.	DBVPG	Collection of Yeasts, Dipartimento di Biologia Vegetale, Perugia, Italy.
BCRC	Bioresources Collection and Research Center, Food Industry Research and Development Institute, Hsinchu, Taiwan.	DSM	DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Braunschweig, Germany.
CBS	Centraalbureau voor Schimmelcultures, Utrecht, The Netherlands.	FRR	Division of Food Research, Food Research Laboratory, CSIRO, North Ryde, N.S.W., Australia.
CCBAU	Culture Collection of Beijing Agricultural University, Beijing, China.	GIFU	See GTC.
CCM	Czech Collection of Microorganisms, Masaryk University, Brno, Czech.	GTC	Gifu Type Culture Collection, Department of Microbiology, Gifu University School of Medicine, Gifu, Japan.
CCRC	See BCRC.	HSCC	Culture Collection of the Research and Development Department, Higeta Shoyu Co., Ltd., Choshi, Chiba, Japan.
CCUG	Culture Collection, University of Göteborg, Department of Clinical Bacteriology, Guldhedsg, Göteborg, Sweden.	HUT	HUT Culture Collection, Department of Molecular Biotechnology, Graduate School of Advanced Sciences of Matter, Hiroshima University, Higashihiroshima, Hiroshima, Japan.
CCY	Culture Collection of Yeasts, Institute of Chemistry, Slovak Academy of Sciences, Bratislava, Slovakia.	IAM	IAM Culture Collection, Center for Cellular and Molecular Research, Institute of Molecular and Cellular Biosciences, University of Tokyo, Tokyo, Japan.
CDC	Centers for Disease Control and Prevention, Atlanta, GA, USA (same as NCDC).		
CECT	Colección Española de Cultivos Tipo, Universidad de València, Edificio de Investigación, Burjassot, Spain.		

<b>IBPhM</b>	<i>See VKM.</i>
<b>ICMP</b>	International Collection of Microorganisms from Plants, Plant Diseases Division, DSIR, Auckland, New Zealand ( <i>same as PDDCC</i> ).
<b>IFM</b>	Research Center for Pathogenic Fungi and Microbial Toxicoses, Chiba University, Chiba, Japan.
<b>IFO</b>	Institute for Fermentation, Osaka, Yodogawa-ku, Osaka, Japan ( <i>collection transferred to NBRC</i> ).
<b>IGC</b>	Center of Biology, Gulbenkian Institute of Science, Oeiras, Portugal.
<b>IIBM</b>	Instituto de Investigaciones Biomédicas, UNAM, Mexico.
<b>IMET</b>	<i>See DSM (formerly National Kurturensammlung für Mikroorganismen, Zentralinstitut für Mikrobiologie und Experimentelle Therapie, Jena, Germany).</i>
<b>IMSNU</b>	Institute of Microbiology, Seoul National University, Seoul, Republic of Korea.
<b>INA</b>	Culture Collection of the Institute of New Antibiotics, Academy of Medical Sciences, Moscow, Russia.
<b>INMI</b>	Institute of Microbiology, Russian Academy of Sciences, Moscow, Russia.
<b>JNIH</b>	<i>Formerly National Institute of Health, Japan, now National Institute of Infectious Diseases, Tokyo Japan.</i>
<b>KCC</b>	KCC Culture Collection of Actinomycetes, Kaken Pharmaceutical Co., Ltd., Tokyo, Japan ( <i>collection transferred to JCM</i> ).
<b>KCCM</b>	Korean Culture Center of Microorganisms, Department of Food Engineering, Yonsei University, Seoul, Republic of Korea.
<b>KCTC</b>	Korean Collection for Type Cultures, Genetic Resources Center, Korea Research Institute of Bioscience and Biotechnology, Taejon, Republic of Korea.
<b>KMM</b>	Collection of Marine Microorganisms, Pacific Institute of Bioorganic Chemistry, Far-Eastern Branch, Russian Academy of Sciences, Vladivostok, Russia.
<b>LMG</b>	Laboratorium voor Microbiologie, Universiteit Gent, Gent, Belgium.
<b>MFC</b>	Matsushima Fungus Collection, Kobe, Japan.
<b>MTCC</b>	Microbial Type Culture Collection and Gene Bank, Institute of Microbial Technology, Chandigarh, India
<b>MUCL</b>	Mycothèque de l'Université Catholique de Louvain, Louvain-la-Neuve, Belgium.
<b>NBRC</b>	NITE Biological Resource Center, Department of Biotechnology, National Institute of Technology and Evaluation, Kisarazu, Chiba, Japan.
<b>NCAIM</b>	National Collection of Agricultural and Industrial Microorganisms, Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, Budapest, Hungary.
<b>NCDO</b>	<i>See NCFB.</i>
<b>NCFB</b>	National Collection of Food Bacteria, Reading, UK ( <i>incorporated with NCIMB</i> ).
<b>NCIB</b>	National Collection of Industrial Bacteria, Torry Research Station, Aberdeen, Scotland, UK ( <i>incorporated with NCIMB</i> ).
<b>NCIMB</b>	National Collection of Industrial, Food and Marine Bacteria, NCIMB Ltd, Aberdeen, Scotland, UK.
<b>NCTC</b>	National Collection of Type Cultures, Central Public Laboratory Service, London, UK.
<b>NCYC</b>	National Collection of Yeast Cultures, Food Research Institute, Norwich, UK.
<b>NHL</b>	National Institute of Hygienic Sciences, Tokyo, Japan.
<b>NIAH</b>	National Institute of Animal Health, Ministry of Agriculture, Forestry and Fisheries, Tsukuba, Ibaraki, Japan.
<b>NIHJ</b>	Department of Antibiotics, National Institute of Health of Japan, Tokyo, Japan.
<b>NRIC</b>	NODAI Research Institute Culture Collection, Tokyo University of Agriculture, Tokyo, Japan.
<b>NRRL</b>	Agricultural Research Service Culture Collection, National Center for Agricultural Utilization Research, US Department of Agriculture, Peoria, IL, USA.
<b>PCM</b>	Polish Collection of Microorganisms, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wroclaw, Poland.
<b>PYCC</b>	Portuguese Yeast Culture Collection, C. R. M., New University of Lisbon, Lisbon, Portugal.
<b>RIB</b>	National Research Institute of Brewing, Tax Administration Agency, Higashihiroshima, Japan.
<b>SANK</b>	Sankyo Research Laboratories, Sankyo Co., Ltd., Tsukuba, Japan.
<b>SRRC</b>	Southern Regional Research Center, Agricultural Research Service, US Department of Agriculture, New Orleans, LA, USA.
<b>STAFF</b>	Society for Techno-Innovation of Agriculture, Forestry and Fisheries, Tsukuba, Japan ( <i>terminated</i> ).
<b>TC</b>	Tanabe Seiyaku Co., Ltd., Discovery Res. Lab., Toda, Japan.
<b>TISTR</b>	Thailand Institute of Scientific and Technological Research, Bangkok, Thailand.
<b>TKBC</b>	Culture Collection, Institute of Biological Sciences
<b>UAMH</b>	University of Alberta Mold Herbarium and Culture Collection, Edmonton, Canada.
<b>UBC</b>	University of British Columbia, Vancouver, B.C., Canada.
<b>UCD</b>	Department of Food Science and Technology, University of California, Davis, CA, USA.
<b>UPSC</b>	Fungal Culture Collection at the Botanical Museum, Uppsala University, Uppsala, Sweden.
<b>UQM</b>	<i>See ACM.</i>
<b>VIAM</b>	Institute of Applied Microbiology, University of Agricultural Sciences, Vienna, Austria.
<b>VKM</b>	All-Russian Collection of Microorganisms, Institute of Biochemistry and Physiology of Microorganisms, Russian Academy of Sciences, Pushchino, Moscow Region, Russia.
<b>VPI</b>	Anaerobe Laboratory, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA.

### 3. 微生物株リスト

#### (1) 細菌 (BACTERIA)

<i>Acaricomes phytoseiuli</i>	<i>Acetobacterium woodii</i>
14300 <sup>T</sup> ←DSM 14247	2381 <sup>T</sup> ←DSM 1030
<i>Acetanaerobacterium elongatum</i>	" <i>Achromobacter cycloclastes</i> "
12359 <sup>T</sup> ←S. Chen Z7	20009 ←IAM 1013
<i>Acetobacter aceti</i>	<i>Achromobacter denitrificans</i>
7641 <sup>T</sup> ←NCIB 8621	5490 <sup>T</sup> ←Y. Kosako 85022
20268 ←IAM 1802	9657 <sup>T</sup> ←R. Hugh RH12
20276 ←IAM 1814	9658 ←R. Hugh RH1323
21163 ←IAM 14349	20635 ←IAM 12556
21164 ←IAM 14350	20641 ←IAM 12563
<i>Acetobacter cerevisiae</i>	20642 ←IAM 12564
17273 <sup>T</sup> ←LMG 1625	20671 ←IAM 12594
<i>Acetobacter cibinongensis</i>	20672 ←IAM 12595
11196 <sup>T</sup> ←NRIC 0482	20673 ←IAM 12596
<i>Acetobacter estunensis</i>	20674 ←IAM 12598
21172 <sup>T</sup> ←IAM 14359	<i>Achromobacter piechaudii</i>
<i>Acetobacter indonesiensis</i>	20668 <sup>T</sup> ←IAM 12591
10948 <sup>T</sup> ←NRIC 0313	20720 ←IAM 12661
<i>Acetobacter lovaniensis</i>	<i>Achromobacter xylosoxidans</i>
17121 <sup>T</sup> ←DSM 4491	9656 ←R. Hugh RH2861
<i>Acetobacter malorum</i>	9659 <sup>T</sup> ←R. Hugh RH2838
17274 <sup>T</sup> ←LMG 1746	9660 ←R. Hugh RH2860
<i>Acetobacter orientalis</i>	9787 ←T. Kudo A41
11195 <sup>T</sup> ←NRIC 0481	20676 ←IAM 12600
<i>Acetobacter orleanensis</i>	20745 ←IAM 12686
7639 <sup>T</sup> ←NCIB 8622	20746 ←IAM 12687
20269 ←IAM 1803	20747 ←IAM 12688
20285 ←IAM 1824	20748 ←IAM 12689
<i>Acetobacter pasteurianus</i>	20749 ←IAM 12690
7640 <sup>T</sup> ←NCIB 12228	20751 ←IAM 12693
20270 ←IAM 1804	20752 ←IAM 12694
20272 ←IAM 1807	" <i>Acidiferrrobacter thiooxydans</i> "
20273 ←IAM 1808	17358 ←D. B. Johnson
20274 ←IAM 1811	<i>Acidimicrobium ferrooxidans</i>
20279 ←IAM 1817	15462 <sup>T</sup> ←NBRC 103882
20286 ←IAM 1825	<i>Acidiphilum cryptum</i>
20287 ←IAM 1826	21277 <sup>T</sup> ←IAM 14719
20384 ←IAM 12073	<i>Acidiphilum multivorum</i>
21167 ←IAM 14353	8867 <sup>T</sup> ←N. Wakao AIU 301
21168 ←IAM 14354	8869 ←N. Wakao AIU 303
21169 ←IAM 14356	8871 ←N. Wakao AIU 305
21170 ←IAM 14357	8872 ←N. Wakao AIU 306
21171 ←IAM 14358	<i>Acidiphilum</i> sp.
21173 ←IAM 14360	20758 ←IAM 12820
21215 ←IAM 14432	20759 ←IAM 12821
21216 ←IAM 14433	<i>Acidisphaera rubrifaciens</i>
21217 ←IAM 14434	10600 <sup>T</sup> ←A. Hiraishi HS-AP3
<i>Acetobacter peroxydans</i>	<i>Aciditerrimonas ferrireducens</i>
25077 <sup>T</sup> ←NRIC 0475	15389 <sup>T</sup> ←T. Itoh IC-180
<i>Acetobacter</i> sp.	<i>Acidithiobacillus ferrivorans</i>
21174 ←IAM 14361	15606 <sup>T</sup> ←K. B. Hallberg and D. B.
21175 ←IAM 14362	Johnson NO-37
<i>Acetobacter syzygii</i>	<i>Acidithiobacillus ferrooxidans</i>
11197 <sup>T</sup> ←NRIC 0483	3863 ←Y. Katayama THI132
<i>Acetobacter tropicalis</i>	3865 ←Y. Katayama THI135
10947 <sup>T</sup> ←NRIC 0312	7812 ←N. Wakao AIU 002
<i>Acetobacterium wieringae</i>	17309 ←T. Itoh
2380 <sup>T</sup> ←DSM 1911	<i>Acidithiobacillus thiooxidans</i>
	3866 ←Y. Katayama THI141
	3867 <sup>T</sup> ←Y. Katayama THI142
	3868 ←Y. Katayama THI143
	7813 ←N. Wakao AIU 101
	7814 ←N. Wakao AIU 102
	<i>Acidobacterium capsulatum</i>
	7670 <sup>T</sup> ←N. Kishimoto 161
	7956 ←N. Kishimoto 1422
	<i>Acidocella aminolytica</i>
	8796 <sup>T</sup> ←N. Kishimoto 101
	9059 ←N. Kishimoto 154
	<i>Acidomonas methanolica</i>
	6891 <sup>T</sup> ←T. Urakami TK 0705
	<i>Acidovorax avenae</i> subsp. <i>avenae</i>
	20985 <sup>T</sup> ←IAM 13658
	<i>Acidovorax konjacii</i>
	2397 <sup>T</sup> ←M. Goto strain K2
	2398 ←M. Goto strain K1
	2399 ←M. Goto strain K3
	<i>Acidovorax soli</i>
	15909 <sup>T</sup> ←J.-W. Bae BL21
	<i>Acidovorax</i> sp.
	17234 ←Y. Nagata KKS102S
	<i>Acinetobacter baumannii</i>
	6841 <sup>T</sup> ←ATCC 19606
	<i>Acinetobacter calcoaceticus</i>
	6842 <sup>T</sup> ←ATCC 23055
	20657 ←IAM 12580
	<i>Acinetobacter johnsonii</i>
	20194 ←IAM 1517
	" <i>Acinetobacter kyonggiensis</i> "
	17071 <sup>T</sup> ←S.-S. Lee KSL5401-037
	<i>Acinetobacter lwoffii</i>
	6840 <sup>T</sup> ←ATCC 15309
	" <i>Acinetobacter oleivorans</i> "
	16667 <sup>T</sup> ←W. Park DR1
	<i>Acinetobacter radioresistens</i>
	9326 <sup>T</sup> ←Y. Nishimura FO-1
	9327 ←Y. Nishimura G82012
	9328 ←Y. Nishimura G82076
	<i>Acinetobacter soli</i>
	15062 <sup>T</sup> ←C. N. Seong B1
	<i>Acinetobacter</i> sp.
	13222 ←I. Yumoto strain Ths
	21237 ←IAM 14466
	<i>Acrocarpospora corrugata</i>
	3181 <sup>T</sup> ←KCC A-0181
	<i>Acrocarpospora macrocephala</i>
	10982 <sup>T</sup> ←IFO 16266
	<i>Acrocarpospora pleiomorpha</i>
	10983 <sup>T</sup> ←IFO 16267
	<i>Actibacter sediminis</i>
	14002 <sup>T</sup> ←J. Chun JC2129
	<i>Actinaurispora siamensis</i>
	15677 <sup>T</sup> ←C. Thawai CM2-8
	<i>Actinoallomurus acaciae</i>
	17235 <sup>T</sup> ←BCC 28622
	<i>Actinoallomurus oryzae</i>

17933 <sup>T</sup>	←BCC 31373	
<i>Actinoallomurus spadix</i>	3146 <sup>T</sup>	←KCC A-0146
<i>Actinoalloteichus cyanogriseus</i>	4014	←KCC S-0014
	4730	←KCC S-0730
	6095 <sup>T</sup>	←Z. Liu Y388
<i>Actinoalloteichus hymeniacidonis</i>	13436 <sup>T</sup>	←H. Zhang HPA177
<i>Actinoalloteichus spitiensis</i>	12472 <sup>T</sup>	←S. Mayilraj RMV-1378
<i>Actinobacillus equuli</i> subsp. <i>equuli</i>	2432 <sup>T</sup>	←R. Sakazaki
<i>Actinobacillus lignieresii</i>	2431	←R. Sakazaki
<i>Actinobacillus suis</i>	2433	←R. Sakazaki
<i>Actinocatenispora rupis</i>	16894 <sup>T</sup>	←DSM 45178
<i>Actinocatenispora sera</i>	15920 <sup>T</sup>	←NRRL B-24477
<i>Actinocatenispora thailandica</i>	12343 <sup>T</sup>	←C. Thawai TT2-10
	12344	←C. Thawai TT2-3
<i>Actinocorallia aurantiaca</i>	8201 <sup>T</sup>	←DSM 43924
<i>Actinocorallia aurea</i>	16895 <sup>T</sup>	←DSM 44434
<i>Actinocorallia cavernae</i>	13278 <sup>T</sup>	←S. D. Lee N3-7
<i>Actinocorallia glomerata</i>	9376 <sup>T</sup>	←T. Itoh I-226
<i>Actinocorallia herbida</i>	9647 <sup>T</sup>	←IFO 15485
<i>Actinocorallia libanotica</i>	3284 <sup>T</sup>	←KCC A-0284
	3285	←KCC A-0285
	10696 <sup>T</sup>	←DSM 43554
<i>Actinocorallia longicatena</i>	9377 <sup>T</sup>	←T. Itoh I-497
<i>Actinokineospora auranticolor</i>	11646 <sup>T</sup>	←IFO 16518
<i>Actinokineospora diospyros</i>	9921 <sup>T</sup>	←IFO 15665
<i>Actinokineospora enzanensis</i>	11647 <sup>T</sup>	←IFO 16517
<i>Actinokineospora fastidiosa</i>	3276 <sup>T</sup>	←KCC A-0276
<i>Actinokineospora globicatena</i>	9922 <sup>T</sup>	←IFO 15664
<i>Actinokineospora inagensis</i>	9923 <sup>T</sup>	←IFO 15663
<i>Actinokineospora riparia</i>	7471 <sup>T</sup>	←IFO 14541
<i>Actinokineospora terrae</i>	9924 <sup>T</sup>	←IFO 15668
<i>Actinomadura alba</i>	14906 <sup>T</sup>	←DSM 45045
<i>Actinomadura apis</i>	16576 <sup>T</sup>	←P. Chantawannakul IM17-1
<i>Actinomadura atramentaria</i>	6250 <sup>T</sup>	←S. Miyadoh SF-2197
<i>Actinomadura bangladeshensis</i>	13933 <sup>T</sup>	←T. Kudo
<i>Actinomadura catellatispora</i>	10667 <sup>T</sup>	←Z. Liu 3.24
<i>Actinomadura chibensis</i>	14158 <sup>T</sup>	←Y. Mikami IFM 10266
<i>Actinomadura chokoriensis</i>	13932 <sup>T</sup>	←T. Kudo
<i>Actinomadura citrea</i>	3295 <sup>T</sup>	←KCC A-0295
<i>Actinomadura coerulea</i>	3320 <sup>T</sup>	←KCC A-0320
<i>Actinomadura cremea</i>	3308 <sup>T</sup>	←KCC A-0308
<i>Actinomadura echinospora</i>	3148 <sup>T</sup>	←KCC A-0148
<i>Actinomadura fibrosa</i>	9371 <sup>T</sup>	←NRRL 18348
<i>Actinomadura flavalba</i>	16896 <sup>T</sup>	←DSM 45200
<i>Actinomadura formosensis</i>	7474 <sup>T</sup>	←IFO 14204
<i>Actinomadura fulvescens</i>	6833 <sup>T</sup>	←IFO 14347
<i>Actinomadura glauciflava</i>	6161 <sup>T</sup>	←G. Zhang 80-56
<i>Actinomadura hallensis</i>	13882 <sup>T</sup>	←IMSNU 50760
<i>Actinomadura hibisca</i>	9627 <sup>T</sup>	←NCIMB 13253
<i>Actinomadura keratinilytica</i>	17316 <sup>T</sup>	←CCUG 56181
<i>Actinomadura kijaniata</i>	3306 <sup>T</sup>	←KCC A-0306
<i>Actinomadura latina</i>	10674 <sup>T</sup>	←DSM 43382
<i>Actinomadura livida</i>	3387 <sup>T</sup>	←DSM 43677
<i>Actinomadura luteofluorescens</i>	4203 <sup>T</sup>	←KCC S-0203
	4491 <sup>T</sup>	←KCC S-0491
<i>Actinomadura macra</i>	3287 <sup>T</sup>	←KCC A-0287
<i>Actinomadura madurae</i>	3013	←KCC A-0013
	3238	←KCC A-0238
	7436 <sup>T</sup>	←DSM 43067
" <i>Actinomadura maheshkhaliensis</i> "	13934 <sup>T</sup>	←T. Kudo
<i>Actinomadura mexicana</i>	13236 <sup>T</sup>	←DSM 44485
<i>Actinomadura meyerae</i>	13237 <sup>T</sup>	←DSM 44715
<i>Actinomadura miaoliensis</i>	16702 <sup>T</sup>	←BCRC 16873
<i>Actinomadura namibiensis</i>	13238 <sup>T</sup>	←DSM 44197
<i>Actinomadura napierensis</i>	13850 <sup>T</sup>	←DSM 44846
<i>Actinomadura nitritigenes</i>	10104 <sup>T</sup>	←DSM 44137
<i>Actinomadura oligospora</i>	10648 <sup>T</sup>	←NRRL 15878
<i>Actinomadura pelletieri</i>	3388 <sup>T</sup>	←DSM 43383
<i>Actinomadura rifamycini</i>	3309 <sup>T</sup>	←KCC A-0309
" <i>Actinomadura rosea</i> "	10028 <sup>T</sup>	←IFO 14658
<i>Actinomadura rubrobrunea</i>		
	7345 <sup>T</sup>	←IMET 9705
<i>Actinomadura rudentiformis</i>	14907 <sup>T</sup>	←DSM 44962
<i>Actinomadura rugatobispora</i>	3366 <sup>T</sup>	←Meiji Seika Kaisha, Ltd.
	SF-2240	
<i>Actinomadura</i> sp.	3396	←A. Shimazu 1077-MT <sub>1</sub>
	3397	←A. Shimazu 345-AT <sub>3</sub>
<i>Actinomadura umbrina</i>	6837 <sup>T</sup>	←IFO 14346
<i>Actinomadura verrucosospora</i>	3147 <sup>T</sup>	←KCC A-0147
<i>Actinomadura vinacea</i>	3325 <sup>T</sup>	←KCC A-0325
<i>Actinomadura viridilutea</i>	3398 <sup>T</sup>	←A. Shimazu
<i>Actinomadura viridis</i>	3112 <sup>T</sup>	←KCC A-0112
	3113	←KCC A-0113
	3297	←KCC A-0297
<i>Actinomadura yumaensis</i>	3369 <sup>T</sup>	←NRRL 12515
<i>Actinomyces gerencseriae</i>	12963 <sup>T</sup>	←DSM 6844
<i>Actinomyces israelii</i>	12964 <sup>T</sup>	←DSM 43320
<i>Actinomyces johnsonii</i>	16129 <sup>T</sup>	←CCUG 34287
<i>Actinomyces massiliensis</i>	16130 <sup>T</sup>	←CCUG 53522
<i>Actinomyces naeslundii</i>	8349 <sup>T</sup>	←N. Maeda TPR-13
	8350	←N. Maeda TPR-9
<i>Actinomyces odontolyticus</i>	14871 <sup>T</sup>	←DSM 19120
<i>Actinomyces oricola</i>	17565 <sup>T</sup>	←CCUG 46090
<i>Actinomyces oris</i>	16131 <sup>T</sup>	←CCUG 34288
<i>Actinomyces ruminicola</i>	13352 <sup>T</sup>	←D. An and X. Dong B71
<i>Actinomyces viscosus</i>	8351	←N. Maeda TPR-10
	8352	←N. Maeda TPR-11
	8353 <sup>T</sup>	←N. Maeda TPR-12
<i>Actinomycetospora chiangmaiensis</i>	15998 <sup>T</sup>	←DSM 45062
<i>Actinophytocola oryzae</i>	17236 <sup>T</sup>	←BCC 31372
" <i>Actinoplanes arizonaensis</i> "	9648 <sup>T</sup>	←IFO 14837
<i>Actinoplanes auranticolor</i>	3038 <sup>T</sup>	←KCC A-0038
	3245	←KCC A-0245
" <i>Actinoplanes awajinensis</i> "	9334 <sup>T</sup>	←R. Enokita A-40981 (SANK 90277)
" <i>Actinoplanes awajinensis</i> subsp. <i>mycoplanecinus</i> "	6112 <sup>T</sup>	←CCRC 12243
<i>Actinoplanes brasiliensis</i>	3196 <sup>T</sup>	←KCC A-0196
<i>Actinoplanes campanulatus</i>	3059 <sup>T</sup>	←KCC A-0059
<i>Actinoplanes capillaceus</i>		

3174	←KCC A-0174	3194 <sup>T</sup>	←KCC A-0194	15959 <sup>T</sup>	←LMG 21773	
3329	←KCC A-0329	<i>Actinoplanes regularis</i>	3062 <sup>T</sup>	←KCC A-0062	<i>Aerococcus sanguinicola</i>	
3330	←KCC A-0330	3235	←KCC A-0235	11549 <sup>T</sup>	←CIP 106533	
10268 <sup>T</sup>	←S. Ōmura K95-5561	" <i>Actinoplanes roseosporangius</i> "	3243 <sup>T</sup>	←KCC A-0243	<i>Aerococcus urinaequei</i>	
<i>Actinoplanes consettensis</i>		3244 <sup>T</sup>	←KCC A-0244	12519 <sup>T</sup>	←CIP 103442	
7624 <sup>T</sup>	←M. Goodfellow LA97	" <i>Actinoplanes rutilosporangius</i> "	3244 <sup>T</sup>	←KCC A-0244	20253	←IAM 1684
<i>Actinoplanes couchii</i>		3245 <sup>T</sup>	←KCC A-0245	20447	←IAM 12287	
15999 <sup>T</sup>	←DSM 45050	" <i>Actinoplanes sarveparensis</i> "	3251	←KCC A-0251	20448	←IAM 12288
<i>Actinoplanes cyaneus</i>		3251	←KCC A-0251	<i>Aerococcus viridans</i>		
9082 <sup>T</sup>	←VKM Ac-1095	<i>Actinoplanes sichuanensis</i>	16605 <sup>T</sup>	←CCM 7526	20461 <sup>T</sup>	←IAM 12302
<i>Actinoplanes deccanensis</i>		<i>Actinoplanes</i> sp.	66080)		20462	←IAM 12303
3247 <sup>T</sup>	←KCC A-0247	<i>Actinoplanes teichomyceticus</i>	3043	←KCC A-0043	20463	←IAM 12304
" <i>Actinoplanes deccanensis</i> subsp. <i>azaserinus</i> "		3058	←KCC A-0058	20593	←IAM 12451	
9333 <sup>T</sup>	←R. Enokita A-40816 (SANK	3236	←KCC A-0236	<i>Aeromicrobium alkaliiterrae</i>		
90177)		3341	←J. Ruan B-133	13518 <sup>T</sup>	←DSM 16824	
" <i>Actinoplanes deccanensis</i> subsp. <i>salmoneus</i> "		3355	←J. Ruan Y79-15	<i>Aeromicrobium erythreum</i>		
9916	←ATCC 31355	9336	←R. Enokita A-43871 (SANK	8359 <sup>T</sup>	←NRRL B-3381	
<i>Actinoplanes derwentensis</i>		66080)		<i>Aeromicrobium fastidiosum</i>		
7556 <sup>T</sup>	←M. Goodfellow LA107	<i>Actinoplanes tuftoflagellus</i> "	3254 <sup>T</sup>	←KCC A-0254	8088 <sup>T</sup>	←NCIMB 12713
<i>Actinoplanes digitatis</i>		<i>Actinoplanes utahensis</i>	3122 <sup>T</sup>	←KCC A-0122	<i>Aeromicrobium flavum</i>	
3060 <sup>T</sup>	←KCC A-0060	3207	←KCC A-0207	16538 <sup>T</sup>	←DSM 19355	
<i>Actinoplanes durhamensis</i>		" <i>Actinoplanes violaceus</i> "	3353 <sup>T</sup>	←J. Ruan Y80-610	<i>Aeromicrobium ginsengisoli</i>	
7625 <sup>T</sup>	←M. Goodfellow LA139	<i>Actinoplanes xinjiangensis</i>	16606 <sup>T</sup>	←CCM 7527	14732 <sup>T</sup>	←D.-C. Yang Gsoil 098
<i>Actinoplanes ferrugineus</i>		" <i>Actinoplanes yunnanensis</i> "	3354 <sup>T</sup>	←J. Ruan Y79-21	<i>Aeromicrobium halocynthiae</i>	
3277 <sup>T</sup>	←KCC A-0277	<i>Actinopolymorpha alba</i>	16897 <sup>T</sup>	←DSM 45243	15749 <sup>T</sup>	←H. C. Kwon KME 001
" <i>Actinoplanes garbadinensis</i> "		<i>Actinopolymorpha cephalotaxi</i>	17964 <sup>T</sup>	←CCM 7466	<i>Aeromicrobium marinum</i>	
3248 <sup>T</sup>	←KCC A-0248	<i>Actinopolymorpha rutila</i>	16537 <sup>T</sup>	←DSM 18448	13314 <sup>T</sup>	←LMG 21768
<i>Actinoplanes globisporus</i>		<i>Actinopolymorpha singaporensis</i>	10761 <sup>T</sup>	←Y. Wang IM7744	<i>Aeromicrobium panaciterrae</i>	
3186 <sup>T</sup>	←KCC A-0186	<i>Actinopolyspora halophila</i>	7550 <sup>T</sup>	←M. Yoshida HS-1	16926 <sup>T</sup>	←W.-T. Im Gsoil 161
<i>Actinoplanes humidis</i>		Actinospica acidiphila	14896 <sup>T</sup>	←NBRC 102107	<i>Aeromicrobium ponti</i>	
7555 <sup>T</sup>	←M. Goodfellow LA6	Actinospica robiniae	14908 <sup>T</sup>	←DSM 44927	16375 <sup>T</sup>	←KACC 20565
<i>Actinoplanes ianthinogenes</i>		Actinosynnema mirum	3225 <sup>T</sup>	←KCC A-0225	<i>Aeromicrobium tamense</i>	
3249 <sup>T</sup>	←KCC A-0249	" <i>Actinospira pretiosum</i> subsp. <i>auranticum</i> "	7343 <sup>T</sup>	←ATCC 31309	13811 <sup>T</sup>	←S. D. Lee SSW1-57
<i>Actinoplanes italicicus</i>		<i>Actinosynnema pretiosum</i> subsp. <i>pretiosum</i>	7344 <sup>T</sup>	←ATCC 31281	<i>Aeromonas caviae</i>	
3165 <sup>T</sup>	←KCC A-0165	<i>Actinosynnema</i> sp.	3279	←KCC A-0279	1060 <sup>T</sup>	←Y. Kosako 71
" <i>Actinoplanes kinshanensis</i> "		<i>Actinotalea fermentans</i>	9966 <sup>T</sup>	←DSM 3133	3965	←T. Shimada 376-76
3173 <sup>T</sup>	←KCC A-0173	<i>Adlercreutzia equolifaciens</i>	14793 <sup>T</sup>	←T. Maruo FJC-B9	3979	←T. Shimada
<i>Actinoplanes liguriensis</i>		<i>Aequorivita capsosiphonis</i>	15070 <sup>T</sup>	←C. N. Seong A71	3993	←T. Shimada SL48-80
3250 <sup>T</sup>	←KCC A-0250	<i>Aeriscardovia aeriphila</i>			4000	←T. Shimada 1709-83
<i>Actinoplanes lobatus</i>					5081	←T. Shimada 1715-83
3061 <sup>T</sup>	←KCC A-0061				5082	←T. Shimada 792-84
<i>Actinoplanes missouriensis</i>					5083	←T. Shimada 1716-83
3121 <sup>T</sup>	←KCC A-0121				5084	←T. Shimada 1720-83
" <i>Actinoplanes nippensis</i> "					5085	←T. Shimada 707-84
3264	←KCC A-0264				<i>Aeromonas enteropelogenes</i>	
" <i>Actinoplanes nirasakiensis</i> "					8315	←ATCC 49657
9335 <sup>T</sup>	←R. Enokita A-41156 (SANK				8355 <sup>T</sup>	←DSM 6394
90377)					<i>Aeromonas eurenophila</i>	
<i>Actinoplanes octamycinicus</i>					8238 <sup>T</sup>	←NCIMB 74
9649 <sup>T</sup>	←IFO 14524				<i>Aeromonas hydrophila</i>	
<i>Actinoplanes palleronii</i>					2360	←ATCC 11163
7626 <sup>T</sup>	←M. Goodfellow LA83				<i>Aeromonas hydrophila</i> subsp. <i>anaerogenes</i>	
" <i>Actinoplanes pallidoaurantiacus</i> "					1043 <sup>T</sup>	←Y. Kosako 69
3242 <sup>T</sup>	←KCC A-0242				<i>Aeromonas hydrophila</i> subsp. <i>hydrophila</i>	
" <i>Actinoplanes penicillatus</i> "					1027 <sup>T</sup>	←Y. Kosako 68
6874 <sup>T</sup>	←A. Henssen SE2				3964	←T. Shimada 987-77
<i>Actinoplanes philippensis</i>					3966	←T. Shimada 2315-80
3001 <sup>T</sup>	←KCC A-0001				3967	←T. Shimada 1118-76
3211	←KCC A-0211				3968	←T. Shimada
" <i>Actinoplanes purpoebrunneus</i> "					3969	←T. Shimada 660-79
3253 <sup>T</sup>	←KCC A-0253				3970	←T. Shimada 1567-79
" <i>Actinoplanes pyriformis</i> "					3971	←T. Shimada F65-72
3262 <sup>T</sup>	←KCC A-0262				3972	←T. Shimada 902-75
<i>Actinoplanes rectilineatus</i>					3973	←T. Shimada 1113-76

3975	←T. Shimada 1109-76	8197	←NCIMB 837	21078	←IAM 14220
3976	←T. Shimada	8198	←NCIMB 838	21079	←IAM 14221
3977	←T. Shimada	8199	←NCIMB 1103	21236	←IAM 14465
3978	←T. Shimada 1057-75	8200	←NCIMB 1104	<i>Agrococcus baldri</i>	
3980	←T. Shimada SL47-79			12132 <sup>T</sup>	←CCM 4953
3981	←T. Shimada SL3-80	7372	←F. W. Hickman-Brenner CDC	<i>Agrococcus casei</i>	
3982	←T. Shimada SL22-79	9180-81		14916 <sup>T</sup>	←LMG 22410
3983	←T. Shimada SL4-80	7373 <sup>T</sup>	←F. W. Hickman-Brenner CDC	<i>Agrococcus citreus</i>	
3984	←T. Shimada SL9-80	2446-81		12398 <sup>T</sup>	←CIP 106287
3985	←T. Shimada 33-79			<i>Agrococcus jejuensis</i>	
3986	←T. Shimada SL15-80	2137	←M. Popoff 204	14256 <sup>T</sup>	←S. D. Lee SSW1-48
3987	←T. Shimada 35-70	2138	←M. Popoff 207	<i>Agrococcus jenensis</i>	
3988	←T. Shimada 37-79	2139 <sup>T</sup>	←M. Popoff 208	9950 <sup>T</sup>	←DSM 9580
3989	←T. Shimada 118-79	2140	←M. Popoff 209	9951	←DSM 9996
3990	←T. Shimada SL17-80	2141	←M. Popoff 211	<i>Agrococcus lahaulensis</i>	
3991	←T. Shimada SL19-80	2142	←M. Popoff 215	14301 <sup>T</sup>	←DSM 17612
3992	←T. Shimada SL34-80	2143	←M. Popoff 228	<i>Agrococcus terreus</i>	
3994	←T. Shimada	2144	←M. Popoff 232	17488 <sup>T</sup>	←CGMCC 1.6960
3995	←T. Shimada	2145	←M. Popoff 236	<i>Agrococcus versicolor</i>	
3996	←T. Shimada SL37-79	2146	←M. Popoff 237	16026 <sup>T</sup>	←LMG 24386
3997	←T. Shimada SL49-79	2366	←M. Popoff 202	<i>Agromonas oligotrophica</i>	
3998	←T. Shimada 49-79	2367	←M. Popoff 224	1494 <sup>T</sup>	←H. Ohta
3999	←T. Shimada SL22-80	20490	←IAM 12333	1495	←H. Ohta
5086	←T. Shimada 778-84			1496	←H. Ohta
5088	←T. Shimada 1285-78			1497	←H. Ohta
20011	←IAM 1018	21402	←IAM 14920	1498	←H. Ohta
20491	←IAM 12335	21403	←IAM 14921	<i>Agromyces albus</i>	
20492	←IAM 12336	21404	←IAM 14922	13565 <sup>T</sup>	←CIP 108259
20494	←IAM 12338			<i>Agromyces allii</i>	
<i>Aeromonas ichthiosmia</i>		7374	←F. W. Hickman-Brenner CDC	13584 <sup>T</sup>	←J.-H. Yoon UMS-62
8354 <sup>T</sup>	←DSM 6393	1068-84		<i>Agromyces atrinae</i>	
<i>Aeromonas jandaei</i>		7375 <sup>T</sup>	←F. W. Hickman-Brenner CDC	15913 <sup>T</sup>	←J.-W. Bae P27
8316 <sup>T</sup>	←ATCC 49568	1169-83		<i>Agromyces aurantiacus</i>	
<i>Aeromonas media</i>				12113 <sup>T</sup>	←AS 4.1717
2385 <sup>T</sup>	←Y. Kosako	15896 <sup>T</sup>	←N. Tanaka	<i>Agromyces bauzanensis</i>	
2386	←Y. Kosako	14204 <sup>T</sup>	←J.-H. Yoon R27	17735 <sup>T</sup>	←CGMCC 1.8984
<i>Aeromonas salmonicida</i>				<i>Agromyces bracchium</i>	
8062	←NCTC 10402	21465	←IAM 14994	11433 <sup>T</sup>	←IFO 16238
8063	←NCTC 10403	21466	←IAM 14995	<i>Agromyces cerinus</i> subsp. <i>cerinus</i>	
8064	←NCTC 10408	21467	←IAM 14996	9083 <sup>T</sup>	←VKM Ac-1340
<i>Aeromonas salmonicida</i> subsp. <i>achromogenes</i>		21468	←IAM 14997	10056	←VKM Ac-1341
7872	←ATCC 10801	21469 <sup>T</sup>	←IAM 14998	10057	←VKM Ac-1342
7875 <sup>T</sup>	←ATCC 33659	21470	←IAM 14999	10058	←VKM Ac-1343
8187	←NCIMB 2112			<i>Agromyces cerinus</i> subsp. <i>nitratus</i>	
8188	←NCIMB 2113	2434	←Y. Kosako	9084 <sup>T</sup>	←VKM Ac-1351
8189	←NCIMB 2114	2435	←Y. Kosako	<i>Agromyces fucosus</i>	
8190	←NCIMB 2115	8577	←Tokyo Med. Dent. Univ.	9085 <sup>T</sup>	←VKM Ac-1345
<i>Aeromonas salmonicida</i> subsp. <i>masoucida</i>		8578	←Tokyo Med. Dent. Univ.	10059	←VKM Ac-1346
7873 <sup>T</sup>	←ATCC 27013	8579	←Tokyo Med. Dent. Univ.	10060	←VKM Ac-1347
8191 <sup>T</sup>	←NCIMB 2020	12985	←CCUG 37004	10061	←VKM Ac-1348
8234 <sup>T</sup>	←M. Yoshinaga AR 304			10062	←VKM Ac-1349
8235	←M. Yoshinaga AR 306	12206 <sup>T</sup>	←DSM 14575	<i>Agromyces hippuratus</i>	
8236	←M. Yoshinaga AR 307	12145 <sup>T</sup>	←LMG 21000	9086 <sup>T</sup>	←VKM Ac-1352
8237	←M. Yoshinaga AR 308	" <i>Agrobacterium agile</i> "		10063	←VKM Ac-1353
<i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i>		20686 <sup>T</sup>	←IAM 12615	<i>Agromyces humatus</i>	
7874 <sup>T</sup>	←ATCC 33658	" <i>Agrobacterium luteum</i> "		14319 <sup>T</sup>	←I. Groth CD5 (=HKI 0327)
7955	←ATCC 14174	20690 <sup>T</sup>	←IAM 12619	<i>Agromyces italicus</i>	
8186	←NCIMB 1497	<i>Agrobacterium</i> sp.		14320 <sup>T</sup>	←I. Groth CD1 (=HKI 0325)
8192	←NCIMB 632	20915	←IAM 13558	<i>Agromyces lapidis</i>	
8193	←NCIMB 833	20916	←IAM 13559	14321 <sup>T</sup>	←I. Groth CD55 (=HKI 0324)
8194	←NCIMB 834	20989	←IAM 13936	<i>Agromyces luteolus</i>	
8195	←NCIMB 835	20992	←IAM 13941	11431 <sup>T</sup>	←IFO 16235
8196	←NCIMB 836	20993	←IAM 13942	<i>Agromyces mediolanus</i>	
		20994	←IAM 13943	1376	←K. Suzuki CNF 134
		21077	←IAM 14219	3346 <sup>T</sup>	←N. S. Agre
				9631	←K. Suzuki CNF183

9632 ←K. Suzuki CNF186	<i>Alicyciphilus denitrificans</i>	14587 ←S. A. B. Weelink strain BC	<i>Alkalibacterium indicireducens</i>
9633 ←K. Suzuki CNF208	<i>Alicyclobacillus acidiphilus</i>	21417 <sup>T</sup> ←IAM 14935	<i>Alkalibacterium psychrotolerans</i>
<i>Agromyces neolithicus</i>	<i>Alicyclobacillus acidocaldarius</i> subsp.	12281 <sup>T</sup> ←I. Yumoto IDR2-2	<i>Alkalimonas collagenimarina</i>
14322 <sup>T</sup> ←I. Groth 23-23 (=HKI 0321)	<i>acidocaldarius</i>	14267 <sup>T</sup> ←A. Kurata AC40	<i>Alkaliphilus crotonatoxidans</i>
<i>Agromyces ramosus</i>	5260 <sup>T</sup> ←DSM 446	11672 <sup>T</sup> ←X. Dong B11-2	<i>Alkaliphilus halophilus</i>
3108 <sup>T</sup> ←KCC A-0108	5261 ←DSM 453	16124 <sup>T</sup> ←X.-Y. Wu E2R	<i>Alkaliphilus transvaalensis</i>
<i>Agromyces rhizospherae</i>	<i>Alicyclobacillus acidoterrestris</i>	10712 <sup>T</sup> ←K. Takai SAGM1	<i>Alloactinosynnema album</i>
11432 <sup>T</sup> ←IFO 16236	21546 ←IAM 15085	17965 <sup>T</sup> ←CCM 7461	<i>Allochromatium phaeobacterium</i>
<i>Agromyces salentinus</i>	21547 ←IAM 15086	14796 <sup>T</sup> ←Ch. Sasikala JA144	<i>Allochromatium renukae</i>
14323 <sup>T</sup> ←I. Groth 20-5 (=HKI 0320)	21548 ←IAM 15087	14262 <sup>T</sup> ←Ch. Sasikala JA 136	<i>Allokutzneria albata</i>
<i>Agromyces soli</i>	<i>Alicyclobacillus contaminans</i>	9917 <sup>T</sup> ←ATCC 55061	<i>Altererythrobacter aestuarii</i>
16247 <sup>T</sup> ←M. J. Lee MJ21	21678 <sup>T</sup> ←IAM 15224	16339 <sup>T</sup> ←C. N. Seong KYW147	<i>Altererythrobacter epoxidivorans</i>
<i>Agromyces sp.</i>	21682 ←IAM 15228	13815 <sup>T</sup> ←K. K. Kwon JCS350	<i>Altererythrobacter luteolus</i>
21354 ←IAM 14850	<i>Alicyclobacillus fastidiosus</i>	12599 <sup>T</sup> ←J.-H. Yoon SW-109	<i>Altererythrobacter namhicola</i>
<i>Agromyces subbeticus</i>	21683 <sup>T</sup> ←IAM 15229	16345 <sup>T</sup> ←C. N. Seong KYW48	<i>Alteromonas litorea</i>
14324 <sup>T</sup> ←I. Groth Z33 (=HKI 0340)	<i>Alicyclobacillus ferrooxydans</i>	12188 <sup>T</sup> ←J.-H. Yoon TF-22	<i>Alteromonas macleodii</i>
<i>Agromyces terreus</i>	15090 <sup>T</sup> ←C.-Y. Jiang TC-34	20772 <sup>T</sup> ←IAM 12920	<i>Alteromonas marina</i>
14811 <sup>T</sup> ←J.-H. Yoon DS-10	<i>Alicyclobacillus herbarius</i>	11804 <sup>T</sup> ←J.-H. Yoon SW-47	
<i>Agromyces tropicus</i>	21376 <sup>T</sup> ←IAM 14883	11805 ←J.-H. Yoon SW-49	
15672 <sup>T</sup> ←C. Thawai CM9-9	<i>Alicyclobacillus kakegawensis</i>	<i>Alteromonas simiduii</i>	
<i>Agromyces ulmi</i>	21679 ←IAM 15225	13896 <sup>T</sup> ←W. Y. Shieh AS1	
13315 <sup>T</sup> ←LMG 21954	21681 <sup>T</sup> ←IAM 15227	<i>Alteromonas sp.</i>	
<i>Ahrensia kielensis</i>	<i>Alicyclobacillus macrosporangiius</i>	20601 ←IAM 12459	
20689 <sup>T</sup> ←IAM 12618	21814 <sup>T</sup> ←IAM 15370	<i>Alteromonas tagae</i>	
" <i>Alcaligenes eutrophus</i> subsp.	<i>Alicyclobacillus pomorum</i>	13895 <sup>T</sup> ←W. Y. Shieh AT1	
<i>quinolinicus</i> "	21459 <sup>T</sup> ←IAM 14988	<i>AlysIELLA crassa</i>	
20464 ←IAM 12305	<i>Alicyclobacillus sacchari</i>	21440 <sup>T</sup> ←IAM 14969	
<i>Alcaligenes faecalis</i>	21684 <sup>T</sup> ←IAM 15230	<i>AlysIELLA filiformis</i>	
10169 ←Y. Doi	<i>Alicyclobacillus sendaiensis</i>	21385 <sup>T</sup> ←IAM 14895	
20167 ←IAM 1446	11817 <sup>T</sup> ←T. Nakayama NTAP-1	<i>Aminiphilus circumscriptus</i>	
20175 ←IAM 1473	<i>Alicyclobacillus shizuokensis</i>	14039 <sup>T</sup> ←M.-L. Fardeau ILE-2	
20666 ←IAM 12589	21680 <sup>T</sup> ←IAM 15226	<i>Aminobacter aganoensis</i>	
<i>Alcaligenes faecalis</i> subsp. <i>faecalis</i>	217649 ←T. Itoh IC-002	7854 <sup>T</sup> ←T. Urakami TH-3	
5485 ←Y. Kosako 85023	21416 ←IAM 14934	<i>Aminobacter aminovorans</i>	
20522 <sup>T</sup> ←IAM 12369	" <i>Aliihoeftlea aestuarii</i> "	7852 <sup>T</sup> ←T. Urakami TK3001	
20525 ←IAM 12372	15118 <sup>T</sup> ←S. W. Roh N8	<i>Aminobacter ciceronei</i>	
20638 ←IAM 12560	<i>Aliivibrio logei</i>	21751 <sup>T</sup> ←IAM 15301	
20639 ←IAM 12561	21188 ←IAM 14405	<i>Aminobacter niigataensis</i>	
20640 ←IAM 12562	<i>Alishewanella agri</i>	7853 <sup>T</sup> ←T. Urakami DM-81	
20663 <sup>T</sup> ←IAM 12586	15597 <sup>T</sup> ←J.-W. Bae BL06	<i>Amnibacterium kyonggiense</i>	
20664 ←IAM 12587	<i>Alishewanella jeotgali</i>	16463 <sup>T</sup> ←S.-S. Lee KSL51201-037	
20665 ←IAM 12588	15561 <sup>T</sup> ←J.-W. Bae MS1	<i>Amphibacillus jilinensis</i>	
20667 ←IAM 12590	<i>Alistipes finegoldii</i>	16149 <sup>T</sup> ←X.-Y. Wu Y1	
<i>Alcaligenes</i> sp.	16770 <sup>T</sup> ←CCUG 46020	<i>Amphibacillus sediminis</i>	
20010 ←IAM 1015	<i>Alistipes indistinctus</i>	23213 <sup>T</sup> ←IAM 15428	
20643 ←IAM 12565	16068 <sup>T</sup> ←Y. Watanabe B131 (=YIT	<i>Amphibacillus xylyanus</i>	
<i>Algibacter lectus</i>	12060)	7361 <sup>T</sup> ←Y. Niimura Ep01	
21761 <sup>T</sup> ←IAM 15311	<i>Alistipes onderdonkii</i>	7362 ←Y. Niimura SinIV	
<i>Algicola bacteriolytica</i>	16771 <sup>T</sup> ←CCUG 48946	7363 ←Y. Niimura 15abb	
21270 <sup>T</sup> ←IAM 14595	<i>Alistipes putredinis</i>	<i>Amphritea balenae</i>	
21320 ←IAM 14813	16772 <sup>T</sup> ←CCUG 45780		
<i>Algicola sagamiensis</i>	<i>Alistipes shahii</i>		
11461 <sup>T</sup> ←C. Imada B-10-31	16773 <sup>T</sup> ←CCUG 48947		
<i>Algoriphagus locisalis</i>	<i>Alkalibacillus filiformis</i>		
12597 <sup>T</sup> ←J.-H. Yoon MSS-170	13893 <sup>T</sup> ←DSM 15448		
<i>Algoriphagus marincola</i>	<i>Alkalibacillus haloalkaliphilus</i>		
12319 <sup>T</sup> ←J.-H. Yoon SW-2	12303 <sup>T</sup> ←DSM 5271		
12320 ←J.-H. Yoon SW-26	<i>Alkalibacillus salilacus</i>		
<i>Algoriphagus winogradskyi</i>	13894 <sup>T</sup> ←DSM 16460		
13505 <sup>T</sup> ←KMM 3956	<i>Alkalibacillus silvisoli</i>		
<i>Algoriphagus yeomjeoni</i>	14193 <sup>T</sup> ←A. Echigo BM2		
12598 <sup>T</sup> ←J.-H. Yoon MSS-160	<i>Alkalibacterium iburiense</i>		
<i>Aliagarivorans marinus</i>	12662 <sup>T</sup> ←I. Yumoto M3		
15522 <sup>T</sup> ←W. Y. Shieh AAM1			
<i>Aliagarivorans taiwanensis</i>			
15537 <sup>T</sup> ←W. Y. Shieh AAT1			

14781 <sup>T</sup>	←M. Miyazaki JAMM 1525	10871 <sup>T</sup>	←Z. Liu 13.4	7539	←IFO 3115
<i>Amphritea japonica</i>		<i>Amycolatopsis saalfeldensis</i>	14909 <sup>T</sup>	9023	←O. Shida
14782 <sup>T</sup>	←M. Miyazaki JAMM 1866		←DSM 44993	9024 <sup>T</sup>	←O. Shida
<i>Amycolatopsis alba</i>		<i>Amycolatopsis sacchari</i>	11272 <sup>T</sup>	<i>Aneurinibacillus danicus</i>	21510 <sup>T</sup>
10030 <sup>T</sup>	←IFO 15602		←DSM 44468		←IAM 15048
<i>Amycolatopsis albidoflavus</i>		<i>Amycolatopsis samaneae</i>	17934 <sup>T</sup>	<i>Aneurinibacillus migulanus</i>	8504 <sup>T</sup>
11300 <sup>T</sup>	←ATCC 53205		←BCC 35842		←O. Shida
<i>Amycolatopsis australiensis</i>		<i>Amycolatopsis</i> sp.	4912	<i>Angustibacter luteus</i>	17683 <sup>T</sup>
15587 <sup>T</sup>	←NCIMB 14142		10029	←KACC 14249	←I. Yumoto TH13
<i>Amycolatopsis azurea</i>		<i>Amycolatopsis sulphurea</i>	3142 <sup>T</sup>	<i>Anoxybacillus voynovskiensis</i>	12111 <sup>T</sup>
3275 <sup>T</sup>	←KCC A-0275		←KCC A-0142	<i>Aquaspirillum arcticum</i>	21435 <sup>T</sup>
<i>Amycolatopsis benzoatilytica</i>		<i>Amycolatopsis taiwanensis</i>	14925 <sup>T</sup>	←IAM 14963	21224 <sup>T</sup>
13851 <sup>T</sup>	←DSM 43387		←BCRC 16802	<i>Aquaspirillum polymorphum</i>	←IAM 14441
<i>Amycolatopsis coloradensis</i>		<i>Amycolatopsis thailandensis</i>	16380 <sup>T</sup>	<i>Aquaspirillum serpens</i>	20995 <sup>T</sup>
9869 <sup>T</sup>	←NRRL 3218		←A. Siazar and S. Lumyong	21439	←IAM 14967
<i>Amycolatopsis echigonensis</i>		<i>Amycolatopsis thermoflava</i>	10669 <sup>T</sup>	<i>Aquifex pyrophilus</i>	9492 <sup>T</sup>
21831 <sup>T</sup>	←IAM 15387		←IFO 14333	←DSM 6858	
<i>Amycolatopsis eurytherma</i>		<i>Amycolatopsis tolypomycina</i>	4936 <sup>T</sup>	<i>Aquimarina addita</i>	17106 <sup>T</sup>
18060 <sup>T</sup>	←BCRC 16370		←KCC S-0936	←J. Chun JC2680	←NCIMB 1399
<i>Amycolatopsis halotolerans</i>		<i>Amycolatopsis tucumanensis</i>	17017 <sup>T</sup>	<i>Aquimarina intermedia</i>	13506 <sup>T</sup>
13279 <sup>T</sup>	←S. D. Lee N4-6		←LMG 24814	←KMM 6258	<i>Aquimarina latercula</i>
<i>Amycolatopsis japonica</i>		<i>Amycolatopsis ultiminotia</i>	16898 <sup>T</sup>	8515 <sup>T</sup>	15974 <sup>T</sup>
10140 <sup>T</sup>	←M. Hamada MG417-CF17		←DSM 45180	←Y.-S. Oh CNURIC011	←T. Chakrabarti GPTSA 20
(IMC A-0199)		<i>Amycolicicoccus subflavus</i>	17490 <sup>T</sup>	<i>Aquimarina macrocephali</i>	15542 <sup>T</sup>
<i>Amycolatopsis jejuensis</i>			←CGMCC 4.3532	←M. Miyazaki JAMB N27	
13280 <sup>T</sup>	←S. D. Lee N7-3	<i>Anaerococcus hydrogenalis</i>	7635 <sup>T</sup>	<i>Aquimonas voraii</i>	12896 <sup>T</sup>
<i>Amycolatopsis kentuckyensis</i>			←Gifu 7662	←B. C. Cho CL-S1	
12670 <sup>T</sup>	←DSM 44652	<i>Anaerococcus lactolyticus</i>	8140 <sup>T</sup>	<i>Arenibacter certesii</i>	13507 <sup>T</sup>
<i>Amycolatopsis keratiniphila</i> subsp.			←Gifu 8586	←KMM 3941	
<i>keratiniphila</i>		<i>Anaerococcus murdochii</i>	8141	<i>Arenibacter latericius</i>	13508 <sup>T</sup>
12683 <sup>T</sup>	←CIP 107963		15630 <sup>T</sup>	←KMM 426	
<i>Amycolatopsis keratiniphila</i> subsp.		<i>Anaerococcus prevotii</i>	8142	<i>Arenibacter palladensis</i>	13509 <sup>T</sup>
<i>nogabecina</i>			1964 <sup>T</sup>	←KMM 3961	
12671 <sup>T</sup>	←DSM 44586	<i>Anaerococcus tetradius</i>	←T. Ezaki Gifu 7672	<i>Arenibacter troitsensis</i>	11736 <sup>T</sup>
<i>Amycolatopsis lexingtonensis</i>		<i>Anaerococcus vaginalis</i>	8138 <sup>T</sup>	←M. Suzuki R3674	
12672 <sup>T</sup>	←DSM 44653		←Gifu 12669	<i>Arenicella xantha</i>	16153 <sup>T</sup>
<i>Amycolatopsis lurida</i>		<i>Anaerolinea thermolimosa</i>	12577 <sup>T</sup>	←N. Tanaka	
3141 <sup>T</sup>	←KCC A-0141		←T. Yamada IMO-1	<i>Arsenicicoccus bolidensis</i>	13385 <sup>T</sup>
<i>Amycolatopsis marina</i>		<i>Anaerolinea thermophila</i>	11388 <sup>T</sup>	←CCUG 47306	
16121 <sup>T</sup>	←CGMCC 4.3568		←Y. Sekiguchi UNI-1	<i>Arthrobacter agilis</i>	2584 <sup>T</sup>
<i>Amycolatopsis mediterranei</i>		<i>Anaerosphaera aminiphila</i>	15094 <sup>T</sup>	←M. V. Hao HK 961	2585
4789 <sup>T</sup>	←KCC S-0789		←A. Ueki WN036	←M. V. Hao HK 962	2586
<i>Amycolatopsis methanolica</i>		<i>Anaerostipes butyricatus</i>	17466 <sup>T</sup>	←M. V. Hao HK 963	2587
8087 <sup>T</sup>	←NCIMB 11946		←DSM 22094	<i>Arthrobacter albus</i>	11943 <sup>T</sup>
<i>Amycolatopsis minnesotensis</i>		<i>Anaerostipes caccae</i>	13470 <sup>T</sup>	←CIP 106791	
14545 <sup>T</sup>	←KCCM 42246		←DSM 14662	<i>Arthrobacter alkaliphilus</i>	21827 <sup>T</sup>
<i>Amycolatopsis nigrescens</i>		<i>Anaerotruncus colihominis</i>	15631 <sup>T</sup>	←IAM 15383	
14717 <sup>T</sup>	←I. Groth HKI 0330		←CCUG 45055	<i>Arthrobacter alpinus</i>	17736 <sup>T</sup>
(=CSC17Ta-90)		<i>Anaerovirgula multivorans</i>	12857 <sup>T</sup>	←CGMCC 1.8950	
<i>Amycolatopsis niigatensis</i>			←E. V. Pikuta strain SCA	<i>Arthrobacter ardleyensis</i>	12921 <sup>T</sup>
21832 <sup>T</sup>	←IAM 15388	<i>Ancalomicrombium adetum</i>	21375 <sup>T</sup>	←M. Chen An25	
<i>Amycolatopsis orientalis</i>			←IAM 14882	<i>Arthrobacter arilaitensis</i>	13566 <sup>T</sup>
3128	←KCC A-0128	<i>Ancylobacter aquaticus</i>	20515	←CIP 108037	
4235 <sup>T</sup>	←KCC S-0235		←IAM 12361	<i>Arthrobacter aurescens</i>	1330 <sup>T</sup>
4600 <sup>T</sup>	←KCC S-0600		20516	←IAM 12362	13567 <sup>T</sup>
<i>Amycolatopsis palatopharyngis</i>			20517	←IAM 12363	←CIP 108036
12460 <sup>T</sup>	←AS 4.1729		20518 <sup>T</sup>	<i>Arthrobacter bergerei</i>	11671 <sup>T</sup>
<i>Amycolatopsis plumensis</i>		<i>Ancylobacter rudongensis</i>	←IAM 12364	←AS 1.1761	←CIP 108035
13852 <sup>T</sup>	←DSM 44776			<i>Arthrobacter castelli</i>	
<i>Amycolatopsis pretoriensis</i>		<i>Aneurinibacillus aneurinilyticus</i>			
12673 <sup>T</sup>	←DSM 44654				
<i>Amycolatopsis regifauciun</i>					
15588 <sup>T</sup>	←NCIMB 14277				
<i>Amycolatopsis rifamycinica</i>					
12674 <sup>T</sup>	←DSM 46095				
<i>Amycolatopsis rubida</i>					

Animal  
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Cell  
DNA  
JCM  
Info

21794 <sup>T</sup> ← IAM 15349	
<i>Arthrobacter chlorophenolicus</i>	
12360 <sup>T</sup> ← KCTC 9906	
<i>Arthrobacter citreus</i>	
1331 <sup>T</sup> ← K. Suzuki CNF 021	
<i>Arthrobacter creatinolyticus</i>	
10102 <sup>T</sup> ← Gifu 12498	
<i>Arthrobacter cryotolerans</i>	
17806 <sup>T</sup> ← DSM 22826	
<i>Arthrobacter crystallopoietes</i>	
2522 <sup>T</sup> ← ATCC 15481	
<i>Arthrobacter cumminsii</i>	
11675 <sup>T</sup> ← CCUG 36788	
" <i>Arthrobacter dextranlyticum</i> "	
12217 ← Y. Nogi	
<i>Arthrobacter flavus</i>	
11496 <sup>T</sup> ← MTCC 3476	
<i>Arthrobacter gandavensis</i>	
13316 <sup>T</sup> ← LMG 21285	
<i>Arthrobacter gangotriensis</i>	
12166 <sup>T</sup> ← S. Shivaji strain Lz1y	
<i>Arthrobacter globiformis</i>	
1332 <sup>T</sup> ← K. Suzuki CNF 022	
20405 ← IAM 12102	
20407 ← IAM 12104	
<i>Arthrobacter histidinolovorans</i>	
2520 <sup>T</sup> ← ATCC 11442	
<i>Arthrobacter humicola</i>	
15921 <sup>T</sup> ← NRRL B-24479	
<i>Arthrobacter ilicis</i>	
12267 <sup>T</sup> ← CECT 4207	
<i>Arthrobacter kerguelensis</i>	
12165 <sup>T</sup> ← S. Shivaji KGN15	
<i>Arthrobacter koreensis</i>	
12361 <sup>T</sup> ← KCTC 9922	
<i>Arthrobacter livingstonensis</i>	
17807 <sup>T</sup> ← DSM 22825	
<i>Arthrobacter luteolus</i>	
11676 <sup>T</sup> ← CCUG 43811	
<i>Arthrobacter methylotrophus</i>	
13519 <sup>T</sup> ← DSM 14008	
<i>Arthrobacter monumenti</i>	
21770 <sup>T</sup> ← IAM 15321	
<i>Arthrobacter mysorens</i>	
11565 <sup>T</sup> ← LMG 16219	
<i>Arthrobacter nasiphocae</i>	
11677 <sup>T</sup> ← CCUG 42953	
<i>Arthrobacter nicotianae</i>	
1333 <sup>T</sup> ← IAM 12342	
1487 ← K. Suzuki CNF 195	
1970 ← ATCC 14929	
<i>Arthrobacter nicotinovorans</i>	
3874 <sup>T</sup> ← DSM 420	
<i>Arthrobacter nitroguajacolicus</i>	
14115 <sup>T</sup> ← CCM 4924	
<i>Arthrobacter oryzae</i>	
15922 <sup>T</sup> ← NRRL B-24478	
<i>Arthrobacter oxydans</i>	
2521 <sup>T</sup> ← ATCC 14358	
3875 ← DSM 20120	
<i>Arthrobacter parietis</i>	
14917 <sup>T</sup> ← LMG 22281	
<i>Arthrobacter pascens</i>	
11606 <sup>T</sup> ← CCM 1653	
<i>Arthrobacter phenanthrenivorans</i>	
16027 <sup>T</sup> ← LMG 23796	
<i>Arthrobacter pigmenti</i>	
21771 <sup>T</sup> ← IAM 15322	
<i>Arthrobacter polychromogenes</i>	
2523 <sup>T</sup> ← DSM 20136	
3876 ← DSM 342	
<i>Arthrobacter protophormiae</i>	
1973 <sup>T</sup> ← ATCC 19271	
<i>Arthrobacter psychrochitiniphilus</i>	
13874 <sup>T</sup> ← F. Wang GP3	
<i>Arthrobacter psychrolactophilus</i>	
12399 <sup>T</sup> ← CIP 107481	
<i>Arthrobacter psychrophenolicus</i>	
13568 <sup>T</sup> ← CIP 108593	
<i>Arthrobacter ramosus</i>	
1334 <sup>T</sup> ← IAM 12344	
<i>Arthrobacter rhombi</i>	
11678 <sup>T</sup> ← CCUG 38813	
<i>Arthrobacter roseus</i>	
11881 <sup>T</sup> ← DSM 14508	
21733 ← IAM 15282	
<i>Arthrobacter russicus</i>	
11414 <sup>T</sup> ← T. Ezaki A1-3	
<i>Arthrobacter scleromae</i>	
12642 <sup>T</sup> ← Y. Huang YH-2001	
<i>Arthrobacter</i> sp.	
1335 ← IAM 1447	
1336 ← IAM 1458	
1339 ← K. Suzuki CNF 020	
10527 ← M. Ohkuma Of-09	
17187 ← H. Uchiyama RS20	
20844 ← IAM 13128	
21361 ← IAM 14858	
<i>Arthrobacter stackebrandtii</i>	
14116 <sup>T</sup> ← CCM 2783	
<i>Arthrobacter sulfonivorans</i>	
13520 <sup>T</sup> ← DSM 14002	
<i>Arthrobacter sulfureus</i>	
1338 <sup>T</sup> ← IAM 1488	
<i>Arthrobacter tecti</i>	
21772 <sup>T</sup> ← IAM 15323	
<i>Arthrobacter tumbae</i>	
21773 <sup>T</sup> ← IAM 15324	
<i>Arthrobacter uratoxydans</i>	
11944 <sup>T</sup> ← CIP 102367	
<i>Arthrobacter ureafaciens</i>	
1337 <sup>T</sup> ← K. Suzuki CNF 023	
3873 ← DSM 419	
<i>Arthrobacter viscosus</i>	
11566 <sup>T</sup> ← LMG 16473	
<i>Arthrobacter woluwensis</i>	
11679 <sup>T</sup> ← CCUG 36790	
<i>Asaccharobacter celatus</i>	
14811 <sup>T</sup> ← K. Asano do03	
" <i>Asaia astilbes</i> "	
15831 <sup>T</sup> ← T. Uchimura T-6133	
25445 ← TUA 1376B	
25446 ← TUA 1377B	
<i>Asaia bogorensis</i>	
10569 <sup>T</sup> ← K. Komagata 71	
<i>Asaia krungthepensis</i>	
16128 <sup>T</sup> ← BCC 12978	
" <i>Asaia platycodi</i> "	
25411 ← TUA 1325B	
25414 <sup>T</sup> ← TUA 1328B	
" <i>Asaia prunellae</i> "	
25354 <sup>T</sup> ← TUA 1310B	
25423 ← TUA 1337B	
25425 ← TUA 1339B	
<i>Asaia siamensis</i>	
10715 <sup>T</sup> ← Y. Yamada S60-1	
10716 ← Y. Yamada Y85	
<i>Asanoa ferruginea</i>	
7544 <sup>T</sup> ← IFO 14496	
<i>Asanoa iriomotensis</i>	
13312 <sup>T</sup> ← NBRC 100142	
<i>Asanoa ishikariensis</i>	
11895 <sup>T</sup> ← IMSNU 22004	
<i>Asticcacaulis taihuensis</i>	
12463 <sup>T</sup> ← Y. Zhou T3-B7	
<i>Atopobium fossor</i>	
9981 <sup>T</sup> ← STAFF 1023	
<i>Atopobium minutum</i>	
1118 <sup>T</sup> ← ATCC 33267	
<i>Atopobium parvulum</i>	
1472 ← T. Mitsuoka S10-32	
6503 ← T. Mitsuoka	
6504 ← T. Mitsuoka	
10300 <sup>T</sup> ← DSM 20469	
<i>Atopobium rimae</i>	
10299 <sup>T</sup> ← DSM 7090	
<i>Aureimonas frigidaquae</i>	
14755 <sup>T</sup> ← C. N. Seong CW5	
<i>Aureispira marina</i>	
23197 <sup>T</sup> ← IAM 15389	
23200 ← IAM 15390	
23201 ← IAM 15391	
<i>Aureispira maritima</i>	
23207 <sup>T</sup> ← IAM 15439	
<i>Austwickia chelonae</i>	
9706 <sup>T</sup> ← CIP 104541	
<i>Azohydromonas australica</i>	
20723 <sup>T</sup> ← IAM 12664	
<i>Azohydromonas lata</i>	
20675 <sup>T</sup> ← IAM 12599	
20724 ← IAM 12665	
<i>Azomonas agilis</i>	
21502 <sup>T</sup> ← IAM 15039	
<i>Azomonas insignis</i>	
21542 ← IAM 15081	
21543 ← IAM 15082	
<i>Azorhizobium caulinodans</i>	
20966 <sup>T</sup> ← IAM 13624	
<i>Azorhizophilus paspali</i>	
20726 <sup>T</sup> ← IAM 12667	
<i>Azospirillum brasiliense</i>	
1224 <sup>T</sup> ← ATCC 29145	
1225 ← ATCC 29710	
1226 ← ATCC 29711	
<i>Azospirillum lipoferum</i>	
1227 ← ATCC 29708	
1228 ← ATCC 29731	
1247 <sup>T</sup> ← N. R. Krieg Sp 59b	
1270 ← ATCC 29709	
<i>Azospirillum oryzae</i>	
21588 <sup>T</sup> ← IAM 15130	
<i>Azospirillum</i> sp.	
14678 ← K. Minamisawa B506	
14727 ← K. Minamisawa B4	
<i>Azotobacter armeniacus</i>	
21509 <sup>T</sup> ← IAM 15047	
<i>Azotobacter beijerinckii</i>	
20742 <sup>T</sup> ← IAM 12683	

<i>Azotobacter chroococcum</i>	20478 ←IAM 12320	<i>Bacillus megaterium</i>	2506 <sup>T</sup> ←CCM 2007
20725 <sup>T</sup> ←IAM 12666		20055 ←IAM 1111	
21503 <sup>T</sup> ←IAM 15040		20084 ←IAM 1166	
<i>Azotobacter salinestris</i>	21707 <sup>T</sup> ←IAM 15256	20126 ←IAM 1245	
21483 <sup>T</sup> ←IAM 15020		<i>Bacillus mojavensis</i>	12230 <sup>T</sup> ←NRRL B-14698
<i>Azotobacter</i> sp.	<i>Bacillus endophyticus</i>	<i>Bacillus mycoides</i>	20093 ←IAM 1190
21490 ←IAM 15027	12211 <sup>T</sup> ←CIP 106778	20107 ←IAM 1211	
<i>Azotobacter vinelandii</i>	<i>Bacillus firmus</i>	<i>Bacillus nanhaiisediminis</i>	16507 <sup>T</sup> ←J. Zhang NH3
20040 ←IAM 1078	2512 <sup>T</sup> ←CCM 2213	<i>Bacillus niabensis</i>	16399 <sup>T</sup> ←KACC 11279
21475 <sup>T</sup> ←IAM 15004	20092 ←IAM 1188	<i>Bacillus niaci</i>	12306 <sup>T</sup> ←DSM 2923
<i>Bacillus acidiproducens</i>	<i>Bacillus flexus</i>	<i>Bacillus novalis</i>	21709 <sup>T</sup> ←IAM 15258
14638 <sup>T</sup> ←Y.-H. Chang SL213	12301 <sup>T</sup> ←DSM 1320	<i>Bacillus oceanisediminis</i>	16506 <sup>T</sup> ←J. Zhang H2
<i>Bacillus akibai</i>	<i>Bacillus fumarioli</i>	<i>Bacillus okhensis</i>	13040 <sup>T</sup> ←B. Patel Kh10-101
9157 <sup>T</sup> ←K. Horikoshi 1139	21708 <sup>T</sup> ←IAM 15257	<i>Bacillus okuhidensis</i>	10946 ←GTC 855
<i>Bacillus alcalophilus</i>	<i>Bacillus funiculus</i>	<i>Bacillus oshimensis</i>	12663 <sup>T</sup> ←I. Yumoto K11
5262 <sup>T</sup> ←DSM 485	11201 <sup>T</sup> ←R. Iriye NAF001	<i>Bacillus persepolensis</i>	15720 <sup>T</sup> ←A. Ventosa HS136
<i>Bacillus altitudinis</i>	11493 ←R. Iriye NAF002	<i>Bacillus polygoni</i>	14604 <sup>T</sup> ←I. Yumoto YN-1
13350 <sup>T</sup> ←S. Shivaji 41KF2b	" <i>Bacillus gaemokensis</i> "	<i>Bacillus pseudofirmus</i>	9141 ←K. Horikoshi A-40-2
<i>Bacillus alveayuensis</i>	15801 <sup>T</sup> ←Y.-H. Chang BL3-6	<i>Bacillus pseudomycooides</i>	12231 <sup>T</sup> ←NRRL B-617
12523 <sup>T</sup> ←S.-J. Kim TM1	<i>Bacillus halmapalus</i>	<i>Bacillus pumilus</i>	2508 <sup>T</sup> ←CCM 2144
<i>Bacillus amyloliquefaciens</i>	12302 <sup>T</sup> ←DSM 8723	20372 ←IAM 12050	
20195 ←IAM 1521	<i>Bacillus halodurans</i>	<i>Bacillus qingdaonensis</i>	14087 <sup>T</sup> ←G.-Q. Guo and Q.-F. Wang CM1
20196 ←IAM 1522	9148 ←K. Horikoshi A-59	" <i>Bacillus racemilacticus</i> "	2518 ←IAM 12319
20197 ←IAM 1523	9153 ←K. Horikoshi C-125	<i>Bacillus rigui</i>	16348 <sup>T</sup> ←C. N. Seong WPCB074
<i>Bacillus aquimaris</i>	9161 ←K. Horikoshi AH101	16349 ←C. N. Seong WPCB165	
11545 <sup>T</sup> ←Y.-H. Park TF-12	<i>Bacillus hemicellulosilyticus</i>	<i>Bacillus selenatarsenatis</i>	14380 <sup>T</sup> ←M. Ike SF-1
<i>Bacillus aryabhatti</i>	9152 <sup>T</sup> ←K. Horikoshi C-11	<i>Bacillus simplex</i>	12307 <sup>T</sup> ←DSM 1321
13839 <sup>T</sup> ←S. Shivaji B8W22	<i>Bacillus horti</i>	<i>Bacillus siralis</i>	12213 <sup>T</sup> ←CIP 106295
<i>Bacillus asahii</i>	9943 <sup>T</sup> ←I. Yumoto K13	<i>Bacillus smithii</i>	9076 <sup>T</sup> ←NRRL NRS-173
12112 <sup>T</sup> ←K. Takizawa MA001	<i>Bacillus hwajinpoensis</i>	<i>Bacillus soli</i>	21710 <sup>T</sup> ←IAM 15259
<i>Bacillus atrophaeus</i>	11807 <sup>T</sup> ←J.-H. Yoon SW-72	<i>Bacillus solisalci</i>	14863 <sup>T</sup> ←H. Liu YC1
9070 <sup>T</sup> ←NRRL NRS-213	<i>Bacillus idriensis</i>	<i>Bacillus sonorensis</i>	12232 <sup>T</sup> ←NRRL B-23154
20230 ←IAM 1633	13437 <sup>T</sup> ←K. S. Ko SMC 4352-2	<i>Bacillus</i> sp.	
<i>Bacillus azotoformans</i>	<i>Bacillus indicus</i>	2888 ←T. Akiba W1	
12210 <sup>T</sup> ←CIP 77.28	12168 <sup>T</sup> ←S. Shivaji Sd/3	2889 ←T. Akiba W2	
<i>Bacillus badius</i>	<i>Bacillus infantis</i>	2890 ←T. Akiba W3	
12228 <sup>T</sup> ←NRRL NRS-663	13438 <sup>T</sup> ←K. S. Ko SMC 4352-1	2891 ←T. Akiba W4	
<i>Bacillus bataviensis</i>	<i>Bacillus isronensis</i>	9137 ←K. Horikoshi O-4	
21706 <sup>T</sup> ←IAM 15255	13838 <sup>T</sup> ←S. Shivaji B3W22	9142 ←K. Horikoshi 17-1	
<i>Bacillus boroniphilus</i>	<i>Bacillus jeotgalici</i>		
21738 <sup>T</sup> ←IAM 15287	10885 <sup>T</sup> ←Y.-H. Park YKJ-10		
<i>Bacillus carboniphilus</i>	10886 ←Y.-H. Park YKJ-11		
9731 <sup>T</sup> ←T. Fujita	<i>Bacillus krulwichiae</i>		
<i>Bacillus cecembensis</i>	11691 <sup>T</sup> ←I. Yumoto AM31D		
15113 <sup>T</sup> ←S. Shivaji PN5	" <i>Bacillus kyonggiensis</i> "		
<i>Bacillus cellulosilyticus</i>	17569 <sup>T</sup> ←S.-S. Lee NB22		
9156 <sup>T</sup> ←K. Horikoshi N-4	<i>Bacillus lehensis</i>		
<i>Bacillus cereus</i>	13820 <sup>T</sup> ←R. K. Jain MLB2		
2152 <sup>T</sup> ←IAM 12605	<i>Bacillus lenticus</i>		
10911 ←M. Ohkuma N-5	2511 <sup>T</sup> ←CCM 2214		
17690 ←NCTC 11143	20330 ←IAM 11055		
20015 ←IAM 1029	<i>Bacillus licheniformis</i>		
20037 ←IAM 1072	2505 <sup>T</sup> ←CCM 2145		
20054 ←IAM 1110	20329 ←IAM 11054		
20117 ←IAM 1229	<i>Bacillus luciferensis</i>		
20240 ←IAM 1656	12212 <sup>T</sup> ←CIP 107105		
20266 ←IAM 1729	<i>Bacillus macauensis</i>		
<i>Bacillus circulans</i>	13285 <sup>T</sup> ←H. H. P. Fang ZFHKF-1		
2504 <sup>T</sup> ←CCM 2048	" <i>Bacillus macrooides</i> "		
20072 ←IAM 1140	21742 ←IAM 15292		
<i>Bacillus clausii</i>	<i>Bacillus mannanilyticus</i>		
9138 ←K. Horikoshi Y-76	10596 <sup>T</sup> ←K. Horikoshi AM-001		
9139 ←K. Horikoshi 221	<i>Bacillus marisflavi</i>		
<i>Bacillus coagulans</i>	11544 <sup>T</sup> ←Y.-H. Park TF-11		
2257 <sup>T</sup> ←IAM 1115	<i>Bacillus marmarensis</i>		
2258 ←IAM 1194	15719 <sup>T</sup> ←A. A. Denizci GMBE 72		

9143	←K. Horikoshi 38-2	<i>Bacillus vallismortis</i>	13265 <sup>T</sup> ←M. Kitahara 341
9144	←K. Horikoshi 27-1	12234 <sup>T</sup> ←NRRL B-14890	13266 ←M. Kitahara 342
9145	←K. Horikoshi 13	<i>Bacillus vietnamensis</i>	<i>Bacteroides massiliensis</i>
9146	←K. Horikoshi 135	11124 <sup>T</sup> ←HSCC 1663	12982 ←M. Kitahara EG4-8-2
9147	←K. Horikoshi 169	<i>Bacillus vireti</i>	13223 <sup>T</sup> ←D. Raoult B84634
9149	←K. Horikoshi K-12-5	21711 <sup>T</sup> ←IAM 15260	<i>Bacteroides nordii</i>
9150	←K. Horikoshi C-59-2	<i>Bacillus wakoensis</i>	12987 <sup>T</sup> ←CCUG 48943
9151	←K. Horikoshi 202-1	9140 <sup>T</sup> ←K. Horikoshi N-1	<i>Bacteroides oleiciplenus</i>
9154	←K. Horikoshi D-6	<i>Bacteroides acidifaciens</i>	16102 <sup>T</sup> ←Y. Watanabe B210 (=YIT 12058)
9155	←K. Horikoshi 2b-2	10556 <sup>T</sup> ←Y. Miyamoto and K. Itoh A40	<i>Bacteroides ovatus</i>
9158	←K. Horikoshi IC	<i>Bacteroides barnesiae</i>	5824 <sup>T</sup> ←ATCC 8483
9159	←K. Horikoshi KX-6	13652 <sup>T</sup> ←M. Sakamoto BL2	<i>Bacteroides paurosaccharolyticus</i>
9160	←K. Horikoshi H-167	13653 ←M. Sakamoto BL66	15092 <sup>T</sup> ←A. Ueki WK042
9162	←K. Horikoshi TX-3	13654 ←M. Sakamoto EG3	<i>Bacteroides plebeius</i>
9163	←K. Horikoshi N-6	13655 ←M. Sakamoto EG6	12973 <sup>T</sup> ←M. Kitahara M12
9164	←K. Horikoshi C-3	13656 ←M. Sakamoto M27	12974 ←M. Kitahara M14
9165	←K. Horikoshi AG430	<i>Bacteroides caccae</i>	12975 ←M. Kitahara M35
9166	←K. Horikoshi S-2	9498 <sup>T</sup> ←ATCC 43185	12976 ←M. Kitahara M122
9167	←K. Horikoshi S-39	<i>Bacteroides cellulosilyticus</i>	12977 ←M. Kitahara M131
9168	←K. Horikoshi 199	15632 <sup>T</sup> ←CCUG 44979	12978 ←M. Kitahara M132
9763	←M. Kitada No. 66	<i>Bacteroides chinchillae</i>	<i>Bacteroides propionicificiens</i>
10529	←M. Ohkuma N-2	16497 <sup>T</sup> ←M. Kitahara ST170	14649 <sup>T</sup> ←A. Ueki SV434
10530	←M. Ohkuma Gf-03	16498 ←M. Kitahara ST180	14650 ←A. Ueki S562
10531	←M. Ohkuma Cd-01	<i>Bacteroides clarus</i>	<i>Bacteroides pyogenes</i>
10913	←M. Ohkuma CF-XY50	16067 <sup>T</sup> ←Y. Watanabe A20 (=YIT 12056)	6292 ←Y. Benno P38024
11806	←J.-H. Yoon SW-93	<i>Bacteroides coagulans</i>	6294 <sup>T</sup> ←Y. Benno P39-88
12293	←NBRC 15314	12528 <sup>T</sup> ←LMG 8206	10003 ←STAFF 1101
14833	←K. Sudesh MC1	<i>Bacteroides coprocola</i>	<i>Bacteroides rodentium</i>
20016	←IAM 1030	12979 <sup>T</sup> ←M. Kitahara M16	16496 <sup>T</sup> ←M. Kitahara ST28
<b><i>Bacillus subtilis</i></b>		12980 ←M. Kitahara M11	<i>Bacteroides salanitronis</i>
2499	←ATCC 6633	12981 ←M. Kitahara M158	13657 <sup>T</sup> ←M. Sakamoto BL78
11003	←A. Ishizaki C1	<i>Bacteroides coprophilus</i>	<i>Bacteroides salyersiae</i>
20014	←IAM 1026	13816 ←H. Hayashi CB40	12988 <sup>T</sup> ←CCUG 48945
20035	←IAM 1069	13817 ←H. Hayashi CB41	<i>Bacteroides sartorii</i>
20036	←IAM 1071	13818 <sup>T</sup> ←H. Hayashi CB42	17136 <sup>T</sup> ←CCUG 57211
20038	←IAM 1076	<i>Bacteroides coprosuis</i>	<i>Bacteroides stercoris</i>
20057	←IAM 1114	13475 <sup>T</sup> ←CCUG 50528	9496 <sup>T</sup> ←ATCC 43183
20073	←IAM 1145	<i>Bacteroides dorei</i>	<i>Bacteroides thetaiotomicron</i>
20083	←IAM 1163	13471 <sup>T</sup> ←M. Sakamoto 175	5827 <sup>T</sup> ←ATCC 29148
20085	←IAM 1168	13472 ←M. Sakamoto 219	<i>Bacteroides uniformis</i>
20086	←IAM 1169	<i>Bacteroides eggerthii</i>	5828 <sup>T</sup> ←ATCC 8492
20094	←IAM 1191	12986 <sup>T</sup> ←CCUG 9559	13286 ←M. Kitahara 276
20095	←IAM 1192	<i>Bacteroides faecis</i>	13287 ←M. Kitahara 281
20096	←IAM 1193	16477 ←J.-W. Bae MAJ26	13288 ←M. Kitahara 344
20105	←IAM 1207	16478 <sup>T</sup> ←J.-W. Bae MAJ27	<i>Bacteroides vulgaris</i>
20108	←IAM 1212	<i>Bacteroides finegoldii</i>	5826 <sup>T</sup> ←ATCC 8482
20118	←IAM 1231	13345 <sup>T</sup> ←M. Kitahara 199	<i>Bacteroides xylanisolvens</i>
20127	←IAM 1247	13346 ←M. Kitahara 176	<i>Balnearium lithotrophicum</i>
20132	←IAM 1259	<i>Bacteroides fluxus</i>	11970 <sup>T</sup> ←K. Takai 17S
20333	←IAM 11060	16101 <sup>T</sup> ←Y. Watanabe A159 (=YIT 12057)	<i>Barnesiella intestinihominis</i>
20336	←IAM 11063	<i>Bacteroides fragilis</i>	15079 <sup>T</sup> ←M. Morotomi 7-38 (=YIT 11860)
20352	←IAM 12019	11017 ←CIP 104785	<i>Barnesiella viscericola</i>
20353	←IAM 12020	11019 <sup>T</sup> ←CIP 77.16	13660 <sup>T</sup> ←M. Sakamoto C46
20354	←IAM 12021	17585 ←T. Odamaki MBFT 101	13661 ←M. Sakamoto C47
20520	←IAM 12366	17586 ←T. Odamaki MBFT 201	<i>Bartonella japonica</i>
21228	←IAM 14446	17587 ←T. Odamaki MBFT 301	15567 <sup>T</sup> ←K. Inoue Fuji 18-1
<b><i>Bacillus subtilis</i> subsp. <i>spizizenii</i></b>		<i>Bacteroides gallinarum</i>	<i>Bartonella silvatica</i>
12233 <sup>T</sup>	←NRRL B-23049	13658 <sup>T</sup> ←M. Sakamoto C35	15566 <sup>T</sup> ←K. Inoue Fuji 23-1
<b><i>Bacillus subtilis</i> subsp. <i>subtilis</i></b>		13659 ←M. Sakamoto C43	<i>Beijerinckia indica</i> subsp. <i>indica</i>
1465 <sup>T</sup>	←IAM 12118	<i>Bacteroides graminisolvans</i>	20098 ←IAM 1195
10629	←H. Yoshikawa	15093 <sup>T</sup> ←A. Ueki XDT-1	<i>Bellilinea caldifistulae</i>
<b><i>Bacillus thuringiensis</i></b>		<i>Bacteroides helcogenes</i>	13669 <sup>T</sup> ←T. Yamada GOMI-1
20331	←IAM 11056	6297 <sup>T</sup> ←Y. Benno P36-108	<i>Bergerilla denitrificans</i>
20337	←IAM 11064	<i>Bacteroides intestinalis</i>	
20386 <sup>T</sup>	←IAM 12077		
20387	←IAM 12078		

21446 <sup>T</sup>	←IAM 14975	1272	←DSM 20090	<b><i>Bifidobacterium saeculare</i></b>
<b><i>Bergeyella zoohelcum</i></b>		7007	←Y. Benno	8223 <sup>T</sup> ←B. Biavati RA161
21249 <sup>T</sup>	←IAM 14550	7009	←Y. Benno	8508 ←B. Biavati RA158
<b><i>Beutenbergia cavernae</i></b>		7010	←Y. Benno	<b><i>Bifidobacterium scardovii</i></b>
11478 <sup>T</sup>	←CIP 106362	7011	←Y. Benno	12489 <sup>T</sup> ←CCUG 13008 A
<b><i>Bhargavaea cecembensis</i></b>		11344	←Y. Benno M-139	<b><i>Bifidobacterium</i> sp.</b>
14375 <sup>T</sup>	←S. Shivaji DSE10	11345	←Y. Benno M-140	6439 ←Y. Benno
<b><i>Bifidobacterium adolescentis</i></b>		11347	←Y. Benno M-193	7013 ←Y. Benno
1251	←DSM 20087	11660	←AS 1.3006	7022 ←Y. Benno
1275 <sup>T</sup>	←ATCC 15703	<b><i>Bifidobacterium longum</i> subsp. <i>longum</i></b>		7023 ←Y. Benno
7044	←Y. Benno	1217 <sup>T</sup>	←ATCC 15707	7027 ←Y. Benno
7045	←Y. Benno	7050	←Y. Benno	7028 ←Y. Benno
7046	←T. Mitsuoka IV-46	7052	←T. Mitsuoka IV-52	7042 ←T. Mitsuoka IV-42
<b><i>Bifidobacterium angulatum</i></b>		7053	←Y. Benno	<b><i>Bifidobacterium stercoris</i></b>
1252	←DSM 20225	7054	←T. Mitsuoka IV-54	15918 <sup>T</sup> ←M.-S. Kim Eg1
7096 <sup>T</sup>	←T. Mitsuoka IV-96	7055	←Y. Benno	<b><i>Bifidobacterium subtile</i></b>
<b><i>Bifidobacterium animalis</i> subsp. <i>animalis</i></b>		7056	←Y. Benno	7109 ←Y. Benno
1190 <sup>T</sup>	←ATCC 25527	7060	←Y. Benno	<b><i>Bifidobacterium thermacidophilum</i> subsp. <i>porcinum</i></b>
1253	←DSM 20105	11340	←Y. Benno B-34	16945 <sup>T</sup> ←LMG 21689
7117	←T. Mitsuoka IV-117	11341	←Y. Benno B-41	<b><i>Bifidobacterium thermacidophilum</i> subsp. <i>thermacidophilum</i></b>
11658	←AS 1.3003	11342	←Y. Benno B-44	11165 <sup>T</sup> ←X. Dong 36
<b><i>Bifidobacterium animalis</i> subsp. <i>lactis</i></b>		11343	←Y. Benno B-85	<b><i>Bifidobacterium thermophilum</i></b>
10602 <sup>T</sup>	←M. Matsumoto LKM501	<b><i>Bifidobacterium longum</i> subsp. <i>suis</i></b>		1207 <sup>T</sup> ←ATCC 25525
<b><i>Bifidobacterium asteroides</i></b>		1269 <sup>T</sup>	←ATCC 27533	1268 ←DSM 20212
8230 <sup>T</sup>	←DSM 20089	7139	←T. Mitsuoka IV-139	7031 ←Y. Benno
<b><i>Bifidobacterium bifidum</i></b>		<b><i>Bifidobacterium magnum</i></b>		7033 ←Y. Benno
1209	←ATCC 11863	1218 <sup>T</sup>	←ATCC 27540	7034 ←Y. Benno
1254	←DSM 20082	7120	←T. Mitsuoka IV-120	7036 ←Y. Benno
1255 <sup>T</sup>	←DSM 20456	7132	←Y. Benno	7088 ←Y. Benno
7002	←Y. Benno	<b><i>Bifidobacterium merycicum</i></b>		<b><i>Bifidobacterium tsurumiense</i></b>
7003	←Y. Benno	8219 <sup>T</sup>	←B. Biavati Ru915B	13495 <sup>T</sup> ←M. Okamoto OMB 115
7004	←T. Mitsuoka IV-4	8220	←B. Biavati Ru767	13496 ←M. Okamoto OMB 118
<b><i>Bifidobacterium boum</i></b>		<b><i>Bifidobacterium minimum</i></b>		13497 ←M. Okamoto OMB 120
1211 <sup>T</sup>	←ATCC 27917	5821 <sup>T</sup>	←ATCC 27538	<b><i>Blastochloris gulmargensis</i></b>
11659	←AS 1.3004	<b><i>Bifidobacterium pseudocatenulatum</i></b>		14795 <sup>T</sup> ←Ch. Sasikala JA248
<b><i>Bifidobacterium breve</i></b>		1200 <sup>T</sup>	←ATCC 27919	<b><i>Blastococcus aggregatus</i></b>
1192 <sup>T</sup>	←ATCC 15700	7040	←Y. Benno	12602 <sup>T</sup> ←NCIMB 1849
1273	←DSM 20091	7041	←Y. Benno	<b><i>Blastococcus jejuensis</i></b>
7016	←T. Mitsuoka IV-16	11661	←AS 1.3002	15614 <sup>T</sup> ←KCCM 42251
7017	←Y. Benno	<b><i>Bifidobacterium pseudolongum</i></b>		<b><i>Blastococcus saxobsidens</i></b>
7019	←Y. Benno	11662	←AS 1.3005	13239 <sup>T</sup> ←DSM 44509
7020	←Y. Benno	<b><i>Bifidobacterium pseudolongum</i> subsp. <i>globosum</i></b>		<b><i>Blastomonas natatoria</i></b>
<b><i>Bifidobacterium catenulatum</i></b>		5820 <sup>T</sup>	←ATCC 25865	12333 <sup>T</sup> ←NBRC 15649
1194 <sup>T</sup>	←ATCC 27539	7089	←Y. Benno	<b><i>Blaertia coccoides</i></b>
7130	←T. Mitsuoka IV-130	7092	←Y. Benno	1395 <sup>T</sup> ←C. Kaneuchi CLC-1
<b><i>Bifidobacterium choerinum</i></b>		<b><i>Bifidobacterium pseudolongum</i> subsp. <i>pseudolongum</i></b>		<b><i>Blaertia gluceracea</i></b>
1212 <sup>T</sup>	←ATCC 27686	1205 <sup>T</sup>	←ATCC 25526	17039 <sup>T</sup> ←DSM 22028
<b><i>Bifidobacterium coryneforme</i></b>		1264	←DSM 20085	<b><i>Blaertia hansenii</i></b>
5819 <sup>T</sup>	←ATCC 25911	1266	←DSM 20094	14655 <sup>T</sup> ←DSM 20583
<b><i>Bifidobacterium cuniculi</i></b>		1267	←DSM 20095	<b><i>Blaertia hydrogenotrophica</i></b>
1213 <sup>T</sup>	←ATCC 27916	7061	←Y. Benno	14656 <sup>T</sup> ←DSM 10507
<b><i>Bifidobacterium dentium</i></b>		7062	←Y. Benno	<b><i>Blaertia producta</i></b>
1195 <sup>T</sup>	←ATCC 27534	7072	←Y. Benno	1471 <sup>T</sup> ←T. Mitsuoka S10-45
7135	←T. Mitsuoka IV-135	7081	←Y. Benno	<b><i>Blaertia schinkii</i></b>
<b><i>Bifidobacterium gallicum</i></b>		<b><i>Bifidobacterium psychraerophilum</i></b>		14657 <sup>T</sup> ←DSM 10518
8224 <sup>T</sup>	←DSM 20093	15958 <sup>T</sup>	←LMG 21775	<b><i>Bogoriella caseilytica</i></b>
<b><i>Bifidobacterium gallinarum</i></b>		<b><i>Bifidobacterium pullorum</i></b>		11479 <sup>T</sup> ←CIP 105404
6291 <sup>T</sup>	←J. Watabe EBF 90/38	1214 <sup>T</sup>	←ATCC 27685	<b><i>Bordetella hinzii</i></b>
<b><i>Bifidobacterium indicum</i></b>		<b><i>Bifidobacterium ruminantium</i></b>		15550 <sup>T</sup> ←LMG 13501
1302 <sup>T</sup>	←ATCC 25912	8221	←B. Biavati Ru728	15551 ←LMG 14052
<b><i>Bifidobacterium kashiwanohense</i></b>		8222 <sup>T</sup>	←B. Biavati Ru687	20670 ←IAM 12593
15439 <sup>T</sup>	←H. Morita HM2-2	8509	←B. Biavati Ru679	<b><i>Borrelia sinica</i></b>
<b><i>Bifidobacterium longum</i> subsp. <i>infantis</i></b>		<b><i>Borrelia turcica</i></b>		10505 <sup>T</sup> ←T. Masuzawa CMN3
1210	←ATCC 25962			
1222 <sup>T</sup>	←ATCC 15697			
1260	←DSM 20218			

11958 <sup>T</sup> ← T. Masuzawa IST7	<i>Brevibacillus centrosporus</i>	11567 <sup>T</sup> ← LMG 19814
<i>Bowmanella denitrificans</i>	<i>Brevibacillus choshinensis</i>	<i>Brevibacterium permense</i>
13378 <sup>T</sup> ← W. Y. Shieh BD1	8505 <sup>T</sup> ← O. Shida HPD52	13318 <sup>T</sup> ← LMG 22207
<i>Brachybacterium alimentarium</i>	<i>Brevibacillus fluminis</i>	<i>Brevibacterium picturae</i>
11607 <sup>T</sup> ← CCM 4520	15716 <sup>T</sup> ← C.-J. Cha CJ71	13319 <sup>T</sup> ← LMG 22061
<i>Brachybacterium conglomeratum</i>	<i>Brevibacillus formosus</i>	<i>Brevibacterium pityocampae</i>
11608 <sup>T</sup> ← CCM 2589	9169 <sup>T</sup> ← O. Shida	17808 <sup>T</sup> ← DSM 21720
20172 ← IAM 1459	<i>Brevibacillus invocatus</i>	<i>Brevibacterium salitolerans</i>
20174 ← IAM 1470	12215 <sup>T</sup> ← CIP 106911	15900 <sup>T</sup> ← T.-W. Guan TRM 415
<i>Brachybacterium faecium</i>	<i>Brevibacillus laterosporus</i>	<i>Brevibacterium samyangense</i>
11609 <sup>T</sup> ← CCM 4372	2496 <sup>T</sup> ← CCM 2116	14546 <sup>T</sup> ← KCCM 42316
<i>Brachybacterium freconis</i>	<i>Brevibacillus panacihumi</i>	<i>Brevibacterium sanguinis</i>
12138 <sup>T</sup> ← LMG 20336	15085 <sup>T</sup> ← D.-C. Yang DCY35	13386 <sup>T</sup> ← CCUG 47857
<i>Brachybacterium muris</i>	15086 ← D.-C. Yang C17	<i>Brevibacterium</i> sp.
14117 <sup>T</sup> ← CCM 7047	<i>Brevibacillus parabrevis</i>	6894 ← S. Nagata A505
<i>Brachybacterium nesterenkovii</i>	8506 <sup>T</sup> ← O. Shida	" <i>Brevibacterium sulfureum</i> "
11648 <sup>T</sup> ← IFO 15384	20017 ← IAM 1031	1484 ← K. Suzuki CNF 192
<i>Brachybacterium paraconglomeratum</i>	<i>Brevibacillus reuszeri</i>	1485 ← K. Suzuki CNF 193
17781 <sup>T</sup> ← NCIMB 9861	9170 <sup>T</sup> ← O. Shida	<i>Brevundimonas basalis</i>
<i>Brachybacterium phenoliresistens</i>	<i>Brevibacterium album</i>	15911 <sup>T</sup> ← J.-W. Bae J22
15157 <sup>T</sup> ← BCRC 17589	15617 <sup>T</sup> ← KCTC 19173	<i>Brevundimonas bullata</i>
<i>Brachybacterium rhamnosum</i>	<i>Brevibacterium antiquum</i>	20846 <sup>T</sup> ← IAM 13153
11650 <sup>T</sup> ← IFO 15203	13317 <sup>T</sup> ← LMG 22206	<i>Brevundimonas diminuta</i>
<i>Brachybacterium sacelli</i>	<i>Brevibacterium aurantiacum</i>	2428 ← ATCC 19146
12139 <sup>T</sup> ← LMG 20345	2590 <sup>T</sup> ← NCDO 739	2788 <sup>T</sup> ← K. Komagata KS 0016
<i>Brachybacterium</i> sp.	20298 ← IAM 1901	2789 ← K. Komagata KS 0242
21360 ← IAM 14856	" <i>Brevibacterium aureum</i> "	2790 ← K. Komagata KS 0243
<i>Brachybacterium squillarum</i>	21515 ← IAM 15053	2791 ← K. Komagata KS 0244
16464 <sup>T</sup> ← J.-W. Bae M-6-3	21516 ← IAM 15054	2792 ← K. Komagata KS 0245
<i>Brachybacterium tyrofermentans</i>	21517 ← IAM 15055	2793 ← K. Komagata KS 0246
11610 <sup>T</sup> ← CCM 4521	<i>Brevibacterium avium</i>	2794 ← K. Komagata KS 0247
<i>Brachybacterium zhongshanense</i>	11680 <sup>T</sup> ← CCUG 43455	13047 ← K. Komagata
15471 <sup>T</sup> ← CGMCC 1.6508	<i>Brevibacterium casei</i>	20562 ← IAM 12413
<i>Brachymonas denitrificans</i>	2594 <sup>T</sup> ← NCDO 2048	20563 ← IAM 12414
9216 <sup>T</sup> ← A. Hiraishi AS-P1	2595 ← NCDO 2049	20564 ← IAM 12415
9217 ← A. Hiraishi AS152	2596 ← NCDO 2050	20565 ← IAM 12416
9218 ← A. Hiraishi AS163	2597 ← NCDO 2051	20567 ← IAM 12418
<i>Bradyrhizobium elkanii</i>	<i>Brevibacterium celere</i>	20636 ← IAM 12557
10832 ← K. Minamisawa	13521 <sup>T</sup> ← DSM 15453	<i>Brevundimonas lenta</i>
<i>Bradyrhizobium japonicum</i>	<i>Brevibacterium epidermidis</i>	14602 <sup>T</sup> ← J.-H. Yoon DS-18
10344 ← K. Minamisawa NC32a	2592 ← NCDO 2285	<i>Brevundimonas nasdae</i>
10345 ← K. Minamisawa NK5	2593 <sup>T</sup> ← NCDO 2286	11415 <sup>T</sup> ← T. Ezaki W1-2B
10346 ← K. Minamisawa NK6	<i>Brevibacterium frigoritolerans</i>	" <i>Brevundimonas olei</i> "
10347 ← K. Minamisawa T2	11681 <sup>T</sup> ← CCUG 43489	16237 <sup>T</sup> ← M. J. Lee MJ15
10348 ← K. Minamisawa NC4a	" <i>Brevibacterium fuscum</i> "	<i>Brevundimonas terrae</i>
10349 ← K. Minamisawa NK2	1486 ← K. Suzuki CNF 194	13476 <sup>T</sup> ← J.-H. Yoon KSL-145
10350 ← K. Minamisawa T7	1488 ← K. Suzuki CNF 196	<i>Brevundimonas vesicularis</i>
10833 ← K. Minamisawa	<i>Brevibacterium halotolerans</i>	1477 <sup>T</sup> ← Y. Kosako 85012
10834 ← K. Minamisawa	12400 <sup>T</sup> ← CIP 67.21	<i>Brochothrix thermosphacta</i>
20362 ← IAM 12034	<i>Brevibacterium iodinum</i>	20628 <sup>T</sup> ← IAM 12548
20679 <sup>T</sup> ← IAM 12608	2591 <sup>T</sup> ← NCDO 613	<i>Brooklawnia cerclae</i>
<i>Bradyrhizobium</i> sp.	<i>Brevibacterium linens</i>	14918 <sup>T</sup> ← LMG 23248
20681 ← IAM 12610	1327 <sup>T</sup> ← ATCC 9172	<i>Budvicia aquatica</i>
20936 ← IAM 13589	1328 ← K. Suzuki CNF 018	3902 ← Y. Kosako 85537
<i>Brevibacillus agri</i>	6200 ← DSM 20158	3903 ← Y. Kosako 85539
8507 ← O. Shida	<i>Brevibacterium luteolum</i>	<i>Burkholderia andropogonis</i>
9067 <sup>T</sup> ← NRRL NRS-1219	12367 <sup>T</sup> ← CCUG 46604	10487 <sup>T</sup> ← LMG 2129
<i>Brevibacillus borstelensis</i>	<i>Brevibacterium marinum</i>	<i>Burkholderia caledonica</i>
9022 <sup>T</sup> ← O. Shida	15618 <sup>T</sup> ← KCTC 19221	21561 <sup>T</sup> ← IAM 15100
<i>Brevibacillus brevis</i>	<i>Brevibacterium mcbrellneri</i>	<i>Burkholderia caryophylli</i>
2503 <sup>T</sup> ← DSM 30	11682 <sup>T</sup> ← CCUG 37313	9310 <sup>T</sup> ← ATCC 25418
6285 ← S. Ueda 47	<i>Brevibacterium oceanii</i>	10488 <sup>T</sup> ← LMG 2155
8970 ← S. Ueda 47-5Q	21798 <sup>T</sup> ← IAM 15353	<i>Burkholderia cepacia</i>
10041 ← HSCC 003	<i>Brevibacterium otitidis</i>	2799 ← K. Komagata KS 0052
10042 ← HSCC 007	11683 <sup>T</sup> ← CCUG 37257	2800 ← K. Komagata KS 0233
10548 ← S. Ueda 47-5Q/pNU212		

2801	←K. Komagata KS 0234	11957 <sup>T</sup> ←M. Miroshnichenko strain CR	<i>Carnobacterium viridans</i>
5506	←T. Taniguchi 526	2529 <sup>T</sup> ←NCTC 11366	<i>Castellaniella daejeonensis</i>
5507	←T. Taniguchi 527	<i>Campylobacter fetus</i> subsp. <i>fetus</i>	16240 <sup>T</sup> ←M. J. Lee MJ06
5508	←T. Taniguchi 528	2527 <sup>T</sup> ←NCTC 10842	<i>Castellaniella ginsengisoli</i>
5964 <sup>T</sup>	←Y. Kosako 85005	<i>Campylobacter fetus</i> subsp. <i>venerealis</i>	15515 <sup>T</sup> ←D.-C. Yang DCY36
		2528 <sup>T</sup> ←NCTC 10354	" <i>Catabacter hongkongensis</i> "
		<i>Campylobacter gracilis</i>	17853 <sup>T</sup> ←S. K. P. Lau HKU16
		8538 <sup>T</sup> ←ATCC 33236	<i>Catellatospora bangladeshensis</i>
		10957 ←C. Kaneuchi	12949 <sup>T</sup> ←I. Ara 2-70(23)
		10958 ←C. Kaneuchi	<i>Catellatospora chokoriensis</i>
		10959 ←C. Kaneuchi	12950 <sup>T</sup> ←I. Ara 2-25(1)
		<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	<i>Catellatospora citrea</i>
		2013 ←ATCC 29428	7542 <sup>T</sup> ←IFO 14495
		<i>Campylobacter lari</i>	<i>Catellatospora coxensis</i>
		14870 <sup>T</sup> ←CIP 102722	12951 <sup>T</sup> ←I. Ara 2-29(17)
		<i>Campylobacter rectus</i>	<i>Catellatospora methionotrophica</i>
		6301 <sup>T</sup> ←T. Mitsuoka	7543 <sup>T</sup> ←IFO 14553
		6302 ←T. Mitsuoka	<i>Catellibacterium changlense</i>
		<i>Campylobacter showae</i>	14338 <sup>T</sup> ←Ch. Sasikala JA139
		12989 <sup>T</sup> ←CCUG 30254	<i>Catellibacterium nectariphilum</i>
		<i>Capnocytophaga gingivalis</i>	11959 <sup>T</sup> ←Y. Tanaka AST4
		12953 <sup>T</sup> ←DSM 3290	<i>Catelliglobosporia koreensis</i>
		<i>Capnocytophaga granulosa</i>	10976 <sup>T</sup> ←S.-O. Kang LM 042
		8564 ←T. Yamamoto B0708	<i>Catenibacterium mitsuokai</i>
		8566 <sup>T</sup> ←T. Yamamoto B0611	10606 ←Y. Benno RCA14-19
		8569 ←T. Yamamoto B0915	10607 ←Y. Benno RCA14-21
		<i>Capnocytophaga haemolytica</i>	10608 ←Y. Benno RCA14-33
		8565 <sup>T</sup> ←T. Yamamoto A0404	10609 <sup>T</sup> ←Y. Benno RCA14-39
		8567 ←T. Yamamoto A1303	<i>Catenovulum agarivorans</i>
		8568 ←T. Yamamoto A1211	16580 <sup>T</sup> ←X.-H. Zhang YM01
		<i>Capnocytophaga ochracea</i>	<i>Catenulispora acidiphila</i>
		12966 <sup>T</sup> ←DSM 7271	14897 <sup>T</sup> ←NBRC 102108
		<i>Capnocytophaga sputigena</i>	<i>Catenulispora rubra</i>
		12967 <sup>T</sup> ←DSM 7273	16000 <sup>T</sup> ←DSM 44948
		<i>Carnobacterium alterfunditum</i>	<i>Catenulispora subtropica</i>
		12498 <sup>T</sup> ←NBRC 15548	16013 <sup>T</sup> ←KCTC 19328
		<i>Carnobacterium divergens</i>	<i>Catenulispora yoronensis</i>
		5816 <sup>T</sup> ←DSM 20623	16014 <sup>T</sup> ←KCTC 19327
		9132 ←B. G. Shaw ( <i>Lactobacillus divergens</i> MR374) LV54	<i>Catenuloplanes atrovinosus</i>
		9133 <sup>T</sup> ←B. G. Shaw ( <i>Lactobacillus divergens</i> MR358) 66	9535 <sup>T</sup> ←IFO 15579
		9134 ←B. G. Shaw ( <i>Lactobacillus divergens</i> MR375) LV60	<i>Catenuloplanes castaneus</i>
		<i>Carnobacterium funditum</i>	9537 <sup>T</sup> ←IFO 15584
		12499 <sup>T</sup> ←NBRC 15549	<i>Catenuloplanes crispus</i>
		<i>Carnobacterium gallinarum</i>	9312 <sup>T</sup> ←B. Petrolini IPV 2867
		12517 <sup>T</sup> ←CIP 103160	<i>Catenuloplanes indicus</i>
		<i>Carnobacterium inhibens</i>	9534 <sup>T</sup> ←IFO 15575
		16168 <sup>T</sup> ←CIP 106863	<i>Catenuloplanes japonicus</i>
		<i>Carnobacterium jeotgali</i>	9106 <sup>T</sup> ←IFO 14176
		15539 <sup>T</sup> ←M.-S. Kim MS3	<i>Catenuloplanes nepalensis</i>
		<i>Carnobacterium maltaromaticum</i>	9536 <sup>T</sup> ←IFO 15583
		1154 <sup>T</sup> ←ATCC 27865	<i>Catenuloplanes niger</i>
		1188 ←T. Mitsuoka S8-16	9533 <sup>T</sup> ←IFO 14177
		5348 ←J. L. Fryer B 270	<i>Caulobacter segnis</i>
		5349 ←J. L. Fryer OS 3-68	7823 <sup>T</sup> ←T. Urakami TK0059
		9135 ←B. G. Shaw ( <i>Lactobacillus carnis</i> MR357) LV61	<i>Cedecea daviseae</i>
		9136 ←B. G. Shaw ( <i>Lactobacillus carnis</i> 399) N3	1685 <sup>T</sup> ←Y. Kosako 82080
		<i>Carnobacterium mobile</i>	<i>Cedecea lapagei</i>
		12516 <sup>T</sup> ←CIP 103159	1684 <sup>T</sup> ←Y. Kosako 82079
		<i>Carnobacterium pleistocenium</i>	<i>Cedecea neteri</i>
		12174 <sup>T</sup> ←E. V. Pikuta FTR1	5909 ←Y. Kosako 84019
			7582 <sup>T</sup> ←R. Sakazaki 281
			<i>Cellulomonas aerilata</i>
			16376 <sup>T</sup> ←KACC 20692
			<i>Cellulomonas biazotea</i>
			1340 <sup>T</sup> ←K. Suzuki CNF 024

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<i>Cellulomonas cellasea</i>	12615 ←DSM 14605	1659 ←R. Sakazaki
9967 <sup>T</sup> ←DSM 20118		1660 ←Y. Kosako 82054
<i>Cellulomonas chitinilytica</i>	12616 ←DSM 14714	<i>Clavibacter michiganensis</i> subsp.
16927 <sup>T</sup> ←W.-T. Im X.bu-b		<i>insidiosus</i>
<i>Cellulomonas compsti</i>	12617 ←DSM 14631	1369 ←K. Suzuki CNF 101
14898 <sup>T</sup> ←NBRC 100758		9664 <sup>T</sup> ←ICMP 2621
<i>Cellulomonas denverensis</i>	<i>Chondromyces apiculatus</i>	<i>Clavibacter michiganensis</i> subsp.
14733 <sup>T</sup> ←CIP 108914	12618 ←DSM 14607	<i>michiganensis</i>
<i>Cellulomonas fimi</i>	<i>Chondromyces robustus</i>	1370 ←K. Suzuki CNF 039
1341 <sup>T</sup> ←K. Suzuki CNF 025	12619 <sup>T</sup> ←DSM 14608	1371 ←K. Suzuki CNF 097
1491 ←K. Suzuki CNF 199	<i>Chromobacterium haemolyticum</i>	1372 ←K. Suzuki CNF 098
<i>Cellulomonas gelida</i>	14163 <sup>T</sup> ←X. Y. Han mDA0585	1373 ←K. Suzuki CNF 099
1490 <sup>T</sup> ←K. Suzuki CNF 198	<i>Chromobacterium violaceum</i>	9665 <sup>T</sup> ←ICMP 2550
<i>Cellulomonas hominis</i>	1249 <sup>T</sup> ←R. Sakazaki	<i>Clavibacter michiganensis</i> subsp.
12133 <sup>T</sup> ←CCM 4572	<i>Chromohalobacter beijerinckii</i>	<i>nebraskensis</i>
<i>Cellulomonas humiliata</i>	13305 <sup>T</sup> ←CIP 106957	9666 <sup>T</sup> ←ICMP 3298
11945 <sup>T</sup> ←CIP 104614	21422 <sup>T</sup> ←IAM 14940	<i>Clavibacter michiganensis</i> subsp.
<i>Cellulomonas sp.</i>	<i>Chromohalobacter marismortui</i>	<i>sepedonicus</i>
2471 ←H. Nishise NT-3060	21220 <sup>T</sup> ←IAM 14437	1483 ←K. Suzuki CNF 191
9808 ←T. Kudo HA101	<i>Chromohalobacter salexigens</i>	9667 <sup>T</sup> ←ICMP 2535
<i>Cellulomonas terrae</i>	15323 ←S. Tanasupawat R5-7	<i>Clavibacter michiganensis</i> subsp.
14899 <sup>T</sup> ←NBRC 100819	<i>Chryseobacterium antarcticum</i>	<i>tessellarius</i>
<i>Cellulomonas uda</i>	12381 <sup>T</sup> ←J. Chun AT1013	9668 <sup>T</sup> ←ICMP 7221
1492 <sup>T</sup> ←K. Suzuki CNF 200	<i>Chryseobacterium aquifrigidense</i>	<i>Cloacibacillus evyrensis</i>
<i>Cellulomonas xylinlytica</i>	14756 <sup>T</sup> ←C. N. Seong CW9	14828 <sup>T</sup> ←A. Sghir 158
14281 <sup>T</sup> ←CECT 5729	<i>Chryseobacterium balustinum</i>	<i>Clostridiisalibacter paucivorans</i>
<i>Cellulophaga fucicola</i>	21074 <sup>T</sup> ←IAM 14209	14354 <sup>T</sup> ←P.-P. Liebgott 37HS60
21778 <sup>T</sup> ←IAM 15330	<i>Chryseobacterium daeguense</i>	<i>Clostridium acetobutylicum</i>
<i>Cellulophaga lytica</i>	14362 <sup>T</sup> ←J.-H. Yoon K105	1419 <sup>T</sup> ←IAM 19013
8516 <sup>T</sup> ←NCIMB 1423	<i>Chryseobacterium ginsenosidimutans</i>	7829 ←IAM 19012
<i>Cellulophaga pacifica</i>	16719 <sup>T</sup> ←W.-T. Im THG 15	7960 ←IAM 19017
11735 <sup>T</sup> ←M. Suzuki R3664	<i>Chryseobacterium gleum</i>	7961 ←IAM 19018
<i>Cellulosilyticum ruminicola</i>	2409 ←B. Holmes 3531	7962 ←IAM 19019
14822 <sup>T</sup> ←X. Dong H1	2410 <sup>T</sup> ←B. Holmes F93	7963 ←IAM 19020
<i>Cellulosimicrobium cellulans</i>	2411 ←B. Holmes F129	7964 ←IAM 19021
1972 ←ATCC 15921	<i>Chryseobacterium hispanicum</i>	7965 ←IAM 19022
3164 ←KCC A-0164	13554 <sup>T</sup> ←A. Ventosa VP48	7966 ←IAM 19023
6201 ←DSM 20106	<i>Chryseobacterium jeonii</i>	7967 ←IAM 19024
9965 <sup>T</sup> ←DSM 43879	12382 <sup>T</sup> ←J. Chun AT1047	7969 ←IAM 19026
20471 ←IAM 12312	<i>Chryseobacterium koreense</i>	7970 ←IAM 19028
<i>Cellulosimicrobium funkei</i>	21512 <sup>T</sup> ←IAM 15050	7971 ←IAM 19029
14302 <sup>T</sup> ←DSM 16025	21513 ←IAM 15051	7973 ←IAM 19031
<i>Cellulosimicrobium terreum</i>	21514 ←IAM 15052	7975 ←IAM 19033
15619 <sup>T</sup> ←KCTC 19206	<i>Chryseobacterium piperi</i>	7977 ←IAM 19036
<i>Cerasibacillus quisquiliarum</i>	15960 <sup>T</sup> ←J. D. Newman strain CTM	7978 ←IAM 19037
21507 <sup>T</sup> ←IAM 15044	<i>Chryseobacterium sp.</i>	7979 ←IAM 19038
<i>Chelatococcus sambhunathii</i>	10535 ←M. Ohkuma f	7980 ←IAM 19039
14988 <sup>T</sup> ←S. K. Das HT4	<i>Chryseobacterium taiwanense</i>	7982 ←IAM 19041
<i>Chitinophaga arvensicola</i>	21767 <sup>T</sup> ←IAM 15317	7983 ←IAM 19043
2836 <sup>T</sup> ←H. Oyaizu M64	<i>Chryseoglobus frigidaeae</i>	7984 ←IAM 19044
2837 ←H. Oyaizu A4L	14730 <sup>T</sup> ←C. N. Seong CW1	7985 ←IAM 19045
2838 ←H. Oyaizu A4S	<i>Citreimonas salinaria</i>	7987 ←IAM 19047
2839 ←H. Oyaizu A21L	13036 <sup>T</sup> ←D. H. Choi CL-SP20	7988 ←IAM 19048
2869 ←H. Oyaizu A21S	<i>Citricoccus alkalitolerans</i>	7989 ←IAM 19049
2870 ←H. Oyaizu G8	13012 <sup>T</sup> ←KCTC 19012	7991 ←IAM 19051
2871 ←H. Oyaizu 469	<i>Citricoccus muralis</i>	7992 ←IAM 19053
2872 ←H. Oyaizu 474	12134 <sup>T</sup> ←CCM 4981	7993 ←IAM 19055
<i>Chitinophaga filiformis</i>	<i>Citricoccus zhacaiensis</i>	7994 ←IAM 19056
21160 <sup>T</sup> ←IAM 14320	15136 <sup>T</sup> ←X.-W. Xu FS24	7995 ←IAM 19058
<i>Chitinophaga japonensis</i>	<i>Citrobacter amalonaticus</i>	7996 ←IAM 19059
9735 <sup>T</sup> ←T. Fujita 758	1661 <sup>T</sup> ←Y. Kosako 82056	7998 ←IAM 19061
<i>Chitinophaga niabensis</i>	<i>Citrobacter freundii</i>	7999 ←IAM 19062
15440 <sup>T</sup> ←S.-W. Kwon JS13-10	1657 <sup>T</sup> ←R. Sakazaki 96	8000 ←IAM 19063
<i>Chitinophaga niastensis</i>	24004 ←R. Sakazaki 5	8001 ←IAM 19065
15441 <sup>T</sup> ←S.-W. Kwon JS16-4	24058 ←R. Sakazaki 97	8002 ←IAM 19066
<i>Chondromyces apiculatus</i>	<i>Citrobacter koseri</i>	8003 ←IAM 19069
	1658 <sup>T</sup> ←R. Sakazaki	

8004	←IAM 19071	" <i>Clostridium butyricum</i> subsp. <i>saccharobutyricum</i> "	10540 ←F. Takamine TN272
8005	←IAM 19073	7841 ←IAM 19005	<i>Clostridium indolis</i>
8006	←IAM 19074	<i>Clostridium cadaveris</i>	1380 <sup>T</sup> ←ATCC 25771
8007	←IAM 19075	1392 <sup>T</sup> ←ATCC 25783	<i>Clostridium innocuum</i>
8008	←IAM 19078	" <i>Clostridium caproicum</i> "	1292 <sup>T</sup> ←ATCC 14501
8009	←IAM 19080	7842 ←IAM 19228	<i>Clostridium intestinale</i>
8010	←IAM 19081	<i>Clostridium carnis</i>	7506 <sup>T</sup> ←W.-K. Lee strain Catt 39
8011	←IAM 19083	1393 <sup>T</sup> ←ATCC 25777	<i>Clostridium irregularis</i>
8012	←IAM 19084	<i>Clostridium celatum</i>	1425 <sup>T</sup> ←ATCC 25756
8013	←IAM 19085	1394 <sup>T</sup> ←ATCC 27791	" <i>Clostridium isopropylicum</i> "
8014	←IAM 19087	<i>Clostridium cellobioparum</i>	7846 ←IAM 19239
8015	←IAM 19088	1422 <sup>T</sup> ←ATCC 15832	<i>Clostridium lavalense</i>
8016	←IAM 19089	<i>Clostridium clostridioforme</i>	14986 <sup>T</sup> ←CCUG 54291
8017	←IAM 19090	1291 <sup>T</sup> ←C. Kaneuchi	<i>Clostridium limosum</i>
8019	←IAM 19100	1384 ←ATCC 17794	<i>Clostridium lituseburens</i>
8020	←IAM 19103	1396 <sup>T</sup> ←ATCC 17787	1404 <sup>T</sup> ←ATCC 25759
8021	←IAM 19104	<i>Clostridium cochlearium</i>	<i>Clostridium malenominatum</i>
<i>Clostridium aestuarii</i>	13194 <sup>T</sup> ←J. Chun HY-45-18	1397 <sup>T</sup> ←C. Kaneuchi I 50	1405 <sup>T</sup> ←ATCC 25776
<i>Clostridium aminovalericum</i>	1421 <sup>T</sup> ←ATCC 13725	<i>Clostridium colinum</i>	<i>Clostridium mangenotii</i>
	11016 <sup>T</sup> ←CIP 104304	5831 <sup>T</sup> ←ATCC 27770	1428 <sup>T</sup> ←ATCC 25761
<i>Clostridium amyloyticum</i>	14823 <sup>T</sup> ←X. Dong SW408	<i>Clostridium difficile</i>	<i>Clostridium nitrophenolicum</i>
<i>Clostridium arbusti</i>	14858 <sup>T</sup> ←Y.-H. Chang SL206	1296 <sup>T</sup> ←ATCC 9689	14030 <sup>T</sup> ←R. K. Jain 1D
<i>Clostridium baratii</i>	1382 ←ATCC 27639	5243 ←M. Seki	<i>Clostridium novyi</i>
	1385 <sup>T</sup> ←ATCC 27638	5244 ←M. Seki	1406 <sup>T</sup> ←ATCC 17861
	1409 ←ATCC 25782	5245 ←M. Seki	<i>Clostridium oceanicum</i>
<i>Clostridium beijerinckii</i>	1390 <sup>T</sup> ←ATCC 25752	5246 ←M. Seki	1407 <sup>T</sup> ←ATCC 25647
	6287 ←ATCC 14949	5247 ←M. Seki	<i>Clostridium oroticum</i>
	7828 ←IAM 19011	5248 ←M. Seki	1429 <sup>T</sup> ←ATCC 13619
	7831 ←IAM 19003	5249 ←M. Seki	<i>Clostridium paraputreficum</i>
	7833 ←IAM 19015	5250 ←M. Seki	1293 <sup>T</sup> ←ATCC 25780
	7839 ←IAM 19092	5251 ←M. Seki	5236 ←M. Seki
	7844 ←IAM 19101	5252 ←M. Seki	5237 ←M. Seki
	7845 ←IAM 19102	5253 ←M. Seki	<i>Clostridium pascui</i>
	7847 ←IAM 19232	5254 ←M. Seki	11012 <sup>T</sup> ←CIP 105172
	7986 ←IAM 19046	5256 ←M. Seki	<i>Clostridium pasteurianum</i>
	8023 ←IAM 19002	5257 ←M. Seki	1408 <sup>T</sup> ←ATCC 6013
	8024 ←IAM 19006	5258 ←M. Seki	" <i>Clostridium pectinovorum</i> "
	8025 ←IAM 19007	<i>Clostridium fallax</i>	7848 ←IAM 19233
	8026 ←IAM 19008	1398 <sup>T</sup> ←ATCC 19400	<i>Clostridium perfringens</i>
	8027 ←IAM 19093	11015 ←CIP 60.55	1290 <sup>T</sup> ←ATCC 13124
	8028 ←IAM 19105	<i>Clostridium felsineum</i>	3816 ←ATCC 3624
	8030 ←IAM 19091	1399 <sup>T</sup> ←ATCC 17788	3817 ←ATCC 3626
	8031 ←IAM 19106	" <i>Clostridium flavum</i> "	3818 ←ATCC 3628
	8032 ←IAM 19094	7843 ←IAM 19229	3819 ←ATCC 3629
	8033 ←IAM 19095	<i>Clostridium ganghwense</i>	5242 ←M. Seki
	8034 ←IAM 19098	13193 <sup>T</sup> ←J. Chun HY-42-06	<i>Clostridium propionicum</i>
<i>Clostridium bifermentans</i>	<i>Clostridium ghoni</i>	1430 <sup>T</sup> ←ATCC 25522	
	1386 <sup>T</sup> ←ATCC 638	1400 <sup>T</sup> ←ATCC 25757	<i>Clostridium putrefaciens</i>
	7832 ←IAM 19224	<i>Clostridium glycolicum</i>	1431 <sup>T</sup> ←ATCC 25786
<i>Clostridium bolteae</i>	<i>Clostridium glycyrhizinilyticum</i>	1298 <sup>T</sup> ←ATCC 25582	
	12243 <sup>T</sup> ←CCUG 46953	13368 <sup>T</sup> ←K. Sakuma ZM35	5235 ←M. Seki
<i>Clostridium butyricum</i>	<i>Clostridium haemolyticum</i>	13369 ←K. Sakuma ZM38	<i>Clostridium rectum</i>
	1391 <sup>T</sup> ←ATCC 19398	1402 <sup>T</sup> ←ATCC 9650	1412 <sup>T</sup> ←ATCC 25751
	7834 ←IAM 19001	<i>Clostridium hiranonis</i>	<i>Clostridium sardiniense</i>
	7835 ←IAM 19004	10541 <sup>T</sup> ←F. Takamine TO931	1381 ←ATCC 27555
	7836 ←IAM 19016	10542 ←F. Takamine HD17	<i>Clostridium sartagoforme</i>
	7837 ←IAM 19225	<i>Clostridium histolyticum</i>	1413 <sup>T</sup> ←ATCC 25778
	7838 ←IAM 19240	1403 <sup>T</sup> ←ATCC 19401	<i>Clostridium scatologenes</i>
" <i>Clostridium butyricum</i> subsp. <i>convexa</i> "		11013 ←CIP 60.34	1414 <sup>T</sup> ←ATCC 25775
	7840 ←IAM 19108	11014 ←CIP 60.16	<i>Clostridium schirmacherense</i>
		<i>Clostridium hylemonae</i>	13289 <sup>T</sup> ←L. Singh AP15
		10539 <sup>T</sup> ←F. Takamine TN271	<i>Clostridium scindens</i>
			6567 <sup>T</sup> ←G. N. Morris
			10418 ←F. Takamine

10419	←F. Takamine Y-1113	7851	←IAM 19236
10420	←F. Takamine M-18	<i>Cobetia crustatorum</i>	15644 <sup>T</sup> ←J.-W. Bae JO1
10421	←F. Takamine I-10	<i>Cobetia marina</i>	12325 ←I. Yumoto L-2
10422	←F. Takamine TH-82		20776 ←IAM 12928
10423	←F. Takamine 36S		21022 <sup>T</sup> ←IAM 14107
<i>Clostridium septicum</i>			21023 ←IAM 14108
7285	←Y. Benno		21027 ←IAM 14114
7286	←Y. Benno	<i>Cocleimonas flava</i>	
7287	←Y. Benno		16494 <sup>T</sup> ←N. Tanaka
7288	←Y. Benno	" <i>Cohnella ferri</i> "	16139 <sup>T</sup> ←S. Mayilraj HIO-4
7290	←Y. Benno	<i>Collinsella aerofaciens</i>	7790 ←ATCC 35085
7291	←Y. Benno		7791 ←ATCC 29738
7293	←Y. Benno		10188 <sup>T</sup> ←T. Mitsuoka V-61
7294	←Y. Benno		10772 ←Y. Benno RCA55-47
8144 <sup>T</sup>	←NCTC 547		10773 ←Y. Benno A2-231
8145	←NCTC 504		10774 ←Y. Benno A7-5
8146	←NCTC 281		10777 ←Y. Benno A7-32
8147	←NCTC 282		10778 ←Y. Benno A11-185
8148	←NCTC 284		10779 ←Y. Benno A11-261
8149	←NCTC 501		10780 ←Y. Benno A11-239
8150	←NCTC 551		10781 ←Y. Benno RCA55-19
8151	←NCTC 286		10782 ←Y. Benno RCA56-61
<i>Clostridium sordellii</i>			10783 ←Y. Benno A2-70
3814 <sup>T</sup>	←ATCC 9714		10784 ←Y. Benno A7-53
11011	←CIP 103710		10785 ←Y. Benno A11-195
<i>Clostridium</i> sp.			10786 ←Y. Benno RCA55-86
8022	←IAM 19107		10787 ←Y. Benno A2-44
<i>Clostridium sphenoides</i>			10788 ←Y. Benno RCA2-45
1415 <sup>T</sup>	←ATCC 19403		10789 ←Y. Benno RCA55-16
<i>Clostridium spiroforme</i>			10790 ←Y. Benno RCA55-67
1432 <sup>T</sup>	←C. Kaneuchi		10791 ←Y. Benno RCA57-89
<i>Clostridium sporogenes</i>			10792 ←Y. Benno A1-25
1410	←ATCC 25784		10793 ←Y. Benno A2-227
1416 <sup>T</sup>	←ATCC 3584		10794 ←Y. Benno A3-264
7849	←IAM 19234		10795 ←Y. Benno A11-269
7850	←IAM 19235		10796 ←Y. Benno RCA55-23
11010	←CIP 100651		10797 ←Y. Benno A3-84
<i>Clostridium stercorarium</i> subsp. <i>leptospartum</i>			10798 ←Y. Benno A3-242
9762 <sup>T</sup>	←IAM 13499		10799 ←Y. Benno A3-51
<i>Clostridium stercorarium</i> subsp. <i>thermolacticum</i>			10800 ←Y. Benno A7-2
9324	←E. Uematsu		10801 ←Y. Benno RCA55-36
<i>Clostridium sticklandii</i>			10802 ←Y. Benno RCA55-94
1433 <sup>T</sup>	←ATCC 12662		10803 ←Y. Benno RCA55-2
<i>Clostridium straminisolvens</i>			10804 ←Y. Benno A3-53
21531 <sup>T</sup>	←IAM 15070		10805 ←Y. Benno A7-1
<i>Clostridium subterminale</i>			10806 ←Y. Benno A11-226
1417 <sup>T</sup>	←ATCC 25774		10807 ←Y. Benno RCA1-29
<i>Clostridium sufflavum</i>			10808 ←Y. Benno RCA1-28
14807 <sup>T</sup>	←A. Ueki CDT-1	<i>Collinsella intestinalis</i>	10643 <sup>T</sup> ←Y. Benno RCA56-68
<i>Clostridium symbiosum</i>		<i>Collinsella stercoris</i>	10641 <sup>T</sup> ←Y. Benno RCA55-54
1297 <sup>T</sup>	←C. Kaneuchi		10642 ←Y. Benno RCA55-56
<i>Clostridium tertium</i>			10709 ←Y. Benno RCA 55-27
6289 <sup>T</sup>	←T. Mitsuoka		10710 ←Y. Benno RCA 55-49
11057	←CIP 102392		10711 ←Y. Benno RCA 55-58
" <i>Clostridium thermoamylolyticum</i> "		<i>Collinsella tanakaei</i>	16071 <sup>T</sup> ←Y. Watanabe A40 (=YIT 12063)
9321	←E. Uematsu		16103 ←Y. Watanabe B4 (=YIT 12064)
<i>Clostridium thermocellum</i>		<i>Colwellia asteriadis</i>	15608 <sup>T</sup> ←H. C. Kwon KMD 002
9322 <sup>T</sup>	←E. Uematsu		
9323	←E. Uematsu		
<i>Clostridium tyrobutyricum</i>			
11008 <sup>T</sup>	←CIP 105092		
<i>Clostridium ultunense</i>			
16670	←A. Schnürer strain Esp		
" <i>Clostridium valerianicum</i> "			

- 10262<sup>T</sup> ← DSM 20642  
*Corynebacterium accolens*  
 8331<sup>T</sup> ← CNCTC Th 1/57  
*Corynebacterium afermentans* subsp.  
*afermentans*  
 10390<sup>T</sup> ← CIP 103499  
*Corynebacterium afermentans* subsp.  
*lipophilum*  
 10391<sup>T</sup> ← CIP 103500  
*Corynebacterium ammoniagenes*  
 1305<sup>T</sup> ← ATCC 6871  
*Corynebacterium amycolatum*  
 7447<sup>T</sup> ← NCFB 2768  
*Corynebacterium appendicis*  
 11765<sup>T</sup> ← DSM 44531  
*Corynebacterium aquilae*  
 12268<sup>T</sup> ← CECT 5993  
*Corynebacterium argentoratense*  
 10392<sup>T</sup> ← CIP 104296  
*Corynebacterium atypicum*  
 12368<sup>T</sup> ← CCUG 45804  
*Corynebacterium aurimucosum*  
 11766<sup>T</sup> ← DSM 44532  
 12684 ← CIP 107346  
*Corynebacterium auris*  
 11946<sup>T</sup> ← CIP 104632  
*Corynebacterium auriscanis*  
 12369<sup>T</sup> ← CCUG 39938  
*Corynebacterium bovis*  
 11947<sup>T</sup> ← CIP 54.80  
*Corynebacterium callunae*  
 9489<sup>T</sup> ← ATCC 15991  
*Corynebacterium camporealensis*  
 11664<sup>T</sup> ← CECT 4897  
*Corynebacterium capitovis*  
 12101<sup>T</sup> ← CCUG 39779  
*Corynebacterium casei*  
 12072<sup>T</sup> ← NCIMB 30130  
*Corynebacterium caspium*  
 13387<sup>T</sup> ← CCUG 44566  
*Corynebacterium ciconiae*  
 13388<sup>T</sup> ← CCUG 47525  
*Corynebacterium confusum*  
 12102<sup>T</sup> ← CCUG 38267  
*Corynebacterium coyleae*  
 10381<sup>T</sup> ← CCUG 38194  
*Corynebacterium cystitidis*  
 3715<sup>T</sup> ← R. Yanagawa strain 42 Fukuya  
*Corynebacterium diphtheriae*  
 1310 ← K. Suzuki CNF 017  
*Corynebacterium doosanense*  
 17317<sup>T</sup> ← CCUG 57284  
*Corynebacterium durum*  
 11948<sup>T</sup> ← CIP 105490  
*Corynebacterium efficiens*  
 11187 ← R. Fudou YS-52  
 11188 ← R. Fudou YS-155  
 11189<sup>T</sup> ← R. Fudou YS-314  
*Corynebacterium falsenii*  
 11949<sup>T</sup> ← CIP 105466  
*Corynebacterium felinum*  
 12103<sup>T</sup> ← CCUG 39943  
*Corynebacterium flavescens*  
 1317<sup>T</sup> ← K. Suzuki CNF 011  
*Corynebacterium freneyi*  
 12104<sup>T</sup> ← CCUG 45704  
*Corynebacterium glaucum*  
 12208<sup>T</sup> ← DSM 44530  
*Corynebacterium glucuronolyticum*  
 10394 ← CIP 104297  
 11612<sup>T</sup> ← CCM 4567  
*Corynebacterium glutamicum*  
 1307 ← ATCC 14020  
 1308 ← K. Suzuki CNF 014  
 1318<sup>T</sup> ← ATCC 13032  
 1321 ← K. Suzuki CNF 015  
*Corynebacterium halotolerans*  
 12676<sup>T</sup> ← DSM 44683  
*Corynebacterium hansenii*  
 15293<sup>T</sup> ← CCUG 53252  
*Corynebacterium imitanus*  
 10386<sup>T</sup> ← CCUG 36877  
*Corynebacterium jeikeium*  
 9384<sup>T</sup> ← NCTC 11913  
*Corynebacterium kroppenstedtii*  
 11950<sup>T</sup> ← CIP 105744  
*Corynebacterium kutscheri*  
 9385<sup>T</sup> ← NCTC 11138  
*Corynebacterium lipophiloflavum*  
 10383<sup>T</sup> ← CCUG 37336  
*Corynebacterium lubricans*  
 16607<sup>T</sup> ← CCM 7546  
*Corynebacterium macginleyi*  
 11684<sup>T</sup> ← CCUG 32361  
*Corynebacterium marinum*  
 17491<sup>T</sup> ← CGMCC 1.6998  
*Corynebacterium maris*  
 17018<sup>T</sup> ← LMG 24561  
*Corynebacterium mastitidis*  
 12269<sup>T</sup> ← CECT 4843  
*Corynebacterium matruchotii*  
 9386<sup>T</sup> ← NCTC 10254  
*Corynebacterium minutissimum*  
 9387<sup>T</sup> ← NCTC 10288  
*Corynebacterium mucifaciens*  
 10384<sup>T</sup> ← CCUG 36878  
*Corynebacterium mustelae*  
 17318<sup>T</sup> ← CCUG 57279  
*Corynebacterium mycetoides*  
 9388<sup>T</sup> ← NCTC 9864  
*Corynebacterium nuruki*  
 17162<sup>T</sup> ← J.-W. Bae S6-4  
*Corynebacterium phocae*  
 12105<sup>T</sup> ← CCUG 38205  
*Corynebacterium pilbarensis*  
 17319<sup>T</sup> ← CCUG 57942  
*Corynebacterium pilosum*  
 3714<sup>T</sup> ← R. Yanagawa strain 46 Hara  
*Corynebacterium propinquum*  
 12106<sup>T</sup> ← CCUG 33048  
*Corynebacterium pseudodiphtheriticum*  
 1320 ← K. Suzuki CNF 128  
 11665<sup>T</sup> ← CECT 755  
*Corynebacterium pseudotuberculosis*  
 9389<sup>T</sup> ← NCTC 3450  
*Corynebacterium pyruviciproducens*  
 17320<sup>T</sup> ← CCUG 57046  
*Corynebacterium renale*  
 1322 ← K. Suzuki CNF 009  
 3713 ← R. Yanagawa  
 9391<sup>T</sup> ← NCTC 7448  
*Corynebacterium resistens*  
 12819<sup>T</sup> ← Y. Kawamura GTC 2026  
*Corynebacterium riegelii*  
 10389<sup>T</sup> ← CCUG 38180  
*Corynebacterium simulans*  
 12107<sup>T</sup> ← CCUG 43305  
*Corynebacterium singulare*  
 10385<sup>T</sup> ← CCUG 37330  
*Corynebacterium sp.*  
 1300 ← K. Suzuki CNF 092  
 7815 ← K. Komagata #4  
 7816 ← K. Komagata #7  
 7817 ← K. Komagata #8  
 7818 ← K. Komagata #10  
*Corynebacterium sphenisci*  
 12270<sup>T</sup> ← CECT 5990  
*Corynebacterium spheniscorum*  
 12271<sup>T</sup> ← CECT 5986  
*Corynebacterium stationis*  
 1306 ← ATCC 6872  
 11611<sup>T</sup> ← CCM 317  
*Corynebacterium striatum*  
 9390<sup>T</sup> ← NCTC 764  
*Corynebacterium suicordis*  
 12370<sup>T</sup> ← CCUG 46963  
*Corynebacterium sundsvallense*  
 12401<sup>T</sup> ← CIP 105936  
*Corynebacterium terpenotabidum*  
 10555<sup>T</sup> ← IFO 14764  
*Corynebacterium testudinoris*  
 12108<sup>T</sup> ← CCUG 41823  
*Corynebacterium thomssenii*  
 12109<sup>T</sup> ← CCUG 38516  
*Corynebacterium tuberculostearicum*  
 13389<sup>T</sup> ← CCUG 45418  
*Corynebacterium tuscaniense*  
 15294<sup>T</sup> ← CCUG 51321  
*Corynebacterium ulcerans*  
 10387<sup>T</sup> ← CCUG 2708  
*Corynebacterium urealyticum*  
 10395<sup>T</sup> ← CIP 103524  
*Corynebacterium ureicelerivorans*  
 15295<sup>T</sup> ← CCUG 53377  
*Corynebacterium variabile*  
 1377 ← K. Suzuki CNF 057  
 2154<sup>T</sup> ← IAM 12346  
 12073 ← NCIMB 30130  
*Corynebacterium vitaeruminis*  
 1323<sup>T</sup> ← K. Suzuki CNF 008  
*Corynebacterium xerosis*  
 1324 ← K. Suzuki CNF 010  
 1325 ← K. Suzuki CNF 093  
 1326 ← K. Suzuki CNF 094  
 1971<sup>T</sup> ← ATCC 373  
*Cosenzaea myxofaciens*  
 1670<sup>T</sup> ← Y. Kosako  
*Costertonina aggregata*  
 13411<sup>T</sup> ← H. K. Lee and K. K. Kwon  
 KOPRI 13342  
*Couchioplanes caeruleus* subsp. *azureus*  
 3246<sup>T</sup> ← KCC A-0246  
*Couchioplanes caeruleus* subsp.  
*caeruleus*  
 3195<sup>T</sup> ← KCC A-0195  
*Craurococcus roseus*  
 9933<sup>T</sup> ← Y. Nishimura NS130  
*Croceibacter atlanticus*

21780 <sup>T</sup> ← IAM 15332	1345 <sup>T</sup> ← K. Suzuki CNF 026	<i>Dactylosporangium luteum</i>
<i>Croceicoccus marinus</i>	1346 ← K. Suzuki CNF 061	17685 <sup>T</sup> ← KACC 20899
14846 <sup>T</sup> ← X.-W. Xu E4A9	<i>Curtobacterium flaccumfaciens</i>	<i>Dactylosporangium maewongense</i>
<i>Croceitalea dokdonensis</i>	1347 ← K. Suzuki CNF 029	15933 <sup>T</sup> ← S. Chiaraphongphon MW2-25
13826 <sup>T</sup> ← K. K. Kwon Dokdo 023	1349 ← K. Suzuki CNF 027	<i>Dactylosporangium matsuzakiiense</i>
<i>Croceitalea eckloniae</i>	1467 ← K. Suzuki CNF 207	3311 <sup>T</sup> ← KCC A-0311
13827 <sup>T</sup> ← K. K. Kwon Dokdo 025	9670 <sup>T</sup> ← ICMP 2584	<i>Dactylosporangium roseum</i>
<i>Cronobacter dublinensis</i> subsp.	<i>Curtobacterium ginsengisoli</i>	3364 <sup>T</sup> ← Meiji Seika Kaisha, Ltd.
<i>dublinensis</i>	14773 <sup>T</sup> ← D.-C. Yang DCY26	SF-2186
16467 <sup>T</sup> ← LMG 23823	<i>Curtobacterium herbarum</i>	<i>Dactylosporangium salmonicum</i>
<i>Cronobacter dublinensis</i> subsp. <i>lactaridi</i>	12140 <sup>T</sup> ← LMG 19917	3272 <sup>T</sup> ← KCC A-0272
16468 <sup>T</sup> ← LMG 23825	" <i>Curtobacterium insectiphilum</i> "	<i>Dactylosporangium thailandense</i>
<i>Cronobacter dublinensis</i> subsp.	1348 ← K. Suzuki CNF 059	3084 <sup>T</sup> ← KCC A-0084
<i>lausannensis</i>	<i>Curtobacterium luteum</i>	<i>Dactylosporangium tropicum</i>
16469 <sup>T</sup> ← LMG 23824	1480 <sup>T</sup> ← K. Suzuki CNF 188	15673 <sup>T</sup> ← C. Thawai KB2-4
<i>Cronobacter sakazakii</i>	<i>Curtobacterium pusillum</i>	<i>Dactylosporangium vinaceum</i>
1233 <sup>T</sup> ← Y. Kosako 216	1350 <sup>T</sup> ← K. Suzuki CNF 106	3307 <sup>T</sup> ← KCC A-0307
24133 ← R. Sakazaki 217	1351 ← K. Suzuki CNF 107	<i>Dasania marina</i>
24135 ← R. Sakazaki 219	3881 ← H. Ohya Z-96 (α-D-2)	13441 <sup>T</sup> ← H. K. Lee KOPRI 20902
24136 ← R. Sakazaki 220	<i>Curtobacterium</i> sp.	<i>Deferribacter abyssi</i>
<i>Crossiella cryophila</i>	1359 ← K. Suzuki CNF 162	11955 <sup>T</sup> ← M. Miroshnichenko strain JR
9111 <sup>T</sup> ← IFO 14475	1360 ← K. Suzuki CNF 163	<i>Deferribacter desulfuricans</i>
<i>Crossiella equi</i>	1361 ← K. Suzuki CNF 164	11476 <sup>T</sup> ← K. Takai SSM1
12685 <sup>T</sup> ← CIP 107800	1362 ← K. Suzuki CNF 165	<i>Deinococcus aerius</i>
<i>Cryobacterium mesophilum</i>	14688 ← K. Minamisawa B8	11750 <sup>T</sup> ← A. Yamagishi TR0125
16539 <sup>T</sup> ← DSM 19267	14689 ← K. Minamisawa B18	<i>Deinococcus aerolatus</i>
<i>Cryobacterium psychrophilum</i>	21362 ← IAM 14859	15442 <sup>T</sup> ← S.-W. Kwon 5516T-9
1463 <sup>T</sup> ← IAM 12024	<i>Curvibacter delicatus</i>	<i>Deinococcus aerophilus</i>
<i>Cryobacterium psychrotolerans</i>	15147 <sup>T</sup> ← LMG 4328	15443 <sup>T</sup> ← S.-W. Kwon 5516T-11
13925 <sup>T</sup> ← D. Zhang and P.-J. Zhou 0549	<i>Curvibacter fontanus</i>	<i>Deinococcus aetherius</i>
<i>Cryobacterium roopkundense</i>	21533 <sup>T</sup> ← IAM 15072	11751 <sup>T</sup> ← A. Yamagishi ST0316
15131 <sup>T</sup> ← S. Shivaji RuGI7	<i>Curvibacter gracilis</i>	<i>Deinococcus aquiradiocola</i>
<i>Cryptosporangium arvum</i>	21496 <sup>T</sup> ← IAM 15033	14371 <sup>T</sup> ← D. Asker et al. TDMA-uv53
10424 <sup>T</sup> ← IFO 15965	<i>Curvibacter lanceolatus</i>	<i>Deinococcus depolymerans</i>
<i>Cryptosporangium aurantiacum</i>	21429 <sup>T</sup> ← IAM 14947	14368 <sup>T</sup> ← D. Asker et al. TDMA-24
3241 <sup>T</sup> ← KCC A-0241	<i>Cyclobacterium lianum</i>	<i>Deinococcus gobiensis</i>
<i>Cryptosporangium japonicum</i>	14011 <sup>T</sup> ← S. Liu HY9	16679 <sup>T</sup> ← DSM 21396
10425 <sup>T</sup> ← IFO 15966	<i>Cystobacter armeniaca</i>	<i>Deinococcus grandis</i>
<i>Cryptosporangium minutisporangium</i>	12622 <sup>T</sup> ← DSM 14710	6269 <sup>T</sup> ← H. Oyaizu KS 0485
9458 <sup>T</sup> ← ATCC 49415	<i>Cystobacter badius</i>	6270 ← H. Oyaizu KS 0460
<i>Cupriavidus gillardii</i>	12623 <sup>T</sup> ← DSM 14723	6271 ← H. Oyaizu KS 0488
11283 <sup>T</sup> ← LMG 5886	<i>Cystobacter ferrugineus</i>	6272 ← H. Oyaizu KS 0492
<i>Cupriavidus metallidurans</i>	12624 ← DSM 14716	<i>Deinococcus misasensis</i>
21315 <sup>T</sup> ← IAM 14785	" <i>Cystobacter gracilis</i> "	14369 <sup>T</sup> ← D. Asker et al. TDMA-25
<i>Cupriavidus necator</i>	12625 <sup>T</sup> ← DSM 14753	<i>Deinococcus proteolyticus</i>
11282 ← LMG 1199	<i>Cystobacter miniatus</i>	6276 <sup>T</sup> ← IAM 12141
20521 ← IAM 12368	12626 <sup>T</sup> ← DSM 14712	<i>Deinococcus radiodurans</i>
20644 ← IAM 12567	<i>Cystobacter minus</i>	16871 <sup>T</sup> ← DSM 20539
20695 ← IAM 12628	12627 ← DSM 14751	<i>Deinococcus radiophilus</i>
20893 ← IAM 13533	<i>Cystobacter velatus</i>	21311 <sup>T</sup> ← IAM 14779
20894 ← IAM 13534	12628 <sup>T</sup> ← DSM 14718	<i>Deinococcus radiopugnans</i>
20908 ← IAM 13548	<i>Cystobacter violaceus</i>	16872 <sup>T</sup> ← DSM 12027
20909 ← IAM 13549	12629 <sup>T</sup> ← DSM 14727	<i>Deinococcus roseus</i>
<i>Cupriavidus oxalaticus</i>	<i>Cytophaga aurantiaca</i>	14370 <sup>T</sup> ← D. Asker et al. TDMA-uv51
11285 <sup>T</sup> ← LMG 2235	8511 <sup>T</sup> ← NCIMB 8628	<i>Deinococcus</i> sp.
<i>Cupriavidus pauculus</i>	<i>Cytophaga fermentans</i>	6273 ← IAM 12271
11286 <sup>T</sup> ← LMG 3244	21142 <sup>T</sup> ← IAM 14302	6274 ← IAM 12272
20669 ← IAM 12592	<i>Cytophaga hutchinsonii</i>	6275 ← IAM 12273
<i>Curtobacterium albidum</i>	20678 <sup>T</sup> ← IAM 12607	<i>Delftia acidovorans</i>
1344 <sup>T</sup> ← K. Suzuki CNF 028	<i>Dactylosporangium aurantiacum</i>	5833 <sup>T</sup> ← Y. Kosako 85014
<i>Curtobacterium ammoniigenes</i>	3083 <sup>T</sup> ← KCC A-0083	6203 <sup>T</sup> ← J. Tamaoka KS 0057
14609 <sup>T</sup> ← T. Aizawa and N. B. Ve B55	<i>Dactylosporangium darangshiense</i>	6207 ← J. Tamaoka KS 0054
14610 ← T. Aizawa and N. B. Ve CA73	17441 <sup>T</sup> ← S. D. Lee DLS-44	6208 ← J. Tamaoka KS 0059
14611 ← T. Aizawa and N. B. Ve SA69	<i>Dactylosporangium fulvum</i>	6211 ← J. Tamaoka KS 0062
14612 ← T. Aizawa and N. B. Ve SA72	5631 <sup>T</sup> ← Meiji Seika Kaisha, Ltd.	6212 ← J. Tamaoka KS 0063
<i>Curtobacterium citreum</i>	SF-2113	6213 ← J. Tamaoka KS 0064

- 6214 ←J. Tamaoka KS 0072  
 6215 ←J. Tamaoka KS 0073  
 6216 ←J. Tamaoka KS 0074  
 6217 ←J. Tamaoka KS 0075  
 6218 ←J. Tamaoka KS 0080  
 6219 ←J. Tamaoka KS 0081  
 6220 ←J. Tamaoka KS 0089  
 6232 ←J. Tamaoka KS 0706  
 10172 ←Y. Doi YM1609  
 10181 ←T. Fukui DS-17  
*Demequina aestuarii*  
 12123<sup>T</sup> ←J. Chun JC2054  
*Demequina lutea*  
 17019<sup>T</sup> ←LMG 24795  
*Demetria terragena*  
 11480<sup>T</sup> ←CIP 105501  
*Denitrisoma oestradiolicum*  
 12830<sup>T</sup> ←M. Fahrbach AcBE2-1  
*Dermabacter hominis*  
 7448<sup>T</sup> ←NCFB 2769  
*Dermacoccus abyssi*  
 14339<sup>T</sup> ←NCIMB 14084  
*Dermacoccus barathri*  
 14588<sup>T</sup> ←IFM 10799  
*Dermacoccus nishinomiyaensis*  
 11613<sup>T</sup> ←CCM 2140  
*Dermacoccus profundi*  
 14589<sup>T</sup> ←IFM 10800  
*Dermatophilus congolensis*  
 3081 ←KCC A-0081  
 8106<sup>T</sup> ←ATCC 14637  
*Derxia gummosa*  
 20996<sup>T</sup> ←IAM 13946  
 21461 ←IAM 14990  
*Desemzia incerta*  
 1969<sup>T</sup> ←ATCC 8363  
*Desulfatiferula olefinivorans*  
 14469<sup>T</sup> ←A. Hirschler-Réa LM2801  
*Desulfatirhabdium butyrativorans*  
 14470<sup>T</sup> ←M. Balk HB1  
*Desulfitibacter alkalitolerans*  
 12761<sup>T</sup> ←K. Ingvorsen sk.kt5  
*Desulfitobacterium aromaticivorans*  
 15765<sup>T</sup> ←R. U. Meckenstock strain UKTL  
*Desulfobacterium niaciini*  
 12294<sup>T</sup> ←DSM 2650  
*Desulfobacterium vacuolatum*  
 12295<sup>T</sup> ←DSM 3385  
*Desulfobulbus japonicus*  
 14043<sup>T</sup> ←A. Ueki Pro1  
 14044 ←A. Ueki Pro16  
*Desulfobulbus mediterraneus*  
 15784<sup>T</sup> ←DSM 13871  
*Desulfocurvus vexinensis*  
 14038<sup>T</sup> ←M.-L. Fardeau VN36  
*Desulfoglaeba alkanexedens*  
 13588<sup>T</sup> ←J. M. Suflita and I. A. Davidova strain ALDC  
*Desulfohalobium retbaense*  
 16813<sup>T</sup> ←DSM 5692  
*Desulfoluna butyraoxydans*  
 14721<sup>T</sup> ←A. Ueki MSL71  
*"Desulfomicrobium aestuarii"*  
 14714<sup>T</sup> ←R. Guyoneaud and M. Dias ADR21  
*Desulfomicrobium orale*  
 17150<sup>T</sup> ←DSM 12838  
*"Desulfomicrobium salsuginis"*  
 14713<sup>T</sup> ←R. Guyoneaud and M. Dias ADR21  
*Desulfonauticus autotrophicus*  
 13028<sup>T</sup> ←DSM 4206  
*Desulfopila aestuaria*  
 14042<sup>T</sup> ←A. Ueki MSL86  
*Desulfosarcina cetonica*  
 12296<sup>T</sup> ←DSM 7267  
*Desulfosarcina ovata*  
 12297<sup>T</sup> ←DSM 13228  
*"Desulfovorumusa polytropa"*  
 12564<sup>T</sup> ←H. Sass STP3  
*"Desulfovorusinus acidiphilus"*  
 16185<sup>T</sup> ←D. Alazard SJ4  
*Desulfosporosinus lacus*  
 12239<sup>T</sup> ←DSM 15449  
*Desulfothermus naphthae*  
 12298<sup>T</sup> ←DSM 13418  
*Desulfothermus okinawensis*  
 13304<sup>T</sup> ←T. Nunoura TFISO9  
*Desulfotomaculum alcoholorivorax*  
 14019<sup>T</sup> ←DSM 16058  
*Desulfotomaculum arcticum*  
 12923<sup>T</sup> ←V. Vandieken 15  
*Desulfotomaculum hydrothermal*  
 13992<sup>T</sup> ←M.-L. Fardeau Lam5  
*Desulfotomaculum thermosubterraneum*  
 13837<sup>T</sup> ←DSM 16057  
*Desulfotomaculum varum*  
 16158<sup>T</sup> ←C. Ogg and B. Patel RH04-3  
*"Desulfovibrio aerotolerans"*  
 12613<sup>T</sup> ←K. Ingvorsen DvO5  
*Desulfovibrio africanus* subsp.  
*uniflagellum*  
 15510<sup>T</sup> ←I. N. Castañeda-Carrión SR-1  
*Desulfovibrio alkalitolerans*  
 12612<sup>T</sup> ←K. Ingvorsen RT2  
*"Desulfovibrio brasiliensis"*  
 12178<sup>T</sup> ←R. Warthmann LVform1  
*Desulfovibrio butyratiphilus*  
 15519<sup>T</sup> ←A. Ueki strain BSY  
 15520 ←A. Ueki strain BST  
*Desulfovibrio ferrireducens*  
 12925<sup>T</sup> ←V. Vandieken 61  
*Desulfovibrio frigidus*  
 12924<sup>T</sup> ←V. Vandieken 18  
*Desulfovibrio idahoensis*  
 14124<sup>T</sup> ←DSM 15450  
*Desulfovibrio marinisediminis*  
 14577<sup>T</sup> ←S. Takii C/L2  
*Desulfovibrio marinus*  
 14040<sup>T</sup> ←M.-L. Fardeau E-2  
*Desulfovibrio mexicanus*  
 15822<sup>T</sup> ←DSM 13116  
*"Desulfovibrio oceanii" subsp. *galateae*"*  
 15971<sup>T</sup> ←K. Finster I.9.1  
*"Desulfovibrio oceanii" subsp. *oceanii*"*  
 15970<sup>T</sup> ←K. Finster I.8.1  
*Desulfovibrio paquesii*  
 14635<sup>T</sup> ←A. J. M. Stams SB1  
*Desulfovibrio piezophilus*  
 15486<sup>T</sup> ←M.-L. Fardeau C1TLV30  
*Desulfovibrio portus*  
 14722<sup>T</sup> ←A. Ueki MSL79  
*Desulfovibrio psychrotolerans*  
 14597<sup>T</sup> ←Ch. Sasikala JS1  
*Desulfovibrio senezii*  
 16814<sup>T</sup> ←DSM 8436  
*Desulfovibrio simplex*  
 16812<sup>T</sup> ←DSM 4141  
*Desulfovibrio tunisiensis*  
 15076<sup>T</sup> ←Z. Ben Ali Gam RB22  
*Desulfovibrio vietnamensis*  
 15785<sup>T</sup> ←DSM 10520  
*Desulfovibrio vulgaris*  
 14930 ←H. Akutsu  
*Desulfovibula thermocuniculi*  
 13928<sup>T</sup> ←DSM 16036  
*Desulfurispirillum alkaliphilum*  
 15827<sup>T</sup> ←D. Y. Sorokin SR1  
*Desulfurispora thermophila*  
 14018<sup>T</sup> ←DSM 16022  
*"Desulfurobacterium crinifex"*  
 12825<sup>T</sup> ←K. Alain NE1206  
*Desulfurobacterium pacificum*  
 12127<sup>T</sup> ←S. L'Haridon SL17  
*Desulfuromonas svalbardensis*  
 12927<sup>T</sup> ←V. Vandieken 112  
*Desulfuromusa ferrireducens*  
 12926<sup>T</sup> ←V. Vandieken 102  
*Dethiosulfatibacter aminovorans*  
 13356<sup>T</sup> ←S. Takii C/G2  
*Dethiosulfovibrio acidaminovorans*  
 15823<sup>T</sup> ←DSM 12590  
*Dethiosulfovibrio marinus*  
 15824<sup>T</sup> ←DSM 12537  
*Dethiosulfovibrio peptidovorans*  
 15826<sup>T</sup> ←DSM 11002  
*Dethiosulfovibrio russensis*  
 15825<sup>T</sup> ←DSM 12538  
*Devosia riboflavina*  
 21244<sup>T</sup> ←IAM 14524  
*Devosia subaequoris*  
 14206<sup>T</sup> ←S. D. Lee HST3-14  
*Devriesea agamarum*  
 16028<sup>T</sup> ←LMG 24257  
*Dialister invisus*  
 17566<sup>T</sup> ←CCUG 47026  
*Dialister micraerophilus*  
 17567<sup>T</sup> ←CCUG 48837  
*Dialister pneumosintes*  
 10004<sup>T</sup> ←STAFF 1130  
*Dialister propionicifaciens*  
 17568<sup>T</sup> ←CCUG 49291  
*Dialister succinatiphilus*  
 15077<sup>T</sup> ←M. Morotomi C6 (=YIT 11850)  
*Diaphorobacter nitroreducens*  
 11421<sup>T</sup> ←A. Hiraishi NA10B  
*Dietzia aerolata*  
 17966<sup>T</sup> ←CCM 7659  
*Dietzia alimentaria*  
 16360<sup>T</sup> ←J.-W. Bae 72  
*Dietzia cercidiphylli*  
 16002<sup>T</sup> ←DSM 45140  
*Dietzia cinnamea*  
 13663<sup>T</sup> ←IFM 10668  
*Dietzia kunjamensis*  
 13325<sup>T</sup> ←S. Mayilraj K30-10

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>Dietzia maris</i>	7170 ←JN1H 1113-65	10769 ←Y. Benno RCA1-1
6166 <sup>T</sup> ←VKM Ac-593	7171 ←JN1H 1004-65	10770 ←Y. Benno RCA2-10
6167 ←VKM Ac-959	7172 ←JN1H 1058-70	10771 ←Y. Benno RCA58-92
6168 ←VKM Ac-980	7173 ←JN1H 689-65	<i>Eggerthella sinensis</i>
6169 ←VKM Ac-983	7174 ←JN1H 1053-77	14551 <sup>T</sup> ←LMG 22123
<i>Dietzia natronolimnaea</i>	7175 ←JN1H 1001-68	<i>Eggerthia catenaformis</i>
11417 <sup>T</sup> ←W. D. Grant 15LN1	7176 ←JN1H 24-73	1121 <sup>T</sup> ←ATCC 25536
11418 ←W. D. Grant 14LN1	7177 ←JN1H 237-73	<i>Eikenella corrodens</i>
14672 ←N. Fujiwara NF047	7178 ←JN1H 489-72	10960 ←C. Kaneuchi
<i>Dietzia papillomatosis</i>	7179 ←JN1H 334-62	10961 ←C. Kaneuchi
15317 <sup>T</sup> ←IFM 10921	7180 ←JN1H 486-72	10962 ←C. Kaneuchi
<i>Dietzia psychralcaliphila</i>	7181 ←JN1H 1049-70	12952 <sup>T</sup> ←DSM 8340
10987 <sup>T</sup> ←I. Yumoto ILA-1	7182 ←JN1H 29-73	<i>Elizabethkingia meningoseptica</i>
<i>Dietzia schimae</i>	7183 ←JN1H 40-71	21065 <sup>T</sup> ←IAM 14198
16003 <sup>T</sup> ←DSM 45139	7184 ←JN1H 1059-70	<i>Elizabethkingia miricola</i>
<i>Dokdonella soli</i>	7185 ←JN1H 31-73	11413 <sup>T</sup> ←T. Ezaki W3-B1
15421 <sup>T</sup> ←S.-W. Kwon KIS28-6	7186 ←JN1H 395-68	<i>Elusimicrobium minutum</i>
<i>Donghicola eburneus</i>	7187 ←JN1H 4582-60	14958 <sup>T</sup> ←O. Geissinger Pei191
13604 <sup>T</sup> ←J.-H. Yoon SW-277	7188 ←JN1H 942-68	<i>Empedobacter brevis</i>
<i>Dongia mobilis</i>	7189 ←JN1H 223-71	21064 <sup>T</sup> ←IAM 14197
15798 <sup>T</sup> ←Z.-P. Liu LM22	7190 ←JN1H 465-72	<i>Endozooicomonas elysicola</i>
<i>Duganella zooglooides</i>	7191 ←JN1H 5091-63	21568 <sup>T</sup> ←IAM 15107
20729 <sup>T</sup> ←IAM 12670	7192 ←JN1H 223-60	<i>Enhygromyxa salina</i>
<i>Dyadobacter soli</i>	7193 ←JN1H 2010-67	11769 <sup>T</sup> ←T. Iizuka SHK-1
16232 <sup>T</sup> ←M. J. Lee MJ20	7194 ←JN1H 1001-65	11770 ←T. Iizuka SMK-1-1
<i>Dyella japonica</i>	7195 ←JN1H 1034-64	11771 ←T. Iizuka SMK-1-3
21528 ←IAM 15067	7196 ←JN1H 389-68	11772 ←T. Iizuka SMK-10
21529 ←IAM 15068	7197 ←JN1H 394-68	11773 ←T. Iizuka SKK-2
21530 <sup>T</sup> ←IAM 15069	7198 ←JN1H 5377-62	11774 ←T. Iizuka SMP-6
<i>Dyella marenensis</i>	7199 ←JN1H 4462-64	<i>Ensifer adhaerens</i>
14959 <sup>T</sup> ←S. D. Lee CS5-B2	7200 ←JN1H 1540-65	21105 <sup>T</sup> ←IAM 14251
<i>Dyella soli</i>	7201 ←JN1H 3979-60	<i>Ensifer fredii</i>
15423 <sup>T</sup> ←S.-W. Kwon JS12-10	7202 ←JN1H 434-62	20967 <sup>T</sup> ←IAM 13625
<i>Dyella terrae</i>	7203 ←JN1H 3610-62	20968 ←IAM 13626
15424 <sup>T</sup> ←S.-W. Kwon JS14-6	7204 ←JN1H 3075-63	20969 ←IAM 13627
<i>Dysgonomonas capnocytophagoides</i>	7205 ←JN1H 3339-64	<i>Ensifer meliloti</i>
16697 <sup>T</sup> ←CCUG 17996	7206 ←JN1H 3344-64	20363 ←IAM 12035
<i>Dysgonomonas gadei</i>	7207 ←JN1H 3893-64	20682 <sup>T</sup> ←IAM 12611
16698 <sup>T</sup> ←CCUG 42882	7208 ←JN1H 3152-65	<i>Ensifer terangae</i>
<i>Dysgonomonas hofstadii</i>	7209 ←JN1H 3852-65	20965 ←IAM 13623
17038 <sup>T</sup> ←CCUG 54731	7210 ←JN1H 3853-65	<i>Ensifer xinjiangensis</i>
<i>Dysgonomonas mossii</i>	7211 ←JN1H 4199-65	21035 <sup>T</sup> ←IAM 14142
16699 <sup>T</sup> ←CCUG 43457	7212 ←JN1H 4321-65	<i>Enterobacter aerogenes</i>
<i>Edwardsiella hoshiniae</i>	7213 ←JN1H 4646-65	1235 <sup>T</sup> ←Y. Kosako 226
1679 <sup>T</sup> ←Y. Kosako 82074	7214 ←JN1H 5258-66	20090 ←IAM 1183
<i>Edwardsiella ictaluri</i>	7215 ←JN1H 2528-66	24140 ←R. Sakazaki 228
1680 <sup>T</sup> ←R. Sakazaki 146	7216 ←JN1H 4257-66	<i>Enterobacter amnigenus</i>
16934 <sup>T</sup> ←DSM 13697	7217 ←JN1H 4751-66	1237 <sup>T</sup> ←Y. Kosako 246
<i>Edwardsiella tarda</i>	7218 ←JN1H 5159-63	24158 ←R. Sakazaki 248
1656 <sup>T</sup> ←Y. Kosako 82051	7219 ←JN1H 2451-65	24159 ←R. Sakazaki 249
7154 ←JN1H 223-61	7220 ←JN1H 3345-64	<i>Enterobacter asburiae</i>
7155 ←JN1H 404-62	7221 ←JN1H 217-61	6051 <sup>T</sup> ←ATCC 35953
7156 ←JN1H 1058-60	7222 ←JN1H 1806-61	<i>Enterobacter cancerogenus</i>
7157 ←JN1H 1068-60	7223 ←JN1H 3343-64	3943 ←Y. Kosako 85541
7158 ←JN1H 387-60	7224 ←JN1H 4899-66	<i>Enterobacter cloacae</i>
7159 ←JN1H 389-63	7225 ←JN1H 542-67	20208 ←IAM 1562
7160 ←JN1H 408-68	7226 ←JN1H 3844-67	20225 ←IAM 1615
7161 ←JN1H 4282-67	7227 ←JN1H 472-67	20227 ←IAM 1624
7162 ←JN1H 1079-60	<i>Eggerthella lenta</i>	<i>Enterobacter cloacae</i> subsp. <i>cloacae</i>
7163 ←JN1H 444-61	9979 <sup>T</sup> ←STAFF 1026	1232 <sup>T</sup> ←R. Sakazaki 206
7164 ←JN1H 86-61	10763 ←Y. Benno A2-184	<i>Enterobacter cloacae</i> subsp. <i>dissolvens</i>
7165 ←JN1H 4167-62	10764 ←Y. Benno A3-99	6049 <sup>T</sup> ←ATCC 23373
7166 ←JN1H 471-62	10765 ←Y. Benno A5-166	" <i>Enterobacter cloacae</i> subsp. <i>rugosum</i> "
7167 ←JN1H 219-63	10766 ←Y. Benno A5-189	20201 ←IAM 1528
7168 ←JN1H 72-73	10767 ←Y. Benno A5-190	<i>Enterobacter cowanii</i>
7169 ←JN1H 490-72	10768 ←Y. Benno A9-162	10956 <sup>T</sup> ←Y. Kosako KSK246

<i>Enterobacter gergoviae</i>		
1234 <sup>T</sup>	←Y. Kosako 221	
24137	←R. Sakazaki 222	
<i>Enterobacter helveticus</i>		
16470 <sup>T</sup>	←LMG 23732	
<i>Enterobacter kobei</i>		
8580 <sup>T</sup>	←R. Sakazaki	
<i>Enterobacter nimipressuralis</i>		
6050 <sup>T</sup>	←ATCC 9912	
<i>Enterobacter pulveris</i>		
16471 <sup>T</sup>	←LMG 24057	
<i>Enterobacter</i> sp.		
14687	←K. Minamisawa B509	
<i>Enterobacter turicensis</i>		
16472 <sup>T</sup>	←LMG 23730	
<i>Enterococcus avium</i>		
8722 <sup>T</sup>	←ATCC 14025	
<i>Enterococcus casseliflavus</i>		
5675	←ATCC 25789	
8716	←S. Tanasupawat FP17-2	
8723 <sup>T</sup>	←ATCC 25788	
<i>Enterococcus cecorum</i>		
8724 <sup>T</sup>	←ATCC 43198	
<i>Enterococcus durans</i>		
8725 <sup>T</sup>	←ATCC 19432	
<i>Enterococcus faecalis</i>		
5803 <sup>T</sup>	←DSM 20478	
7783	←R. Sakazaki	
8712	←S. Tanasupawat Str03	
8713	←S. Tanasupawat SB1-1	
8726 <sup>T</sup>	←ATCC 19433	
8902	←NCTC 12201	
8904	←NCTC 12203	
20307	←IAM 10065	
20309	←IAM 10067	
20313	←IAM 10071	
<i>Enterococcus faecium</i>		
5804 <sup>T</sup>	←DSM 20477	
8714	←S. Tanasupawat SB1-3	
8715	←S. Tanasupawat SB9-1	
8727 <sup>T</sup>	←ATCC 19434	
8903	←NCTC 12202	
8905	←NCTC 12204	
20306	←IAM 10064	
<i>Enterococcus gallinarum</i>		
8728 <sup>T</sup>	←ATCC 49573	
<i>Enterococcus hirae</i>		
8717	←S. Tanasupawat F30-2	
8718	←S. Tanasupawat Str02	
8719	←S. Tanasupawat F34-1	
8720	←S. Tanasupawat FP13	
8729 <sup>T</sup>	←ATCC 8043	
<i>Enterococcus malodoratus</i>		
8730 <sup>T</sup>	←ATCC 43197	
<i>Enterococcus mundtii</i>		
8731 <sup>T</sup>	←ATCC 43186	
<i>Enterococcus pseudoavium</i>		
8732 <sup>T</sup>	←ATCC 49372	
<i>Enterococcus raffinosus</i>		
8733 <sup>T</sup>	←ATCC 49427	
<i>Enterococcus saccharolyticus</i>		
8734 <sup>T</sup>	←ATCC 43076	
<i>Enterococcus</i> sp.		
20381	←IAM 12067	
<i>Enterococcus villorum</i>		
11557 <sup>T</sup>	←LMG 12287	
<i>Erwinia aphidicola</i>		
21238 <sup>T</sup>	←IAM 14479	
21239	←IAM 14480	
21240	←IAM 14481	
21241	←IAM 14482	
21242	←IAM 14483	
<i>Erwinia persicina</i>		
3704 <sup>T</sup>	←K. Komagata HK 204	
<i>Erysipelothrix tonsillarum</i>		
8533 <sup>T</sup>	←T. Takahashi T-305	
8534	←T. Takahashi T-278	
<i>Erythrobacter aquimaris</i>		
12189 <sup>T</sup>	←J.-H. Yoon SW-110	
12190	←J.-H. Yoon SW-116	
12191	←J.-H. Yoon SW-140	
<i>Erythrobacter citreus</i>		
21816 <sup>T</sup>	←IAM 15372	
<i>Erythrobacter flavus</i>		
11808 <sup>T</sup>	←J.-H. Yoon SW-46	
11809	←J.-H. Yoon SW-52	
<i>Erythrobacter gangjinensis</i>		
15420 <sup>T</sup>	←J. S. Jung K7-2	
<i>Erythrobacter litoralis</i>		
10281 <sup>T</sup>	←E. Yabuuchi EY4222	
<i>Erythrobacter longus</i>		
6170 <sup>T</sup>	←T. Shiba OCh101	
<i>Erythrobacter nanhaisediminis</i>		
16125 <sup>T</sup>	←M. Xu T30	
<i>Erythrobacter seohaensis</i>		
21815 <sup>T</sup>	←IAM 15371	
<i>Erythromicrobium ramosum</i>		
10282 <sup>T</sup>	←E. Yabuuchi EY4223	
<i>Escherichia albertii</i>		
17328 <sup>T</sup>	←LMG 20976	
<i>Escherichia coli</i>		
1649 <sup>T</sup>	←Y. Kosako 82039	
5491	←Y. Kosako	
16574	←M. Hattori SE11	
16575	←M. Hattori SE15	
20071	←IAM 1137	
20114	←IAM 1222	
20123	←IAM 1239	
20135	←IAM 1264	
20137	←IAM 1268	
20349	←IAM 12016	
20350	←IAM 12017	
20351	←IAM 12018	
20375	←IAM 12057	
20376	←IAM 12058	
20377	←IAM 12060	
20391	←IAM 12083	
20392	←IAM 12084	
<i>Escherichia fergusonii</i>		
5897	←Y. Kosako 85563	
5899	←Y. Kosako 85565	
21226 <sup>T</sup>	←IAM 14443	
<i>Escherichia hermannii</i>		
1473 <sup>T</sup>	←Y. Kosako 83024	
<i>Escherichia vulneris</i>		
1688 <sup>T</sup>	←Y. Kosako 82084	
<i>Ethanoligenens harbinense</i>		
12960	←D. Xing et al. W-1	
12961 <sup>T</sup>	←D. Xing et al. YUAN-3	
<i>Eubacterium barkeri</i>		
1389 <sup>T</sup>	←ATCC 25849	
<i>Eubacterium budayi</i>		
		9989 <sup>T</sup> ←STAFF 1014
		<i>Eubacterium callanderi</i>
		10284 <sup>T</sup> ←DSM 3662
		<i>Eubacterium combesii</i>
		9988 <sup>T</sup> ←STAFF 1016
		<i>Eubacterium cylindrooides</i>
		7786 ←ATCC 27805
		7787 ←ATCC 27528
		7788 ←ATCC 27804
		10261 <sup>T</sup> ←DSM 3983
		<i>Eubacterium dolichum</i>
		10413 <sup>T</sup> ←DSM 3991
		<i>Eubacterium fissicatena</i>
		9983 <sup>T</sup> ←STAFF 1021
		<i>Eubacterium limosum</i>
		6421 <sup>T</sup> ←T. Mitsuoka
		6501 ←T. Mitsuoka
		9976 ←STAFF 1028
		9978 <sup>T</sup> ←STAFF 1027
		10283 ←DSM 2593
		<i>Eubacterium moniliforme</i>
		6500 ←T. Mitsuoka
		9990 <sup>T</sup> ←STAFF 1029
		<i>Eubacterium multiforme</i>
		6484 <sup>T</sup> ←T. Mitsuoka
		<i>Eubacterium nitritogenes</i>
		6485 <sup>T</sup> ←T. Mitsuoka
		<i>Eubacterium nodatum</i>
		14550 <sup>T</sup> ←CCUG 15996
		<i>Eubacterium rectale</i>
		17463 ←KCTC 5835
		<i>Eubacterium saburreum</i>
		11021 <sup>T</sup> ←CIP 105341
		<i>Eubacterium tenue</i>
		6486 <sup>T</sup> ←T. Mitsuoka
		<i>Ewingella americana</i>
		5911 <sup>T</sup> ←Y. Kosako 84024
		<i>Exiguobacterium acetylicum</i>
		1968 <sup>T</sup> ←ATCC 953
		<i>Exiguobacterium oxidotolerans</i>
		12280 <sup>T</sup> ←I. Yumoto T-2-2
		<i>Exiguobacterium sibiricum</i>
		13490 <sup>T</sup> ←D. F. Rodrigues 255-15
		<i>Exiguobacterium soli</i>
		14376 <sup>T</sup> ←S. Shivaji DVS 3Y
		<i>Exilispira thermophila</i>
		14728 <sup>T</sup> ←H. Imachi strain RASEN
		<i>Fabibacter halotolerans</i>
		13334 <sup>T</sup> ←S. Lau UST030701-097
		<i>Fangia hongkongensis</i>
		14605 <sup>T</sup> ←K. W. K. Lau UST040201-002
		<i>Fervidicella metallireducens</i>
		15555 <sup>T</sup> ←C. D. Ogg and B. K. C. Patel strain AeB
		<i>Fervidicola ferrireducens</i>
		15106 <sup>T</sup> ←C. D. Ogg and B. K. C. Patel Y170
		<i>Fervidobacterium changbaicum</i>
		13353 <sup>T</sup> ←Y. Feng CBS-1T
		<i>Filobacillus milosensis</i>
		12288 <sup>T</sup> ←DSM 13259
		<i>Finegoldia magna</i>
		1766 <sup>T</sup> ←DSM 20470
		<i>Flagellimonas eckloniae</i>
		13831 <sup>T</sup> ←K. K. Kwon Dokdo 007
		<i>Flammeovirga aprica</i>

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>Flammeovirga arenaria</i>	21139 <sup>T</sup> ← IAM 14299
<i>Flammeovirga kamogawensis</i>	21777 <sup>T</sup> ← IAM 15329
<i>Flavobacterium anhuiense</i>	14864 <sup>T</sup> ← H. Liu D3
<i>Flavobacterium antarcticum</i>	12383 <sup>T</sup> ← J. Chun AT1026
<i>Flavobacterium aquatile</i>	20475 <sup>T</sup> ← IAM 12316
<i>Flavobacterium banpakuense</i>	16466 <sup>T</sup> ← S. Kanaya 15F3
" <i>Flavobacterium cheonanense</i> "	17069 <sup>T</sup> ← T.-Y. Ahn ARSA-108
<i>Flavobacterium chungangense</i>	15651 <sup>T</sup> ← C.-J. Cha CJ7
<i>Flavobacterium chungbukense</i>	17386 <sup>T</sup> ← C.-S. Lim CS100
" <i>Flavobacterium chungnamense</i> "	17068 <sup>T</sup> ← T.-Y. Ahn ARSA-103
<i>Flavobacterium columnare</i>	21141 <sup>T</sup> ← IAM 14301
	21326 ← IAM 14820
	21327 ← IAM 14821
<i>Flavobacterium flevense</i>	21143 <sup>T</sup> ← IAM 14303
<i>Flavobacterium frigidimarvis</i>	12218 <sup>T</sup> ← Y. Nogi KUC-1
<i>Flavobacterium ginsenosidimutans</i>	16720 <sup>T</sup> ← W.-T. Im THG 01
<i>Flavobacterium glaciei</i>	13953 <sup>T</sup> ← D. Zhang and P.-J. Zhou 0499
<i>Flavobacterium granuli</i>	21560 <sup>T</sup> ← IAM 15099
<i>Flavobacterium hydatis</i>	20519 <sup>T</sup> ← IAM 12365
<i>Flavobacterium johnsoniae</i>	7449 ← H. Oyaizu KS 0403
	7450 ← H. Oyaizu KS 0404
	7451 ← H. Oyaizu KS 0405
	8514 <sup>T</sup> ← NCIMB 11054
" <i>Flavobacterium koreense</i> "	17066 <sup>T</sup> ← T.-Y. Ahn ARSA-42
<i>Flavobacterium limicola</i>	11473 <sup>T</sup> ← H. Tamaki ST-82
	11474 ← H. Tamaki ST-10
	11475 ← H. Tamaki ST-92
" <i>Flavobacterium lutescens</i> "	7455 ← H. Oyaizu KS 0423
	20244 ← IAM 1667
	20652 ← IAM 12575
<i>Flavobacterium mizutaii</i>	21155 <sup>T</sup> ← IAM 14315
<i>Flavobacterium omnivorum</i>	11313 <sup>T</sup> ← F. Zhu ZF-8
<i>Flavobacterium pectinovorum</i>	8518 <sup>T</sup> ← NCIMB 9059
<i>Flavobacterium psychrophilum</i>	8519 <sup>T</sup> ← NCIMB 1947
<i>Flavobacterium saccharophilum</i>	8520 <sup>T</sup> ← NCIMB 2072
<i>Flavobacterium saliperosum</i>	13331 <sup>T</sup> ← S.-J. Liu S13
<i>Flavobacterium segetis</i>	12385 <sup>T</sup> ← J. Chun AT1048
<i>Flavobacterium sinopsychrotolerans</i>	16398 <sup>T</sup> ← CGMCC 1.8704
<i>Flavobacterium</i> sp.	7464 ← H. Oyaizu KS 0436
	7465 ← H. Oyaizu KS 0437
	7466 ← H. Oyaizu KS 0448
	7467 ← H. Oyaizu KS 0449
	14677 ← K. Minamisawa B17
	20361 ← IAM 12033
<i>Flavobacterium succinicans</i>	21151 <sup>T</sup> ← IAM 14311
" <i>Flavobacterium sulfureum</i> "	7462 ← H. Oyaizu KS 0434
<i>Flavobacterium tiangeerense</i>	15087 <sup>T</sup> ← D.-C. Zhang and Y.-G. Zhou 0563
<i>Flavobacterium weaverense</i>	12384 <sup>T</sup> ← J. Chun AT1042
<i>Flavobacterium xanthum</i>	20358 <sup>T</sup> ← IAM 12026
<i>Flavobacterium xinjiangense</i>	11314 <sup>T</sup> ← F. Zhu ZF-6
<i>Flectobacillus lacus</i>	13398 <sup>T</sup> ← B. C. Cho CL-GP79
<i>Flexibacter aggregans</i>	21384 <sup>T</sup> ← IAM 14894
<i>Flexibacter elegans</i>	21159 <sup>T</sup> ← IAM 14319
<i>Flexibacter</i> sp.	21405 ← IAM 14923
	21406 ← IAM 14924
	21407 ← IAM 14925
<i>Fodinibacter luteus</i>	17809 <sup>T</sup> ← DSM 21208
<i>Fodinicola feengrottensis</i>	14718 <sup>T</sup> ← I. Groth HKI 0501 (=strain 2427-001)
<i>Friedmanniella antarctica</i>	11651 <sup>T</sup> ← IFO 16127
<i>Friedmanniella capsulata</i>	13522 <sup>T</sup> ← DSM 12936
<i>Friedmanniella lacustris</i>	11951 <sup>T</sup> ← CIP 106992
<i>Friedmanniella spumicola</i>	16540 <sup>T</sup> ← DSM 21308
<i>Frigoribacterium faeni</i>	11265 <sup>T</sup> ← DSM 10309
<i>Frondihabitans australicus</i>	13598 <sup>T</sup> ← L. Zhang E1HC-02
<i>Frondihabitans peucedani</i>	17442 <sup>T</sup> ← S. D. Lee RS-15
<i>Fructobacillus durionis</i>	17831 <sup>T</sup> ← NRIC 0663
<i>Fructobacillus ficalneus</i>	12225 <sup>T</sup> ← DSM 13613
<i>Fructobacillus fructosus</i>	1119 <sup>T</sup> ← ATCC 13162
<i>Fructobacillus pseudoficalneus</i>	17832 <sup>T</sup> ← NRIC 0698
<i>Fructobacillus tropaeoli</i>	16675 <sup>T</sup> ← A. Endo F214-1
<i>Fulvivirga kasyanovii</i>	16186 <sup>T</sup> ← KCTC 12832
<i>Fusobacterium canifelinum</i>	17464 <sup>T</sup> ← KCTC 5838
<i>Fusobacterium equinum</i>	11174 <sup>T</sup> ← D. N. Love VPB 4027
<i>Fusobacterium necrophorum</i> subsp. <i>funduliforme</i>	3717 ← T. Shinjo Fn 45 (Biovar B)
	3719 ← T. Shinjo Fn 561 (Biovar B)
	3724 <sup>T</sup> ← T. Shinjo Fn 524 (Biovar B)
<i>Fusobacterium necrophorum</i> subsp. <i>necrophorum</i>	3716 ← T. Shinjo Fn 43 (Biovar A)
	3718 <sup>T</sup> ← T. Shinjo Fn 511 (Biovar A)
	3720 ← T. Shinjo Fn 512 (Biovar A)
<i>Fusobacterium nucleatum</i> subsp. <i>animalis</i>	11025 <sup>T</sup> ← CIP 104879
<i>Fusobacterium nucleatum</i> subsp. <i>fusiforme</i>	11024 <sup>T</sup> ← CIP 104878
<i>Fusobacterium nucleatum</i> subsp. <i>nucleatum</i>	6328 ← T. Mitsuoka NW-42
	8533 <sup>T</sup> ← Tokyo Med. Dent. Univ.
<i>Fusobacterium nucleatum</i> subsp. <i>polymorphum</i>	12990 <sup>T</sup> ← CCUG 9126
<i>Fusobacterium nucleatum</i> subsp. <i>vincentii</i>	11023 <sup>T</sup> ← CIP 104988
<i>Fusobacterium periodonticum</i>	12991 <sup>T</sup> ← CCUG 14345
<i>Fusobacterium simiae</i>	17465 <sup>T</sup> ← KCTC 5548
<i>Fusobacterium varium</i>	3721 ← T. Shinjo Fn 520 (Biovar C)
	3722 ← T. Shinjo Fn 521 (Biovar C)
	3723 ← T. Shinjo Fn 522 (Biovar C)
	6320 <sup>T</sup> ← Y. Benno
" <i>Gaetbulibacter jejuensis</i> "	15976 <sup>T</sup> ← Y.-S. Oh CNURIC014
<i>Gaetbulibacter saemankumensis</i>	12931 <sup>T</sup> ← J.-H. Yoon SMK-12
<i>Gangjinia marincola</i>	16082 <sup>T</sup> ← H.-Y. Kahng GJ16
<i>Gardnerella vaginalis</i>	11026 <sup>T</sup> ← CIP 70.74
<i>Gemella morbillorum</i>	12968 <sup>T</sup> ← DSM 20572
<i>Gemmatoonas aurantiaca</i>	11422 <sup>T</sup> ← S. Hanada T-27
<i>Geoalkalibacter subterraneus</i>	15104 <sup>T</sup> ← A. C. Greene Red1
<i>Geobacillus kaustophilus</i>	12893 ← H. Takami HTA426
	20319 <sup>T</sup> ← IAM 11001
<i>Geobacillus stearothermophilus</i>	2501 <sup>T</sup> ← ATCC 12980
	9488 ← ATCC 7953
	11297 ← ATCC 10149
	12216 ← CIP 67.5
	12894 ← H. Takami HTA462
	14450 ← IAM 12043
<i>Geobacillus vulcani</i>	12214 <sup>T</sup> ← CIP 106305
<i>Geobacter daltonii</i>	15807 <sup>T</sup> ← J. E. Kostka FRC-32
<i>Geobacter toluenoxydans</i>	

15764 <sup>T</sup>	←R. U. Meckenstock TMJ1	17123 <sup>T</sup>	←DSM 16373	16218 <sup>T</sup>	←KCTC 19158
<i>Geodermatophilus obscurus</i>		<i>Gluconacetobacter xylinus</i>		<i>Glycomyces tenuis</i>	
3152 <sup>T</sup>	←KCC A-0152	7644 <sup>T</sup>	←NCIB 11664	9087 <sup>T</sup>	←VKM Ac-1250
" <i>Geodermatophilus obscurus</i> subsp.		7664	←IFO 13693	<i>Goodfellowiella coeruleoviolacea</i>	
<i>amargosae"</i>		10150	←T. Tsuchida BPR2002	9110 <sup>T</sup>	←IFO 14988
3153 <sup>T</sup>	←KCC A-0153	21166	←IAM 14352 ( <i>Acetobacter pasteurianus</i> )	<i>Gordonia aichiensis</i>	
" <i>Geodermatophilus obscurus</i> subsp.		<i>Gluconobacter albidus</i>		6046 <sup>T</sup>	←M. Tsukamura E9028 (=62001)
<i>dictyosporus"</i>		20271 <sup>T</sup>	←IAM 1806	<i>Gordonia alkanivorans</i>	
3154 <sup>T</sup>	←KCC A-0154	<i>Gluconobacter cerinus</i>		10677 <sup>T</sup>	←DSM 44369
" <i>Geodermatophilus obscurus</i> subsp.		20291	←IAM 1832	11273	←DSM 44499
<i>utahensis"</i>		21176	←IAM 14363	<i>Gordonia amarae</i>	
3155 <sup>T</sup>	←KCC A-0155	21177	←IAM 14364	3171 <sup>T</sup>	←KCC A-0171
<i>Geodermatophilus ruber</i>		21279	←IAM 14721	11298	←ATCC 27809
17967 <sup>T</sup>	←CCM 7619	<i>Gluconobacter frateurii</i>		11299	←ATCC 27810
<i>Geomicrobium halophilum</i>		20277	←IAM 1815 ( <i>Gluconobacter cerinus</i> )	<i>Gordonia amicalis</i>	
15647 <sup>T</sup>	←A. Echigo BH1	20278	←IAM 1816	11271 <sup>T</sup>	←DSM 44461
<i>Geopsychrobacter electrodiphilus</i>		" <i>Gluconobacter morbifer</i> "		<i>Gordonia arai</i>	
12469 <sup>T</sup>	←D. Holmes A1	15512 <sup>T</sup>	←S. W. Roh G707	12131 <sup>T</sup>	←Y. Mikami IFM 10211
<i>Georgenia halophila</i>		<i>Gluconobacter oxydans</i>		14573	←J. Brown CDC W8543
17810 <sup>T</sup>	←DSM 21365	7642 <sup>T</sup>	←NCIB 9013	" <i>Gordonia australis</i> "	
<i>Georgenia muralis</i>		20275	←IAM 1813	14872	←IFM 10859
12135	←CCM 4964	20281	←IAM 1820	<i>Gordonia bronchialis</i>	
12241 <sup>T</sup>	←CCM 4963	20282	←IAM 1821	3198 <sup>T</sup>	←KCC A-0198
<i>Georgenia ruanii</i>		20283	←IAM 1822	3231 <sup>T</sup>	←KCC A-0231
15130 <sup>T</sup>	←C.-L. Jiang YIM 004	20284	←IAM 1823	<i>Gordonia cholesterolivorans</i>	
<i>Georgenia soli</i>		20294	←IAM 1839	16227 <sup>T</sup>	←CECT 7408
17968 <sup>T</sup>	←CCM 7658	20295	←IAM 1841	<i>Gordonia desulfuricans</i>	
<i>Georgfuchsia toluolica</i>		20296	←IAM 1842	11762 <sup>T</sup>	←DSM 44462
14632 <sup>T</sup>	←S. A. B. Weelink G5G6	20429	←IAM 12137	<i>Gordonia effusa</i>	
<i>Geosporobacter subterraneus</i>		20430	←IAM 12138	12130 <sup>T</sup>	←Y. Mikami IFM 10200
14037 <sup>T</sup>	←M.-L. Fardeau VNs68	21178	←IAM 14365	<i>Gordonia hankookensis</i>	
<i>Geothermobacter ehrlichii</i>		21179	←IAM 14366	16947 <sup>T</sup>	←KCTC 19599
12418 <sup>T</sup>	←K. Kashefi SS015	21180	←IAM 14367	<i>Gordonia hirsuta</i>	
<i>Giesbergeria anulus</i>		21218	←IAM 14435 ( <i>Acetobacter</i> sp.)	10105 <sup>T</sup>	←DSM 44140
21430 <sup>T</sup>	←IAM 14948	<i>Gluconobacter roseus</i>		<i>Gordonia humi</i>	
<i>Giesbergeria giesbergeri</i>		20293 <sup>T</sup>	←IAM 1838	17969 <sup>T</sup>	←CCM 7727
21431 <sup>T</sup>	←IAM 14949	<i>Gluconobacter</i> sp.		<i>Gordonia hydrophobia</i>	
<i>Giesbergeria sinuosa</i>		20280	←IAM 1818	10086 <sup>T</sup>	←CIP 104672
21449 <sup>T</sup>	←IAM 14978	20288	←IAM 1827	" <i>Gordonia jacobaea</i> "	
<i>Gillisia myxillae</i>		20431	←IAM 12139	12643	←IFM 10484
13564 <sup>T</sup>	←M. Tsoi UST050417-085	<i>Gluconobacter thailandicus</i>		<i>Gordonia kroppenstedtii</i>	
<i>Glaciecola chathamensis</i>		12310 <sup>T</sup>	←S. Tanasupawat F149-1	16948 <sup>T</sup>	←KCTC 19360
13645 <sup>T</sup>	←H. Matsuyama S18K6	12311	←S. Tanasupawat F142-1	<i>Gordonia malaquae</i>	
<i>Glaciecola lipolytica</i>		20290	←IAM 1830 ( <i>Gluconobacter frateurii</i> )	14874 <sup>T</sup>	←IFM 10866
15139 <sup>T</sup>	←Z.-P. Liu E3	20465	←IAM 12306 ( <i>Gluconobacter cerinus</i> )	<i>Gordonia namibiensis</i>	
<i>Glaciecola nitratireducens</i>		<i>Glycomyces algeriensis</i>		12074 <sup>T</sup>	←NCIMB 13800
12485 <sup>T</sup>	←J. Chun FR1064	14910 <sup>T</sup>	←DSM 44727	<i>Gordonia otitidis</i>	
<i>Glaciecola psychrophila</i>		<i>Glycomyces arizonensis</i>		12355 <sup>T</sup>	←Y. Mikami IFM 10032
13954 <sup>T</sup>	←D. Zhang and P.-J. Zhou 170	14911 <sup>T</sup>	←DSM 44726	<i>Gordonia paraffinivorans</i>	
<i>Gluconacetobacter hansenii</i>		<i>Glycomyces endophyticus</i>		12461 <sup>T</sup>	←AS 4.1730
7643 <sup>T</sup>	←NCIB 8746	16001 <sup>T</sup>	←DSM 45002	<i>Gordonia polyisoprenivorans</i>	
<i>Gluconacetobacter intermedius</i>		<i>Glycomyces harbinensis</i>		10675 <sup>T</sup>	←DSM 44302
16936 <sup>T</sup>	←DSM 11804	7347 <sup>T</sup>	←IMET 43812	14875	←IFM 10858
<i>Gluconacetobacter liquefaciens</i>		<i>Glycomyces lechevalierae</i>		<i>Gordonia rhizosphera</i>	
17689	←LMG 1348	14912 <sup>T</sup>	←DSM 44724	10426 <sup>T</sup>	←IFO 16068
17840 <sup>T</sup>	←LMG 1381	<i>Glycomyces mayteni</i>		<i>Gordonia rubripertincta</i>	
21165	←IAM 14351	16217 <sup>T</sup>	←KCTC 19527	3199	←KCC A-0199
<i>Gluconacetobacter oboediens</i>		<i>Glycomyces rutgersensis</i>		3204 <sup>T</sup>	←KCC A-0204
16937 <sup>T</sup>	←DSM 11826	6238 <sup>T</sup>	←DSM 43812	3227	←KCC A-0227
<i>Gluconacetobacter rhaeticus</i>		<i>Glycomyces sambucus</i>		<i>Gordonia shandongensis</i>	
17122 <sup>T</sup>	←DSM 16663	15472 <sup>T</sup>	←CGMCC 4.3147	13907 <sup>T</sup>	←Y. Huang SD29
<i>Gluconacetobacter saccharivorans</i>		<i>Glycomyces scopariae</i>		<i>Gordonia sihwensis</i>	
25121 <sup>T</sup>	←NRIC 0614			13435 <sup>T</sup>	←IFM 10619
<i>Gluconacetobacter sucrofermentans</i>				<i>Gordonia sinesedis</i>	
9730 <sup>T</sup>	←T. Tsuchida BPR2001			12126 <sup>T</sup>	←L. A. Maldonado J72
<i>Gluconacetobacter swingsii</i>				<i>Gordonia soli</i>	

Animal  
Plant  
Cell  
DNA  
JCM  
Info

14298 <sup>T</sup> ← IFM 10767	20841 ← IAM 13069	21223 <sup>T</sup> ← IAM 14440
<b>Gordonia sputi</b>	20842 ← IAM 13070	<b>Halomonas venusta</b>
3228 <sup>T</sup> ← KCC A-0228	20843 ← IAM 13071	20634 <sup>T</sup> ← IAM 12554
6047 ← M. Tsukamura E6324 (=61001)	<b>Halobacillus kuroshimensis</b>	21024 ← IAM 14109
6048 ← M. Tsukamura E8179 (=61501)	14155 <sup>T</sup> ← T. Naganuma IS-Hb7	21025 ← IAM 14110
6411 ← M. Tsukamura E12652	<b>Halobacillus profundii</b>	21026 ← IAM 14111
<b>Gordonia terrae</b>	14154 <sup>T</sup> ← T. Naganuma IS-Hb4	" <b>Haloplasma contractile</b> "
3206 <sup>T</sup> ← KCC A-0206	<b>Halobacillus salinus</b>	14575 <sup>T</sup> ← A. Antunes SSD-17B
3229 <sup>T</sup> ← KCC A-0229	11546 <sup>T</sup> ← Y.-H. Park SL-3	<b>Halarhodospira neutrophila</b>
<b>Gordonia westfalica</b>	<b>Halochromatium roseum</b>	17835 <sup>T</sup> ← A. Hirschler-Réa SG 3301
11757 <sup>T</sup> ← DSM 44215	14151 <sup>T</sup> ← Ch. Saskala JA134	<b>Halothiobacillus neapolitanus</b>
<b>Gordonibacter pamelaeae</b>	<b>Haloglycomyces albus</b>	3861 ← Y. Katayama THI121
16334 <sup>T</sup> ← CCUG 55131	16899 <sup>T</sup> ← DSM 45210	<b>Hamadaea tsunoensis</b>
<b>Gracilibacillus boraciutolerans</b>	<b>Halolactibacillus halophilus</b>	9105 <sup>T</sup> ← IFO 14552
21714 <sup>T</sup> ← IAM 15263	21694 <sup>T</sup> ← IAM 15242	<b>Helicobacter pylori</b>
<b>Gracilibacillus halotolerans</b>	21695 ← IAM 15243	12093 <sup>T</sup> ← CIP 103995
10718 <sup>T</sup> ← DSM 11805	21696 ← IAM 15244	12095 ← CIP 104086
<b>Gracilibacillus thailandensis</b>	21697 ← IAM 15245	<b>Henriciella marina</b>
15569 <sup>T</sup> ← S. Tanasupawat TP2-8	21698 ← IAM 15246	15116 <sup>T</sup> ← S. W. Roh Iso4
<b>Gracilibacillus ureilyticus</b>	<b>Halolactibacillus miurensis</b>	<b>Herbaspirillum autotrophicum</b>
15711 <sup>T</sup> ← X.-W. Xu MF38	21700 ← IAM 15248	21424 <sup>T</sup> ← IAM 14942
<b>Gramella echinocola</b>	21701 ← IAM 15249	<b>Herbaspirillum chlorophenolicum</b>
13510 <sup>T</sup> ← KMM 6050	21702 ← IAM 15250	21487 <sup>T</sup> ← IAM 15024
<b>Gramella gaetbulicola</b>	21703 ← IAM 15251	<b>Herbaspirillum frisingense</b>
16528 <sup>T</sup> ← S. B. Kim RA5-111	<b>Halomonas alimentaria</b>	21445 <sup>T</sup> ← IAM 14974
<b>Gramella portivictoriae</b>	10888 <sup>T</sup> ← Y.-H. Park YKJ-16	<b>Herbaspirillum huttense</b> subsp. <i>huttense</i>
13192 <sup>T</sup> ← S. Lau UST040801-001	<b>Halomonas aquamarina</b>	21423 <sup>T</sup> ← IAM 14941
<b>Granulicoccus phenolivorans</b>	20631 ← IAM 12551	<b>Herbaspirillum huttense</b> subsp. <i>putei</i>
15570 <sup>T</sup> ← DSM 17626	20708 ← IAM 12645	21495 <sup>T</sup> ← IAM 15032
<b>Gulbenkiania indica</b>	<b>Halomonas arcis</b>	<b>Herbaspirillum rubrisubalbicans</b>
15969 <sup>T</sup> ← S. K. Das HT27	14607 <sup>T</sup> ← X.-W. Xu AJ282	21447 <sup>T</sup> ← IAM 14976
<b>Gulosibacter molinativorax</b>	<b>Halomonas caseinilytica</b>	<b>Herbaspirillum seropediae</b>
13320 <sup>T</sup> ← LMG 21909	14802 <sup>T</sup> ← X.-W. Xu AJ261	21448 <sup>T</sup> ← IAM 14977
<b>Hafnia alvei</b>	<b>Halomonas cupida</b>	<b>Herbaspirillum</b> sp.
1666 <sup>T</sup> ← Y. Kosako 82061	20632 <sup>T</sup> ← IAM 12552	14681 ← K. Minamisawa B39
24184 ← R. Sakazaki 287	<b>Halomonas elongata</b>	14684 ← K. Minamisawa B65
<b>Hahella ganghwensis</b>	21044 <sup>T</sup> ← IAM 14166	14685 ← K. Minamisawa B501
12486 <sup>T</sup> ← J. Chun FR1050	" <b>Halomonas glaciei</b> "	<b>Herbiconiux ginsengi</b>
<b>Halalkalibacillus halophilus</b>	11692 <sup>T</sup> ← S. Shivaji DD 39	13908 <sup>T</sup> ← Y. Huang wgded11
14192 <sup>T</sup> ← A. Echigo BH2	<b>Halomonas halmophila</b>	<b>Herbidospora cretacea</b>
<b>Halanaerobaculum tunisiense</b>	21222 <sup>T</sup> ← IAM 14439	8548 ← T. Itoh I-186
15060 <sup>T</sup> ← M.-L. Farreau 6SANG	<b>Halomonas halophila</b>	8549 ← T. Itoh I-385
" <b>Halanaeroceilla petrolearia</b> "	20791 <sup>T</sup> ← IAM 13009	8550 ← T. Itoh I-404
16358 <sup>T</sup> ← D. Alazard S200	" <b>Halomonas jeotgali</b> "	8551 ← T. Itoh I-405
<b>Haliangium ochraceum</b>	15645 <sup>T</sup> ← J.-W. Bae strain Hwa	8552 ← T. Kudo K-83
11303 <sup>T</sup> ← R. Fudou SMP-2	<b>Halomonas koreensis</b>	8553 <sup>T</sup> ← T. Kudo K-319
<b>Haliangium tepidum</b>	12237 <sup>T</sup> ← C. J. Kim SS20	8554 ← S. Miyadod SF2625
11304 <sup>T</sup> ← R. Fudou SMP-10	<b>Halomonas pacifica</b>	8555 ← S. Miyadod SF2742
<b>Haloactinospora alba</b>	20633 <sup>T</sup> ← IAM 12553	9313 ← B. Petrolini strain D1 (IPV
16004 <sup>T</sup> ← DSM 45015	21028 ← IAM 14115	2852)
<b>Halobacillus aidingensis</b>	<b>Halomonas saccharovitans</b>	<b>Herbidospora osyris</b>
12771 <sup>T</sup> ← CGMCC 1.3703	14606 <sup>T</sup> ← X.-W. Xu AJ275	16900 <sup>T</sup> ← DSM 45214
<b>Halobacillus dabanensis</b>	<b>Halomonas salifodinae</b>	<b>Herbidospora sakaeratensis</b>
12772 <sup>T</sup> ← CGMCC 1.3704	14803 <sup>T</sup> ← X.-W. Xu BC7	17935 <sup>T</sup> ← BCC 11662
<b>Halobacillus faecis</b>	<b>Halomonas salina</b>	<b>Hirschia maritima</b>
23212 <sup>T</sup> ← IAM 15427	21221 <sup>T</sup> ← IAM 14438	14974 <sup>T</sup> ← S. D. Lee GSW-2
<b>Halobacillus halophilus</b>	<b>Halomonas</b> sp.	<b>Howardella ureilytica</b>
20832 <sup>T</sup> ← IAM 13060	11460 ← K. Phucharoen SK1	13267 <sup>T</sup> ← DSM 15118
20833 ← IAM 13061	20637 ← IAM 12558	<b>Humibacillus xanthopallidus</b>
20834 ← IAM 13062	<b>Halomonas subglaciescola</b>	15923 <sup>T</sup> ← NRRL B-24471
20835 ← IAM 13063	21045 <sup>T</sup> ← IAM 14167	<b>Humibacter albus</b>
20836 ← IAM 13064	<b>Halomonas subterranea</b>	16029 <sup>T</sup> ← LMG 23996
20837 ← IAM 13065	14608 <sup>T</sup> ← X.-W. Xu ZG16	<b>Humicoccus flavidus</b>
20838 ← IAM 13066	<b>Halomonas titanicae</b>	15652 <sup>T</sup> ← CIP 108919
20839 ← IAM 13067	16411 <sup>T</sup> ← C. Sanchez-Porro BH1	<b>Humihabitans oryzae</b>
20840 ← IAM 13068	<b>Halomonas variabilis</b>	15924 <sup>T</sup> ← NRRL B-24470

- Hyalangium minutum***  
12630<sup>T</sup> ←DSM 14724
- Hydrogenimonas thermophila***  
11971<sup>T</sup> ←K. Takai EP1-55-1%
- Hydrogenivirga caldilitoris***  
12173<sup>T</sup> ←S. Nakagawa IBSK3
- Hydrogenivirga okinawensis***  
13302<sup>T</sup> ←T. Nunoura LS12-2
- Hydrogenoanaerobacterium saccharovorans***  
14861<sup>T</sup> ←X. Dong SW512
- "***Hydrogenobacter halophilus*"**  
7554 ←T. Kodama TH-112
- Hydrogenobacter hydrogenophilus***  
8158<sup>T</sup> ←DSM 2913
- Hydrogenobacter* sp.**  
17650 ←T. Itoh IC-057
- Hydrogenobacter subterraneus***  
10560<sup>T</sup> ←K. Takai HGP1
- Hydrogenobacter thermophilus***  
7687<sup>T</sup> ←T. Kodama TK-6
- Hydrogenobaculum acidophilum***  
8795<sup>T</sup> ←S. Shima 3H-1
- Hydrogenophaga flava***  
21413<sup>T</sup> ←IAM 14931
- Hydrogenophaga intermedia***  
21401<sup>T</sup> ←IAM 14919
- Hydrogenophaga palleronii***  
21412<sup>T</sup> ←IAM 14930
- Hydrogenophaga pseudoflava***  
21410<sup>T</sup> ←IAM 14928
- Hydrogenophaga taeniospiralis***  
21411<sup>T</sup> ←IAM 14929
- Hydrogenophilus hirschii***  
10831<sup>T</sup> ←M. Thomm Yel 5a
- Hydrogenophilus islandicus***  
16106<sup>T</sup> ←J. Orlygsson 16C
- Hydrogenothermus marinus***  
10974<sup>T</sup> ←M. Thomm VM1
- Hydrogenovibrio marinus***  
7688<sup>T</sup> ←T. Kodama MH-110
- Hymenobacter algoricola***  
17214<sup>T</sup> ←J. L. Klassen and J. M. Foght
- VUG-A23a
- Hymenobacter antarcticus***  
17213 ←J. L. Klassen and J. M. Foght
- VUG-A2a
- 17215 ←J. L. Klassen and J. M. Foght
- VUG-A33
- 17216 ←J. L. Klassen and J. M. Foght
- VUG-A34
- 17217 ←J. L. Klassen and J. M. Foght
- VUG-A42aa
- 17219 ←J. L. Klassen and J. M. Foght
- VUG-A57b
- 17220 ←J. L. Klassen and J. M. Foght
- VUG-A58
- 17222 ←J. L. Klassen and J. M. Foght
- VUG-A67
- Hymenobacter elongatus***  
17223<sup>T</sup> ←J. L. Klassen and J. M. Foght
- VUG-A112
- Hymenobacter fastidiosus***  
17224<sup>T</sup> ←J. L. Klassen and J. M. Foght
- VUG-A124
- 17227 ←J. L. Klassen and J. M. Foght
- VUG-A142
- Hymenobacter glaciei***  
17225<sup>T</sup> ←J. L. Klassen and J. M. Foght
- VUG-A130
- Hymenobacter* sp.**  
17218 ←J. L. Klassen and J. M. Foght
- VUG-A48
- 17221 ←J. L. Klassen and J. M. Foght
- VUG-A60a
- 17226 ←J. L. Klassen and J. M. Foght
- VUG-A141a
- Hymenobacter xinjiangensis***  
23206<sup>T</sup> ←IAM 15452
- Hypomicrobium methylivorum***  
6890<sup>T</sup> ←T. Urakami TK 0412
- Hypomicrobium vulgare***  
6889<sup>T</sup> ←T. Urakami TK 0401
- Hypomonas polymorpha***  
21104<sup>T</sup> ←IAM 14246
- Ideonella azotifigens***  
15503<sup>T</sup> ←D. H. Buckley 1a22
- Ideonella* sp.**  
14686 ←K. Minamisawa B508-1
- Idiomarina aestuarii***  
16344<sup>T</sup> ←C. N. Seong KYW314
- Idiomarina donghaiensis***  
15533<sup>T</sup> ←X.-W. Xu 908033
- Idiomarina marina***  
15083<sup>T</sup> ←W. Y. Shieh PIM1
- Idiomarina maritima***  
15534<sup>T</sup> ←X.-W. Xu 908087
- Idiomarina seosinensis***  
12526<sup>T</sup> ←D. H. Choi CL-SP19
- Idiomarina tainanensis***  
15084<sup>T</sup> ←W. Y. Shieh PIN1
- Idiomarina taiwanensis***  
13360<sup>T</sup> ←W. Y. Shieh PIT1
- Ignavibacterium album***  
16511<sup>T</sup> ←NBRC 101810
- Ilumatobacter fluminis***  
17811<sup>T</sup> ←DSM 18936
- Insolitispirillum peregrinum* subsp. *integrum***  
21428<sup>T</sup> ←IAM 14946
- Insolitispirillum peregrinum* subsp. *peregrinum***  
21450<sup>T</sup> ←IAM 14979
- Intrasporangium calvum***  
3097<sup>T</sup> ←KCC A-0097
- Iodobacter fluviatilis***  
9044<sup>T</sup> ←IAM 13652
- Isoptericola chiayiensis***  
18063<sup>T</sup> ←BCRC 16888
- Isoptericola dokdonensis***  
15137<sup>T</sup> ←CIP 108921
- Isoptericola halotolerans***  
13590<sup>T</sup> ←KCTC 19046
- Isoptericola hypogaeus***  
15589<sup>T</sup> ←NCIMB 14033
- Isoptericola jiangsuensis***  
17812<sup>T</sup> ←DSM 21863
- Isoptericola variabilis***  
11754<sup>T</sup> ←DSM 10177
- Jahnella thaxteri***  
12631<sup>T</sup> ←DSM 14626
- Janibacter anophelis***
- 14734<sup>T</sup> ←CIP 108728
- 21813<sup>T</sup> ←IAM 15369
- Janibacter corallicola***  
15571<sup>T</sup> ←DSM 18906
- Janibacter hoylei***  
17930<sup>T</sup> ←MTCC 8307
- Janibacter limosus***  
10980<sup>T</sup> ←IFO 16128
- Janibacter melonis***  
12321<sup>T</sup> ←J.-H. Yoon CM2104
- 12322 ←J.-H. Yoon CM2110
- Janibacter* sp.**  
11555 ←T. Iida YK1 (*Terrabacter* sp.)
- 11556 ←T. Iida YK3 (*Terrabacter* sp.)
- Janibacter terrae***  
10705<sup>T</sup> ←J.-H. Yoon CS12
- 12887 ←IAM 14781
- 21314 ←IAM 14782
- Jannaschia donghaensis***  
14563<sup>T</sup> ←Y.-H. Yoon DSW-17
- Jannaschia seosinensis***  
13035<sup>T</sup> ←D. H. Choi CL-SP26
- Janthinobacterium agaricidamnosum***  
21444<sup>T</sup> ←IAM 14973
- Janthinobacterium lividum***  
9043<sup>T</sup> ←IAM 13948
- 13308 ←CIP 106720
- Janthinobacterium* sp.**  
16567 ←H. Nojiri J3
- Jeotgalibacillus alimentarius***  
10872<sup>T</sup> ←Y.-H. Park YKJ-13
- Jeotgalibacillus campialis***  
11810<sup>T</sup> ←J.-H. Yoon SF-57
- Jeotgalicoccus halotolerans***  
11198<sup>T</sup> ←Y.-H. Park YKJ-101
- Jeotgalicoccus huakuii***  
15687<sup>T</sup> ←X.-Q. Guo NY-2
- Jeotgalicoccus psychrophilus***  
11199<sup>T</sup> ←Y.-H. Park YKJ-115
- Jhaorihella thermophila***  
15068<sup>T</sup> ←C.-C. Young CC-MHSW-1
- Jiangella alba***  
16901<sup>T</sup> ←DSM 45237
- Jiangella alkaliphila***  
15620<sup>T</sup> ←KCTC 19222
- Jiangella gansuensis***  
13367<sup>T</sup> ←KCTC 19044
- Jiangella muralis***  
17970<sup>T</sup> ←CCM 7680
- Jonesia denitrificans***  
11481<sup>T</sup> ←CIP 55.134
- Jonesia quinghaiensis***  
13009<sup>T</sup> ←CGMCC 1.3459
- Kaistia adipata***  
21486<sup>T</sup> ←IAM 15023
- Kandleria vitulina***  
1143<sup>T</sup> ←ATCC 27783
- Kangiella aquimarina***  
12318<sup>T</sup> ←J.-H. Yoon SW-154
- Kangiella japonica***  
16211<sup>T</sup> ←N. Tanaka
- Kangiella koreensis***  
12317<sup>T</sup> ←J.-H. Yoon SW-125
- Kibdelosporangium aridum* subsp. *aridum***  
7912<sup>T</sup> ←ATCC 39323

- Kibdelosporangium aridum** subsp.  
*largum*  
9107<sup>T</sup> ←IFO 15152
- Kibdelosporangium philippinense**  
9918<sup>T</sup> ←ATCC 49844
- Kiloniella laminariae**  
14845<sup>T</sup> ←J. Wiese LD81
- Kineococcus aurantiacus**  
10180<sup>T</sup> ←IFO 15268
- Kineococcus gynurae**  
15972<sup>T</sup> ←TISTR 1856
- Kineococcus radiotolerans**  
12686<sup>T</sup> ←CIP 107704
- Kineococcus rhizosphaerae**  
16541<sup>T</sup> ←DSM 19711
- Kineococcus xinjiangensis**  
16219<sup>T</sup> ←KCTC 19474
- Kineosphera limosa**  
11399<sup>T</sup> ←S. Hanada 225 (=strain Lpha5)
- Kineosporia aurantiaca**  
3230<sup>T</sup> ←KCC A-0230
- 9955 ←T. Itoh I-225
- 9958 ←T. Itoh I-279
- Kineosporia mesophila**  
16902<sup>T</sup> ←DSM 45271
- Kineosporia mikuniensis**  
9961<sup>T</sup> ←T. Itoh I-463
- Kineosporia rhamnosa**  
9953 ←T. Itoh I-113
- 9954<sup>T</sup> ←T. Itoh I-132
- Kineosporia rhizophila**  
9960<sup>T</sup> ←T. Itoh I-449
- 9962 ←T. Itoh I-468
- Kineosporia succinea**  
9952 ←T. Itoh I-092
- 9956 ←T. Itoh I-229
- 9957<sup>T</sup> ←T. Itoh I-273
- 9959 ←T. Itoh I-281
- Kistimonas asteriae**  
15607<sup>T</sup> ←H. C. Kwon KMD 001
- Kitasatospora arboriphila**  
13002<sup>T</sup> ←I. Groth 2291-120 (=HKI 0189)
- Kitasatospora atroaurantiaca**  
3337<sup>T</sup> ←A. Shimazu K55-G32
- Kitasatospora azatica**  
8798<sup>T</sup> ←IFO 13803
- Kitasatospora cineracea**  
10915<sup>T</sup> ←S. Ōmura SK-3255
- Kitasatospora cochleata**  
8799<sup>T</sup> ←IFO 14768
- Kitasatospora cystarginea**  
7356<sup>T</sup> ←H. Kusakabe RK-419
- Kitasatospora gansuensis**  
13003<sup>T</sup> ←I. Groth 2050-015 (=HKI 0314)
- Kitasatospora griseola**  
3339<sup>T</sup> ←S. Ōmura AM-9660
- Kitasatospora kazusensis**  
14560<sup>T</sup> ←IAM 15279
- Kitasatospora kifunensis**  
9081<sup>T</sup> ←Fujisawa Pharm. Co., Ltd.  
9482
- 13007 ←I. Groth 2122-022 (=HKI 0316)
- Kitasatospora mediocidica**
- 9868<sup>T</sup> ←NRRL B-16109
- Kitasatospora niigatensis**  
10916<sup>T</sup> ←S. Ōmura SK-3406
- Kitasatospora nipponensis**  
13004<sup>T</sup> ←I. Groth 2148-013 (=HKI 0315)
- Kitasatospora paracochleata**  
8800<sup>T</sup> ←IFO 14769
- Kitasatospora paranensis**  
13005<sup>T</sup> ←I. Groth 2292-041 (=HKI 0190)
- Kitasatospora phosalacinea**  
3340<sup>T</sup> ←S. Ōmura KA-338
- 3344 ←J. Ruan 4-4C
- 12415 ←NBRC 14627
- Kitasatospora putterlickiae**  
12393<sup>T</sup> ←I. Groth F18-98 (=Uni Bonn 18)
- Kitasatospora saccharophila**  
14559<sup>T</sup> ←IAM 15278
- Kitasatospora sampliensis**  
13010<sup>T</sup> ←S. Mayilraj VT-36
- Kitasatospora setae**  
3304<sup>T</sup> ←KCC A-0304
- Kitasatospora terrestris**  
13006<sup>T</sup> ←I. Groth 2293-012 (=HKI 0186)
- Kitasatospora viridis**  
14111<sup>T</sup> ←CGMCC 4.1878
- Klebsiella oxytoca**  
1665<sup>T</sup> ←Y. Kosako 82060
- Klebsiella pneumoniae** subsp. *ozaenae*  
1663<sup>T</sup> ←Y. Kosako 82058
- Klebsiella pneumoniae** subsp. *pneumoniae*  
1662<sup>T</sup> ←Y. Kosako 82057
- 20034 ←IAM 1063
- 20051 ←IAM 1102
- 20348 ←IAM 12015
- 20507 ←IAM 12351
- 20694 ←IAM 12626
- Klebsiella pneumoniae** subsp. *rhinoscleromatis*  
1664<sup>T</sup> ←R. Sakazaki 191
- Klebsiella singaporesis**  
12419<sup>T</sup> ←X. Li LX3
- Klebsiella** sp.  
14683 ←K. Minamisawa B43
- Klugiella xanthotipulae**  
16542<sup>T</sup> ←DSM 18031
- Kluyvera ascorbata**  
1681 ←Y. Kosako
- 21070<sup>T</sup> ←IAM 14203
- Kluyvera cryocrescens**  
1682 ←Y. Kosako
- 7580<sup>T</sup> ←R. Sakazaki 163
- Kluyvera georgiana**  
16938<sup>T</sup> ←DSM 9409
- Kluyvera intermedia**  
1238<sup>T</sup> ←R. Sakazaki 256
- Knoellia aerolata**  
16377<sup>T</sup> ←KACC 20583
- Knoellia sinensis**  
11536<sup>T</sup> ←I. Groth HKI 0119
- Knoellia subterranea**  
11537<sup>T</sup> ←I. Groth HKI 0120
- Kocuria aegyptia**  
14735<sup>T</sup> ←CIP 107966
- Kocuria atrinae**  
15914<sup>T</sup> ←J.-W. Bae P30
- Kocuria carniphila**  
14118<sup>T</sup> ←CCM 132
- Kocuria flava**  
15621<sup>T</sup> ←KCTC 19306
- Kocuria himachalensis**  
13326<sup>T</sup> ←S. Mayilraj K07-05
- Kocuria koreensis**  
15915<sup>T</sup> ←J.-W. Bae P31
- Kocuria kristinae**  
7237<sup>T</sup> ←GIFU 9131
- 21308 ←IAM 14775
- Kocuria marina**  
13363<sup>T</sup> ←KCTC 9943
- Kocuria palustris**  
11652<sup>T</sup> ←IFO 16318
- Kocuria polaris**  
12076<sup>T</sup> ←MTCC 3702
- Kocuria rhizophila**  
11653<sup>T</sup> ←IFO 16319
- 20050 ←IAM 1099
- Kocuria rosea**  
11614<sup>T</sup> ←CCM 679
- 20141 ←IAM 1295
- 20437 ←IAM 12147
- 20438 ←IAM 12148
- 21325 ←IAM 14819
- Kocuria salsicia**  
16361<sup>T</sup> ←J.-W. Bae 104
- Kocuria** sp.  
21349 ←IAM 14843
- 21350 ←IAM 14844
- Kocuria turfanensis**  
15622<sup>T</sup> ←KCTC 19307
- Kocuria varians**  
2396 ←CCM 3316
- 7238<sup>T</sup> ←GIFU 9844
- 20145 ←IAM 1314
- 20150 ←IAM 1392
- 20155 ←IAM 1408
- 20436 ←IAM 12146
- Kofleria flava**  
12632<sup>T</sup> ←DSM 14601
- Kordiimonas gwangyangensis**  
12864<sup>T</sup> ←K. K. Kwon and S.-J. Kim GW14-5
- Kordiimonas lacus**  
16261<sup>T</sup> ←X.-W. Xu S3-22
- Koreibacter algae**  
17443<sup>T</sup> ←S. D. Lee DSW-2
- Kosmotoga arenicorallina**  
15790<sup>T</sup> ←T. Nunoura S304
- Kozakia baliensis**  
11301<sup>T</sup> ←NRIC 0488
- Krasilnikovia cinnamomea**  
13252<sup>T</sup> ←I. Ara 3-54(41)
- Kribbella alba**  
14306<sup>T</sup> ←DSM 15500
- Kribbella aluminosa**  
14599<sup>T</sup> ←I. Groth 2423-004 (=HKI 0478)
- Kribbella antibiotica**  
13523<sup>T</sup> ←DSM 15501

<i>Kribbella catacumbae</i>	3137 <sup>T</sup> ←KCC A-0137	15950 <sup>T</sup> ←LMG 22111
14968 <sup>T</sup> ←DSM 19601	3214 <sup>T</sup> ←KCC A-0214	<i>Lactobacillus apodemi</i>
<i>Kribbella flava</i>	3215 ←KCC A-0215	16172 <sup>T</sup> ←CIP 108913
10339 <sup>T</sup> ←KCTC 9580	3216 ←KCC A-0216	<i>Lactobacillus aquaticus</i>
<i>Kribbella ginsengisoli</i>	3217 ←KCC A-0217	16869 <sup>T</sup> ←CECT 7355
16928 <sup>T</sup> ←W.-T. Im Gsoil 001	8040 ←CCRC 13302	<i>Lactobacillus aviarius</i> subsp. <i>araffinosus</i>
<i>Kribbella hippodromi</i>	<i>Lacinutrix algicola</i>	5667 <sup>T</sup> ←T. Fujisawa ML 2
15572 <sup>T</sup> ←DSM 19227	13825 <sup>T</sup> ←K. K. Kwon AKS293	<i>Lactobacillus aviarius</i> subsp. <i>aviarius</i>
<i>Kribbella jejuensis</i>	<i>Lacinutrix mariniflava</i>	5666 <sup>T</sup> ←T. Fujisawa 75
12204 <sup>T</sup> ←J. Song HD9	13824 <sup>T</sup> ←K. K. Kwon AKS432	<i>Lactobacillus bifermentans</i>
<i>Kribbella karoonensis</i>	<i>Lactobacillus acetotolerans</i>	1094 <sup>T</sup> ←T. Mitsuoka S8-13
14304 <sup>T</sup> ←DSM 17344	3825 <sup>T</sup> ←E. Entani NBI 3014	<i>Lactobacillus bobalius</i>
<i>Kribbella koreensis</i>	9904 ←E. Entani NBI 3021	16180 <sup>T</sup> ←DSM 19674
10977 <sup>T</sup> ←S.-O. Kang LM 161	<i>Lactobacillus acidifarinae</i>	<i>Lactobacillus brevis</i>
<i>Kribbella lupini</i>	15949 <sup>T</sup> ←LMG 22200	1059 <sup>T</sup> ←T. Mitsuoka S2-46
14303 <sup>T</sup> ←DSM 16683	<i>Lactobacillus acidipiscis</i>	1061 ←T. Mitsuoka S2-48
<i>Kribbella sancticallisti</i>	10692 <sup>T</sup> ←S. Tanasupawat FS60-1	1065 ←T. Mitsuoka S2-50
14969 <sup>T</sup> ←DSM 19602	10693 ←S. Tanasupawat FS111	1066 ←T. Mitsuoka S2-52
<i>Kribbella sandramycini</i>	11551 ←CIP 106393	1170 ←T. Mitsuoka S8-64
10340 <sup>T</sup> ←KCTC 9609	<i>Lactobacillus acidophilus</i>	1559 ←ATCC 8287
<i>Kribbella solani</i>	1021 ←T. Mitsuoka S1-64	17312 ←C. Arakawa KB290
12205 <sup>T</sup> ←J. Song DSA1	1023 ←T. Mitsuoka S1-68	20148 ←IAM 1318
<i>Kribbella swartbergensis</i>	1028 ←T. Mitsuoka S1-76	<i>Lactobacillus buchneri</i>
14305 <sup>T</sup> ←DSM 17345	1033 ←T. Mitsuoka PN-I-9	1068 ←T. Mitsuoka S2-56
<i>Kribbella yunnanensis</i>	1034 ←T. Mitsuoka Kd-16-6	1069 ←T. Mitsuoka S2-57
14307 <sup>T</sup> ←DSM 15499	1035 ←T. Mitsuoka PNE-5-3	1115 <sup>T</sup> ←ATCC 4005
<i>Kribbia dieselivorans</i>	1132 <sup>T</sup> ←ATCC 4356	8609 ←M. Seki M38
13585 <sup>T</sup> ←J.-H. Yoon N113	1229 ←T. Mitsuoka S1-73	<i>Lactobacillus camelliae</i>
<i>Kurthia gibsonii</i>	2121 ←ATCC 314	13995 <sup>T</sup> ←S. Tanasupawat MCH3-1
6105 <sup>T</sup> ←R. M. Keddie K3	2124 ←DSM 20242	<i>Lactobacillus capillatus</i>
6106 ←R. M. Keddie K50	5342 ←ATCC 4357	15044 <sup>T</sup> ←K. Watanabe YIT 11306
6107 ←R. M. Keddie K69	11047 ←T. Itoh LA67	<i>Lactobacillus casei</i>
6108 ←R. M. Keddie K75	20315 ←IAM 10074	1134 <sup>T</sup> ←ATCC 393
<i>Kurthia sibirica</i>	<i>Lactobacillus agilis</i>	2120 ←ATCC 4913
8563 <sup>T</sup> ←CCM 3477	1048 ←T. Mitsuoka ChN-4-2-6	8129 ←NCFB 173
<i>Kurthia zoppii</i>	1049 ←T. Mitsuoka PNB-1-16	20024 ←IAM 1045
6101 <sup>T</sup> ←R. M. Keddie K5	1050 ←T. Mitsuoka ChN-I-2-6	20304 ←IAM 10062
6102 ←R. M. Keddie K44	1187 <sup>T</sup> ←DSM 20509	<i>Lactobacillus casei</i> subsp. <i>casei</i>
6103 ←R. M. Keddie K76	<i>Lactobacillus algidus</i>	8601 ←M. Seki M26
<i>Kushneria marisflavi</i>	10491 <sup>T</sup> ←Y. Kato M6A9	8608 ←M. Seki M34
10873 <sup>T</sup> ←Y.-H. Park SW32	10492 ←Y. Kato M6A19	8615 ←M. Seki M45
<i>Kutzneria albida</i>	10493 ←Y. Kato M6A40	8621 ←M. Seki M53
3240 <sup>T</sup> ←KCC A-0240	<i>Lactobacillus alimentarius</i>	8648 ←M. Seki M83
<i>Kutzneria kofuensis</i>	1095 <sup>T</sup> ←T. Mitsuoka S8-17	<i>Lactobacillus ceti</i>
3157 <sup>T</sup> ←KCC A-0157	<i>Lactobacillus amyloyticus</i>	15609 <sup>T</sup> ←CCUG 53626
<i>Kutzneria viridogrisea</i>	12529 <sup>T</sup> ←LMG 18796	<i>Lactobacillus coleohominis</i>
3282 <sup>T</sup> ←KCC A-0282	<i>Lactobacillus amylophilus</i>	11550 <sup>T</sup> ←CIP 106820
<i>Kytococcus aerolatus</i>	1125 <sup>T</sup> ←NRRL B-4437	<i>Lactobacillus collinoides</i>
17971 <sup>T</sup> ←CCM 7639	<i>Lactobacillus amylotrophicus</i>	1123 <sup>T</sup> ←ATCC 27612
<i>Kytococcus schroeteri</i>	1124 <sup>T</sup> ←NRRL B-4436	<i>Lactobacillus composti</i>
12136 <sup>T</sup> ←CCM 4918	<i>Lactobacillus amylovorus</i>	14202 <sup>T</sup> ←A. Endo NRIC 0689
<i>Kytococcus sedentarius</i>	1029 ←T. Mitsuoka PN-RI-2-3	<i>Lactobacillus concavus</i>
11482 <sup>T</sup> ←CIP 81.72	1032 ←T. Mitsuoka PN-21-3-4	14153 <sup>T</sup> ←AS 1.5017
<i>Labedella gwakjiensis</i>	1126 <sup>T</sup> ←NRRL B-4540	<i>Lactobacillus coryniformis</i> subsp. <i>coryniformis</i>
14008 <sup>T</sup> ←S. D. Lee KSW2-17	1127 ←NRRL B-4542	1098 ←T. Mitsuoka S8-26
<i>Labrenzia aggregata</i>	2125 ←DSM 20552	1164 <sup>T</sup> ←T. Mitsuoka S8-10
20685 <sup>T</sup> ←IAM 12614	5807 ←E. Lauer	<i>Lactobacillus coryniformis</i> subsp. <i>torquens</i>
<i>Labrys methylaminiphilus</i>	5809 ←E. Lauer	1099 ←T. Mitsuoka S8-27
21796 <sup>T</sup> ←IAM 15351	5811 ←E. Lauer	1166 <sup>T</sup> ←T. Mitsuoka S8-18
<i>Labrys monachus</i>	8774 ←T. Fujisawa I-39	<i>Lactobacillus crispatus</i>
21795 <sup>T</sup> ←IAM 15350	8775 ←T. Fujisawa I-40	1030 ←T. Mitsuoka S1-81
<i>Laceyella putida</i>	8776 ←T. Fujisawa F81	1185 <sup>T</sup> ←VPI 3199
3213 ←KCC A-0213	10628 ←Y. Oda KN24	2009 ←ATCC 33197
8091 <sup>T</sup> ←NCIMB 12324	<i>Lactobacillus animalis</i>	5806 ←E. Lauer
<i>Laceyella sacchari</i>	5670 <sup>T</sup> ←ATCC 35046	
3135 ←KCC A-0135	<i>Lactobacillus antri</i>	

Animal  
Plant  
Cell  
DNA  
JCM  
Info

5808	←E. Lauer	8600	←M. Seki M25	<i>Lactobacillus frumenti</i>
5810	←E. Lauer	8604	←M. Seki M30	11122 <sup>T</sup> ←M. A. Ehrmann TMW 1.666
8778	←T. Fujisawa F199	8605	←M. Seki M31	<i>Lactobacillus fuchuensis</i>
8779	←T. Fujisawa A269-21	8613	←M. Seki M42	11249 <sup>T</sup> ←Y. Kato B5M10
8780	←T. Fujisawa F3	8614	←M. Seki M43	<i>Lactobacillus gallinarum</i>
8781	←T. Fujisawa F5	8617	←M. Seki M47	1036 ←T. Mitsuoka 4027R
<b><i>Lactobacillus crustorum</i></b>		8618	←M. Seki M48	2011 <sup>T</sup> ←ATCC 33199
15951 <sup>T</sup> ←LMG 23699		8619	←M. Seki M49	8782 ←T. Fujisawa T-50
<b><i>Lactobacillus curvatus</i></b>		8623	←M. Seki M56	8783 ←T. Fujisawa F41
1091 ←T. Mitsuoka S8-1		8624	←M. Seki M57	8784 ←T. Fujisawa TFC1
1096 <sup>T</sup> ←T. Mitsuoka S8-19		8625	←M. Seki M58	8785 ←T. Fujisawa TFC2
<b><i>Lactobacillus delbrueckii</i></b>		8626	←M. Seki M59	8786 ←T. Fujisawa TFC3
1014 ←T. Mitsuoka S1-46		8627	←M. Seki M60	<b><i>Lactobacillus gasseri</i></b>
<b><i>Lactobacillus delbrueckii</i></b> subsp.		8628	←M. Seki M61	1017 ←T. Mitsuoka S1-56
<b><i>bulgaricus</i></b>		8629	←M. Seki M62	1019 ←T. Mitsuoka S1-58
1001 ←T. Mitsuoka S1-1		8630	←M. Seki M63	( <i>Lactobacillus acidophilus</i> )
1002 <sup>T</sup> ←T. Mitsuoka S1-3		8631	←M. Seki M64	1025 ←T. Mitsuoka S1-71
11037 ←CIP 71.36		8632	←M. Seki M65	1026 ←T. Mitsuoka S1-72
11038 ←CIP 55.1		8634	←M. Seki M67	1031 ←T. Mitsuoka S1-82
20398 ←IAM 12091		8635	←M. Seki M69	1130 ←DSM 20077
<b><i>Lactobacillus delbrueckii</i></b> subsp.		8636	←M. Seki M70	1131 <sup>T</sup> ←DSM 20243
<b><i>delbrueckii</i></b>		8638	←M. Seki M73	5343 ←ATCC 4963 ( <i>Lactobacillus</i> sp.)
1012 <sup>T</sup> ←T. Mitsuoka S1-42		8639	←M. Seki M74	5344 ←ATCC 9857
20075 ←IAM 1149		8640	←M. Seki M75	5813 ←T. Mitsuoka I-36-1
20088 ←IAM 1174		8641	←M. Seki M76	5814 ←T. Mitsuoka CHN-22-1-10
20100 ←IAM 1197		8642	←M. Seki M77	8787 ←T. Fujisawa F191
20300 ←IAM 1928		8643	←M. Seki M78	8788 ←T. Fujisawa F192
<b><i>Lactobacillus delbrueckii</i></b> subsp.		8645	←M. Seki M80	8789 ←T. Fujisawa F193
<b><i>indicus</i></b>		8651	←M. Seki M86	8790 ←T. Fujisawa F194
15610 <sup>T</sup> ←CCUG 51390		8654	←M. Seki M89	11046 ←T. Itoh LA158
<b><i>Lactobacillus delbrueckii</i></b> subsp.		8656	←M. Seki M91	11657 ←T. Saito LA39
<b><i>lactis</i></b>		8657	←M. Seki M92	<b><i>Lactobacillus gastricus</i></b>
1010 ←T. Mitsuoka S1-31		14108 <sup>T</sup> ←A. Endo NRIC 0676	15952 <sup>T</sup> ←LMG 22113	
1016 ←T. Mitsuoka S1-54		<b><i>Lactobacillus fermentum</i></b>	<b><i>Lactobacillus ghanensis</i></b>	
1063 ←T. Mitsuoka S1-33		1137 ←ATCC 11739	8622 ←M. Seki M55	
1105 ←T. Mitsuoka S1-28		1173 <sup>T</sup> ←ATCC 14931	8650 ←M. Seki M85	
1106 ←T. Mitsuoka S1-29		1560 ←ATCC 9338	15611 <sup>T</sup> ←CCUG 53453	
1107 ←T. Mitsuoka S1-36		2766 ←M. Seki M5	<b><i>Lactobacillus graminis</i></b>	
1148 ←ATCC 4797		2767 ←M. Seki M21	9503 <sup>T</sup> ←NRIC 1775	
1248 <sup>T</sup> ←ATCC 12315		8581 ←M. Seki M1	<b><i>Lactobacillus hammesii</i></b>	
1557 ←ATCC 7830		8587 ←M. Seki M11	16170 <sup>T</sup> ←CIP 108387	
11036 ←CIP 57.5		8591 ←M. Seki M15	<b><i>Lactobacillus hamsteri</i></b>	
<b><i>Lactobacillus dextrinicus</i></b>		8592 ←M. Seki M16	6256 <sup>T</sup> ←T. Fujisawa Ha5F1	
5887 <sup>T</sup> ←ATCC 33087		8593 ←M. Seki M17	<b><i>Lactobacillus harbinensis</i></b>	
<b><i>Lactobacillus diolivorans</i></b>		8594 ←M. Seki M18	16178 <sup>T</sup> ←DSM 16991	
12183 <sup>T</sup> ←LMG 19667		8595 ←M. Seki M19	<b><i>Lactobacillus hayakitensis</i></b>	
<b><i>Lactobacillus equi</i></b>		8596 ←M. Seki M20	14209 <sup>T</sup> ←H. Morita KBL13	
10991 <sup>T</sup> ←M. Morotomi YIT 0455		8597 ←M. Seki M22	<b><i>Lactobacillus helveticus</i></b>	
10992 ←M. Morotomi YIT 0456		8606 ←M. Seki M32	1003 ←T. Mitsuoka S1-12	
10993 ←M. Morotomi YIT 0457		8607 ←M. Seki M33	(" <i>Lactobacillus jugurti</i> ")	
<b><i>Lactobacillus equicursoris</i></b>		8644 ←M. Seki M79	1004 ←T. Mitsuoka S1-15	
14600 <sup>T</sup> ←H. Morita DI 70		12530 ←LMG 9846	1005 ←T. Mitsuoka S1-16	
<b><i>Lactobacillus equigenerosi</i></b>		20308 ←IAM 10066	(" <i>Lactobacillus jugurti</i> ")	
14505 <sup>T</sup> ←A. Endo NRIC 0697		<b><i>Lactobacillus floricala</i></b>	1006 ←T. Mitsuoka S1-18	
<b><i>Lactobacillus farcininis</i></b>		16512 <sup>T</sup> ←S. Kawasaki Ryu1-2	(" <i>Lactobacillus jugurti</i> ")	
1092 ←T. Mitsuoka S8-2		16513 ←S. Kawasaki Azal-1	1007 ←T. Mitsuoka S1-20	
1097 <sup>T</sup> ←T. Mitsuoka S8-22		16514 ←S. Kawasaki Nog8-1	1008 ←T. Mitsuoka S1-22	
<b><i>Lactobacillus farraginis</i></b>		16515 ←S. Kawasaki Gon2-9	1062 ←T. Mitsuoka S1-21	
8582 ←M. Seki M2		16516 ←S. Kawasaki Ryu4-3	1103 ←T. Mitsuoka S1-5	
8583 ←M. Seki M3		<b><i>Lactobacillus florum</i></b>	(" <i>Lactobacillus jugurti</i> ")	
8584 ←M. Seki M7		16035 <sup>T</sup> ←A. Endo F9-1	1120 <sup>T</sup> ←ATCC 15009	
8585 ←M. Seki M8		16036 ←A. Endo F9-2	1554 ←ATCC 12046	
8586 ←M. Seki M10		16037 ←A. Endo F17	20023 ←IAM 1042	
8588 ←M. Seki M12		<b><i>Lactobacillus fructivorans</i></b>	20397 ←IAM 12090	
8589 ←M. Seki M13		1117 <sup>T</sup> ←ATCC 8288	<b><i>Lactobacillus hilgardii</i></b>	
8590 ←M. Seki M14		1198 ←ATCC 15435	1155 <sup>T</sup> ←ATCC 8290	
8598 ←M. Seki M23				
8599 ←M. Seki M24				

8620	←M. Seki M50	
<i>Lactobacillus homohiochii</i>		
1199 <sup>T</sup>	←ATCC 15434	
7793 <sup>T</sup>	←DSM 20571	
<i>Lactobacillus hordei</i>		
16179 <sup>T</sup>	←DSM 19519	
<i>Lactobacillus iners</i>		
12513 <sup>T</sup>	←CIP 105923	
<i>Lactobacillus ingluviei</i>		
11423	←P. Niamsup G12	
11424	←P. Niamsup G22	
11425	←P. Niamsup G35	
11426	←P. Niamsup G43	
11427	←P. Niamsup G44	
12531 <sup>T</sup>	←LMG 20380	
<i>Lactobacillus intestinalis</i>		
7548 <sup>T</sup>	←T. Fujisawa Th 4	
" <i>Lactobacillus japonicus</i> "		
20310	←IAM 10068	
<i>Lactobacillus jensenii</i>		
11034	←CIP 69.20	
11035	←CIP 69.18	
15953 <sup>T</sup>	←LMG 6414	
<i>Lactobacillus johnsonii</i>		
1022	←T. Mitsuoka S1-65	
1101	←T. Mitsuoka S8-36	
2012 <sup>T</sup>	←ATCC 33200	
2122	←DSM 20553	
5812	←T. Mitsuoka	
8791	←T. Fujisawa 5F49	
8792	←T. Fujisawa F133	
8793	←T. Fujisawa PN-Ri-2-4	
8794	←T. Fujisawa	
<i>Lactobacillus kalixensis</i>		
15954 <sup>T</sup>	←LMG 22115	
<i>Lactobacillus kefiranofaciens</i> subsp. <i>kefiranofaciens</i>		
6985 <sup>T</sup>	←T. Fujisawa	
7446	←T. Fujisawa	
<i>Lactobacillus kefiranofaciens</i> subsp. <i>kefirgranum</i>		
8570	←S. Takizawa GCL 1702	
8571	←S. Takizawa GCL 1704	
8572 <sup>T</sup>	←S. Takizawa GCL 1701	
8940	←S. Takizawa GCL1703	
8941	←S. Takizawa GCL1705	
8942	←S. Takizawa GCL1706	
8943	←S. Takizawa GCL1707	
8944	←S. Takizawa GCL1708	
8945	←S. Takizawa GCL1709	
8946	←S. Takizawa GCL1710	
8947	←S. Takizawa GCL1711	
8948	←S. Takizawa GCL1712	
<i>Lactobacillus kefiri</i>		
5818 <sup>T</sup>	←DSM 20587	
<i>Lactobacillus kimchicus</i>		
15530 <sup>T</sup>	←D.-C. Yang DCY51	
<i>Lactobacillus kimchii</i>		
10707 <sup>T</sup>	←J.-S. Ahn MT-1077	
<i>Lactobacillus kisonensis</i>		
15041 <sup>T</sup>	←K. Watanabe YIT 11168	
<i>Lactobacillus kitasatonis</i>		
1038	←T. Mitsuoka Ch-501-42	
1039 <sup>T</sup>	←T. Mitsuoka Ch-J-2-11	
<i>Lactobacillus koreensis</i>		
16448 <sup>T</sup>	←D.-C. Yang DCY50 (=N16)	
<i>Lactobacillus kunkeei</i>		
16173 <sup>T</sup>	←DSM 12361	
<i>Lactobacillus lindneri</i>		
11027 <sup>T</sup>	←CIP 102983	
<i>Lactobacillus malefermentans</i>		
1167	←ATCC 11306	
1189	←T. Mitsuoka S8-51	
12497 <sup>T</sup>	←NBRC 15905	
<i>Lactobacillus mali</i>		
1116 <sup>T</sup>	←ATCC 27053	
1153	←ATCC 27304	
2773	←M. Seki M29	
2775	←M. Seki M71	
3821	←ATCC 27054	
3822	←ATCC 27055	
8611	←M. Seki M40	
8612	←M. Seki M41	
<i>Lactobacillus manihotivorans</i>		
12514 <sup>T</sup>	←CIP 105851	
<i>Lactobacillus mindensis</i>		
12532 <sup>T</sup>	←LMG 21508	
<i>Lactobacillus mucosae</i>		
12515 <sup>T</sup>	←CIP 106485	
<i>Lactobacillus murinus</i>		
1717 <sup>T</sup>	←D. Hemme 313	
<i>Lactobacillus nagelii</i>		
12492 <sup>T</sup>	←CCUG 43575	
<i>Lactobacillus namurensis</i>		
15612 <sup>T</sup>	←CCUG 52843	
<i>Lactobacillus nantensis</i>		
16171 <sup>T</sup>	←CIP 108546	
<i>Lactobacillus nodensis</i>		
14932 <sup>T</sup>	←T. Kashiwagi iz4b-1	
<i>Lactobacillus odoratitofui</i>		
15043 <sup>T</sup>	←K. Watanabe YIT 11304	
<i>Lactobacillus oligofermentans</i>		
16175 <sup>T</sup>	←DSM 15707	
<i>Lactobacillus oris</i>		
11028 <sup>T</sup>	←CIP 105162	
<i>Lactobacillus otakiensis</i>		
15040 <sup>T</sup>	←K. Watanabe YIT 11163	
<i>Lactobacillus ozensis</i>		
17196 <sup>T</sup>	←S. Kawasaki Mizu2-1	
17197	←S. Kawasaki Gon2-7	
17198	←S. Kawasaki Koba6-1	
17199	←S. Kawasaki Koyu2-2	
17200	←S. Kawasaki Miya2-7	
<i>Lactobacillus panis</i>		
11053 <sup>T</sup>	←DSM 6035	
<i>Lactobacillus pantheris</i>		
12539 <sup>T</sup>	←AS 1.2826	
<i>Lactobacillus parabuchneri</i>		
1162	←ATCC 11307 ( <i>Lactobacillus buchneri</i> )	
12493 <sup>T</sup>	←CCUG 32261	
12511	←CIP 106749	
<i>Lactobacillus paracasei</i> subsp. <i>paracasei</i>		
1053	←T. Mitsuoka S2-5	
1109	←T. Mitsuoka S2-7	
1111	←T. Mitsuoka S2-19	
1133	←ATCC 27216	
1161	←T. Mitsuoka S8-11	
1163	←T. Mitsuoka S8-6	
1172	←T. Mitsuoka S8-3	
1181	←T. Mitsuoka S8-7	
1556	←ATCC 335	
2123	←DSM 20356	
2769	←M. Seki M44	
8130 <sup>T</sup>	←NCFB 151	
8131	←NCFB 205	
8132	←NCFB 327	
8133	←NCFB 1202	
<i>Lactobacillus paracasei</i> subsp. <i>tolerans</i>		
1171 <sup>T</sup>	←T. Mitsuoka S8-12	
<i>Lactobacillus paracollinoides</i>		
1113	←DSM 20197	
11969 <sup>T</sup>	←K. Suzuki LA2	
15728	←K. Suzuki LA3	
15729	←K. Suzuki LA4	
15730	←K. Suzuki LA7	
15731	←K. Suzuki LA8	
<i>Lactobacillus parafarraginis</i>		
14109 <sup>T</sup>	←A. Endo NRIC 0677	
<i>Lactobacillus parakefiri</i>		
8573 <sup>T</sup>	←S. Takizawa GCL 1731	
8574	←S. Takizawa GCL 1732	
<i>Lactobacillus paralimentarius</i>		
10415 <sup>T</sup>	←Y. Cai TB1	
10618	←Y. Cai TB110	
10619	←Y. Cai TB56	
10620	←Y. Cai TB30	
10621	←Y. Cai TB16	
<i>Lactobacillus paraplanitarum</i>		
12533 <sup>T</sup>	←LMG 16673	
<i>Lactobacillus pentosus</i>		
1558 <sup>T</sup>	←ATCC 8041	
8333	←S. Tanasupawat F31-5	
8334	←S. Tanasupawat F36-1	
8335	←S. Tanasupawat FN1-3	
8336	←S. Tanasupawat P7-1	
8337	←S. Tanasupawat F21-1	
8338	←S. Tanasupawat A330	
8339	←S. Tanasupawat F4-1	
8340	←S. Tanasupawat FP2-1	
<i>Lactobacillus perolens</i>		
8646	←M. Seki M81	
8647	←M. Seki M82	
12534 <sup>T</sup>	←LMG 18936	
<i>Lactobacillus plantarum</i>		
1100	←T. Mitsuoka S8-28	
11125	←L. K. Nakamura NRRL B-14768	
20110	←IAM 1216	
<i>Lactobacillus plantarum</i> subsp. <i>argentoratensis</i>		
16169 <sup>T</sup>	←CIP 108320	
<i>Lactobacillus plantarum</i> subsp. <i>plantarum</i>		
1055	←T. Mitsuoka S2-26	
1057	←T. Mitsuoka S2-35	
1149 <sup>T</sup>	←ATCC 14917	
1550	←ATCC 10012	
1551	←ATCC 10241	
6651	←T. Mitsuoka S2-43	
8341	←S. Tanasupawat F7-1	
8342	←S. Tanasupawat FP48-1	
8343	←S. Tanasupawat F35-1	
8344	←S. Tanasupawat P30-1	
8345	←S. Tanasupawat P17	
8346	←S. Tanasupawat F10-1	
8347	←S. Tanasupawat F2-1	
8348	←S. Tanasupawat KM1-1	

13898	←N. Takei NLBC1	F3-20	5869	←K. Suzuki
13899	←N. Takei NLBC2	12428	7524	←IFO 13121
<b><i>Lactobacillus pontis</i></b>		B2-22	7525	←IFO 13119
11029	←CIP 104230	12429	7527	←IFO 13118
11030	←CIP 104231	B2-20	8616	←M. Seki M46
11051 <sup>T</sup>	←DSM 8475	12430	8633	←M. Seki M66
<b><i>Lactobacillus psittaci</i></b>		B2-12	8637	←M. Seki M72
11552 <sup>T</sup>	←CIP 106492	12431	8653	←M. Seki M88
<b><i>Lactobacillus rapi</i></b>		D3-3	9717	←T. Kaneko
15042 <sup>T</sup>	←K. Watanabe YIT 11204	12432	9721	←T. Kaneko
<b><i>Lactobacillus rennini</i></b>		D3-5	11039	←CIP 53.165
14279 <sup>T</sup>	←CECT 5922	12433	12512	←CIP 106679
<b><i>Lactobacillus reuteri</i></b>		E3-13	20043	←IAM 1085
1081	←T. Mitsuoka T-51	12434	20061	←IAM 1120
1084	←T. Mitsuoka T-126	C2-38	20147	←IAM 1317
1112 <sup>T</sup>	←DSM 20016	12435	20316	←IAM 10075
8652	←M. Seki M87	C2-40	20318	←IAM 10077
<b><i>Lactobacillus rhamnosus</i></b>		12436	<b><i>Lactobacillus spicheri</i></b>	
1136 <sup>T</sup>	←ATCC 7469	C2-41	15956 <sup>T</sup>	←LMG 21871
1165	←T. Mitsuoka S8-8	12437	<b><i>Lactobacillus sucicola</i></b>	
1553	←ATCC 11443	D3-6	15457 <sup>T</sup>	←T. Irisawa NRIC 0736
1561	←ATCC 9595	12438	<b><i>Lactobacillus sueasicus</i></b>	
1563	←ATCC 27773	D3-2	9504 <sup>T</sup>	←NRIC 1637
2771	←M. Seki M35	12439	<b><i>Lactobacillus sunkii</i></b>	
2772	←M. Seki M52	D3-1	15039 <sup>T</sup>	←K. Watanabe YIT 11161
8134	←NCFB 244	12440	<b><i>Lactobacillus thailandensis</i></b>	
8135	←NCFB 252	C2-46	13996 <sup>T</sup>	←S. Tanasupawat MCH5-2
8136	←NCFB 1051	12441	<b><i>Lactobacillus ultunensis</i></b>	
8602	←M. Seki M27	E3-8	16177 <sup>T</sup>	←DSM 16047
8649	←M. Seki M84	12442	<b><i>Lactobacillus uvarum</i></b>	
<b><i>Lactobacillus rossiae</i></b>		F3-23	16870 <sup>T</sup>	←CECT 7335
16176 <sup>T</sup>	←DSM 15814	12443	<b><i>Lactobacillus vaccinostercus</i></b>	
<b><i>Lactobacillus ruminis</i></b>		F3-21	1716 <sup>T</sup>	←M. Kozaki and S. Okada X-94
1152 <sup>T</sup>	←ATCC 27780	12444	12184	←LMG 19193
1182	←T. Mitsuoka S8-20	F3-26	<b><i>Lactobacillus vaginalis</i></b>	
<b><i>Lactobacillus saerimneri</i></b>		<b><i>Lactobacillus satsumensis</i></b>	9505 <sup>T</sup>	←NCTC 12197
15955 <sup>T</sup>	←LMG 22087	12392 <sup>T</sup>	<b><i>Lactobacillus versmoldensis</i></b>	
<b><i>Lactobacillus sakei</i></b> subsp. <i>carnosus</i>		←NRIC 0604	16174 <sup>T</sup>	←DSM 14857
11031 <sup>T</sup>	←CIP 105422	<b><i>Lactobacillus secaliphilus</i></b>	<b><i>Lactobacillus vini</i></b>	
12491	←CCUG 34545 A	15613 <sup>T</sup>	14280 <sup>T</sup>	←CECT 5924
<b><i>Lactobacillus sakei</i></b> subsp. <i>sakei</i>		" <i>Lactobacillus senioris</i> "	<b><i>Lactobacillus zae</i></b>	
1128	←DSM 20494	17472	11302 <sup>T</sup>	←ATCC 15820
1129	←DSM 20269	<b><i>Lactobacillus sharpeae</i></b>	<b><i>Lactobacillus zymae</i></b>	
1157 <sup>T</sup>	←ATCC 15521	1186 <sup>T</sup>	15957 <sup>T</sup>	←LMG 22198
20297	←IAM 1900	<b><i>Lactobacillus siliginis</i></b>	<b><i>Lactococcus chungangensis</i></b>	
<b><i>Lactobacillus salivarius</i></b>		16155 <sup>T</sup>	17100 <sup>T</sup>	←CCUG 55099
1040	←T. Mitsuoka ChN-F-1-6	<b><i>Lactobacillus similis</i></b>	<b><i>Lactococcus fujiensis</i></b>	
1042	←T. Mitsuoka ChN-g-2-13	2765 <sup>T</sup>	16395 <sup>T</sup>	←Y. Cai NJ317
1044	←T. Mitsuoka ChN-10-5-1	←M. Seki M36	16396	←Y. Cai NJ414
1045	←T. Mitsuoka Kd-26-3	Lactobacillus sp.	16397	←Y. Cai NJ415
1046	←T. Mitsuoka PNF-7-6	1013	<b><i>Lactococcus garvieae</i></b>	
1047	←T. Mitsuoka PNF-5-10	1088	8735	←ATCC 49156
1150	←ATCC 11742	1102	10343 <sup>T</sup>	←DSM 20684
1230	←T. Mitsuoka	1177	12256 <sup>T</sup>	←CIP 102507
1231 <sup>T</sup>	←ATCC 11741	1179	<b><i>Lactococcus lactis</i></b> subsp. <i>cremoris</i>	
<b><i>Lactobacillus sanfranciscensis</i></b>		1183	16167 <sup>T</sup>	←CIP 102301
5668 <sup>T</sup>	←DSM 20451	1552	20076	←IAM 1150
9502	←NRIC 1550	1555	<b><i>Lactococcus lactis</i></b> subsp. <i>hordniae</i>	
11032	←CIP 102982	2010	1180 <sup>T</sup>	←T. Mitsuoka S8-66
12424	←M. Kitahara and Y. Benno	2761	11040	←CIP 102974
F3-19		2762	<b><i>Lactococcus lactis</i></b> subsp. <i>lactis</i>	
12425	←M. Kitahara and Y. Benno	2763	1158	←ATCC 15577
F3-17		2764	5805 <sup>T</sup>	←DSM 20481
12426	←M. Kitahara and Y. Benno	2768	7638	←A. Ishizaki IO-1
F3-18		2770	12650	←Y. Hamasaki MCRI 3
12427	←M. Kitahara and Y. Benno	2774	20101	←IAM 1198
		5867		
		5868		

- 20128 ←IAM 1249  
 20312 ←IAM 10070  
 20399 ←IAM 12092  
*Lactococcus piscium*  
 16647<sup>T</sup> ←DSM 6634  
*Lactococcus plantarum*  
 11056<sup>T</sup> ←CIP 102506  
*Lactococcus raffinolactis*  
 5706<sup>T</sup> ←DSM 20443  
*Lactococcus* sp.  
 20060 ←IAM 1119  
*Lampropedia hyalina*  
 21380<sup>T</sup> ←IAM 14890  
 21441 ←IAM 14970  
*Lapillicoccus jejuniensis*  
 15623<sup>T</sup> ←KCTC 19200  
*Leadbetterella byssophila*  
 16389<sup>T</sup> ←KACC 11308  
*Lebetimonas acidiphila*  
 12420<sup>T</sup> ←K. Takai Pd55  
*Lechevalieria aerocolonigenes*  
 4150<sup>T</sup> ←KCC S-0150  
 4614<sup>T</sup> ←KCC S-0614  
*Lechevalieria atacamensis*  
 17492<sup>T</sup> ←CGMCC 4.5536  
*Lechevalieria deserti*  
 17493<sup>T</sup> ←CGMCC 4.5535  
*Lechevalieria flava*  
 3296<sup>T</sup> ←KCC A-0296  
*Lechevalieria fradiae*  
 14205<sup>T</sup> ←J. Zhang Z6  
*Lechevalieria roselyniae*  
 17494<sup>T</sup> ←CGMCC 4.5537  
*Lechevalieria xinjiangensis*  
 15473<sup>T</sup> ←CGMCC 4.3525  
*Leclercia adecarboxylata*  
 1667<sup>T</sup> ←ATCC 23216  
 5970 ←Y. Kosako 84521  
 5971 ←Y. Kosako 84538  
*Leeuwenhoekiella marinoflava*  
 8517<sup>T</sup> ←NCIMB 397  
*Legionella anisa*  
 7573<sup>T</sup> ←GIFU 12075  
*Legionella birminghamensis*  
 7559<sup>T</sup> ←GIFU 11749  
*Legionella erythra*  
 7564<sup>T</sup> ←GIFU 11748  
*Legionella hackeliae*  
 7563<sup>T</sup> ←GIFU 10740  
*Legionella impletisoli*  
 13919<sup>T</sup> ←H. Miyamoto OA1-1  
*Legionella israelensis*  
 7560<sup>T</sup> ←GIFU 11367  
*Legionella jamestowniensis*  
 7590<sup>T</sup> ←GIFU 10741  
*Legionella londiniensis*  
 16338 ←K. Furuhata HYKF-90505  
*Legionella parisiensis*  
 7561<sup>T</sup> ←GIFU 11745  
*Legionella pneumophila* subsp.  
*pneumophila*  
 7571<sup>T</sup> ←GIFU 9134  
*Legionella rubrilucens*  
 7565<sup>T</sup> ←GIFU 10743  
*Legionella spiritensis*  
 7562<sup>T</sup> ←GIFU 11199  
*Legionella steigerwaltii*  
 7558<sup>T</sup> ←GIFU 11747  
*Legionella yabuuchiae*  
 14148<sup>T</sup> ←H. Miyamoto OA1-2  
*Leifsonia antarctica*  
 17020<sup>T</sup> ←LMG 24541  
*Leifsonia aquatica*  
 1368<sup>T</sup> ←K. Suzuki CNF 038  
*Leifsonia beigeumensis*  
 16949<sup>T</sup> ←KCTC 19268  
*Leifsonia kafniensis*  
 17021<sup>T</sup> ←LMG 24362  
*Leifsonia kribbensis*  
 16015<sup>T</sup> ←KCTC 19267  
*Leifsonia lichenia*  
 23226<sup>T</sup> ←IAM 15426  
*Leifsonia naganoensis*  
 10592<sup>T</sup> ←T. Yorifuji DB103  
*Leifsonia pindariensis*  
 15132<sup>T</sup> ←S. Shivaji PON10  
*Leifsonia poae*  
 11952<sup>T</sup> ←CIP 106654  
*Leifsonia rubra*  
 15064<sup>T</sup> ←S. Shivaji CMS 76r  
*Leifsonia shinshuensis*  
 10591<sup>T</sup> ←T. Yorifuji DB102  
*Leifsonia soli*  
 15679<sup>T</sup> ←M. Madhaiyan TG-S248  
 15680 ←M. Madhaiyan TG-S240  
*Leifsonia xyli* subsp. *cynodontis*  
 9733<sup>T</sup> ←ICMP 8790  
*Leminorella grimontii*  
 5900 ←Y. Kosako 85566  
 5901 ←Y. Kosako 85567  
 5902<sup>T</sup> ←Y. Kosako 85568  
*Leminorella richardii*  
 5903 ←Y. Kosako 85569  
 5904 ←Y. Kosako 85570  
 5905<sup>T</sup> ←Y. Kosako 85571  
*Lentibacillus halophilus*  
 12149<sup>T</sup> ←S. Tanasupawat PS11-2  
 12150 ←S. Tanasupawat PB7-3  
*Lentibacillus jeotgali*  
 15795<sup>T</sup> ←J.-W. Bae  
*Lentibacillus juripiscarius*  
 12147<sup>T</sup> ←S. Tanasupawat IS40-3  
 12148 ←S. Tanasupawat PS9-2  
*Lentibacillus kapialis*  
 12580<sup>T</sup> ←A. Pakdeeto PN7-6  
 12581 ←A. Pakdeeto PN5-2  
*Lentibacillus salicampi*  
 11462<sup>T</sup> ←Y.-H. Park SF-20  
 12151 ←S. Tanasupawat KS333-3B  
*Lentzea albida*  
 9734 ←S. Ōmura AM-2282  
 10670<sup>T</sup> ←IFO 16102  
*Lentzea albidocapillata*  
 9732<sup>T</sup> ←DSM 44073  
*Lentzea californiensis*  
 11305<sup>T</sup> ←NRRL B-16137  
*Lentzea flaviverrucosa*  
 11373<sup>T</sup> ←Z. Liu AS 4.0578  
*Lentzea kentuckyensis*  
 14913<sup>T</sup> ←DSM 44909  
*Lentzea violacea*  
 10975<sup>T</sup> ←S.-O. Kang LM 036  
*Lentzea waywayandensis*  
 9114<sup>T</sup> ←IFO 14970  
*Leptolinea tardivitalis*  
 12579<sup>T</sup> ←T. Yamada YMTK-2  
*Leptotrichia buccalis*  
 12969<sup>T</sup> ←DSM 1135  
*Leptotrichia goodfellowii*  
 16774<sup>T</sup> ←CCUG 32286  
*Leptotrichia hofstadii*  
 16775<sup>T</sup> ←CCUG 47504  
*Leptotrichia shahii*  
 16776<sup>T</sup> ←CCUG 47503  
*Leptotrichia wadei*  
 16777<sup>T</sup> ←CCUG 47505  
*Leucobacter aerolatus*  
 17972<sup>T</sup> ←CCM 7705  
*Leucobacter albus*  
 12888<sup>T</sup> ←IAM 14851  
*Leucobacter alluvii*  
 14919<sup>T</sup> ←LMG 23117  
*Leucobacter aridicollis*  
 13321<sup>T</sup> ←LMG 22507  
*Leucobacter celer*  
 16465<sup>T</sup> ←J.-W. Bae NAL101  
*Leucobacter chironomi*  
 17022<sup>T</sup> ←LMG 24399  
*Leucobacter chromiireducecens* subsp.  
*chromiireducecens*  
 13322<sup>T</sup> ←LMG 22506  
*Leucobacter chromiireducecens* subsp.  
*solipectus*  
 15573<sup>T</sup> ←DSM 18340  
*Leucobacter chromiiresistens*  
 17813<sup>T</sup> ←DSM 22788  
*Leucobacter iarius*  
 14736<sup>T</sup> ←CIP 108831  
*Leucobacter komagatae*  
 9414<sup>T</sup> ←IFO 15245  
*Leucobacter luti*  
 14920<sup>T</sup> ←LMG 23118  
*Leucobacter salsicius*  
 16362<sup>T</sup> ←J.-W. Bae M1-8  
*Leucobacter tardus*  
 16030<sup>T</sup> ←LMG 24388  
*Leuconostoc carnosum*  
 9695<sup>T</sup> ←NRIC 1722  
*Leuconostoc citreum*  
 9698<sup>T</sup> ←NRIC 1776  
 9699 ←NRIC 1772  
 12651 ←Y. Hamasaki MCRI 4  
 21183 ←IAM 14400  
*Leuconostoc fallax*  
 9694<sup>T</sup> ←NRIC 0210  
*Leuconostoc gasicomitatum*  
 12535<sup>T</sup> ←LMG 18811  
*Leuconostoc gelidum*  
 9697<sup>T</sup> ←NRIC 1778  
 10094 ←T. Itaya 44  
 10095 ←T. Itaya 165  
 10096 ←T. Itaya 103  
 10097 ←T. Itaya 45  
 10098 ←T. Itaya 161  
*Leuconostoc holzapfelii*  
 16942<sup>T</sup> ←LMG 23990  
*Leuconostoc inhae*  
 17833<sup>T</sup> ←NRIC 0562

Animal  
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<i>Leuconostoc lactis</i>	7680 ←CCM 5883	12778 ←N. Kato PM1331
1142 ←ATCC 15520	7682 ←CCM 5885	12779 ←N. Kato PM2411
6123 <sup>T</sup> ←ATCC 19256	7683 ←CCM 5886	<i>Malikia granosa</i>
11052 ←DSM 8581	<i>Listonella pelagia</i>	12706 <sup>T</sup> ←DSM 15619
20305 ←IAM 10063	21191 <sup>T</sup> ←IAM 14408	<i>Malikia spinosa</i>
<i>Leuconostoc mesenteroides</i> subsp.	21192 ←IAM 14409	21400 <sup>T</sup> ←IAM 14918
<i>cremoris</i>	<i>Litoreibacter albidus</i>	<i>Maribacter antarcticus</i>
16943 <sup>T</sup> ←LMG 6909	16493 <sup>T</sup> ←N. Tanaka	15445 <sup>T</sup> ←B. C. Cho CL-AP4
20044 ←IAM 1087	<i>Litoreibacter janthinus</i>	<i>Maribacter arcticus</i>
<i>Leuconostoc mesenteroides</i> subsp.	16492 <sup>T</sup> ←N. Tanaka	14790 <sup>T</sup> ←S. G. Hong KOPRI 20941
<i>dextranicum</i>	<i>Loktanella atrilutea</i>	<i>Maribius pelagius</i>
9700 <sup>T</sup> ←NRIC 1539	23210 <sup>T</sup> ←IAM 15450	14009 <sup>T</sup> ←J.-C. Cho B5-6
20062 ←IAM 1122	<i>Loktanella fryxellensis</i>	<i>Maribius salinus</i>
20317 ←IAM 10076	21635 <sup>T</sup> ←IAM 15180	13037 <sup>T</sup> ←D. H. Choi CL-SP27
<i>Leuconostoc mesenteroides</i> subsp.	<i>Loktanella hongkongensis</i>	<i>Maricaulis maris</i>
<i>mesenteroides</i>	12479 <sup>T</sup> ←S. Lau UST950701-009P	21107 ←IAM 14254
1564 ←ATCC 23386	12480 ←S. Lau UST950701-009W	21108 <sup>T</sup> ←IAM 14255
6124 <sup>T</sup> ←ATCC 8293	<i>Loktanella maricola</i>	<i>Marichromatium bheemicum</i>
9693 ←NRIC 1513	14564 <sup>T</sup> ←Y.-H. Yoon DSW-18	13911 <sup>T</sup> ←Ch. Sasikala JA124
11041 ←CIP 54.170	<i>Loktanella salsilacus</i>	<i>Marihabitans asiaticum</i>
11042 ←CIP 54.171	21636 <sup>T</sup> ←IAM 15181	16543 <sup>T</sup> ←DSM 18935
11043 ←CIP 78.59	<i>Loktanella vestfoldensis</i>	<i>Marinactinospora thermotolerans</i>
11044 ←CIP 102388	21637 <sup>T</sup> ←IAM 15182	16903 <sup>T</sup> ←DSM 45154
12649 ←Y. Hamasaki MCRI 1	<i>Longilinea avoryzae</i>	<i>Marinicella litoralis</i>
20025 ←IAM 1046	13670 <sup>T</sup> ←T. Yamada KOME-1	16154 <sup>T</sup> ←N. Tanaka
" <i>Leuconostoc mesenteroides</i> subsp. <i>sake</i> "	<i>Longispora albida</i>	<i>Marinifilum fragile</i>
20302 ←IAM 10060	11711 <sup>T</sup> ←S. Ōmura K97-0003	15579 <sup>T</sup> ←J. Chun JC2469
20311 ←IAM 10069	<i>Luedemannella flava</i>	<i>Marinilabilia salmonicolor</i>
" <i>Leuconostoc miyukkimchii</i> "	13250 <sup>T</sup> ←I. Ara 7-40(26)	21137 ←IAM 14297
17445 ←C. O. Jeon M2	<i>Luedemannella helvata</i>	21150 <sup>T</sup> ←IAM 14310
<i>Leuconostoc palmae</i>	13249 <sup>T</sup> ←I. Ara 3-9(24)	<i>Marinilactibacillus piezotolerans</i>
16944 <sup>T</sup> ←LMG 24510	13251 ←I. Ara 3-21(27)	12337 <sup>T</sup> ←L. Toffin LT20
<i>Leuconostoc pseudomesenteroides</i>	<i>Lutaonella thermophila</i>	<i>Marinilactibacillus psychrotolerans</i>
9696 <sup>T</sup> ←NRIC 1777	15069 <sup>T</sup> ←C.-C. Young CC-MHSW-2	21451 <sup>T</sup> ←IAM 14980
10351 ←Y. Cai FG13	<i>Luteimonas lutimaris</i>	21452 ←IAM 14981
10352 ←Y. Cai FG16	16916 <sup>T</sup> ←C. O. Jeon G3	21453 ←IAM 14982
10353 ←Y. Cai FG19	<i>Luteimonas marina</i>	21454 ←IAM 14983
10354 ←Y. Cai FG20	12488 <sup>T</sup> ←J. Chun FR1330	21455 ←IAM 14984
10355 ←Y. Cai FG26	<i>Luteococcus japonicus</i>	21456 ←IAM 14985
10356 ←Y. Cai NG6	9415 <sup>T</sup> ←IFO 12422	21457 ←IAM 14986
10357 ←Y. Cai NG7	<i>Luteococcus peritonei</i>	21458 ←IAM 14987
10366 ←Y. Cai NG12	11685 <sup>T</sup> ←CCUG 38120	" <i>Marinitalea sucinacia</i> "
11045 ←CIP 103325	<i>Luteococcus sanguinis</i>	14003 <sup>T</sup> ←J. Chun JC2131
<i>Leuconostoc</i> sp.	12371 <sup>T</sup> ←CCUG 33897	<i>Marinithermus hydrothermalis</i>
21182 ←IAM 14399	<i>Lutibacter litoralis</i>	11576 <sup>T</sup> ←S. Nakagawa T1
21387 ←IAM 14897	13034 <sup>T</sup> ←D. H. Choi CL-TF09	<i>Marinitoga hydrogenotolerans</i>
<i>Levilinea saccharolytica</i>	<i>Lysinibacillus boronitolerans</i>	12826 <sup>T</sup> ←A. Postec AT1271
12578 <sup>T</sup> ←T. Yamada KIBI-1	21713 <sup>T</sup> ←IAM 15262	<i>Marinitoga litoralis</i>
<i>Lewinella agarilytica</i>	<i>Lysinibacillus fusiformis</i>	15581 <sup>T</sup> ←A. Postec MC3
14216 <sup>T</sup> ←S. D. Lee SST-19	12229 <sup>T</sup> ←NRRL NRS-350	<i>Marinitoga okinawensis</i>
<i>Lishizhenia caseinilytica</i>	<i>Lysinibacillus sphaericus</i>	13303 <sup>T</sup> ←T. Nunoura TFS10-5
13821 <sup>T</sup> ←K. W. K. Lau UST040201-001	2502 <sup>T</sup> ←CCM 2120	<i>Marinitoga piezophila</i>
<i>Lishizhenia tianjinensis</i>	20116 ←IAM 1228	11233 <sup>T</sup> ←J.-L. Birrien KA3
15141 <sup>T</sup> ←Z.-P. Liu H6	20140 ←IAM 1286	" <i>Marinobacter alkaliphilus</i> "
<i>Listeria ivanovii</i> subsp. <i>ivanovii</i>	" <i>Lysobacter enzymogenes</i> subsp. <i>cooki</i> "	12291 <sup>T</sup> ←K. Takai ODP1200D-1.5
7681 <sup>T</sup> ←CCM 5884	16562 <sup>T</sup> ←ATCC 29488	12292 ←K. Takai ODP1200D-0.1
<i>Listeria monocytogenes</i>	<i>Lysobacter spongicola</i>	<i>Marinobacter daepoensis</i>
7671 ←CCM 5576	14760 <sup>T</sup> ←M. Uchino	12324 <sup>T</sup> ←J.-H. Yoon SW-156
7672 ←CCM 5577	<i>Magnetospirillum gryphiswaldense</i>	<i>Marinobacter flavimaris</i>
7673 ←CCM 5578	21280 <sup>T</sup> ←IAM 14722	12323 <sup>T</sup> ←J.-H. Yoon SW-145
7674 ←CCM 5579	<i>Magnetospirillum magnetotacticum</i>	<i>Marinobacter hydrocarbonoclasticus</i>
7675 ←CCM 5580	21281 <sup>T</sup> ←IAM 14723	20777 ←IAM 12929
7676 ←CCM 5879	<i>Magnetospirillum</i> sp.	<i>Marinobacter litoralis</i>
7677 ←CCM 5880	12775 ←N. Kato CC-26	11547 <sup>T</sup> ←Y.-H. Park SW-45
7678 ←CCM 5881	12776 ←N. Kato TS-6	<i>Marinobacter lutaoensis</i>
7679 ←CCM 5882	12777 ←N. Kato BM1232	11179 <sup>T</sup> ←W. Y. Sheih T5054

<i>Marinobacter maritimus</i>	<i>Marivita cryptomonadis</i>	2852 ← T. Urakami TK 0117
12521 <sup>T</sup> ← S. Shivaji CK47	15447 <sup>T</sup> ← B. C. Cho CL-SK44	2853 ← T. Urakami TK 0119
<i>Marinobacter mobilis</i>	<i>Marivita litorea</i>	2855 ← T. Urakami TK 0125
15154 <sup>T</sup> ← X.-W. Xu CN46	15446 <sup>T</sup> ← B. C. Cho CL-JM1	2856 ← T. Urakami TK 0126
15155 ← X.-W. Xu CN71	<i>Marixanthomonas ophiurae</i>	2857 ← T. Urakami TK 0127
<i>Marinobacter pelagius</i>	14121 <sup>T</sup> ← M. Uchino	2858 ← T. Urakami TK 0128
14804 <sup>T</sup> ← X.-W. Xu HS225	<i>Marmoricola aequareus</i>	2859 ← T. Urakami TK 0129
<i>Marinobacter psychrophilus</i>	13812 <sup>T</sup> ← S. D. Lee SST-45	2860 ← T. Urakami TK 0131
14643 <sup>T</sup> ← D.-C. Zhang et al. 20041	<i>Marmoricola aurantiacus</i>	2861 ← T. Urakami TK 0133
<i>Marinobacter szutsaonensis</i>	10917 <sup>T</sup> ← DSM 12652	2862 ← T. Urakami TK 0137
15751 <sup>T</sup> ← Y.-T. Shyu NTU-104	<i>Marmoricola bigeumensis</i>	2863 ← T. Urakami TK 0139
<i>Marinobacter zhejiangensis</i>	15624 <sup>T</sup> ← KCTC 19287	2864 ← T. Urakami TK 0141
15156 <sup>T</sup> ← X.-W. Xu CN74	<i>Marmoricola scoriae</i>	2865 ← T. Urakami TK 0145
<i>Marinobacterium georgiense</i>	17444 <sup>T</sup> ← S. D. Lee Sco-D01	2866 ← T. Urakami TK 0147
20159 ← IAM 1419	<i>Massilia aurea</i>	<b>Methylobacterium aerolatum</b>
20166 ← IAM 1445	13879 <sup>T</sup> ← A. Ventosa AP13	16406 <sup>T</sup> ← KACC 11766
21667 <sup>T</sup> ← IAM 15212	<i>Megamonas uniformis</i>	<b>Methylobacterium aminovorans</b>
<i>Marinobacterium maritimum</i>	14723 <sup>T</sup> ← H. Sakon YIT 11815	8240 <sup>T</sup> ← T. Urakami TH-15
15134 <sup>T</sup> ← S.-J. Park AR-11	<i>Megasphaera cerevisiae</i>	<b>Methylobacterium extorquens</b>
<i>Marinobacterium nitratireducens</i>	6129 ← DSM 20461	2802 <sup>T</sup> ← T. Urakami TK 0001
15523 <sup>T</sup> ← X.-W. Xu CN44	6130 <sup>T</sup> ← DSM 20462	2803 ← T. Urakami TK 0002
<i>Marinobacterium sediminicola</i>	<i>Megasphaera elsdenii</i>	2804 ← T. Urakami TK 0003
15524 <sup>T</sup> ← X.-W. Xu CN47	1772 <sup>T</sup> ← DSM 20460	2805 ← T. Urakami TK 0004
<i>Marinococcus halophilus</i>	<i>Meiothermus cateniformans</i>	2806 ← T. Urakami TK 0005
2472 ← M. V. Hao HK 711	15150 ← X.-Q. Zhang L462	2807 ← T. Urakami TK 0006
2473 ← M. V. Hao HK 712	15151 <sup>T</sup> ← X.-Q. Zhang LY1	2808 ← T. Urakami TK 0007
2475 ← M. V. Hao HK 714	<i>Melittangium boletus</i>	2809 ← T. Urakami TK 0008
2476 ← M. V. Hao HK 715	12633 ← DSM 14713	2812 ← T. Urakami TK 0012
2477 ← M. V. Hao HK 716	<i>Mesorhizobium amorphae</i>	2813 ← T. Urakami TK 0013
2478 ← M. V. Hao HK 717	21563 <sup>T</sup> ← IAM 15102	2814 ← T. Urakami TK 0014
2479 <sup>T</sup> ← M. V. Hao HK 718	<i>Mesorhizobium ciceri</i>	2817 ← T. Urakami TK 0017
2480 ← M. V. Hao HK 730	21564 <sup>T</sup> ← IAM 15103	2818 ← T. Urakami TK 0018
2481 ← M. V. Hao HK 731	<i>Mesorhizobium huakuii</i>	2826 ← T. Urakami TK 0026
2482 ← M. V. Hao HK 732	21036 <sup>T</sup> ← IAM 14158	2827 ← T. Urakami TK 0029
<i>Marinococcus</i> sp.	<i>Mesorhizobium loti</i>	2832 ← T. Urakami TK 0040
2474 ← M. V. Hao HK 713	20972 ← IAM 13630	2834 ← T. Urakami TK 0048
<i>Marinomonas arctica</i>	20975 ← IAM 13633	20693 ← IAM 12623
14976 <sup>T</sup> ← D.-C. Zhang 328	20976 ← IAM 13634	<b>Methylobacterium fujisawaense</b>
<i>Marinomonas arenicola</i>	21464 <sup>T</sup> ← IAM 14993	10890 <sup>T</sup> ← NCIMB 12417
15737 <sup>T</sup> ← N. Tanaka	21556 ← IAM 15095	<b>Methylobacterium iners</b>
<i>Marinomonas communis</i>	21557 ← IAM 15096	16407 <sup>T</sup> ← KACC 11765
14948 ← H.-W. Chang J63	21558 ← IAM 15097	<b>Methylobacterium mesophilicum</b>
20766 <sup>T</sup> ← IAM 12914	21590 ← IAM 15132	2829 <sup>T</sup> ← T. Urakami TK 0034
<i>Marinomonas mediterranea</i>	<i>Mesorhizobium mediterraneum</i>	<b>Methylobacterium organophilum</b>
21426 <sup>T</sup> ← IAM 14944	21565 <sup>T</sup> ← IAM 15104	2833 <sup>T</sup> ← T. Urakami TK 0047
<i>Marinomonas ostreistagni</i>	<i>Mesorhizobium plurifarium</i>	<b>Methylobacterium oryzae</b>
13672 <sup>T</sup> ← K. W. K. Lau UST010306-043	21566 <sup>T</sup> ← IAM 15105	16405 <sup>T</sup> ← KACC 11585
<i>Marinomonas polaris</i>	<i>Mesorhizobium temperatum</i>	<b>Methylobacterium phyllosphaerae</b>
12522 <sup>T</sup> ← S. Shivaji CK13	21781 <sup>T</sup> ← IAM 15333	16408 <sup>T</sup> ← KACC 11716
<i>Marinomonas primoryensis</i>	<i>Mesorhizobium tianshanense</i>	<b>Methylobacterium platani</b>
11775 <sup>T</sup> ← M. Uchino	21567 <sup>T</sup> ← IAM 15106	14648 <sup>T</sup> ← W. Park PMB02
11776 ← M. Uchino	<i>Metascardovia criceti</i>	<b>Methylobacterium radiotolerans</b>
<i>Marinomonas ushuiensis</i>	13492 ← M. Okamoto OMB 104	2830 ← IAM 12099
12170 <sup>T</sup> ← S. Shivaji U1	13493 <sup>T</sup> ← M. Okamoto OMB 105	2831 <sup>T</sup> ← IAM 12098
<i>Marinomonas vaga</i>	13494 ← M. Okamoto OMB 107	<b>Methylobacterium rhodesianum</b>
20774 <sup>T</sup> ← IAM 12923	<i>Methylobacillus glycogenes</i>	2810 ← T. Urakami TK 0009
<i>Marinoscillum pacificum</i>	2840 ← T. Urakami TK 0101	2815 ← T. Urakami TK 0015
14064 <sup>T</sup> ← K. K. Kwon MRN461	2841 ← T. Urakami TK 0102	2816 ← T. Urakami TK 0016
<i>Marinospirillum alkaliphilum</i>	2842 ← T. Urakami TK 0103	10891 <sup>T</sup> ← NCIMB 12249
11312 <sup>T</sup> ← W. Zhang Z4	2843 ← T. Urakami TK 0104	21388 ← IAM 14898
<i>Marinospirillum megaterium</i>	2844 ← T. Urakami TK 0107	<b>Methylobacterium rhodinum</b>
10129 <sup>T</sup> ← T. Fujii H7	2847 ← T. Urakami TK 0110	2811 <sup>T</sup> ← T. Urakami TK 0010
<i>Marinovum algicola</i>	2848 ← T. Urakami TK 0111	<b>Methylobacterium</b> sp.
21266 <sup>T</sup> ← IAM 14591	2849 ← T. Urakami TK 0112	14673 ← K. Minamisawa B1
<i>Maritimimonas rapanae</i>	2850 <sup>T</sup> ← T. Urakami TK 0113	14674 ← K. Minamisawa B34
15075 <sup>T</sup> ← C. N. Seong A31	2851 ← T. Urakami TK 0115	<b>Methylobacterium thiocyanatum</b>

Animal  
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Info

10893 <sup>T</sup> ← NCIMB 13651	15574 <sup>T</sup> ← DSM 18909	14308 <sup>T</sup> ← DSM 16915
<i>Methylobacterium zatmanii</i>	<i>Microbacterium fluvii</i>	<i>Microbacterium paraoxydans</i>
2819 ← T. Urakami TK 0019	16545 <sup>T</sup> ← DSM 18908	12372 <sup>T</sup> ← CCUG 46601
2820 ← T. Urakami TK 0020	<i>Microbacterium foliorum</i>	<i>Microbacterium phyllosphaerae</i>
2821 ← T. Urakami TK 0021	11569 <sup>T</sup> ← LMG 19580	11571 <sup>T</sup> ← LMG 19581
2822 ← T. Urakami TK 0022	<i>Microbacterium ginsengisoli</i>	<i>Microbacterium profundi</i>
2823 ← T. Urakami TK 0023	15304 <sup>T</sup> ← KCTC 19189	14840 <sup>T</sup> ← X.-W. Xu Shh49
2824 ← T. Urakami TK 0024	<i>Microbacterium ginsengiterrae</i>	<i>Microbacterium pumilum</i>
2825 ← T. Urakami TK 0025	15516 <sup>T</sup> ← D.-C. Yang DCY37	14902 <sup>T</sup> ← NBRC 101279
10892 <sup>T</sup> ← NCIMB 12243	<i>Microbacterium gubbeenense</i>	<i>Microbacterium pygmaeum</i>
<i>Methylogaea oryzae</i>	12075 <sup>T</sup> ← NCIMB 30129	15925 <sup>T</sup> ← NRRL B-24469
16910 <sup>T</sup> ← S. Tarlera E10	<i>Microbacterium halotolerans</i>	<i>Microbacterium resistens</i>
<i>Methylophaga aminisulfidivorans</i>	13013 <sup>T</sup> ← KCTC 19017	11686 <sup>T</sup> ← CCUG 38312
14647 <sup>T</sup> ← S. W. Kim MP	<i>Microbacterium hatanonis</i>	<i>Microbacterium saperdae</i>
<i>Methylophaga marina</i>	14558 <sup>T</sup> ← M. A. Bakir and Y. Benno	1352 <sup>T</sup> ← K. Suzuki CNF 058
6886 <sup>T</sup> ← T. Urakami TK 1101	FCC-01	<i>Microbacterium schleiferi</i>
<i>Methylophaga sulfidivorans</i>	<i>Microbacterium hominis</i>	9175 <sup>T</sup> ← IFO 15075
21498 <sup>T</sup> ← IAM 15035	12413 <sup>T</sup> ← NBRC 15708	<i>Microbacterium sediminicola</i>
<i>Methylophaga thalassica</i>	<i>Microbacterium hydrocarbonoxydans</i>	15577 <sup>T</sup> ← DSM 18905
6887 <sup>T</sup> ← T. Urakami TK 1102	14340 <sup>T</sup> ← NCIMB 14002	<i>Microbacterium soli</i>
20599 ← IAM 12457	<i>Microbacterium imperiale</i>	17024 <sup>T</sup> ← LMG 24010
<i>Methylosarcina lacus</i>	1378 <sup>T</sup> ← ATCC 8365	<i>Microbacterium</i> sp.
13284 <sup>T</sup> ← M. G. Kalyuzhnaya LW14	<i>Microbacterium indicum</i>	9634 ← K. Suzuki CNF 181
<i>Methylosoma difficile</i>	21800 <sup>T</sup> ← IAM 15355	9635 ← K. Suzuki CNF 182
14076 <sup>T</sup> ← M. Rahalkar LC2	<i>Microbacterium invictum</i>	9636 ← K. Suzuki CNF 184
<i>Methylothermus subterraneus</i>	17023 <sup>T</sup> ← LMG 24557	9637 ← K. Suzuki CNF 185
13664 <sup>T</sup> ← H. Hirayama HTM55	<i>Microbacterium keratanolyticum</i>	10528 ← M. Ohkuma Gf-05
<i>Methyloversatilis universalis</i>	9173 <sup>T</sup> ← IFO 13309	14690 ← K. Minamisawa B19
13912 <sup>T</sup> ← M. Kalyuzhnaya FAM5	<i>Microbacterium ketosireducens</i>	14691 ← K. Minamisawa B24
<i>Microaerobacter geothermalis</i>	12078 <sup>T</sup> ← NBRC 14548	21356 ← IAM 14852
16213 <sup>T</sup> ← A. Hirschler-Réa strain Nad S1	<i>Microbacterium kitamiense</i>	21357 ← IAM 14853
<i>Microbacterium aerolatum</i>	10269 ← H. Matsuyama strain Kitami	21358 ← IAM 14854
12137 <sup>T</sup> ← CCM 4955	A1	21359 ← IAM 14855
<i>Microbacterium aoyamense</i>	10270 <sup>T</sup> ← H. Matsuyama strain Kitami	<i>Microbacterium terrae</i>
14900 <sup>T</sup> ← NBRC 101280	C2	9176 <sup>T</sup> ← IFO 15300
<i>Microbacterium aquimaris</i>	<i>Microbacterium koreense</i>	<i>Microbacterium terregens</i>
15625 <sup>T</sup> ← KCTC 19124	15305 <sup>T</sup> ← KCTC 19074	1342 <sup>T</sup> ← K. Suzuki CNF 111
<i>Microbacterium arabinogalactanolyticum</i>	<i>Microbacterium kribbense</i>	<i>Microbacterium terricola</i>
9171 <sup>T</sup> ← IFO 14344	16950 <sup>T</sup> ← KCTC 19269	14903 <sup>T</sup> ← NBRC 101801
<i>Microbacterium arborescens</i>	<i>Microbacterium lacticum</i>	<i>Microbacterium testaceum</i>
5884 <sup>T</sup> ← IFO 3750	1379 <sup>T</sup> ← IAM 1640	1353 <sup>T</sup> ← K. Suzuki CNF 032
<i>Microbacterium aurantiacum</i>	6202 ← DSM 20172	1354 ← K. Suzuki CNF 030
9177 <sup>T</sup> ← IFO 15234	<i>Microbacterium lacus</i>	1355 ← K. Suzuki CNF 031
9178 ← IFO 15235	15575 <sup>T</sup> ← DSM 18910	1356 ← K. Suzuki CNF 033
<i>Microbacterium aurum</i>	<i>Microbacterium laevaniformans</i>	1357 ← K. Suzuki CNF 034
9179 <sup>T</sup> ← IFO 15204	9181 <sup>T</sup> ← IFO 14471	<i>Microbacterium thalassium</i>
<i>Microbacterium avajiiense</i>	<i>Microbacterium liquefaciens</i>	12079 <sup>T</sup> ← NBRC 16060
16544 <sup>T</sup> ← DSM 18907	3878 ← DSM 20637	<i>Microbacterium trichothecenolyticum</i>
<i>Microbacterium azadirachtae</i>	3879 <sup>T</sup> ← DSM 20638	1358 <sup>T</sup> ← K. Nakayama 114-2
15681 <sup>T</sup> ← M. Madhaiyan AI-S262	<i>Microbacterium luteolum</i>	<i>Microbacterium ulmi</i>
<i>Microbacterium barkeri</i>	9174 <sup>T</sup> ← IFO 15074	14282 <sup>T</sup> ← CECT 5976
1343 <sup>T</sup> ← K. Suzuki CNF 095	<i>Microbacterium luticocci</i>	<i>Microbacterium xylanilyticum</i>
<i>Microbacterium binotii</i>	15576 <sup>T</sup> ← DSM 19459	13591 <sup>T</sup> ← KCTC 19079
16365 <sup>T</sup> ← CIP 101303	<i>Microbacterium marinilacus</i>	<i>Microbispora amethystogenes</i>
<i>Microbacterium chocolatum</i>	16546 <sup>T</sup> ← DSM 18904	3021 <sup>T</sup> ← KCC A-0021
12412 <sup>T</sup> ← NBRC 3758	<i>Microbacterium maritpicum</i>	10122 ← IFO 14040
<i>Microbacterium deminutum</i>	11570 <sup>T</sup> ← LMG 8374	<i>Microbispora corallina</i>
14901 <sup>T</sup> ← NBRC 101278	<i>Microbacterium mitrae</i>	10266 ← V. Kitpreechavanich DF-28
<i>Microbacterium dextranolyticum</i>	16363 <sup>T</sup> ← J.-W. Bae M4-8	10267 <sup>T</sup> ← V. Kitpreechavanich DF-32
9180 <sup>T</sup> ← IFO 14592	<i>Microbacterium natoriense</i>	<i>Microbispora mesophila</i>
<i>Microbacterium esteraromaticum</i>	12611 <sup>T</sup> ← T. Nakayama TNJL143-2	3151 <sup>T</sup> ← KCC A-0151
9172 <sup>T</sup> ← IFO 3751	<i>Microbacterium oleivorans</i>	<i>Microbispora rosea</i> subsp. <i>aerata</i>
<i>Microbacterium flavescens</i>	14341 <sup>T</sup> ← NCIMB 14003	3076 <sup>T</sup> ← KCC A-0076
3877 <sup>T</sup> ← DSM 20643	<i>Microbacterium oxydans</i>	3110 ← KCC A-0110
11568 <sup>T</sup> ← LMG 3028	12414 <sup>T</sup> ← NBRC 15586	3111 ← KCC A-0111
<i>Microbacterium flavum</i>	<i>Microbacterium paludicola</i>	" <i>Microbispora rosea</i> subsp.

- nonnitritogenes*"  
3298<sup>T</sup> ←KCC A-0298
- Microbispora rosea* subsp. *rosea*  
3006<sup>T</sup> ←KCC A-0006  
3022 ←KCC A-0022  
3023 ←KCC A-0023  
3024 ←KCC A-0024  
3030 ←KCC A-0030  
3365 ←Meiji Seika Kaisha, Ltd.  
SF-2372  
8971 ←NCIMB 12537  
8972 ←NCIMB 12536
- Microbispora siamensis*  
17237<sup>T</sup> ←BCC 14407
- Microbulbifer agarilyticus*  
14708<sup>T</sup> ←M. Miyazaki JAMB A3
- Microbulbifer chitinilyticus*  
16148<sup>T</sup> ←M. Miyazaki ABABA212
- Microbulbifer donghaiensis*  
15145<sup>T</sup> ←X.-W. Xu CN85
- Microbulbifer maritimus*  
12187<sup>T</sup> ←J.-H. Yoon TF-17
- Microbulbifer okinawensis*  
16147<sup>T</sup> ←M. Miyazaki ABABA23
- Microbulbifer salipaludis*  
11542<sup>T</sup> ←Y.-H. Park SM-1
- Microbulbifer thermotolerans*  
14709<sup>T</sup> ←M. Miyazaki JAMB A94
- "Micrococcus cyaneus"*  
2395 ←CCM 856
- Micrococcus endophyticus*  
16951<sup>T</sup> ←KCTC 19156
- Micrococcus flavus*  
14000<sup>T</sup> ←S.-J. Liu LW4
- Micrococcus luteus*  
1464<sup>T</sup> ←IAM 1056  
3347 ←H. Hori  
3348 ←H. Hori  
20068 ←IAM 1130  
20080 ←IAM 1157  
20322 ←IAM 11006  
20323 ←IAM 11007  
20324 ←IAM 11008  
20325 ←IAM 11010  
20326 ←IAM 11011  
20327 ←IAM 11012  
20328 ←IAM 11013  
20340 ←IAM 12005  
20341 ←IAM 12006  
20342 ←IAM 12007  
20343 ←IAM 12008  
20344 ←IAM 12009  
20435 ←IAM 12144  
21373 ←IAM 14879
- Micrococcus lylae*  
11572<sup>T</sup> ←LMG 14218
- Micrococcus* sp.  
17163 ←R. Mitsui TA1  
21347 ←IAM 14841
- Micrococcus terreus*  
17489<sup>T</sup> ←CGMCC 1.7054
- Micrococcus yunnanensis*  
16547<sup>T</sup> ←DSM 21948
- Microlunatus aurantiacus*  
16548<sup>T</sup> ←DSM 18424
- Microlunatus ginsengisoli*
- 16929<sup>T</sup> ←W.-T. Im Gsoil 633
- Microlunatus panaciterrae*  
16016<sup>T</sup> ←KCTC 13058
- Microlunatus phosphovorus*  
9379<sup>T</sup> ←K. Nakamura NM-1  
9380 ←K. Nakamura NM-2  
21246 ←IAM 14536
- Micromonospora aurantiaca*  
10878<sup>T</sup> ←VKM Ac-1936
- Micromonospora auratinigra*  
12357<sup>T</sup> ←C. Thawai TT1-11
- "Micromonospora brunnescens"*  
3255<sup>T</sup> ←KCC A-0255
- Micromonospora carbonacea*  
3139<sup>T</sup> ←KCC A-0139  
3168 ←KCC A-0168
- Micromonospora chaiyaphumensis*  
12873<sup>T</sup> ←S. Tanasupawat MC5-1  
12874 ←S. Tanasupawat MC7-1  
12875 ←S. Tanasupawat R1-1
- Micromonospora chalcea*  
3031<sup>T</sup> ←KCC A-0031
- "Micromonospora chalcea"* subsp. *flavida*  
3124 ←KCC A-0124
- "Micromonospora chalcea"* subsp. *izumensis*  
3197<sup>T</sup> ←KCC A-0197
- "Micromonospora chalcea"* subsp. *kazunoensis*  
3261 ←KCC A-0261
- Micromonospora chersina*  
9459<sup>T</sup> ←ATCC 53710
- Micromonospora chokoriensis*  
13247<sup>T</sup> ←I. Ara 2-19(6)
- Micromonospora citrea*  
3256<sup>T</sup> ←KCC A-0256
- Micromonospora coerulea*  
3175<sup>T</sup> ←KCC A-0175
- Micromonospora coriariae*  
14921<sup>T</sup> ←LMG 23557
- Micromonospora coxensis*  
13248<sup>T</sup> ←I. Ara 2-30-b(28)
- Micromonospora eburnea*  
12345<sup>T</sup> ←C. Thawai LK2-10  
12346 ←C. Thawai LK2-5
- Micromonospora echinaurantiaca*  
3257<sup>T</sup> ←KCC A-0257
- Micromonospora echinofusca*  
3327<sup>T</sup> ←KCC A-0327
- Micromonospora echinospora*  
3073<sup>T</sup> ←KCC A-0073  
3074 ←KCC A-0074  
3189 ←KCC A-0189  
3221 ←KCC A-0221
- Micromonospora endolithica*  
12677<sup>T</sup> ←DSM 44398
- "Micromonospora floridensis"*  
3265 ←KCC A-0265
- Micromonospora fulviviridis*  
3259<sup>T</sup> ←KCC A-0259
- "Micromonospora fulvopurpurea"*  
5696<sup>T</sup> ←INA 188
- "Micromonospora fulvoviolacea"*  
3258 ←KCC A-0258
- "Micromonospora globosa"*  
3126 ←KCC A-0126
- "*Micromonospora grisea*"  
3182 ←KCC A-0182
- Micromonospora halophytica*  
3125<sup>T</sup> ←KCC A-0125
- Micromonospora humi*  
15292<sup>T</sup> ←S. Tanasupawat P0402
- Micromonospora inositola*  
6239<sup>T</sup> ←DSM 43819
- Micromonospora inyonensis*  
3188<sup>T</sup> ←KCC A-0188
- Micromonospora krabiensis*  
12868 ←S. Tanasupawat MA-1  
12869<sup>T</sup> ←S. Tanasupawat MA-2
- "Micromonospora lacustris"*  
3266 ←KCC A-0266
- Micromonospora lupini*  
16031<sup>T</sup> ←LMG 24055
- Micromonospora marina*  
12870<sup>T</sup> ←S. Tanasupawat JSM1-1  
12871 ←S. Tanasupawat JSM1-3  
12872 ←S. Tanasupawat JSM3-1
- Micromonospora matsumotoense*  
9104<sup>T</sup> ←IFO 14550
- "Micromonospora megalomicea"* subsp. *megalomicea*  
10031 ←IFO 14743
- "Micromonospora megalomicea"* subsp. *nigra*  
3107 ←KCC A-0107
- "Micromonospora melanosporea"*  
3063 ←KCC A-0063
- Micromonospora mirobrigensis*  
13240<sup>T</sup> ←DSM 44830
- "Micromonospora narashino"*  
3129 ←KCC A-0129
- Micromonospora narathiwatensis*  
12394<sup>T</sup> ←C. Thawai BTG4-1
- Micromonospora nigra*  
8973<sup>T</sup> ←NCIMB 2225
- Micromonospora olivasterospora*  
7348<sup>T</sup> ←IMET 8310
- Micromonospora pallida*  
3133<sup>T</sup> ←KCC A-0133
- "Micromonospora parva"*  
3127 ←KCC A-0127
- Micromonospora pattaloongensis*  
12833<sup>T</sup> ←C. Thawai TJ2-2
- Micromonospora peucetia*  
12820<sup>T</sup> ←DSM 43363
- Micromonospora pisi*  
17025<sup>T</sup> ←LMG 24546
- Micromonospora purpureochromogenes*  
3156<sup>T</sup> ←KCC A-0156  
3233 ←KCC A-0233  
10141 ←VKM Ac-1326
- Micromonospora rhizosphaerae*  
17737<sup>T</sup> ←CGMCC 4.5599
- Micromonospora rifamycinica*  
15474<sup>T</sup> ←CGMCC 4.2495
- Micromonospora rosaria*  
3159<sup>T</sup> ←KCC A-0159
- Micromonospora saelicesensis*  
16032<sup>T</sup> ←LMG 24056
- Micromonospora sagamiensis*  
3310<sup>T</sup> ←KCC A-0310
- Micromonospora siamensis*

12769 <sup>T</sup> ← C. Thawai TT2-4	20443 <sup>T</sup> ← IAM 12281	6409 <sup>T</sup> ← M. Tsukamura 92003
<i>Micromonospora</i> sp.	20473 ← IAM 12314	<i>Mycobacterium aubagnense</i>
3050 ← KCC A-0050	<i>Moraxella oblonga</i>	15296 <sup>T</sup> ← CCUG 50186
3328 ← KCC A-0328	21442 <sup>T</sup> ← IAM 14971	<i>Mycobacterium aurum</i>
<i>Micromonospora viridifaciens</i>	<i>Morganella morganii</i> subsp. <i>morganii</i>	6366 <sup>T</sup> ← M. Tsukamura 15006
3267 <sup>T</sup> ← KCC A-0267	1672 <sup>T</sup> ← R. Sakazaki	<i>Mycobacterium austroafricanum</i>
" <i>Micromonospora yulongensis</i> "	<i>Morganella morganii</i> subsp. <i>sibonii</i>	6369 <sup>T</sup> ← M. Tsukamura 30005 (=E9789)
3356 <sup>T</sup> ← J. Ruan Y81-917	16939 <sup>T</sup> ← DSM 14850	<i>Mycobacterium avium</i>
" <i>Micromonospora zionensis</i> "	<i>Morganella psychrotolerans</i>	15429 ← Y. Nishiuchi OCU401
3190 ← KCC A-0190	16473 <sup>T</sup> ← LMG 23374	15430 ← Y. Nishiuchi OCU402
<i>Micropruina glycogenica</i>	<i>Moritella abyssi</i>	15431 ← Y. Nishiuchi OCU432
10248 <sup>T</sup> ← T. Shintani Lg2	11436 <sup>T</sup> ← Y. Xu 2693	15432 ← Y. Nishiuchi OCU433
<i>Microterricola viridarii</i>	<i>Moritella dasanensis</i>	<i>Mycobacterium boenickei</i>
15926 <sup>T</sup> ← NRRL B-24538	14759 <sup>T</sup> ← S.-H. Kang ArB0140	15653 <sup>T</sup> ← CIP 107829
<i>Microtetraspora fusca</i>	<i>Moritella japonica</i>	<i>Mycobacterium bohemicum</i>
3183 <sup>T</sup> ← KCC A-0183	10249 <sup>T</sup> ← Y. Nogi DSK1	12402 <sup>T</sup> ← CIP 105811
<i>Microtetraspora glauca</i>	<i>Moritella profunda</i>	<i>Mycobacterium botniense</i>
3300 <sup>T</sup> ← KCC A-0300	11435 <sup>T</sup> ← Y. Xu 2674	17322 <sup>T</sup> ← CCUG 47976
" <i>Microtetraspora incanescens</i> "	<i>Moritella</i> sp.	<i>Mycobacterium bouchardurhonense</i>
3260 <sup>T</sup> ← KCC A-0260	21333 ← IAM 14827	17323 <sup>T</sup> ← CCUG 56331
<i>Microtetraspora malaysiensis</i>	21334 ← IAM 14828	<i>Mycobacterium branderi</i>
11278 <sup>T</sup> ← Y. Nakajima H47-7	21335 ← IAM 14829	12687 <sup>T</sup> ← CIP 104592
11279 ← Y. Nakajima Y1-5-3	21336 ← IAM 14830	<i>Mycobacterium brisbanense</i>
11280 ← Y. Nakajima Y25-12	21337 ← IAM 14831	15654 <sup>T</sup> ← CIP 107830
<i>Microtetraspora niveoalba</i>	21338 ← IAM 14832	<i>Mycobacterium brumae</i>
3149 <sup>T</sup> ← KCC A-0149	21339 ← IAM 14833	12273 <sup>T</sup> ← CECT 3022
<i>Microvirga flocculans</i>	21340 ← IAM 14834	<i>Mycobacterium canariasense</i>
11936 <sup>T</sup> ← M. Takeda TFB	21341 ← IAM 14835	15298 <sup>T</sup> ← CCUG 47953
<i>Microvirga guangxiensis</i>	21342 ← IAM 14836	<i>Mycobacterium celatum</i>
15710 <sup>T</sup> ← J. Zhang 25B	21343 ← IAM 14837	12373 <sup>T</sup> ← CCUG 39185
<i>Microvirgula aerodenitrificans</i>	<i>Moritella yayanosii</i>	<i>Mycobacterium cheloneae</i>
21425 ← IAM 14943	10263 <sup>T</sup> ← Y. Nogi DB21MT-5	6388 <sup>T</sup> ← M. Tsukamura 19054
21462 <sup>T</sup> ← IAM 14991	<i>Mucilaginibacter dorajii</i>	6390 ← M. Tsukamura 22011
<i>Millisia brevis</i>	16601 <sup>T</sup> ← B.-C. Kim DR-f4	<i>Mycobacterium chimaera</i>
13999 <sup>T</sup> ← IFM 10694	<i>Muricauda aquimarina</i>	14737 <sup>T</sup> ← CIP 107892
<i>Mitsuaria chitosanitabida</i>	11811 <sup>T</sup> ← J.-H. Yoon SW-63	<i>Mycobacterium chitae</i>
21276 <sup>T</sup> ← IAM 14711	<i>Muricauda flavescens</i>	12403 <sup>T</sup> ← CIP 105383
<i>Mitsuokella jalaludinii</i>	11812 <sup>T</sup> ← J.-H. Yoon SW-62	<i>Mycobacterium chlorophenolicum</i>
12226 <sup>T</sup> ← DSM 13811	<i>Muricauda olearia</i>	7439 <sup>T</sup> ← DSM 43826
<i>Mitsuokella multacida</i>	15563 <sup>T</sup> ← B. C. Cho CL-SS4	<i>Mycobacterium chubuense</i>
2054 <sup>T</sup> ← T. Mitsuoka A 405-1	<i>Myceligerans crystallogenes</i>	16420 <sup>T</sup> ← NCTC 10819
2055 ← T. Mitsuoka P 208-58	14326 <sup>T</sup> ← I. Groth CD12E2-27 (=HKI 0369)	17769 ← N. V. Coleman NBB4
<i>Modestobacter multisepatus</i>	<i>Myceligerans xiliguense</i>	<i>Mycobacterium colombiense</i>
12207 <sup>T</sup> ← DSM 44406	14112 <sup>T</sup> ← CGMCC 1.3458	16228 <sup>T</sup> ← CECT 3035
<i>Modestobacter versicolor</i>	<i>Mycetocola lacteus</i>	<i>Mycobacterium conceptionense</i>
15578 <sup>T</sup> ← DSM 16678	11654 <sup>T</sup> ← IFO 16278	15299 <sup>T</sup> ← CCUG 50187
<i>Moellerella wisconsensis</i>	<i>Mycetocola saprophilus</i>	<i>Mycobacterium confluentis</i>
5894 ← Y. Kosako 85560	11655 <sup>T</sup> ← IFO 16274	13671 <sup>T</sup> ← CIP 105510
5895 <sup>T</sup> ← Y. Kosako 85561	<i>Mycobacterium abscessus</i> subsp. <i>abscessus</i>	<i>Mycobacterium conspicuum</i>
5896 ← Y. Kosako 85562	13569 <sup>T</sup> ← CIP 104536	14738 <sup>T</sup> ← CIP 105165
<i>Mogibacterium diversum</i>	<i>Mycobacterium abscessus</i> subsp. <i>bolletii</i>	<i>Mycobacterium cookii</i>
11205 <sup>T</sup> ← F. Nakazawa HM-7	15297 <sup>T</sup> ← CCUG 50184	12404 <sup>T</sup> ← CIP 105396
<i>Mogibacterium neglectum</i>	15300 ← CCUG 48898	<i>Mycobacterium cosmeticum</i>
11204 <sup>T</sup> ← F. Nakazawa P9a-h	" <i>Mycobacterium acapulcensis</i> "	14739 <sup>T</sup> ← CIP 108170
<i>Mogibacterium pumilum</i>	6402 <sup>T</sup> ← M. Tsukamura 34001	<i>Mycobacterium crocinum</i>
11202 <sup>T</sup> ← F. Nakazawa D2-18	<i>Mycobacterium agri</i>	16369 <sup>T</sup> ← CIP 109269
<i>Mogibacterium vescum</i>	6377 <sup>T</sup> ← M. Tsukamura 90012	<i>Mycobacterium diernhoferi</i>
11203 <sup>T</sup> ← F. Nakazawa D5-2	<i>Mycobacterium aichiense</i>	6371 <sup>T</sup> ← M. Tsukamura 41001
<i>Moorella thermoacetica</i>	6376 <sup>T</sup> ← M. Tsukamura 49005	<i>Mycobacterium doricum</i>
9319 <sup>T</sup> ← E. Uematsu	<i>Mycobacterium alvei</i>	12405 <sup>T</sup> ← CIP 106867
9320 ← E. Uematsu	12272 <sup>T</sup> ← CECT 3021	<i>Mycobacterium duvalii</i>
<i>Moraxella bovis</i>	<i>Mycobacterium aromaticivorans</i>	6396 <sup>T</sup> ← M. Tsukamura 29502
17254 <sup>T</sup> ← DSM 6328	16368 <sup>T</sup> ← CIP 109274	<i>Mycobacterium elephas</i>
<i>Moraxella lacunata</i>	<i>Mycobacterium asiaticum</i>	12406 <sup>T</sup> ← CIP 106831
20914 <sup>T</sup> ← IAM 13554		<i>Mycobacterium fallax</i>
<i>Moraxella nonliquefaciens</i>		6405 <sup>T</sup> ← M. Tsukamura 42501

<i>Mycobacterium farcinogenes</i>	<i>Mycobacterium malmoense</i>	13016 <sup>T</sup> ←KCTC 9978
15463 <sup>T</sup> ←NCTC 10955	13391 <sup>T</sup> ←CCUG 37761	
<i>Mycobacterium florentinum</i>	<i>Mycobacterium marinum</i>	6381 <sup>T</sup> ←M. Tsukamura 12320
14740 <sup>T</sup> ←CIP 108409	17638 <sup>T</sup> ←NCTC 2275	
<i>Mycobacterium fluoranthenivorans</i>	<i>Mycobacterium marseillense</i>	15467 <sup>T</sup> ←NCTC 10956
14741 <sup>T</sup> ←CIP 108203	17324 <sup>T</sup> ←CCUG 56325	
<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i>	<i>Mycobacterium monacense</i>	16017 <sup>T</sup> ←KCTC 19147
6368 <sup>T</sup> ←M. Tsukamura E11620	15658 <sup>T</sup> ←CIP 109237	
<i>Mycobacterium fortuitum</i> subsp. <i>fortuitum</i>	<i>Mycobacterium moriokaense</i>	16018 <sup>T</sup> ←KCTC 19146
6387 <sup>T</sup> ←M. Tsukamura 18112	6375 <sup>T</sup> ←M. Tsukamura E11715 (=48504)	14743 <sup>T</sup> ←CIP 106642
<i>Mycobacterium gadium</i>	<i>Mycobacterium mucogenicum</i>	<i>Mycobacterium setense</i>
12688 <sup>T</sup> ←CIP 105388	13575 <sup>T</sup> ←CIP 105223	15660 <sup>T</sup> ←CIP 109395
" <i>Mycobacterium gallinarum</i> "	<i>Mycobacterium murale</i>	<i>Mycobacterium shimoidei</i>
6399 ←M. Tsukamura 32001	13392 <sup>T</sup> ←CCUG 39728	12376 <sup>T</sup> ←CCUG 37517
<i>Mycobacterium gastri</i>	<i>Mycobacterium neaurum</i>	<i>Mycobacterium shinjukuense</i>
12407 <sup>T</sup> ←CIP 104530	6365 <sup>T</sup> ←M. Tsukamura 10002 (=3503)	14233 <sup>T</sup> ←T. Ezaki GTC 2738
<i>Mycobacterium gilvum</i>	<i>Mycobacterium neworleansense</i>	<i>Mycobacterium shottsi</i>
15464 <sup>T</sup> ←NCTC 10742	15659 <sup>T</sup> ←CIP 107827	12657 <sup>T</sup> ←NCTC 13215
<i>Mycobacterium gordonae</i>	<i>Mycobacterium nonchromogenicum</i>	<i>Mycobacterium simiae</i>
6382 <sup>T</sup> ←M. Tsukamura T12109	6364 <sup>T</sup> ←M. Tsukamura 09003 (=317)	12377 <sup>T</sup> ←CCUG 29114
<i>Mycobacterium haemophilum</i>	<i>Mycobacterium noviomagense</i>	<i>Mycobacterium smegmatis</i>
15465 <sup>T</sup> ←NCTC 11185	16367 <sup>T</sup> ←CIP 109766	5866 <sup>T</sup> ←NCTC 8159
<i>Mycobacterium hassiacum</i>	" <i>Mycobacterium novum</i> "	6386 <sup>T</sup> ←M. Tsukamura 17041
12690 <sup>T</sup> ←CIP 105218	6391 <sup>T</sup> ←M. Tsukamura 24018	20379 ←IAM 12065
<i>Mycobacterium heckeshornense</i>	<i>Mycobacterium obuense</i>	<i>Mycobacterium stomatepiae</i>
15655 <sup>T</sup> ←CIP 107347	6372 <sup>T</sup> ←M. Tsukamura 47001	17783 <sup>T</sup> ←NCIMB 14252
<i>Mycobacterium heidelbergense</i>	<i>Mycobacterium pallens</i>	<i>Mycobacterium szulgai</i>
14842 <sup>T</sup> ←CIP 105424	16370 <sup>T</sup> ←CIP 109268	6383 <sup>T</sup> ←M. Tsukamura SZ12002
<i>Mycobacterium hiberniae</i>	<i>Mycobacterium paraffinicum</i>	<i>Mycobacterium terrae</i>
13571 <sup>T</sup> ←CIP 104537	17782 <sup>T</sup> ←NCIMB 10420	12143 <sup>T</sup> ←LMG 10394
<i>Mycobacterium hodleri</i>	<i>Mycobacterium paraftuitum</i>	<i>Mycobacterium thermoresistibile</i>
12141 <sup>T</sup> ←LMG 19253	6367 <sup>T</sup> ←M. Tsukamura 16002	6362 <sup>T</sup> ←M. Tsukamura 01039
<i>Mycobacterium holsaticum</i>	<i>Mycobacterium parascrofulaceum</i>	<i>Mycobacterium timonense</i>
12374 <sup>T</sup> ←CCUG 46266	13015 <sup>T</sup> ←KCTC 9979	17325 <sup>T</sup> ←CCUG 56329
<i>Mycobacterium houstonense</i>	<i>Mycobacterium paraseoulense</i>	<i>Mycobacterium tokaiense</i>
15656 <sup>T</sup> ←CIP 107828	16952 <sup>T</sup> ←KCTC 19145	6373 <sup>T</sup> ←M. Tsukamura 47503
<i>Mycobacterium immunogenum</i>	<i>Mycobacterium paramecium</i>	<i>Mycobacterium triplex</i>
12691 <sup>T</sup> ←CIP 106684	14742 <sup>T</sup> ←CIP 107385	14744 <sup>T</sup> ←CIP 106108
<i>Mycobacterium insubricum</i>	<i>Mycobacterium peregrinum</i>	<i>Mycobacterium tusciae</i>
16366 <sup>T</sup> ←CIP 109609	12142 <sup>T</sup> ←LMG 19256	12692 <sup>T</sup> ←CIP 106367
<i>Mycobacterium intermedium</i>	<i>Mycobacterium phlei</i>	<i>Mycobacterium vaccae</i>
13572 <sup>T</sup> ←CIP 104542	2155 ←IAM 12064	6389 <sup>T</sup> ←M. Tsukamura 21007
<i>Mycobacterium intracellulare</i>	5865 <sup>T</sup> ←NCTC 8151	<i>Mycobacterium vanbaalenii</i>
6384 <sup>T</sup> ←M. Tsukamura 13085	6385 <sup>T</sup> ←M. Tsukamura 14025	13017 <sup>T</sup> ←KCTC 9966
<i>Mycobacterium kansasii</i>	<i>Mycobacterium phocaicum</i>	<i>Mycobacterium wolinskyi</i>
6379 <sup>T</sup> ←M. Tsukamura 07002	15301 <sup>T</sup> ←CCUG 50185	13393 <sup>T</sup> ←CCUG 47168
<i>Mycobacterium kubicae</i>	<i>Mycobacterium porcinum</i>	<i>Mycobacterium xenopi</i>
13573 <sup>T</sup> ←CIP 106428	6378 <sup>T</sup> ←M. Tsukamura 19508	15661 <sup>T</sup> ←CIP 104035
<i>Mycobacterium kumamotoense</i>	<i>Mycobacterium poriferae</i>	<i>Mycoplana dimorpha</i>
13453 <sup>T</sup> ←T. Ezaki CST 7247	12603 <sup>T</sup> ←NCIMB 12538	20847 <sup>T</sup> ←IAM 13154
<i>Mycobacterium kyorinense</i>	<i>Mycobacterium pseudoshottsii</i>	<i>Mycoplana ramosa</i>
15038 <sup>T</sup> ←M. Okazaki KUM060204	15466 <sup>T</sup> ←NCTC 13318	7822 <sup>T</sup> ←T. Urakami TK0053
<i>Mycobacterium lacus</i>	<i>Mycobacterium psychrotolerans</i>	<i>Myroides marinus</i>
15657 <sup>T</sup> ←CIP 108111	13323 <sup>T</sup> ←LMG 21953	16529 <sup>T</sup> ←S. B. Kim JS-08
<i>Mycobacterium lentiflavum</i>	<i>Mycobacterium pulveris</i>	<i>Myroides odoratimimus</i>
13390 <sup>T</sup> ←CCUG 42422	6370 <sup>T</sup> ←M. Tsukamura 33505	7460 <sup>T</sup> ←H. Oyaizu KS 0432
" <i>Mycobacterium litorale</i> "	<i>Mycobacterium pyrenivorans</i>	<i>Myroides odoratus</i>
17423 ←J. Zhang F4	15927 <sup>T</sup> ←NRRL B-24349	7458 <sup>T</sup> ←H. Oyaizu KS 0430
<i>Mycobacterium llatzerense</i>	<i>Mycobacterium rhodesiae</i>	7459 ←H. Oyaizu KS 0431
16229 <sup>T</sup> ←CECT 7273	6363 <sup>T</sup> ←M. Tsukamura 02002	<i>Myroides pelagicus</i>
<i>Mycobacterium madagascariense</i>	<i>Mycobacterium rufum</i>	21782 <sup>T</sup> ←IAM 15337
13574 <sup>T</sup> ←CIP 104538	16372 <sup>T</sup> ←CIP 109273	<i>Myxococcus fulvus</i>
<i>Mycobacterium mageritense</i>	<i>Mycobacterium rutilum</i>	20999 ←IAM 13951
12375 <sup>T</sup> ←CCUG 37984	16371 <sup>T</sup> ←CIP 109271	21000 ←IAM 13952
	<i>Mycobacterium saskatchewanense</i>	21001 ←IAM 13953

21005	←IAM 13957	21793 <sup>T</sup>	←IAM 15348	<i>Nocardia elegans</i>	
21006	←IAM 13958	<i>Nitratireductor aquimarinus</i>	13374 <sup>T</sup>	←IFM 10589	
21007	←IAM 13959	17288 <sup>T</sup>	←B. C. Cho CL-SC21	13394 <sup>T</sup>	←CCUG 50200
21008	←IAM 13960	17289	←B. C. Cho CL-SC22	<i>Nocardia exalbida</i>	
21009	←IAM 13961	<i>Nitratireductor basaltis</i>	12667 <sup>T</sup>	←Y. Mikami IFM 0803	
21010	←IAM 13962	14935 <sup>T</sup>	←S. W. Roh J3	<i>Nocardia farcinica</i>	
21011	←IAM 13963	<i>Nitratireductor kimnyeongensis</i>	3002	←KCC A-0002	
21012	←IAM 13964	14851 <sup>T</sup>	←S. D. Lee KY101	3088 <sup>T</sup>	←KCC A-0088
21014	←IAM 13966	<i>Nitratiruptor tergarcus</i>	3316	←KCC A-0316	
21016	←IAM 13968	12459 <sup>T</sup>	←S. Nakagawa MI55-1	6045	←M. Tsukamura 23087
21019	←IAM 13971	<i>Nitritalea halalkaliphila</i>	6410	←M. Tsukamura E12617	
<i>Myxococcus stipitatus</i>		15946 <sup>T</sup>	←S. Shivaji LW7	<i>Nocardia flavorosea</i>	
12634	←DSM 14675	<i>Nocardia abscessus</i>	3332 <sup>T</sup>	←KCC A-0332	
21003	←IAM 13955	6043	←M. Tsukamura 23094	<i>Nocardia fluminea</i>	
21004	←IAM 13956	10984 <sup>T</sup>	←DSM 44432	11440 <sup>T</sup>	←NCIMB 13759
<i>Myxococcus virescens</i>		12179	←T. Kudo KNJ59	" <i>Nocardia fusca</i> "	
6245	←S. Yamanaka No. 38 (=AJ 12384)	<i>Nocardia acidivorans</i>	10427 <sup>T</sup>	←IFO 14340	
21002	←IAM 13954	14671 <sup>T</sup>	←IFM 10820	<i>Nocardia gamkensis</i>	
21015	←IAM 13967	<i>Nocardia africana</i>	14299 <sup>T</sup>	←IFM 10766	
21017	←IAM 13969	11438 <sup>T</sup>	←NCTC 13181	<i>Nocardia hareniae</i>	
21018	←IAM 13970	<i>Nocardia alba</i>	14548 <sup>T</sup>	←KCCM 42317	
21020	←IAM 13972	13373 <sup>T</sup>	←IFM 10588	<i>Nocardia higoensis</i>	
<i>Nakamurella multipartita</i>		<i>Nocardia altamirensis</i>	12121 <sup>T</sup>	←Y. Mikami IFM 10084	
9543 <sup>T</sup>	←K. Nakamura Y-104	14670 <sup>T</sup>	←IFM 10819	<i>Nocardia ignorata</i>	
<i>Nannocystis pusilla</i>		<i>Nocardia amamiensis</i>	11764 <sup>T</sup>	←DSM 44496	
12635 <sup>T</sup>	←DSM 14622	14877 <sup>T</sup>	←IFM 10867	<i>Nocardia inohanensis</i>	
<i>Nautilia abyssi</i>		<i>Nocardia anaemiae</i>	11891 <sup>T</sup>	←Y. Mikami IFM 0092	
15390 <sup>T</sup>	←K. Alain PH1209	12396 <sup>T</sup>	←Y. Mikami IFM 0323	<i>Nocardia jejuensis</i>	
<i>Nautilia lithotrophica</i>		<i>Nocardia aobensis</i>	13281 <sup>T</sup>	←S. D. Lee N3-2	
15786 <sup>T</sup>	←DSM 13520	12352 <sup>T</sup>	←Y. Mikami IFM 0372	<i>Nocardia jiangxiensis</i>	
<i>Nautilia nitratireducens</i>		<i>Nocardia araoensis</i>	12861 <sup>T</sup>	←Y. Huang 43401	
15746 <sup>T</sup>	←C. Vetricani MB-1	12118 <sup>T</sup>	←Y. Mikami IFM 0575	<i>Nocardia jinanensis</i>	
<i>Neisseria mucosa</i>		<i>Nocardia arthritidis</i>	14879 <sup>T</sup>	←IFM 10864	
12992 <sup>T</sup>	←CCUG 26877	12120 <sup>T</sup>	←Y. Mikami IFM 10035	<i>Nocardia kruczakiae</i>	
" <i>Neisseria skkuensis</i> "		<i>Nocardia asiatica</i>	13032 <sup>T</sup>	←IFM 10565	
16127 <sup>T</sup>	←K. S. Ko SMC-A9199	11892 <sup>T</sup>	←Y. Mikami IFM 0245	<i>Nocardia lijiangensis</i>	
<i>Neptunomonas japonica</i>		11961	←Y. Mikami IFM 10205	13592 <sup>T</sup>	←KCTC 19028
14595 <sup>T</sup>	←M. Miyazaki JAMM 0745	<i>Nocardia asterooides</i>	<i>Nocardia mexicana</i>		
<i>Nesterenkonia aethiopica</i>		3384 <sup>T</sup>	14590 <sup>T</sup>	←IFM 10801	
14309 <sup>T</sup>	←DSM 17733	<i>Nocardia beijingensis</i>	<i>Nocardia mikamii</i>		
<i>Nesterenkonia alba</i>		10666 <sup>T</sup>	15508 <sup>T</sup>	←J. M. Brown W8061	
16549 <sup>T</sup>	←DSM 19423	<i>Nocardia blacklockiae</i>	<i>Nocardia miyunensis</i>		
<i>Nesterenkonia flava</i>		16005 <sup>T</sup>	12860 <sup>T</sup>	←Y. Huang 117	
14814 <sup>T</sup>	←B. Yao CAAS 251	<i>Nocardia brasiliensis</i>	<i>Nocardia neocaldedoniensis</i>		
<i>Nesterenkonia halobia</i>		3318	12604 <sup>T</sup>	←NCIMB 13955	
11483 <sup>T</sup>	←CIP 81.68	3374 <sup>T</sup>	<i>Nocardia niigatensis</i>		
<i>Nesterenkonia halotolerans</i>		<i>Nocardia brevicatena</i>	11894 <sup>T</sup>	←Y. Mikami IFM 0330	
13018 <sup>T</sup>	←KCTC 19014	3029 <sup>T</sup>	<i>Nocardia ninae</i>		
<i>Nesterenkonia jeotgali</i>		<i>Nocardia caishijiensis</i>	14667 <sup>T</sup>	←IFM 10816	
12610 <sup>T</sup>	←J.-H. Yoon JG-241	11508 <sup>T</sup>	<i>Nocardia nova</i>		
<i>Nesterenkonia lacusekhoensis</i>		<i>Nocardia carnea</i>	6044 <sup>T</sup>	←M. Tsukamura 23095	
11953 <sup>T</sup>	←CIP 107030	3375 <sup>T</sup>	9097	←IFM 0308	
<i>Nesterenkonia lutea</i>		<i>Nocardia cerradoensis</i>	9098	←IFM 0309	
13019 <sup>T</sup>	←KCTC 19013	12209 <sup>T</sup>	<i>Nocardia otitidiscaviarum</i>		
<i>Nesterenkonia sandarakina</i>		<i>Nocardia concava</i>	3377 <sup>T</sup>	←IFM 0239	
13020 <sup>T</sup>	←KCTC 19011	12351 <sup>T</sup>	3393 <sup>T</sup>	←DSM 43242	
<i>Nesterenkonia xinjiangensis</i>		<i>Nocardia crassostreeae</i>	7792	←IFM 0273	
13021 <sup>T</sup>	←KCTC 19016	10500 <sup>T</sup>	<i>Nocardia paucivorans</i>		
<i>Nevskia terrae</i>		<i>Nocardia cummidelens</i>	10919 <sup>T</sup>	←DSM 44386	
15425 <sup>T</sup>	←S.-W. Kwon KIS13-15	11439 <sup>T</sup>	<i>Nocardia pneumoniae</i>		
<i>Niabella ginsengisoli</i>		<i>Nocardia cyriacigeorgica</i>	12119 <sup>T</sup>	←Y. Mikami IFM 0784	
15444 <sup>T</sup>	←S.-W. Kwon GR10-1	11763 <sup>T</sup>	<i>Nocardia polyresistens</i>		
<i>Nitratifractor salsuginis</i>		" <i>Nocardia diaphanozonaria</i> "	13593 <sup>T</sup>	←KCTC 19027	
12458 <sup>T</sup>	←S. Nakagawa E9I37-1	3208 <sup>T</sup>	<i>Nocardia pseudobrasiliensis</i>		
<i>Nitratireductor aquibiodomus</i>		<i>Nocardia</i>	9893	←CIP 104599	
			9894 <sup>T</sup>	←CIP 104600	

" <i>Nocardia pseudosporangifera</i> "	<i>Nocardia yamanashiensis</i>	<i>Nocardioides kongjuensis</i>
3288 <sup>T</sup> ←KCC A-0288	11893 <sup>T</sup> ←Y. Mikami IFM 0265	12609 <sup>T</sup> ←J.-H. Yoon A2-4
3289 ←KCC A-0289	<i>Nocardioides aestuarii</i>	<i>Nocardioides koreensis</i>
3290 ←KCC A-0290	12125 <sup>T</sup> ←J. Chun JC2056	16022 <sup>T</sup> ←KCTC 19272
<i>Nocardia pseudovaccinii</i>	<i>Nocardioides agariphilus</i>	<i>Nocardioides kribbensis</i>
11883 <sup>T</sup> ←DSM 43406	16020 <sup>T</sup> ←KCTC 19276	13594 <sup>T</sup> ←KCTC 19038
<i>Nocardia puris</i>	<i>Nocardioides albus</i>	<i>Nocardioides lentus</i>
11960 ←Y. Mikami IFM 0583	3185 <sup>T</sup> ←KCC A-0185	14046 <sup>T</sup> ←J.-H. Yoon KSL-17
13031 <sup>T</sup> ←IFM 10564	5851 ←K. Suzuki CNF 141	<i>Nocardioides luteus</i>
<i>Nocardia salmonicida</i>	5852 ←K. Suzuki CNF 142	3334 ←KCC A-0334
4826 <sup>T</sup> ←KCC S-0826	5853 ←K. Suzuki CNF 144	3358 <sup>T</sup> ←IMET 7830
" <i>Nocardia salmonicolor</i> " subsp.	5854 ←K. Suzuki CNF 145	<i>Nocardioides marinus</i>
<i>aurantiaca</i> "	5855 ←K. Suzuki CNF 147	15615 <sup>T</sup> ←KCCM 42321
3342 <sup>T</sup> ←J. Ruan 71-N45	5856 ←K. Suzuki CNF 148	<i>Nocardioides nitrophenolicus</i>
<i>Nocardia seriola</i>	5857 ←K. Suzuki CNF 149	10703 <sup>T</sup> ←Y.-H. Park NSP41
3359 ←K. Hatai strain K	5858 ←K. Suzuki CNF 150	<i>Nocardioides oleivorans</i>
3360 <sup>T</sup> ←K. Hatai NA 8191	5859 ←K. Suzuki CNF 152	14342 <sup>T</sup> ←NCIMB 14004
3361 ←K. Hatai	5860 ←K. Suzuki CNF 153	<i>Nocardioides panacihumi</i>
5849 ←K. Hatai NA 8231	5861 ←K. Suzuki CNF 154	15309 <sup>T</sup> ←KCTC 19187
5850 ←K. Hatai	5862 ←K. Suzuki CNF 155	<i>Nocardioides panacisoli</i>
<i>Nocardia shimosensis</i>	5863 ←K. Suzuki CNF 156	16953 <sup>T</sup> ←KCTC 19470
12122 <sup>T</sup> ←Y. Mikami IFM 10311	5864 ←K. Suzuki CNF 157	<i>Nocardioides plantarum</i>
<i>Nocardia sienata</i>	<i>Nocardioides alkalitolerans</i>	9626 <sup>T</sup> ←NCIMB 12834
12236 <sup>T</sup> ←Y. Mikami IFM 10088	13365 <sup>T</sup> ←KCTC 19037	<i>Nocardioides pyridinolyticus</i>
<i>Nocardia soli</i>	<i>Nocardioides aquaticus</i>	10369 <sup>T</sup> ←KCTC 0074BP
11441 <sup>T</sup> ←NCIMB 13760	11266 <sup>T</sup> ←DSM 11439	<i>Nocardioides simplex</i>
<i>Nocardia</i> sp.	<i>Nocardioides aquiterrae</i>	1363 <sup>T</sup> ←K. Suzuki CNF 035
3016 ←KCC A-0016	11813 <sup>T</sup> ←J.-H. Yoon GW-9	1366 ←IAM 1398
3117 ←KCC A-0117	<i>Nocardioides aromaticivorans</i>	1367 ←IAM 1413
3118 ←KCC A-0118	11674 <sup>T</sup> ←K. Kawahara H-1	<i>Nocardioides sp.</i>
3317 ←KCC A-0317	16569 ←H. Nojiri IC177	16518 ←K. Satsuma DN36
4758 ←KCC S-0758	<i>Nocardioides basaltis</i>	<i>Nocardioides terrae</i>
10121 ←IFO 14840	14945 <sup>T</sup> ←S. W. Roh J112	16799 <sup>T</sup> ←CGMCC 1.7056
<i>Nocardia speluncae</i>	<i>Nocardioides bigeumensis</i>	<i>Nocardioides terrigena</i>
14881 <sup>T</sup> ←IFM 10868	16021 <sup>T</sup> ←KCTC 19290	14582 <sup>T</sup> ←J.-H. Yoon DS-17
<i>Nocardia takedensis</i>	<i>Nocardioides caricicola</i>	<i>Nocardiopsis aegyptia</i>
13313 <sup>T</sup> ←NBRC 100417	17686 <sup>T</sup> ←KACC 13778	13853 <sup>T</sup> ←DSM 44442
<i>Nocardia tenerifensis</i>	<i>Nocardioides daphnae</i>	<i>Nocardiopsis alba</i>
12693 <sup>T</sup> ←CIP 107929	16608 <sup>T</sup> ←CCM 7403	9419 <sup>T</sup> ←DSM 43377
<i>Nocardia terpenica</i>	<i>Nocardioides dokdonensis</i>	<i>Nocardiopsis alkaliphila</i>
13033 <sup>T</sup> ←Y. Mikami IFM 0706	14815 <sup>T</sup> ←C. N. Seong FR1436	12678 <sup>T</sup> ←DSM 44657
<i>Nocardia testacea</i>	<i>Nocardioides dubius</i>	<i>Nocardiopsis arabia</i>
12235 <sup>T</sup> ←Y. Mikami IFM 0937	13008 <sup>T</sup> ←J.-H. Yoon KSL-104	16007 <sup>T</sup> ←DSM 45083
<i>Nocardia thailandica</i>	<i>Nocardioides exalbidus</i>	" <i>Nocardiopsis atra</i> "
12356 <sup>T</sup> ←Y. Mikami IFM 10145	23199 <sup>T</sup> ←IAM 15416	3379 ←IFM 0241
<i>Nocardia transvalensis</i>	<i>Nocardioides fonticola</i>	<i>Nocardiopsis baichengensis</i>
3319 ←KCC A-0319	16703 <sup>T</sup> ←BCRC 16874	15310 <sup>T</sup> ←KCTC 19009
9099 <sup>T</sup> ←IFM 0333	" <i>Nocardioides fulvus</i> "	<i>Nocardiopsis chromatogenes</i>
<i>Nocardia uniformis</i>	3335 <sup>T</sup> ←KCC A-0335	15311 <sup>T</sup> ←KCTC 19008
3224 <sup>T</sup> ←KCC A-0224	<i>Nocardioides furvisabuli</i>	<i>Nocardiopsis composta</i>
<i>Nocardia vaccinii</i>	13813 <sup>T</sup> ←S. D. Lee SBS-26	11768 <sup>T</sup> ←DSM 44551
3395 <sup>T</sup> ←DSM 43285	<i>Nocardioides ganghwensis</i>	<i>Nocardiopsis dassonvillei</i> subsp.
<i>Nocardia vermiculata</i>	12124 <sup>T</sup> ←J. Chun JC2055	<i>albirubida</i>
12354 <sup>T</sup> ←Y. Mikami IFM 0391	<i>Nocardioides ginsengisoli</i>	4717 <sup>T</sup> ←KCC S-0717
<i>Nocardia veterana</i>	16930 <sup>T</sup> ←W.-T. Im Gsoil 1124	12081 ←DSM 44497
4080 ←KCC S-0080	<i>Nocardioides hankookensis</i>	<i>Nocardiopsis dassonvillei</i> subsp.
11307 <sup>T</sup> ←NRRL B-24136	15302 <sup>T</sup> ←CCUG 54522	<i>dassonvillei</i>
<i>Nocardia vinacea</i>	<i>Nocardioides humi</i>	3237 ←KCC A-0237
10988 <sup>T</sup> ←M. Hamada MK703-102F1 (IMC A-0211)	14942 <sup>T</sup> ←D.-C. Yang DCY24	6843 ←A. Shimazu AIAM 5024
" <i>Nocardia violaceofusca</i> "	17026 <sup>T</sup> ←LMG 24128	6920 ←INA 15719
3343 <sup>T</sup> ←J. Ruan 78-N26	<i>Nocardioides hwasunensis</i>	7355 ←Y. Inamori OPC-15
<i>Nocardia wallacei</i>	15307 <sup>T</sup> ←KCTC 19197	7437 <sup>T</sup> ←DSM 43111
16006 <sup>T</sup> ←DSM 45136	<i>Nocardioides insulae</i>	<i>Nocardiopsis exhalans</i>
<i>Nocardia xishanensis</i>	15308 <sup>T</sup> ←KCTC 19180	11759 <sup>T</sup> ←DSM 44407
12160 <sup>T</sup> ←Z. Liu 276	<i>Nocardioides jensenii</i>	<i>Nocardiopsis flavescens</i>
	1364 <sup>T</sup> ←K. Suzuki CNF 091	17424 <sup>T</sup> ←J. Zhang SA6

<i>Nocardiopsis ganjahuensis</i>	
15475 <sup>T</sup> ← CGMCC 4.3500	
<i>Nocardiopsis gilva</i>	
15312 <sup>T</sup> ← KCTC 19006	
<i>Nocardiopsis halophila</i>	
9892 <sup>T</sup> ← AS 4.1195	
<i>Nocardiopsis halotolerans</i>	
11760 <sup>T</sup> ← DSM 44410	
<i>Nocardiopsis kunsanensis</i>	
10721 <sup>T</sup> ← KCTC 9831	
<i>Nocardiopsis listeri</i>	
4782 <sup>T</sup> ← KCC S-0782	
<i>Nocardiopsis litoralis</i>	
16954 <sup>T</sup> ← KCTC 19473	
<i>Nocardiopsis lucentensis</i>	
9420 <sup>T</sup> ← DSM 44048	
<i>Nocardiopsis metallicus</i>	
12409 <sup>T</sup> ← CIP 107788	
<i>Nocardiopsis prasina</i>	
3336 <sup>T</sup> ← K. Miyashita 208	
<i>Nocardiopsis rhodophaea</i>	
15313 <sup>T</sup> ← KCTC 19049	
<i>Nocardiopsis rosea</i>	
15314 <sup>T</sup> ← KCTC 19007	
<i>Nocardiopsis salina</i>	
13364 <sup>T</sup> ← KCTC 19003	
<i>Nocardiopsis synnemataformans</i>	
10456 <sup>T</sup> ← DSM 44143	
<i>Nocardiopsis trehalosi</i>	
3357 <sup>T</sup> ← NRRL 12026	
<i>Nocardiopsis tropica</i>	
10877 <sup>T</sup> ← VKM Ac-1457	
<i>Nocardiopsis umidischolae</i>	
11758 <sup>T</sup> ← DSM 44362	
<i>Nocardiopsis valliformis</i>	
16800 <sup>T</sup> ← CGMCC 4.2135	
<i>Nocardiopsis xinjiangensis</i>	
12328 <sup>T</sup> ← BCRC 16285	
<i>Nonlabens tegetincola</i>	
12886 <sup>T</sup> ← S. Lau UST030701-324	
<i>Nonomuraea africana</i>	
6240 <sup>T</sup> ← DSM 43748	
<i>Nonomuraea angiospora</i>	
3109 <sup>T</sup> ← KCC A-0109	
<i>Nonomuraea antimicrobica</i>	
16904 <sup>T</sup> ← DSM 45220	
<i>Nonomuraea bangladeshensis</i>	
13930 <sup>T</sup> ← T. Kudo	
<i>Nonomuraea candida</i>	
15928 <sup>T</sup> ← NRRL B-24552	
<i>Nonomuraea coxensis</i>	
13931 <sup>T</sup> ← T. Kudo	
<i>Nonomuraea dietziae</i>	
3338 <sup>T</sup> ← A. Shimazu	
<i>Nonomuraea fastidiosa</i>	
3321 <sup>T</sup> ← KCC A-0321	
<i>Nonomuraea ferruginea</i>	
3283 <sup>T</sup> ← KCC A-0283	
<i>Nonomuraea helvata</i>	
3143 <sup>T</sup> ← KCC A-0143	
<i>Nonomuraea kuesteri</i>	
13854 <sup>T</sup> ← DSM 44753	
<i>Nonomuraea longicatena</i>	
11136 <sup>T</sup> ← NRRL 15532	
<i>Nonomuraea maheshkhaliensis</i>	
13929 <sup>T</sup> ← T. Kudo	
<i>Nonomuraea polychroma</i>	
6834 <sup>T</sup> ← IFO 14345	
<i>Nonomuraea pusilla</i>	
3144 <sup>T</sup> ← KCC A-0144	
<i>Nonomuraea recticatena</i>	
6835 <sup>T</sup> ← IFO 14525	
<i>Nonomuraea rosea</i>	
17326 <sup>T</sup> ← CCUG 56107	
<i>Nonomuraea roseola</i>	
3323 <sup>T</sup> ← KCC A-0323	
<i>Nonomuraea roseoviolacea</i> subsp. <i>carminata</i>	
9946 <sup>T</sup> ← VKM Ac-1780	
<i>Nonomuraea roseoviolacea</i> subsp. <i>roseoviolacea</i>	
3145 <sup>T</sup> ← KCC A-0145	
<i>Nonomuraea rubra</i>	
3389 <sup>T</sup> ← DSM 43768	
<i>Nonomuraea salmonaea</i>	
3324 <sup>T</sup> ← KCC A-0324	
<i>Nonomuraea</i> sp.	
10026 ← IFO 14667	
10027 ← IFO 14424	
10120 ← IFO 14989	
<i>Nonomuraea spiralis</i>	
3286 <sup>T</sup> ← KCC A-0286	
<i>Nonomuraea turkmeniaca</i>	
6836 <sup>T</sup> ← IFO 14348	
<i>Novispirillum itersonii</i> subsp. <i>itersonii</i>	
21278 <sup>T</sup> ← IAM 14720	
21494 <sup>T</sup> ← IAM 15031	
<i>Novispirillum itersonii</i> subsp. <i>nipponicum</i>	
21427 <sup>T</sup> ← IAM 14945	
<i>Novosphingobium naphthalenivorans</i>	
13951 <sup>T</sup> ← A. Hiraishi TUT562	
<i>Novosphingobium pentaromaticivorans</i>	
12182 <sup>T</sup> ← K. K. Kwon US6-1	
<i>Novosphingobium resinovorum</i>	
12332 ← NBRC 16058	
<i>Novosphingobium</i> sp.	
16568 ← H. Nojiri	
<i>Novosphingobium taihuense</i>	
12465 <sup>T</sup> ← Y. Zhou T3-B9	
<i>Novosphingobium tardaugens</i>	
11434 <sup>T</sup> ← K. Fujii ARI-1	
<i>Oceanimonas doudoroffii</i>	
21046 <sup>T</sup> ← IAM 14168	
<i>Oceanobacillus iheyensis</i>	
11309 <sup>T</sup> ← H. Takami HTE831	
<i>Oceanobacillus kimchii</i>	
16803 <sup>T</sup> ← J.-W. Bae X50	
<i>Oceanobacillus neutophilus</i>	
15776 <sup>T</sup> ← X.-W. Xu A1g	
<i>Oceanobacillus oncorhynchii</i>	
12661 <sup>T</sup> ← I. Yumoto R-2	
<i>Oceanobacillus sojae</i>	
15792 <sup>T</sup> ← T. Tominaga Y27	
<i>Oceanotoga teriensis</i>	
15580 <sup>T</sup> ← B. Lal OCT74	
<i>Ochrobactrum anthropi</i>	
10066 ← Y. Doi H1	
10070 ← Y. Doi D1	
10072 ← Y. Doi M1	
20703 ← IAM 12637	
21032 <sup>T</sup> ← IAM 14119	
<i>Ochrobactrum daejeonensis</i>	
16234 <sup>T</sup> ← M. J. Lee MJ11	
<i>Odoribacter laneus</i>	
16069 <sup>T</sup> ← Y. Watanabe B164 (=YIT 12061)	
<i>Odoribacter splanchnicus</i>	
15291 <sup>T</sup> ← CCUG 21054 A	
<i>Oenococcus kitaharae</i>	
13282 <sup>T</sup> ← A. Endo NRIC 0645	
<i>Oenococcus oeni</i>	
6125 <sup>T</sup> ← ATCC 23279	
<i>Oerskovia enterophila</i>	
7349 ← IMET 7686	
7350 <sup>T</sup> ← IMET 7687	
<i>Oerskovia jenensis</i>	
9969 <sup>T</sup> ← DSM 46000	
9970 ← DSM 46001	
<i>Oerskovia paurometabola</i>	
11755 <sup>T</sup> ← DSM 14281	
<i>Oerskovia turbata</i>	
3160 <sup>T</sup> ← KCC A-0160	
9968 ← DSM 43878	
<i>Okibacterium fritillariae</i>	
12284 <sup>T</sup> ← NBRC 16404	
<i>Oligella urethralis</i>	
20913 <sup>T</sup> ← IAM 13553	
<i>Olsenella profusa</i>	
14553 <sup>T</sup> ← CCUG 45371	
<i>Olsenella uli</i>	
12494 <sup>T</sup> ← CCUG 31166	
<i>Olsenella umbonata</i>	
16156 <sup>T</sup> ← M. Kraatz lac31	
16157 ← M. Kraatz A2	
<i>Opitutus terrae</i>	
15787 <sup>T</sup> ← DSM 11246	
<i>Ornithinibacter aureus</i>	
17738 <sup>T</sup> ← CGMCC 1.10341	
<i>Ornithinicoccus hortensis</i>	
11538 <sup>T</sup> ← I. Groth HKI 0125	
11539 ← I. Groth HKI 0131	
<i>Ornithinimicrobium humiphilum</i>	
11540 <sup>T</sup> ← I. Groth HKI 0124	
<i>Ornithinimicrobium kibberense</i>	
12763 <sup>T</sup> ← S. Mayilraj K22-20	
<i>Ornithinimicrobium pekingense</i>	
14001 <sup>T</sup> ← S.-J. Liu LW6	
<i>Oryzihumus leptocrescens</i>	
12835 <sup>T</sup> ← S. Ômura KV-628	
<i>Ottowia thoooxydans</i>	
11629 <sup>T</sup> ← S. Spring K11	
<i>Owenweeksia hongkongensis</i>	
12287 <sup>T</sup> ← K. W. K. Lau UST20020801	
<i>Pacificibacter maritimus</i>	
17096 <sup>T</sup> ← N. Tanaka D1	
<i>Paenibacillus aestuarii</i>	
15521 <sup>T</sup> ← C.-J. Cha CJ25	
<i>Paenibacillus alginolyticus</i>	
9068 <sup>T</sup> ← NRRL NRS-1347	
<i>Paenibacillus algorifonticola</i>	
16598 <sup>T</sup> ← L. Zhang XJ259	
<i>Paenibacillus alvei</i>	
20131 <sup>T</sup> ← IAM 1258	
<i>Paenibacillus amylolyticus</i>	
9906 <sup>T</sup> ← HSCC 434	
<i>Paenibacillus assamensis</i>	
13186 <sup>T</sup> ← T. Chakrabarti GPTSA 11	
<i>Paenibacillus campinasensis</i>	

- 11200<sup>T</sup> ← Y.-H. Park 324  
***Paenibacillus chibensis***  
 9905<sup>T</sup> ← HSNC 442  
***Paenibacillus chinjuensis***  
 10939<sup>T</sup> ← Y.-H. Park WN9  
***Paenibacillus chitinolyticus***  
 12162<sup>T</sup> ← NBRC 15660  
***Paenibacillus chondroitinus***  
 9072<sup>T</sup> ← NRRL NRS-1351  
***Paenibacillus curdlanolyticus***  
 12163<sup>T</sup> ← NBRC 15724  
***Paenibacillus daejeonensis***  
 11236<sup>T</sup> ← J.-S. Lee AP-20  
 11237 ← J.-S. Lee AP-37  
***Paenibacillus ehimensis***  
 12161<sup>T</sup> ← NBRC 15659  
***Paenibacillus filicis***  
 16417<sup>T</sup> ← B.-C. Kim S4  
***Paenibacillus ginsengihumi***  
 14928<sup>T</sup> ← D.-C. Yang DCY16  
***Paenibacillus glycainolyticus***  
 11221<sup>T</sup> ← A. Kobayashi DS-1  
***Paenibacillus hodogayensis***  
 12520<sup>T</sup> ← M. Takeda strain SG  
***Paenibacillus illinoiensis***  
 9907<sup>T</sup> ← HSNC 309  
***Paenibacillus kobensis***  
 12164<sup>T</sup> ← NBRC 15729  
***Paenibacillus kolevorans***  
 11185 ← M. Takeda TK  
 11186<sup>T</sup> ← M. Takeda TB  
***Paenibacillus konsidensis***  
 14798<sup>T</sup> ← K. S. Ko strain LBY  
***Paenibacillus kribbensis***  
 11465<sup>T</sup> ← Y.-H. Park AM49  
***Paenibacillus laetus***  
 9073<sup>T</sup> ← NRRL NRS-666  
***Paenibacillus macerans***  
 2500<sup>T</sup> ← CCM 2012  
 13340 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 12  
 20125 ← IAM 1243  
***Paenibacillus macquariensis* subsp.  
defensor**  
 14954<sup>T</sup> ← I. Yumoto M4-2  
***Paenibacillus motobuensis***  
 12774<sup>T</sup> ← K. Iida MC10  
***Paenibacillus odorifer***  
 13339 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 11  
 21743<sup>T</sup> ← IAM 15293  
***Paenibacillus pabuli***  
 9074<sup>T</sup> ← NRRL NRS-924  
***Paenibacillus pini***  
 16418<sup>T</sup> ← B.-C. Kim S22  
***Paenibacillus pinihumi***  
 16419<sup>T</sup> ← B.-C. Kim S23  
***Paenibacillus polymyxa***  
 2507<sup>T</sup> ← CCM 1459  
 20106 ← IAM 1210  
 20385 ← IAM 12075  
***Paenibacillus rigui***  
 16352<sup>T</sup> ← C. N. Seong WPCB173  
***Paenibacillus* sp.**  
 9795 ← T. Kudo F39-1  
 9796 ← T. Kudo N7  
 10914 ← M. Ohkuma SM-XY60  
 13338 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 9  
 13341 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 90  
 13342 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 122  
 13343 ← Central Res. Inst., Marudai  
 Food Co., Ltd. MCRI 337  
 16163 ← T. Iida YK5  
 16164 ← T. Iida YK12  
 16165 ← T. Iida YK19  
 16166 ← T. Iida YK20  
***Paenibacillus taiwanensis***  
 23198<sup>T</sup> ← IAM 15414  
***Paenibacillus terrae***  
 11466<sup>T</sup> ← Y.-H. Park AM141  
***Paenibacillus terrigena***  
 21741<sup>T</sup> ← IAM 15291  
***Paenibacillus thiaminolyticus***  
 7538 ← NIAH 1025  
 7540 ← IAM 1034  
 8360<sup>T</sup> ← AHU 1393  
***Paenibacillus validus***  
 9077<sup>T</sup> ← NRRL NRS-1000  
***Paenibacillus woopenensis***  
 16350<sup>T</sup> ← C. N. Seong WPCB018  
***Paenisporosarcina quisquiliarum***  
 14041<sup>T</sup> ← T. Chakrabarti SK 55  
***Paenochroabactrum glaciei***  
 15115<sup>T</sup> ← N. Tanaka  
***Paludibacter propionicigenes***  
 13257<sup>T</sup> ← A. Ueki WB4  
***Pandorea norimbergensis***  
 10565<sup>T</sup> ← LMG 18379  
***Pantoea agglomerans***  
 1236<sup>T</sup> ← Y. Kosako 83002  
 20143 ← IAM 1309  
 20215 ← IAM 1584  
 20219 ← IAM 1595  
***Pantoea* sp.**  
 14682 ← K. Minamisawa B40  
***Parabacteroides distasonis***  
 1294 ← T. Mitsuoka VI-28  
 5825<sup>T</sup> ← ATCC 8503  
 13400 ← M. Sakamoto 6-72  
 13401 ← M. Sakamoto 21-48  
 13402 ← M. Sakamoto 231  
 13403 ← M. Sakamoto 272  
 13404 ← M. Sakamoto 297  
***Parabacteroides goldsteinii***  
 13446<sup>T</sup> ← CCUG 48944  
***Parabacteroides gordonii***  
 15724<sup>T</sup> ← M. Sakamoto MS-1  
 15725 ← M. Sakamoto MS-2  
 15726 ← M. Sakamoto MS-3  
***Parabacteroides johnsonii***  
 13406<sup>T</sup> ← M. Sakamoto M-165  
***Parabacteroides merdae***  
 9497<sup>T</sup> ← ATCC 43184  
 13405 ← M. Sakamoto 5-88  
***Paracoccus aestuarii***  
 15119<sup>T</sup> ← S. W. Roh B7  
***Paracoccus alcaliphilus***  
 7364<sup>T</sup> ← T. Urakami TK 1015  
***Paracoccus aminophilus***  
 7686<sup>T</sup> ← T. Urakami DM-15  
***Paracoccus aminovorans***  
 7685<sup>T</sup> ← T. Urakami DM-82  
**"Paracoccus caeni"**  
 16385 ← M. J. Lee MJ17  
***Paracoccus denitrificans***  
 21484<sup>T</sup> ← IAM 15021  
***Paracoccus halophilus***  
 14014<sup>T</sup> ← S. Liu HN-182  
***Paracoccus kocuri***  
 7684<sup>T</sup> ← Y. Katayama strain B  
 8396 ← Y. Katayama strain A  
 8397 ← Y. Katayama strain C  
 8398 ← Y. Katayama strain E1  
 8399 ← Y. Katayama strain E2  
 8400 ← Y. Katayama strain F1  
***Paracoccus koreensis***  
 21670<sup>T</sup> ← IAM 15216  
**"Paracoccus oceanense"**  
 17768<sup>T</sup> ← Y. Fu JLT1679  
***Paracoccus pantotrophus***  
 6892 ← T. Urakami TK 0801  
 20620 ← IAM 12479  
 21485<sup>T</sup> ← IAM 15022  
***Paracoccus sulfuroxidans***  
 14013<sup>T</sup> ← S. Liu LW36  
***Paracoccus thiocyanatus***  
 20756<sup>T</sup> ← IAM 12816  
***Paracoccus versutus***  
 20754<sup>T</sup> ← IAM 12814  
 20755 ← IAM 12815  
***Paracoccus zeaxanthinifaciens***  
 21774<sup>T</sup> ← IAM 15326  
***Paracraurococcus ruber***  
 9931<sup>T</sup> ← Y. Nishimura NS89  
***Paraeggerthella hongkongensis***  
 14552<sup>T</sup> ← LMG 22124  
***Paralibbacillus ryukyuensis***  
 21472<sup>T</sup> ← IAM 15001  
***Parapedobacter composti***  
 15978<sup>T</sup> ← S.-W. Kwon 4M40  
***Parapedobacter luteus***  
 15977<sup>T</sup> ← S.-W. Kwon 4M29  
***Paraprevotella clara***  
 14859<sup>T</sup> ← M. Morotomi A7 (=YIT  
 11840)  
***Paraprevotella xylaniphila***  
 14860<sup>T</sup> ← M. Morotomi B3 (=YIT  
 11841)  
***Parascardovia denticolens***  
 12538<sup>T</sup> ← AS 1.2280  
***Parasutterella excrementihominis***  
 15078<sup>T</sup> ← M. Morotomi 6-B7 (=YIT  
 11859)  
***Parasutterella secunda***  
 16078<sup>T</sup> ← Y. Watanabe B168 (=YIT  
 12071)  
***Parvimonas micra***  
 12970<sup>T</sup> ← DSM 20468  
**"Parvoplyspora pallida"**  
 6053<sup>T</sup> ← X. Liu 416  
***Pasteurella pneumotropica***  
 14074<sup>T</sup> ← CCUG 12398  
***Patulibacter americanus***  
 16550<sup>T</sup> ← DSM 16676  
***Patulibacter minatonensis***

12834 <sup>T</sup> ← S. Ōmura KV-614	13399 <sup>T</sup> ← B. C. Cho CL-GP80	14644 <sup>T</sup> ← D.-C. Zhang et al. 20188
<i>Pectobacterium carotovorum</i> subsp. <i>carotovorum</i>	<i>Pedobacter saltans</i> 21818 <sup>T</sup> ← IAM 15374	<i>Phaeobacter daeponensis</i> 13606 <sup>T</sup> ← J.-H. Yoon TF-218
20460 ← IAM 12301	<i>Pedobacter</i> sp. 10638 ← Y. Doi KP-2	<i>Phaeobacter gallaeciensis</i> 21319 <sup>T</sup> ← IAM 14812
20506 ← IAM 12350	<i>Pedobacter terricola</i> 14594 <sup>T</sup> ← J.-H. Yoon DS-45	<i>Phaeospirillum chandramohani</i> 14933 <sup>T</sup> ← Ch. Sasikala JA145
20699 ← IAM 12633	<i>Pelagibaca bermudensis</i> 13377 <sup>T</sup> ← J.-C. Cho HTCC2601	<i>Phenylobacterium koreense</i> 21577 <sup>T</sup> ← IAM 15119
<i>Pediococcus acidilactici</i>	<i>Pelagibacterium halotolerans</i> 15775 <sup>T</sup> ← X.-W. Xu B2	<i>Phocaeicola abscessus</i> 16570 <sup>T</sup> ← CCUG 55929
2032 ← C. Kaneuchi	<i>Pelagibacterium luteolum</i> 16552 <sup>T</sup> ← X.-W. Xu 1_C16_27	<i>Photobacterium damselaе</i> subsp. <i>damselaе</i>
8797 <sup>T</sup> ← NRIC 0115	<i>Pelagibacterius littoralis</i> 15426 <sup>T</sup> ← B. C. Cho CL-UU02	8967 ← T. Fujii C-3
20119 ← IAM 1233	<i>Pelagicoccus albus</i> 23202 <sup>T</sup> ← IAM 15421	8968 ← T. Fujii C-8
20303 ← IAM 10061	<i>Pelagicoccus littoralis</i> 23204 <sup>T</sup> ← IAM 15423	8969 ← T. Fujii C-41
20445 ← IAM 12283	<i>Pelagicoccus mobilis</i> 23203 <sup>T</sup> ← IAM 15422	<i>Photobacterium frigidiphilum</i> 12947 <sup>T</sup> ← S.-J. Kim SL13
20449 ← IAM 12289	<i>Pelomonas saccharophila</i> 15912 <sup>T</sup> ← DSM 654	<i>Photobacterium ganghwense</i> 12487 <sup>T</sup> ← J. Chun FR1311
<i>Pediococcus cellicola</i>	21181 <sup>T</sup> ← IAM 14368	<i>Photobacterium lutimaris</i> 13586 <sup>T</sup> ← J.-H. Yoon DF-42
14152 <sup>T</sup> ← CGMCC 1.3787	<i>Pelotomaculum isophtalicicum</i> 12282 <sup>T</sup> ← Y. Qui strain JI	<i>Photobacterium phosphoreum</i> 20393 ← IAM 12085
<i>Pediococcus damnosus</i>	<i>Pelotomaculum propionicum</i> 11929 <sup>T</sup> ← H. Imachi strain MGP	21184 <sup>T</sup> ← IAM 14401
5886 <sup>T</sup> ← ATCC 29358	<i>Pelotomaculum sp.</i> 12326 ← H. Imachi strain FP	<i>Photobacterium profundum</i> 10084 <sup>T</sup> ← Y. Nogi DSJ4
<i>Pediococcus inopinatus</i>	<i>Pelotomaculum terephthalicum</i> 11824 <sup>T</sup> ← Y. Qiu strain JT	<i>Phycicoccus aerophilus</i> 16378 <sup>T</sup> ← KACC 20658
12518 <sup>T</sup> ← CIP 102406	<i>Pelotomaculum thermopropionicum</i> 10971 <sup>T</sup> ← H. Imachi SI	<i>Phycicoccus bigeumensis</i> 16023 <sup>T</sup> ← KCTC 19266
<i>Pediococcus lolii</i>	<i>Peptococcus niger</i> 6506 <sup>T</sup> ← Y. Benno	<i>Phycicoccus cremeus</i> 17739 <sup>T</sup> ← CGMCC 1.6963
15055 <sup>T</sup> ← K. Doi NGRI 0510Q	<i>Peptoniphilus asaccharolyticus</i> 1765 <sup>T</sup> ← DSM 20463	<i>Phycicoccus jejuensis</i> 15616 <sup>T</sup> ← KCCM 42315
<i>Pediococcus parvulus</i>	<i>Peptoniphilus gorbachii</i> 15634 <sup>T</sup> ← CCUG 53341	<i>Phyllobacterium myrsinacearum</i> 20931 ← IAM 13583
5889 <sup>T</sup> ← ATCC 19371	<i>Peptoniphilus lacrimalis</i> 8139 <sup>T</sup> ← Gifu 7667	20932 <sup>T</sup> ← IAM 13584
20450 <sup>T</sup> ← IAM 12291 ( <i>Pediococcus pentosaceus</i> )	<i>Peptoniphilus olsenii</i> 15635 <sup>T</sup> ← CCUG 53342	20933 ← IAM 13586
<i>Pediococcus pentosaceus</i>	<i>Peptoniphilus</i> sp. 8143 ← Gifu 7717	20934 ← IAM 13587
2023 ← C. Kaneuchi	<i>Peptostreptococcus anaerobius</i> 1769 ← DSM 20357	" <i>Piezobacter thermophilus</i> " 14636 <sup>T</sup> ← K. Takai 108
2024 ← C. Kaneuchi	6477 ← T. Mitsuoka	<i>Pigmentiphaga daeguensis</i> 14330 <sup>T</sup> ← J.-H. Yoon K110
2026 ← C. Kaneuchi	<i>Peptostreptococcus stomatis</i> 15636 <sup>T</sup> ← CCUG 51858	<i>Pilimelia anulata</i> 3090 <sup>T</sup> ← KCC A-0090
2027 ← C. Kaneuchi	<i>Perezilibacter aurantiacus</i> 23194 <sup>T</sup> ← IAM 15413	<i>Pilimelia columellifera</i> subsp. <i>columellifera</i>
2028 ← C. Kaneuchi	<i>Persephonella hydrogeniphila</i> 11663 <sup>T</sup> ← S. Nakagawa 29W	3367 <sup>T</sup> ← G. Vobis MB-SK 6
2029 ← C. Kaneuchi	<i>Persicitallea jodogahamensis</i> 23195 <sup>T</sup> ← IAM 15412	<i>Pilimelia terevasta</i> 3091 <sup>T</sup> ← KCC A-0091
2030 ← C. Kaneuchi	<i>Persicobacter diffluens</i> 8513 <sup>T</sup> ← NCIMB 1402	<i>Piscibacillus halophilus</i> 15721 <sup>T</sup> ← A. Ventosa HS 224
2031 ← C. Kaneuchi	<i>Petrimonas sulfuriphila</i> 12565 <sup>T</sup> ← B. Denis BN3	<i>Piscibacillus salipiscarius</i> 13188 <sup>T</sup> ← S. Tanasupawat RBU1-1
5885 ← ATCC 33314	<i>Petrotoga olearia</i> 11234 <sup>T</sup> ← S. L'Haridon SL24	<i>Planctomyces brasiliensis</i> 21570 <sup>T</sup> ← IAM 15109
5890 <sup>T</sup> ← ATCC 33316	<i>Petrotoga sibirica</i> 11235 <sup>T</sup> ← S. L'Haridon SL25	<i>Planifilum fimeticola</i> 12507 <sup>T</sup> ← A. Nakamura H0165
20109 ← IAM 1215	<i>Phaeobacter arcticus</i>	<i>Planobispora longispora</i> 3092 <sup>T</sup> ← KCC A-0092
20314 ← IAM 10073		<i>Planobispora rosea</i> 3166 <sup>T</sup> ← KCC A-0166
20451 ← IAM 12292		" <i>Planococcus bengal</i> " 13947 <sup>T</sup> ← K. Chaudhuri KRBC10Y
20452 ← IAM 12293		<i>Planococcus citreus</i>
20453 ← IAM 12294		
20454 ← IAM 12295		
20455 ← IAM 12296		
20456 ← IAM 12297		
20457 ← IAM 12298		
20458 ← IAM 12299		
20459 ← IAM 12300		
<i>Pediococcus siamensis</i>		
13997 <sup>T</sup> ← S. Tanasupawat MCH3-2		
<i>Pediococcus</i> sp.		
2021 ← S. Tanasupawat N86		
20446 ← IAM 12286		
<i>Pedobacter agri</i>		
15120 <sup>T</sup> ← S. W. Roh PB92		
<i>Pedobacter aquatilis</i>		
13454 <sup>T</sup> ← A. Ventosa AR107		
<i>Pedobacter heparinus</i>		
7457 <sup>T</sup> ← H. Oyaizu KS 0426		
<i>Pedobacter himalayensis</i>		
12171 <sup>T</sup> ← S. Shivaji HHS 22		
<i>Pedobacter lentus</i>		
14593 <sup>T</sup> ← J.-H. Yoon DS-40		
<i>Pedobacter piscium</i>		
7453 ← H. Oyaizu KS 0419		
7454 <sup>T</sup> ← H. Oyaizu KS 0420		
<i>Pedobacter roseus</i>		

- 2532<sup>T</sup> ←M. V. Hao HK 709  
 2533 ←M. V. Hao HK 706  
 2534 ←M. V. Hao HK 707  
 2535 ←M. V. Hao HK 708  
 2536 ←M. V. Hao HK 719  
 2537 ←M. V. Hao HK 720  
 2538 ←M. V. Hao HK 721  
 2539 ←M. V. Hao HK 722  
 2540 ←M. V. Hao HK 723  
 2541 ←M. V. Hao HK 724  
 2542 ←M. V. Hao HK 725  
 2543 ←M. V. Hao HK 726  
 2544 ←M. V. Hao HK 727  
 2545 ←M. V. Hao HK 728
- Planococcus kocurii*  
 2569<sup>T</sup> ←M. V. Hao HK 701  
 2570 ←M. V. Hao HK 702  
 2571 ←M. V. Hao HK 703  
 2572 ←M. V. Hao HK 704  
 2573 ←M. V. Hao HK 705
- Planococcus maritimus*  
 11543<sup>T</sup> ←Y.-H. Park TF-9
- Planococcus* sp.  
 21351 ←IAM 14845
- Planomicrobiun chinense*  
 12466<sup>T</sup> ←Y. Zhou DX312
- Planomicrobiun glaciei*  
 15088<sup>T</sup> ←D.-C. Zhang and Y.-G. Zhou  
 0423
- Planomicrobiun koreense*  
 10704<sup>T</sup> ←J.-H. Yoon JG-07
- Planomicrobiun stackebrandtii*  
 12481<sup>T</sup> ←S. Mayilraj K22-03
- Planomonospora alba*  
 9373<sup>T</sup> ←NRRL 18924
- Planomonospora parontospora* subsp.  
*antibiotica*  
 3094<sup>T</sup> ←KCC A-0094
- Planomonospora parontospora* subsp.  
*parontospora*  
 3093<sup>T</sup> ←KCC A-0093
- Planomonospora sphaerica*  
 9374<sup>T</sup> ←NRRL 18923
- Planomonospora venezuelensis*  
 3167<sup>T</sup> ←KCC A-0167
- Planosporangium flavigriseum*  
 16008<sup>T</sup> ←DSM 44991
- Planotetraspora kaengkrachanensis*  
 17936<sup>T</sup> ←BCC 24832
- Planotetraspora mira*  
 9131<sup>T</sup> ←R. Hu NA9211028 (SIIA9201)
- Planotetraspora phitsanulokensis*  
 17937<sup>T</sup> ←BCC 26045
- Planotetraspora sylvatica*  
 12867<sup>T</sup> ←NBRC 100141
- Planotetraspora thailandica*  
 16140<sup>T</sup> ←C. Suriyachadkun BCC 21825
- Plantactinospora mayteni*  
 16905<sup>T</sup> ←DSM 45238
- Plantibacter auratus*  
 23192<sup>T</sup> ←IAM 14817
- Plantibacter flavus*  
 12144<sup>T</sup> ←LMG 19919
- Plantibacter* sp.  
 1375 ←K. Suzuki CNF 133  
*(Corynebacterium* sp.)
- Pleomorphomonas oryzae*  
 21540<sup>T</sup> ←IAM 15079  
 21541 ←IAM 15080
- Plesiocystis pacifica*  
 11591<sup>T</sup> ←T. Iizuka SIR-1  
 11592 ←T. Iizuka SHI-1
- Polaribacter gangjinensis*  
 16152<sup>T</sup> ←J. S. Jung K17-16
- Polyangium fumosum*  
 12636 ←DSM 14668
- Polyangium sorediatum*  
 12637 ←DSM 14670
- Polyangium spumosum*  
 12638 ←DSM 14734
- Polymorphospora rubra*  
 14904<sup>T</sup> ←NBRC 101157
- Polynucleobacter cosmopolitanus*  
 16612 ←K. Watanabe KF001
- Polynucleobacter necessarius* subsp.  
*asymbioticus*  
 16613 ←K. Watanabe KF022  
 16614 ←K. Watanabe KF023  
 16615 ←K. Watanabe KF032
- Ponticaulis koreensis*  
 14975<sup>T</sup> ←S. D. Lee GSW-23
- Pontirhabdus pectinivorans*  
 17107<sup>T</sup> ←J. Chun JC2675
- Porphyrobacter sanguineus*  
 20691<sup>T</sup> ←IAM 12620
- Porphyromonas asaccharolytica*  
 6323 ←Y. Benno  
 6326<sup>T</sup> ←ATCC 25260
- Porphyromonas bennonis*  
 16335<sup>T</sup> ←CCUG 55979
- Porphyromonas cangingivalis*  
 15983<sup>T</sup> ←STAFF
- Porphyromonas canoris*  
 16132<sup>T</sup> ←CCUG 36550
- Porphyromonas cansulci*  
 13913<sup>T</sup> ←CCUG 47702
- Porphyromonas catoniae*  
 13863<sup>T</sup> ←CCUG 41358
- Porphyromonas circumdentaria*  
 13864<sup>T</sup> ←CCUG 41934
- Porphyromonas crevioricanis*  
 15906<sup>T</sup> ←M. Hirasawa NUM 402
- Porphyromonas endodontalis*  
 8526<sup>T</sup> ←Tokyo Med. Dent. Univ.
- Porphyromonas gingivalis*  
 8525 ←Tokyo Med. Dent. Univ.  
 12257<sup>T</sup> ←CIP 103683
- Porphyromonas gingivicanis*  
 15907<sup>T</sup> ←M. Hirasawa NUM 301
- Porphyromonas gulae*  
 13865<sup>T</sup> ←CCUG 47701
- Porphyromonas levii*  
 13866<sup>T</sup> ←CCUG 34320
- Porphyromonas macacae*  
 13914<sup>T</sup> ←CCUG 47703  
 15984 ←STAFF
- Porphyromonas somerae*  
 13867<sup>T</sup> ←CCUG 51464
- Porphyromonas uenonis*  
 13868<sup>T</sup> ←CCUG 48615
- Prauserella alba*  
 13022<sup>T</sup> ←KCTC 19002
- Prauserella halophila*  
 13023<sup>T</sup> ←KCTC 19000
- Prauserella rugosa*  
 9736<sup>T</sup> ←IFM 0565
- Prevotella albensis*  
 12258<sup>T</sup> ←CIP 105472
- Prevotella amnii*  
 14753<sup>T</sup> ←CCUG 53648
- Prevotella aurantiaca*  
 15754<sup>T</sup> ←M. Sakamoto OMA31  
 15755 ←M. Sakamoto OMA130
- Prevotella baroniae*  
 13447<sup>T</sup> ←CCUG 50418
- Prevotella bergenensis*  
 13869<sup>T</sup> ←CCUG 51224
- Prevotella bivia*  
 6331<sup>T</sup> ←T. Mitsuoka  
 6332 ←T. Mitsuoka
- Prevotella buccae*  
 12245<sup>T</sup> ←CCUG 15401
- Prevotella buccalis*  
 12246<sup>T</sup> ←CCUG 15557
- Prevotella copri*  
 13464<sup>T</sup> ←H. Hayashi CB7  
 13465 ←H. Hayashi CB18  
 13466 ←H. Hayashi CB23  
 13467 ←H. Hayashi CB26  
 13468 ←H. Hayashi CB28
- Prevotella corporis*  
 8529<sup>T</sup> ←Tama Biochem. Co., Ltd.
- Prevotella dentalis*  
 13448<sup>T</sup> ←CCUG 48288
- Prevotella dentasini*  
 15908<sup>T</sup> ←M. Hirasawa NUM 1903
- Prevotella denticola*  
 8528 ←Tokyo Med. Dent. Univ.  
 13449<sup>T</sup> ←CCUG 29542
- Prevotella disiens*  
 6333 ←T. Mitsuoka  
 6334<sup>T</sup> ←T. Mitsuoka
- Prevotella enoeca*  
 12259<sup>T</sup> ←CIP 104472
- Prevotella falsenii*  
 15121 ←M. Sakamoto 04013  
 15122 ←M. Sakamoto 04021  
 15123 ←M. Sakamoto 04043  
 15124<sup>T</sup> ←M. Sakamoto 04052  
 15125 ←M. Sakamoto 0406  
 15126 ←M. Sakamoto 04113  
 15127 ←M. Sakamoto 04111  
 15128 ←M. Sakamoto 04161
- Prevotella fusca*  
 17724<sup>T</sup> ←CCUG 57946
- Prevotella histicola*  
 15637<sup>T</sup> ←CCUG 55407
- Prevotella intermedia*  
 11150<sup>T</sup> ←K. Okamoto  
 12248<sup>T</sup> ←CCUG 24041
- Prevotella loescheii*  
 8530<sup>T</sup> ←Tokyo Med. Dent. Univ.  
 12249<sup>T</sup> ←CCUG 5914
- Prevotella maculosa*  
 15638<sup>T</sup> ←CCUG 54766
- Prevotella marshii*  
 13450<sup>T</sup> ←CCUG 50419
- Prevotella melaninogenica*

- 6321 ←T. Mitsuoka  
 6324 ←Y. Benno  
 6325<sup>T</sup> ←ATCC 25845  
***Prevotella micans***  
 16134<sup>T</sup> ←CCUG 56105  
***Prevotella multiformis***  
 12541<sup>T</sup> ←M. Sakamoto PPPA21  
 12542 ←M. Sakamoto PPPA19  
 12543 ←M. Sakamoto PPPA28  
 12544 ←M. Sakamoto PPPA30  
***Prevotella multisaccharivorax***  
 12954<sup>T</sup> ←M. Sakamoto PPPA20  
 12955 ←M. Sakamoto PPPA16  
 12956 ←M. Sakamoto PPPA24  
 12957 ←M. Sakamoto PPPA31  
 12958 ←M. Sakamoto EPPA6  
 12959 ←M. Sakamoto EPPA7  
***Prevotella nanceiensis***  
 15639<sup>T</sup> ←CCUG 54409  
***Prevotella nigrescens***  
 6322<sup>T</sup> ←Y. Benno  
 12250<sup>T</sup> ←CCUG 9560  
***Prevotella oralis***  
 12251<sup>T</sup> ←CCUG 15408  
***Prevotella oris***  
 8540<sup>T</sup> ←ATCC 33573  
 12252<sup>T</sup> ←CCUG 15405  
***Prevotella oulorum***  
 14966<sup>T</sup> ←CCUG 54769  
***Prevotella pallens***  
 11140<sup>T</sup> ←E. Könönen AHN 10371  
***Prevotella paludivivens***  
 13650<sup>T</sup> ←A. Ueki KB7  
 13651 ←A. Ueki A42  
***Prevotella pleuritidis***  
 14110<sup>T</sup> ←T. Ezaki GTC 3021  
***Prevotella saccharolytica***  
 17484<sup>T</sup> ←CCUG 57944  
***Prevotella saliva***  
 12084<sup>T</sup> ←M. Sakamoto EPSA11  
***Prevotella scopos***  
 17725<sup>T</sup> ←CCUG 57945  
***Prevotella shahii***  
 12083<sup>T</sup> ←M. Sakamoto EHS11  
***Prevotella* sp.**  
 6330 ←T. Mitsuoka  
***Prevotella stercorea***  
 13469<sup>T</sup> ←H. Hayashi CB35  
***Prevotella timonensis***  
 15640<sup>T</sup> ←CCUG 50105  
***Prevotella veroralis***  
 6290<sup>T</sup> ←J. Watabe  
***Prevotella zoogloeformans***  
 16136<sup>T</sup> ←CCUG 20495  
***Primorskyibacter sedentarius***  
 16874<sup>T</sup> ←N. Tanaka  
***Prolixibacter bellariivorans***  
 13498<sup>T</sup> ←K. Nevin F2  
***Promicromonospora aerolata***  
 14119<sup>T</sup> ←CCM 7043  
***Promicromonospora citrea***  
 3051<sup>T</sup> ←KCC A-0051  
***Promicromonospora flava***  
 16551<sup>T</sup> ←DSM 21481  
***Promicromonospora kroppenstedtii***  
 16033<sup>T</sup> ←LMG 24382  
***Promicromonospora sukumoe***  
 6845<sup>T</sup> ←S. Ōmura SK-2049  
***Promicromonospora umidemergens***  
 17975<sup>T</sup> ←CCM 7634  
***Promicromonospora vindobonensis***  
 14120<sup>T</sup> ←CCM 7044  
***Propionibacterium acidifaciens***  
 16571<sup>T</sup> ←CCUG 57100  
***Propionibacterium acidipropionici***  
 6427 ←T. Mitsuoka  
 6431 ←Y. Benno  
 6432 ←T. Mitsuoka  
 20264 ←IAM 1714  
***Propionibacterium acnes***  
 6425<sup>T</sup> ←T. Mitsuoka  
 6473 ←ATCC 11828  
**"*Propionibacterium arabinosum*"**  
 6428 ←T. Mitsuoka  
***Propionibacterium cyclohexanicum***  
 21245<sup>T</sup> ←IAM 14535  
***Propionibacterium freudenreichii* subsp.  
*shermanii***  
 20265 ←IAM 1725  
***Propionibacterium granulosum***  
 6498<sup>T</sup> ←Y. Benno  
**"*Propionibacterium intermedium*"**  
 6429 ←T. Mitsuoka  
 6430 ←T. Mitsuoka  
***Propionibacterium jensenii***  
 6433 ←T. Mitsuoka  
 6438 ←T. Mitsuoka  
**"*Propionibacterium petterssonii*"**  
 6434 ←Y. Benno  
***Propionibacterium propionicum***  
 5830<sup>T</sup> ←ATCC 14157  
***Propionibacterium thoenii***  
 6435 ←Y. Benno  
 6437<sup>T</sup> ←T. Mitsuoka  
***Propionicicella superfundia***  
 14922<sup>T</sup> ←LMG 23096  
***Propioniciclavata***  
 15804<sup>T</sup> ←A. Ueki WR061  
 15805 ←A. Ueki WR054  
***Propionicimonas paludicola***  
 11933<sup>T</sup> ←A. Ueki strain Wd  
 11934 ←A. Ueki strain Wf  
***Propioniferax innocua***  
 13395<sup>T</sup> ←CCUG 33480  
***Propionimicrobium lymphophilum***  
 5829<sup>T</sup> ←ATCC 27520  
***Propionispora vibrioides***  
 17185<sup>T</sup> ←DSM 13305  
***Propionivibrio dicarboxylicus***  
 12339<sup>T</sup> ←DSM 5885  
***Prosthecobacter fluviatilis***  
 14805<sup>T</sup> ←M. Takeda HAQ-1  
**"*Prosthecochloris indica*"**  
 13299<sup>T</sup> ←Ch. Sasikala and Ch. V.  
 Romana JAGS6  
***Proteiniborus ethanoligenes***  
 14574<sup>T</sup> ←X. Dong strain GW  
***Proteiniclasticum ruminis***  
 14817<sup>T</sup> ←X. Dong D3RC-2  
***Proteiniphilum acetatigenes***  
 12891<sup>T</sup> ←S. Chen and X. Dong TB107  
***Proteocatella sphenisci***  
 12175<sup>T</sup> ←E. V. Pikuta PPP2  
***Proteus hauseri***  
 1668 ←Y. Kosako 82063  
 20622 ←IAM 12542  
***Proteus mirabilis***  
 1669<sup>T</sup> ←R. Sakazaki 4030  
***Proteus penneri***  
 3948<sup>T</sup> ←Y. Kosako 85546  
***Proteus vulgaris***  
 20013 ←IAM 1025  
 20339 ←IAM 12003  
***Providencia alcalifaciens***  
 1673<sup>T</sup> ←R. Sakazaki  
***Providencia burhodogranariea***  
 16940<sup>T</sup> ←DSM 19968  
***Providencia rettgeri***  
 1675<sup>T</sup> ←R. Sakazaki 396  
***Providencia rustigiani***  
 3953<sup>T</sup> ←Y. Kosako 85551  
 3954 ←Y. Kosako 85552  
 3955 ←Y. Kosako 85553  
 3956 ←Y. Kosako 85554  
 3957 ←Y. Kosako 85555  
***Providencia sneebia***  
 16941<sup>T</sup> ←DSM 19967  
***Pseudaminobacter defluvii***  
 20757<sup>T</sup> ←IAM 12817  
***Pseudoalteromonas atlantica***  
 8845<sup>T</sup> ←M. Akagawa-Matsushita  
 8846 ←M. Akagawa-Matsushita 512-M  
 8847 ←M. Akagawa-Matsushita 512-T  
 8848 ←M. Akagawa-Matsushita  
 512-W  
 8849 ←M. Akagawa-Matsushita 511-T  
 8850 ←M. Akagawa-Matsushita T9  
***Pseudoalteromonas byunsanensis***  
 12483<sup>T</sup> ←J. Chun FR1199  
***Pseudoalteromonas carrageenovora***  
 8851<sup>T</sup> ←M. Akagawa-Matsushita  
***Pseudoalteromonas denitrificans***  
 21248<sup>T</sup> ←IAM 14544  
***Pseudoalteromonas elyakovii***  
 21269 ←IAM 14594  
***Pseudoalteromonas espejiana***  
 20705<sup>T</sup> ←IAM 12640  
***Pseudoalteromonas haloplanktis***  
 20767<sup>T</sup> ←IAM 12915  
 20768 ←IAM 12916  
 20769 ←IAM 12917  
 20770 ←IAM 12918  
 20771 ←IAM 12919  
***Pseudoalteromonas lipolytica***  
 15903<sup>T</sup> ←X.-W. Xu LMEB 39  
***Pseudoalteromonas luteoviolacea***  
 21275<sup>T</sup> ←IAM 14710  
 21283 ←IAM 14725  
***Pseudoalteromonas nigrifaciens***  
 20792<sup>T</sup> ←IAM 13010  
 20849 ←IAM 13161  
***Pseudoalteromonas phenolica***  
 21460<sup>T</sup> ←IAM 14989  
***Pseudoalteromonas piscicida***  
 20779<sup>T</sup> ←IAM 12932  
 20780 ←IAM 12934  
***Pseudoalteromonas spongiae***  
 12884<sup>T</sup> ←S. Lau UST010723-006

<i>Pseudoalteromonas tetraodonis</i>	13306 <sup>T</sup> ←CIP 106717
21038 <sup>T</sup> ←IAM 14160	
<i>Pseudoalteromonas undina</i>	<i>Pseudomonas brassicacearum</i> subsp.
20773 <sup>T</sup> ←IAM 12922	<i>brassicacearum</i>
<i>Pseudoclavibacter helvolus</i>	11938 <sup>T</sup> ←DSM 13227
9491 <sup>T</sup> ←DSM 20419	<i>Pseudomonas brenneri</i>
<i>Pseudoclavibacter soli</i>	13307 <sup>T</sup> ←CIP 106646
15058 <sup>T</sup> ←H.-Y. Jung KP02	<i>Pseudomonas carboxydohydrogena</i>
<i>Pseudoclavibacter</i> sp.	12568 <sup>T</sup> ←DSM 1083
12865 ←NBRC 15616 ( <i>Microbacterium</i> sp.)	<i>Pseudomonas chlororaphis</i>
12866 ←NBRC 15706	20003 ←IAM 1001
( <i>Corynebacterium bovis</i> )	20509 ←IAM 12353
12920 ←IAM 14848	<i>Pseudomonas chlororaphis</i> subsp.
21491 ←IAM 15028	<i>chlororaphis</i>
21492 ←IAM 15029	2778 <sup>T</sup> ←K. Komagata KS 0015
<i>Pseudokineococcus marinus</i>	<i>Pseudomonas cissicola</i>
14547 <sup>T</sup> ←KCCM 42250	13362 <sup>T</sup> ←CIP 106723
<i>Pseudomonas aeruginosa</i>	<i>Pseudomonas citronellolis</i>
2412 ←Sugisaki 1	21587 <sup>T</sup> ←IAM 15129
2776 ←K. Komagata KS 0024	<i>Pseudomonas cremoricolorata</i>
5516 ←T. Taniguchi 624	11246 <sup>T</sup> ←M. Uchino
5961 ←Y. Kosako 85001	<i>Pseudomonas ficusrectae</i>
5962 <sup>T</sup> ←Y. Kosako 85002	2400 <sup>T</sup> ←M. Goto strain L7
6119 ←ATCC 27853	2401 ←M. Goto strain L6
10068 ←Y. Doi O1	2402 ←M. Goto strain L8
13050 ←K. Komagata	<i>Pseudomonas fluorescens</i>
13051 ←K. Komagata	21586 <sup>T</sup> ←IAM 15128
13052 ←K. Komagata	<i>Pseudomonas fluorescens</i>
13053 ←K. Komagata	2779 ←K. Komagata KS 0022
13054 ←K. Komagata	5963 <sup>T</sup> ←Y. Kosako 85003
13055 ←K. Komagata	13057 ←K. Komagata
13056 ←K. Komagata	13058 ←K. Komagata
14847 ←CIP 104116	13059 ←K. Komagata
20006 ←IAM 1007	14348 ←K. Komagata
20031 ←IAM 1054	17186 ←S. Umida H-601
20067 ←IAM 1129	20007 ←IAM 1008
20079 ←IAM 1156	20030 ←IAM 1051
20103 ←IAM 1202	20032 ←IAM 1055
20113 ←IAM 1220	20046 ←IAM 1092
20122 ←IAM 1237	20064 ←IAM 1126
20130 ←IAM 1251	20338 ←IAM 12001
20134 ←IAM 1263	<i>Pseudomonas fragi</i>
20138 ←IAM 1271	20237 ←IAM 1650
20301 ←IAM 1971	20552 ←IAM 12402
<i>Pseudomonas agarici</i>	<i>Pseudomonas fulva</i>
12566 <sup>T</sup> ←DSM 11810	11241 ←M. Uchino
<i>Pseudomonas alcaligenes</i>	11242 <sup>T</sup> ←M. Uchino
20561 <sup>T</sup> ←IAM 12411	11243 ←M. Uchino
<i>Pseudomonas alcaliphila</i>	<i>Pseudomonas geniculata</i>
10630 <sup>T</sup> ←I. Yumoto AL15-21	13324 <sup>T</sup> ←LMG 2195
" <i>Pseudomonas alkylphenolia</i> "	<i>Pseudomonas hibiscicola</i>
16553 ←K. Lee KL28	13361 <sup>T</sup> ←LMG 980
" <i>Pseudomonas auricularis</i> "	<i>Pseudomonas indica</i>
20365 ←IAM 12037	21544 <sup>T</sup> ←IAM 15083
20367 ←IAM 12039	" <i>Pseudomonas indoloxydans</i> "
<i>Pseudomonas avallanae</i>	14246 <sup>T</sup> ←S. Mayilraj IPL-1
11937 <sup>T</sup> ←DSM 11809	<i>Pseudomonas japonica</i>
<i>Pseudomonas azotifigens</i>	21532 <sup>T</sup> ←IAM 15071
12708 <sup>T</sup> ←A. Nakamura 6H33b	<i>Pseudomonas jinjuensis</i>
<i>Pseudomonas azotoformans</i>	21621 <sup>T</sup> ←IAM 15166
2777 <sup>T</sup> ←K. Komagata KS 0034	<i>Pseudomonas kilonensis</i>
" <i>Pseudomonas bathycetes</i> "	11939 <sup>T</sup> ←DSM 13647
6308 <sup>T</sup> ←ATCC 23597	<i>Pseudomonas koreensis</i>
6309 ←ATCC 23599	14769 <sup>T</sup> ←LMG 21318
<i>Pseudomonas boreopolis</i>	" <i>Pseudomonas lacunogenes</i> "
	3832 ←K. Kodama KS 0902
	<i>Pseudomonas luteola</i>
	2953 ←K. Kodama KS 0919
	3352 <sup>T</sup> ←K. Kodama KS 0921
	3848 ←K. Kodama KS 0918
	3849 ←K. Kodama KS 0920
	3850 ←K. Kodama KS 0922
	<i>Pseudomonas mandelii</i>
	21619 <sup>T</sup> ←IAM 15164
	<i>Pseudomonas marincola</i>
	14761 <sup>T</sup> ←M. Uchino
	<i>Pseudomonas mendocina</i>
	5966 <sup>T</sup> ←Y. Kosako 85008
	<i>Pseudomonas migulae</i>
	21628 <sup>T</sup> ←IAM 15173
	<i>Pseudomonas monteilii</i>
	21585 <sup>T</sup> ←IAM 15127
	<i>Pseudomonas moraviensis</i>
	14770 <sup>T</sup> ←DSM 16007
	<i>Pseudomonas mucidolens</i>
	2781 <sup>T</sup> ←K. Komagata KS 0038
	<i>Pseudomonas nitroreducens</i>
	2782 <sup>T</sup> ←K. Komagata KS 0050
	20557 ←IAM 12407
	21620 ←IAM 15165
	" <i>Pseudomonas nitroreducens</i> subsp. <i>thermotolerans</i> "
	20551 ←IAM 12401
	<i>Pseudomonas oleovorans</i>
	20560 ←IAM 12410
	<i>Pseudomonas oleovorans</i> subsp. <i>oleovorans</i>
	5968 ←Y. Kosako 85010
	11598 <sup>T</sup> ←IFO 13583
	<i>Pseudomonas oryzihabitans</i>
	2952 <sup>T</sup> ←K. Kodama KS 0036
	3829 ←K. Kodama KS 0037
	3830 ←K. Kodama KS 0222
	3831 ←K. Kodama KS 0901
	3833 ←K. Kodama KS 0903
	3834 ←K. Kodama KS 0904
	3835 ←K. Kodama KS 0905
	3836 ←K. Kodama KS 0906
	3837 ←K. Kodama KS 0907
	3838 ←K. Kodama KS 0908
	3839 ←K. Kodama KS 0909
	3840 ←K. Kodama KS 0910
	3841 ←K. Kodama KS 0911
	3842 ←K. Kodama KS 0912
	3843 ←K. Kodama KS 0913
	3844 ←K. Kodama KS 0914
	3845 ←K. Kodama KS 0915
	3846 ←K. Kodama KS 0916
	3847 ←K. Kodama KS 0917
	<i>Pseudomonas pachastrella</i>
	12285 <sup>T</sup> ←M. Uchino
	12286 ←M. Uchino
	<i>Pseudomonas parafulva</i>
	11244 <sup>T</sup> ←M. Uchino
	11245 ←M. Uchino
	" <i>Pseudomonas pavonaceae</i> "
	20078 ←IAM 1155
	<i>Pseudomonas pelagia</i>
	15562 <sup>T</sup> ←B. C. Cho CL-AP6
	<i>Pseudomonas pertucinogena</i>
	11590 <sup>T</sup> ←IFO 14163
	<i>Pseudomonas pictorum</i>
	9942 <sup>T</sup> ←CCM 284

- Pseudomonas plecoglossicida*  
21584<sup>T</sup> ← IAM 15126
- Pseudomonas psychrophila*  
10889<sup>T</sup> ← I. Yumoto E-3
- Pseudomonas putida*  
6156 ← ATCC 33015  
6157 ← ATCC 17453  
6160 ← ATCC 17633  
9045 ← N. Kato F61  
9802 ← T. Kudo CE2010  
13061 ← K. Komagata  
13063<sup>T</sup> ← K. Komagata  
20004 ← IAM 1002  
20005 ← IAM 1003  
20028 ← IAM 1049  
20029 ← IAM 1050  
20045 ← IAM 1090  
20048 ← IAM 1094  
20066 ← IAM 1128  
20089 ← IAM 1177  
20102 ← IAM 1200  
20111 ← IAM 1218  
20112 ← IAM 1219  
20120 ← IAM 1235  
20129 ← IAM 1250  
20187 ← IAM 1505  
20188 ← IAM 1506  
20228 ← IAM 1629  
20347 ← IAM 12014  
20511 ← IAM 12355  
21368 ← IAM 14870
- Pseudomonas resinovorans*  
16565 ← H. Nojiri
- Pseudomonas rhodesiae*  
11940<sup>T</sup> ← DSM 14020
- Pseudomonas sabulinigri*  
14963<sup>T</sup> ← S. W. Roh J64
- Pseudomonas* sp.  
6159 ← ATCC 17483  
9490 ← ATCC 15926  
10015 ← Y. Doi 61-3  
10534 ← M. Ohkuma e  
17188 ← H. Uchiyama LF54  
17231 ← J. Hiramatsu U2838  
20356 ← IAM 12023  
20364 ← IAM 12036  
20427 ← IAM 12135  
20650 ← IAM 12573  
20707 ← IAM 12642
- Pseudomonas straminea*  
2780 ← K. Komagata KS 0029  
(*Pseudomonas fulva*)  
2783<sup>T</sup> ← K. Komagata KS 0028
- Pseudomonas stutzeri*  
5965<sup>T</sup> ← Y. Kosako 85006  
10067 ← Y. Doi S1  
10069 ← Y. Doi J1  
10168 ← Y. Doi YM1006  
16566 ← H. Nojiri  
20400 ← IAM 12097  
20778 ← IAM 12931  
21306 ← IAM 14761  
21571 ← IAM 15110  
21638 ← IAM 15183
- Pseudomonas synxantha*  
11599<sup>T</sup> ← IFO 3913
- Pseudomonas taeanensis*  
16046<sup>T</sup> ← H.-Y. Kahng MS-3
- Pseudomonas taetrolens*  
5493 ← P.-P. Chang 80  
20238<sup>T</sup> ← IAM 1653
- Pseudomonas thivervalensis*  
11941<sup>T</sup> ← DSM 13194
- Pseudomonas tolaasii*  
21583<sup>T</sup> ← IAM 15125
- Pseudomonas toyotomiensis*  
15604<sup>T</sup> ← I. Yumoto HT-3
- Pseudomonas tuomuerensis*  
14085<sup>T</sup> ← Y. Xin CGMCC 1.1365
- Pseudomonas veronii*  
11942<sup>T</sup> ← DSM 11331
- "*Pseudomonas veronii* subsp. *inensis*"  
11828<sup>T</sup> ← R. Iriye INA06  
11829 ← R. Iriye INA05
- Pseudomonas xanthomarina*  
12468<sup>T</sup> ← M. Uchino
- Pseudomonas xiamenensis*  
13530<sup>T</sup> ← Q. Lai C10-2
- Pseudonocardia acaciae*  
16707<sup>T</sup> ← TISTR 1862
- Pseudonocardia ailaonensis*  
16009<sup>T</sup> ← DSM 44979
- Pseudonocardia alaniniphila*  
11837<sup>T</sup> ← AS 4.1536
- Pseudonocardia alni*  
9103<sup>T</sup> ← IFO 14991
- Pseudonocardia ammonioxydans*  
12462<sup>T</sup> ← CGMCC 4.1877
- Pseudonocardia antarctica*  
12172<sup>T</sup> ← S. Shivaji DVS 5a1
- Pseudonocardia asaccharolytica*  
10410<sup>T</sup> ← A. Lipski 580
- Pseudonocardia aurantiaca*  
11838<sup>T</sup> ← AS 4.1537
- Pseudonocardia autotrophica*  
4010 ← KCC S-0010  
4348<sup>T</sup> ← KCC S-0348
- Pseudonocardia benzenivorans*  
12694<sup>T</sup> ← CIP 107928
- Pseudonocardia carboxydivorans*  
14827<sup>T</sup> ← Y. M. Kim Y8
- Pseudonocardia chloroethenivorans*  
12679<sup>T</sup> ← DSM 44698
- Pseudonocardia compacta*  
7438<sup>T</sup> ← DSM 43592
- Pseudonocardia dioxanivorans*  
13855<sup>T</sup> ← DSM 44775
- Pseudonocardia endophytica*  
16220<sup>T</sup> ← KCTC 19150
- Pseudonocardia halophobica*  
9421<sup>T</sup> ← DSM 43089
- Pseudonocardia hydrocarbonoxydans*  
3392<sup>T</sup> ← DSM 43281
- Pseudonocardia kongjuensis*  
11896<sup>T</sup> ← IMSNU 50583
- Pseudonocardia oroxyli*  
13909<sup>T</sup> ← Y. Huang D10
- Pseudonocardia parietis*  
16609<sup>T</sup> ← CCM 7582
- Pseudonocardia petroleophila*  
3378<sup>T</sup> ← IFM 0243  
3394<sup>T</sup> ← DSM 655
- Pseudonocardia saturnea*  
3187<sup>T</sup> ← KCC A-0187
- Pseudonocardia* sp.  
4134 ← KCC S-0134
- Pseudonocardia spinosa*  
3136<sup>T</sup> ← KCC A-0136
- Pseudonocardia spinosispora*  
11935<sup>T</sup> ← IMSNU 50581
- Pseudonocardia sulfidoxydans*  
10411<sup>T</sup> ← A. Lipski 592
- Pseudonocardia tetrahydrofuranoxydans*  
14745<sup>T</sup> ← CIP 109050
- Pseudonocardia thermophila*  
3032 ← KCC A-0032  
3095<sup>T</sup> ← KCC A-0095
- Pseudonocardia xinjiangensis*  
11839<sup>T</sup> ← AS 4.1538
- Pseudonocardia yunnanensis*  
9330<sup>T</sup> ← IFO 15681
- Pseudonocardia zijingensis*  
11117<sup>T</sup> ← Z. Liu 6330
- Pseudoramibacter alactolyticus*  
6480<sup>T</sup> ← Y. Benno
- Pseudorhodobacter ferrugineus*  
20687<sup>T</sup> ← IAM 12616
- Pseudoruegeria aquimaris*  
13603<sup>T</sup> ← J.-H. Yoon SW-255
- Pseudosporangium ferrugineum*  
14710<sup>T</sup> ← I. Ara and T. Kudo 3-44-a(19)
- Pseudovibrio ascidiaceicola*  
21545<sup>T</sup> ← IAM 15084
- Pseudovibrio denitrificans*  
12308<sup>T</sup> ← W. Y. Shieh DN34
- Pseudovibrio japonicus*  
23208<sup>T</sup> ← IAM 15442
- Pseudovibrio* sp.  
21518 ← IAM 15056  
21519 ← IAM 15057
- Pseudoxanthomonas daejeonensis*  
21575<sup>T</sup> ← IAM 15115
- Pseudoxanthomonas japonensis*  
11525<sup>T</sup> ← T. Iizuka 12-3
- Pseudoxanthomonas koreensis*  
21576<sup>T</sup> ← IAM 15116
- Pseudoxanthomonas mexicana*  
11524<sup>T</sup> ← T. Iizuka AMX 26B
- Pseudozobellia thermophila*  
11733<sup>T</sup> ← M. Suzuki R3531
- Psychrobacter atlanticus*  
14977<sup>T</sup> ← J.-S. Zhao HAW-EB21
- Psychrobacter aestuarii*  
16343<sup>T</sup> ← C. N. Seong SC35
- Psychrobacter alimentarius*  
12315<sup>T</sup> ← J.-H. Yoon JG-100  
12316 ← J.-H. Yoon JG-102
- Psychrobacter celer*  
12601<sup>T</sup> ← J.-H. Yoon SW-238
- Psychrobacter fulvigenes*  
15525<sup>T</sup> ← N. Tanaka KC 40  
15526 ← N. Tanaka KC 65
- Psychrobacter immobilis*  
20442<sup>T</sup> ← IAM 12280
- Psychrobacter jeotgali*  
11463<sup>T</sup> ← Y.-H. Park YKJ-103
- Psychrobacter okhotskensis*  
11840<sup>T</sup> ← I. Yumoto MD17

<i>Psychrobacter phenylpyruvicus</i>	6100 ←S. Sato YLM-113	<i>Rhizobium rhizogenes</i>
20444 <sup>T</sup> ←IAM 12282	9460 ←N. Yamamoto	20919 <sup>T</sup> ←IAM 13570
<i>Psychrobacter piscatorii</i>	9461 ←N. Yamamoto	20920 ←IAM 13571
15603 <sup>T</sup> ←I. Yumoto T-3-2	<i>Rarobacter incanus</i>	20921 ←IAM 13572
<i>Psychrobacter</i> sp.	6350 <sup>T</sup> ←S. Sato YLM-32	20923 ←IAM 13574
20360 ←IAM 12030	9462 ←N. Yamamoto	21076 ←IAM 14218
" <i>Psychroflexus lacisalsi</i> "	9463 ←N. Yamamoto	<i>Rhizobium rubi</i>
16231 <sup>T</sup> ←S. Hosoi-Tanabe H7	9464 ←N. Yamamoto	20917 ←IAM 13568
<i>Psychromonas aquimarina</i>	<i>Rathayibacter caricis</i>	20918 <sup>T</sup> ←IAM 13569
14784 <sup>T</sup> ←M. Miyazaki JAMM 0404	13576 <sup>T</sup> ←CIP 108056	<i>Rhizobium soli</i>
<i>Psychromonas hadalis</i>	<i>Rathayibacter festucae</i>	14591 <sup>T</sup> ←J.-H. Yoon DS-42
11830 <sup>T</sup> ←Y. Nogi K41G	13577 <sup>T</sup> ←CIP 108055	<i>Rhizobium</i> sp.
<i>Psychromonas japonica</i>	<i>Rathayibacter iranicus</i>	20971 ←IAM 13629
14783 <sup>T</sup> ←M. Miyazaki JAMM 0394	9308 <sup>T</sup> ←ICMP 3496	20974 ←IAM 13632
<i>Psychromonas kaikoae</i>	<i>Rathayibacter rathayi</i>	20977 ←IAM 13635
11054 <sup>T</sup> ←Y. Nogi JT7304	9307 <sup>T</sup> ←ICMP 2574	21085 ←IAM 14227
<i>Psychromonas macrocephali</i>	<i>Rathayibacter toxicus</i>	21086 ←IAM 14228
14785 <sup>T</sup> ←M. Miyazaki JAMM 0415	9669 <sup>T</sup> ←ICMP 9525	21087 ←IAM 14229
<i>Psychromonas marina</i>	<i>Rathayibacter tritici</i>	21089 ←IAM 14231
10501 <sup>T</sup> ←I. Yumoto 4-22	9309 <sup>T</sup> ←ICMP 2626	<i>Rhizobium tropici</i>
<i>Psychromonas ossibalaenae</i>	<i>Reichenbachiella agariperforans</i>	21072 <sup>T</sup> ←IAM 14206
14786 <sup>T</sup> ←M. Miyazaki JAMM 0738	11238 <sup>T</sup> ←M. Suzuki R3525	21088 ←IAM 14230
<i>Psychromonas profunda</i>	<i>Reichenbachiella faecimaris</i>	<i>Rhizobium undicola</i>
11437 <sup>T</sup> ←Y. Xu 2825	16588 <sup>T</sup> ←I.-T. Cha PCP11	21822 <sup>T</sup> ←IAM 15378
<i>Psychroserpens mesophilus</i>	<i>Renibacterium salmoninarum</i>	<i>Rhizobium vitis</i>
13413 <sup>T</sup> ←H. K. Lee and K. K. Kwon	11484 <sup>T</sup> ←CIP 103036	21033 <sup>T</sup> ←IAM 14140
KOPRI 13649	<i>Rhabdothermus arcticus</i>	<i>Rhizomicrobium electricum</i>
<i>Puniceicoccus vermicola</i>	15963 <sup>T</sup> ←B. O. Steinsbu 2M70-1	15089 <sup>T</sup> ←Y. Kodama Mfc52
14086 <sup>T</sup> ←J.-C. Cho IMCC1545	<i>Rheinheimera aquimaris</i>	<i>Rhizomicrobium palustre</i>
<i>Pusillimonas ginsengisoli</i>	14331 <sup>T</sup> ←J.-H. Yoon SW-353	14971 <sup>T</sup> ←A. Ueki A48
14767 <sup>T</sup> ←D.-C. Yang DCY25	<i>Rheinheimera pacifica</i>	14972 ←A. Ueki RR54
14768 ←D.-C. Yang DCY28	12090 <sup>T</sup> ←M. Uchino	14973 ←A. Ueki RR25
<i>Pusillimonas harenae</i>	<i>Rhizobium daejeonense</i>	<i>Rhodanobacter fulvus</i>
16917 <sup>T</sup> ←C. O. Jeon B201	21504 ←IAM 15041	21488 <sup>T</sup> ←IAM 15025
<i>Pusillimonas soli</i>	21505 <sup>T</sup> ←IAM 15042	<i>Rhodanobacter soli</i>
16386 <sup>T</sup> ←M. J. Lee MJ07	<i>Rhizobium etli</i>	16126 <sup>T</sup> ←D.-C. Yang DCY45
<i>Pyramidobacter piscoleins</i>	21823 <sup>T</sup> ←IAM 15379	<i>Rhodobacter aestuarii</i>
16336 <sup>T</sup> ←CCUG 55836	<i>Rhizobium fabae</i>	14887 <sup>T</sup> ←Ch. Sasikala JA296
<i>Pyxidicoccus fallax</i>	14831 <sup>T</sup> ←C. F. Tian CCBAU 33202	<i>Rhodobacter azotoformans</i>
12639 <sup>T</sup> ←DSM 14698	14832 ←C. F. Tian CCBAU 23123	9340 <sup>T</sup> ←A. Hiraishi KA25
<i>Quadrisphaera granulorum</i>	<i>Rhizobium galegae</i>	9341 ←A. Hiraishi SA16
16010 <sup>T</sup> ←DSM 44889	20973 <sup>T</sup> ←IAM 13631	<i>Rhodobacter capsulatus</i>
<i>Rahnella aquatilis</i>	21073 ←IAM 14208	21090 <sup>T</sup> ←IAM 14232
1683 <sup>T</sup> ←Y. Kosako 82078	<i>Rhizobium leguminosarum</i>	<i>Rhodobacter johrii</i>
<i>Ralstonia mannitolilytica</i>	20680 <sup>T</sup> ←IAM 12609	14543 <sup>T</sup> ←Ch. Sasikala JA192
11284 <sup>T</sup> ←LMG 6866	20684 ←IAM 12613	<i>Rhodobacter maris</i>
<i>Ralstonia picketii</i>	<i>Rhizobium mesosinicium</i>	14794 <sup>T</sup> ←Ch. Sasikala JA276
5969 <sup>T</sup> ←Y. Kosako 85011	14777 <sup>T</sup> ←CCBAU 25010	<i>Rhodobacter megalophilus</i>
10171 ←Y. Doi YM-b	<i>Rhizobium phaseoli</i>	14598 <sup>T</sup> ←Ch. Sasikala JA194
<i>Ralstonia solanacearum</i>	20683 <sup>T</sup> ←IAM 12612	<i>Rhodobacter ovatus</i>
10489 <sup>T</sup> ←LMG 2299	<i>Rhizobium pusense</i>	14779 <sup>T</sup> ←Ch. Sasikala JA234
<i>Raoultella ornithinolytica</i>	16209 <sup>T</sup> ←S. K. Das NRCPB10	<i>Rhodobacter sphaeroides</i>
6096 <sup>T</sup> ←R. Sakazaki 90-72	<i>Rhizobium radiobacter</i>	6121 <sup>T</sup> ←IFO 12203
7522 ←R. Sakazaki 132-81	20198 ←IAM 1525	<i>Rhodobacter vinaykumarii</i>
7523 ←R. Sakazaki 218-74	20199 ←IAM 1526	14544 <sup>T</sup> ←Ch. Sasikala JA123
<i>Raoultella planticola</i>	20200 ←IAM 1527	<i>Rhodobium gokarnense</i>
7251 <sup>T</sup> ←ATCC 33531	20371 <sup>T</sup> ←IAM 12048	13532 <sup>T</sup> ←Ch. Sasikala JA173
20069 ←IAM 1133	20845 ←IAM 13129	<i>Rhodobium orientis</i>
<i>Raoultella terrigena</i>	20848 ←IAM 13155	9337 <sup>T</sup> ←A. Hiraishi MB312
1687 <sup>T</sup> ←Y. Kosako 82083	20922 ←IAM 13573	9338 ←A. Hiraishi MB303
<i>Rapidithrix thailandica</i>	20924 ←IAM 13575	<i>Rhodocista centenaria</i>
23209 <sup>T</sup> ←IAM 15448	20987 ←IAM 13931	21060 <sup>T</sup> ←IAM 14193
<i>Rarobacter faecitabidus</i>	20988 ←IAM 13934	<i>Rhodocista pekingensis</i>
6097 <sup>T</sup> ←S. Sato YLM-1	20990 ←IAM 13938	11669 <sup>T</sup> ←AS 1.2194
6098 ←S. Sato YLM-11	20991 ←IAM 13940	<i>Rhodocista</i> sp.
6099 ←S. Sato YLM-39	21034 ←IAM 14141	21251 ←IAM 14575

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>Rhodococcus aetherivorans</i>	21252 ←IAM 14576	<i>Rhodococcus jostii</i>	16906 <sup>T</sup> ←DSM 45257	<i>Rhodoglobus aureus</i>	12762 <sup>T</sup> ←MTCC 4657
14343 <sup>T</sup> ←NCIMB 13964		<i>Rhodococcus koreensis</i>	11615 <sup>T</sup> ←Z. Pácová CCM 4760	<i>Rhodoglobus vestalii</i>	12695 <sup>T</sup> ←CIP 107482
<i>Rhodococcus baikonurensis</i>	11411 <sup>T</sup> ←T. Ezaki A1-22	<i>Rhodococcus kroppenstedtii</i>	10743 <sup>T</sup> ←Y.-H. Park DNP505	<i>Rhodoplanes elegans</i>	9224 <sup>T</sup> ←A. Hiraishi AS130
<i>Rhodococcus coprophilus</i>	3200 <sup>T</sup> ←KCC A-0200	<i>Rhodococcus kunmingensis</i>	13011 <sup>T</sup> ←S. Mayilraj K07-23	<i>Rhodopseudomonas faecalis</i>	11668 <sup>T</sup> ←AS 1.2176
<i>Rhodococcus corynebacterioides</i>	3376 <sup>T</sup> ←IFM 0238	<i>Rhodococcus kyotonensis</i>	15626 <sup>T</sup> ←KCTC 19149	<i>Rhodopseudomonas palustris</i>	2524 ←T. Akiba R1
3391 <sup>T</sup> ←DSM 20151		<i>Rhodococcus maanshanensis</i>	23211 <sup>T</sup> ←IAM 15415	<i>Rhodopseudomonas</i> sp.	14675 ←K. Minamisawa B29
<i>Rhodococcus equi</i>	1311 <sup>T</sup> ←K. Suzuki CNF 002	<i>Rhodococcus marinonascens</i>	11374 <sup>T</sup> ←Z. Liu M712	<i>Rhodospirillum sulfurexigens</i>	14885 <sup>T</sup> ←Ch. Sasikala JA143
1312 ←K. Suzuki CNF 003		<i>Rhodococcus opacus</i>	6241 <sup>T</sup> ←DSM 43752	<i>Rhodothermus marinus</i>	9785 ←K. Takai OKD7
1313 ←K. Suzuki CNF 004		<i>Rhodococcus percolatus</i>	9703 <sup>T</sup> ←DSM 43205	<i>Rhodothermus profundi</i>	15944 <sup>T</sup> ←J.-L. Birrien PRI 2902
1314 ←K. Suzuki CNF 005		<i>Rhodococcus phenolicus</i>	10087 <sup>T</sup> ←CIP 104964	<i>Rhodovulum imhoffii</i>	13589 <sup>T</sup> ←Ch. Sasikala JA125
1315 ←K. Suzuki CNF 001		<i>Rhodococcus pyridinivorans</i>	14914 <sup>T</sup> ←DSM 44812	<i>Rhodovulum kholense</i>	14888 <sup>T</sup> ←Ch. Sasikala JA297
1319 ←K. Suzuki CNF 007		<i>Rhodococcus qingshengii</i>	10940 <sup>T</sup> ←Y.-H. Park PDB9	<i>Rhodovulum marinum</i>	13300 <sup>T</sup> ←Ch. Sasikala and Ch. V. Romana JA128
3209 <sup>T</sup> ←KCC A-0209		<i>Rhodococcus rhodnii</i>	15477 <sup>T</sup> ←CGMCC 1.6580	<i>Rhodovulum strictum</i>	9220 <sup>T</sup> ←A. Hiraishi MB-G2
3223 ←KCC A-0223		<i>Rhodococcus rhodochrous</i>	3203 <sup>T</sup> ←KCC A-0203	9221 ←A. Hiraishi MB002	
6817 ←H. Shimizu No. 21			2156 ←IAM 12125	<i>Rhodovulum visakhapatnamense</i>	13531 <sup>T</sup> ←Ch. Sasikala JA181
6818 ←H. Shimizu No. 22			2157 ←IAM 12126	<i>Riemerella anatipesfier</i>	9531 ←LMG 10988
6819 ←H. Shimizu No. 23			2158 ←IAM 12127	9532 <sup>T</sup> ←LMG 11054	
6820 ←H. Shimizu No. 24			3010 ←KCC A-0010	<i>Rikenella microfusus</i>	2053 <sup>T</sup> ←C. Kaneuchi Q-1
<i>Rhodococcus erythropolis</i>	2892 ←IAM 1399		3202 <sup>T</sup> ←KCC A-0202	<i>Roseibacterium elongatum</i>	11220 <sup>T</sup> ←Y. Nishimura Och 323
2893 ←IAM 1474			7553 ←S. Takaichi RNMS1	<i>Roseibium denhamense</i>	10543 <sup>T</sup> ←Y. Nishimura
2894 ←IAM 1484			20420 ←IAM 12123	<i>Roseibium hamelinense</i>	10544 <sup>T</sup> ←Y. Nishimura
2895 ←IAM 1494			20421 ←IAM 12124	<i>Roseiflexus castenholzii</i>	11240 <sup>T</sup> ←S. Hanada HLO8
3011 ←KCC A-0011		<i>Rhodococcus ruber</i>	<i>Roseivirga ehrenbergii</i>	12600 ←J.-H. Yoon SW-152	
3132 ←KCC A-0132		3205 <sup>T</sup> ←KCC A-0205	13337 <sup>T</sup> ←S. Lau UST030701-084	13514 <sup>T</sup> ←KMM 6017	
3191 ←KCC A-0191		<i>Rhodococcus sp.</i>	<i>Roseivirga spongicola</i>		
3192 ←KCC A-0192		1965 ←T. Fukumura B-1	10272 <sup>T</sup> ←Y. Nishimura		
3201 <sup>T</sup> ←KCC A-0201		1966 ←T. Fukumura B-2	<i>Roseivivax halodurans</i>		
6821 ←H. Shimizu No. 01		3009 ←KCC A-0009	10271 <sup>T</sup> ←Y. Nishimura		
6822 ←H. Shimizu No. 02		6198 ←T. Nagamune strain rough	<i>Roseivivax halotolerans</i>		
6823 ←H. Shimizu No. 03		6199 ←T. Nagamune strain smooth	<i>Roseobacter denitrificans</i>		
6824 ←H. Shimizu No. 04		6828 ←H. Shimizu No. 31	21267 <sup>T</sup> ←IAM 14592		
6825 ←H. Shimizu No. 11		6829 ←H. Shimizu No. 34	<i>Roseobacter litoralis</i>		
6826 ←H. Shimizu No. 12		6830 ←H. Shimizu No. 13	21268 <sup>T</sup> ←IAM 14593		
6827 ←H. Shimizu No. 14		6831 ←H. Shimizu No. 15	<i>Roseomonas aquatica</i>		
7475 ←NCIB 9159		6832 ←H. Shimizu No. 33	13556 <sup>T</sup> ←A. Ventosa TR53		
9803 ←T. Kudo TA421		9789 ←T. Kudo HA99	<i>Roseomonas frigidaquae</i>		
9805 ←T. Kudo TA431		9791 ←T. Kudo K37	15073 <sup>T</sup> ←C. N. Seong CW67		
11573 ←LMG 16262		9793 ←T. Kudo K39	<i>Roseomonas lacus</i>		
20154 ←IAM 1400		11554 ←T. Iida YK2	13283 <sup>T</sup> ←Y. Zhou TH-G33		
20158 ←IAM 1414		<i>Rhodococcus triatomae</i>	<i>Roseomonas</i> sp.		
20161 ←IAM 1428		13396 <sup>T</sup> ←CCUG 50202	14634 ←K. Furuhata K-20		
20165 ←IAM 1440		<i>Rhodococcus tukisamuensis</i>	<i>Roseomonas stagni</i>		
20170 ←IAM 1452		11308 <sup>T</sup> ←H. Matsuyama Mb8	15034 <sup>T</sup> ←K. Furuhata HS-69		
20173 ←IAM 1463		<i>Rhodococcus wratislaviensis</i>			
20186 ←IAM 1503		9689 <sup>T</sup> ←NCIMB 13082			
20419 <sup>T</sup> ←IAM 12122		<i>Rhodococcus yunnanensis</i>			
<i>Rhodococcus fascians</i>	6162 ←VKM Ac-594	13366 <sup>T</sup> ←KCTC 19021			
6163 ←VKM Ac-986		<i>Rhodococcus zoppii</i>			
6164 ←VKM Ac-991		9919 <sup>T</sup> ←ATCC 51349			
6165 ←VKM Ac-1006		<i>Rhodoferax fermentans</i>			
10002 <sup>T</sup> ←LMG 3623		7819 <sup>T</sup> ←A. Hiraishi FR2			
<i>Rhodococcus globerulus</i>	7472 <sup>T</sup> ←IFO 14531	7820 ←A. Hiraishi FR3			
<i>Rhodococcus gordoniae</i>	12658 <sup>T</sup> ←NCTC 13296				
12759 ←MTCC 1534					
<i>Rhodococcus imtechensis</i>	13270 <sup>T</sup> ←R. K. Jain RKJ300				
<i>Rhodococcus jialingiae</i>					

- Roseomonas terrae**  
14592<sup>T</sup> ← J.-H. Yoon DS-48
- Roseospira goensis**  
14191<sup>T</sup> ← Ch. Sasikala JA135
- Roseospira visakhapatnamensis**  
14190<sup>T</sup> ← Ch. Sasikala JA131
- Roseovarius tolerans**  
21346<sup>T</sup> ← IAM 14840
- Rothia aeria**  
11412<sup>T</sup> ← T. Ezaki A1-17B
- Rothia amarae**  
11375<sup>T</sup> ← Z. Liu J18
- Rothia dentocariosa**  
3067<sup>T</sup> ← KCC A-0067  
3068 ← KCC A-0068
- Rothia mucilaginosa**  
10910<sup>T</sup> ← CCUG 20962  
21309 ← IAM 14776  
21310 ← IAM 14777
- Rothia nasimurum**  
10909<sup>T</sup> ← CCUG 35957
- Rothia terrae**  
15158<sup>T</sup> ← BCRC 17588
- Ruania albidiiflava**  
13910<sup>T</sup> ← Y. Huang 3-6
- Rubrimonas cliftonensis**  
10189<sup>T</sup> ← Y. Nishimura
- Rubrivivax benzoatilyticus**  
13220<sup>T</sup> ← Ch. Sasikala JA2
- Rubrivivax gelatinosus**  
21318<sup>T</sup> ← IAM 14808
- Rubrobacter radiotolerans**  
2153<sup>T</sup> ← IAM 12072
- Rubrobacter taiwanensis**  
12932<sup>T</sup> ← BCRC 17173
- Rubrobacter xylanophilus**  
11954<sup>T</sup> ← CIP 105412
- Rudaea cellullositytica**  
15422<sup>T</sup> ← S.-W. Kwon KIS3-4
- Rudanella lutea**  
16390<sup>T</sup> ← KACC 12603
- Ruegeria atlantica**  
21234<sup>T</sup> ← IAM 14463  
21235 ← IAM 14464
- Ruegeria marina**  
16262<sup>T</sup> ← Y.-Y. Huo ZH17
- Ruminococcus albus**  
14654<sup>T</sup> ← DSM 20455
- Ruminococcus faecis**  
15917<sup>T</sup> ← J.-W. Bae Eg2
- Ruminococcus gauvreaui**  
14987<sup>T</sup> ← CCUG 54292
- Rummeliibacillus pycnus**  
11075<sup>T</sup> ← HSNC 1446
- Saccharibacillus kuerlensis**  
14865<sup>T</sup> ← H. Liu HR1
- Saccharibacter floricolae**  
12116<sup>T</sup> ← R. Fudou S-877
- Saccharofermentans acetigenes**  
14006<sup>T</sup> ← S. Chen P6
- Saccharomonospora azurea**  
3098 ← KCC A-0098  
3120 ← KCC A-0120  
7551<sup>T</sup> ← R. Hu NA-128
- Saccharomonospora cyanea**  
7552<sup>T</sup> ← R. Hu NA-134
- Saccharomonospora glauca**  
3033 ← KCC A-0033  
7444<sup>T</sup> ← H. J. Kutzner K62  
10978 ← IFO 14050
- Saccharomonospora halophila**  
11761<sup>T</sup> ← DSM 44411
- Saccharomonospora paurometabolica**  
13241<sup>T</sup> ← DSM 44619
- Saccharomonospora saliphila**  
15627<sup>T</sup> ← KCTC 19234
- Saccharomonospora sp.**  
9891 ← AS 4.1193
- Saccharomonospora viridis**  
3036<sup>T</sup> ← KCC A-0036  
3315 ← KCC A-0315
- Saccharomonospora xinjiangensis**  
11270<sup>T</sup> ← DSM 44391
- Saccharopolyspora antimicrobica**  
16610<sup>T</sup> ← CCM 7463
- Saccharopolyspora erythraea**  
4748<sup>T</sup> ← KCC S-0748
- Saccharopolyspora flava**  
10665<sup>T</sup> ← Z. Liu 07
- Saccharopolyspora gregorii**  
9687<sup>T</sup> ← NCIMB 12823
- Saccharopolyspora halophila**  
16221<sup>T</sup> ← KCTC 19162
- Saccharopolyspora hirsuta** subsp. *hirsuta*  
3170<sup>T</sup> ← KCC A-0170
- Saccharopolyspora hirsuta** subsp. *kobensis*  
9109<sup>T</sup> ← IFO 15151
- Saccharopolyspora hordei**  
6303 ← J. Lacey A868 (M. Goodfellow A65)  
6304 ← J. Lacey A1016 (M. Goodfellow A87)  
8090<sup>T</sup> ← NCIMB 12824
- Saccharopolyspora jiangxiensis**  
14613<sup>T</sup> ← J. Zhang W12
- Saccharopolyspora phathalungensis**  
16708<sup>T</sup> ← TISTR 1921
- Saccharopolyspora rectivirgula**  
3034 ← KCC A-0034  
3057<sup>T</sup> ← KCC A-0057  
3099 ← KCC A-0099
- Saccharopolyspora shandongensis**  
14614<sup>T</sup> ← J. Zhang 88
- Saccharopolyspora spinosa**  
9375<sup>T</sup> ← NRRL 18395
- Saccharopolyspora spinosporotrichia**  
10303<sup>T</sup> ← AS 4.198
- Saccharopolyspora taberi**  
9383<sup>T</sup> ← NRRL B-16173
- Saccharopolyspora thermophila**  
10664<sup>T</sup> ← Z. Liu 216
- Saccharothrix algeriensis**  
13242<sup>T</sup> ← DSM 44581
- Saccharothrix australiensis**  
3370<sup>T</sup> ← NRRL 11239
- Saccharothrix coeruleofusca**  
3313<sup>T</sup> ← KCC A-0313
- Saccharothrix espanaensis**  
9112<sup>T</sup> ← IFO 15066
- Saccharothrix longispora**  
3314<sup>T</sup> ← KCC A-0314
- Saccharothrix mutabilis** subsp. *capreolus*  
4248<sup>T</sup> ← KCC S-0248  
4630<sup>T</sup> ← KCC S-0630
- Saccharothrix mutabilis** subsp. *mutabilis*  
3380<sup>T</sup> ← IFM 0240
- Saccharothrix syringae**  
6844<sup>T</sup> ← A. Shimazu AIAM 5063
- Saccharothrix texensis**  
9113<sup>T</sup> ← IFO 14971
- Saccharothrix variispora**  
3273<sup>T</sup> ← KCC A-0273
- Saccharothrix violaceirubra**  
16955<sup>T</sup> ← KCTC 19326
- Saccharothrix xinjiangensis**  
12329<sup>T</sup> ← Y. Zhou PYX-6
- Salana multivorans**  
13524<sup>T</sup> ← DSM 13521
- Salimicrobium album**  
2574<sup>T</sup> ← M. V. Hao HK 733  
2575 ← M. V. Hao HK 734  
2576 ← M. V. Hao HK 735
- Salimicrobium halophilum**  
12305<sup>T</sup> ← DSM 4771
- Salimicrobium salexigens**  
16414<sup>T</sup> ← C. Sanchez-Porro 29CMI
- Salinibacillus aidingensis**  
12389<sup>T</sup> ← AS 1.3565
- Salinibacterium amurskyense**  
12362<sup>T</sup> ← KCTC 9931
- Salinibacterium xinjiangense**  
13926<sup>T</sup> ← D. Zhang and P.-J. Zhou 0543
- Salinicoccus alkaliphilus**  
11311<sup>T</sup> ← W. Zhang T8
- Salinicoccus carnicancri**  
15796<sup>T</sup> ← J.-W. Bae
- Salinicoccus hispanicus**  
14631<sup>T</sup> ← CCM 4148
- Salinicoccus jeotgali**  
16981<sup>T</sup> ← W.-T. Im S2R53-5
- Salinicoccus roseus**  
14630<sup>T</sup> ← CCM 3516
- Salinicoccus siamensis**  
12822<sup>T</sup> ← A. Pakdeeto PN1-2
- Salinimicrobium catena**  
14015<sup>T</sup> ← S. Liu HY1
- Salinisphaera hydrothermalis**  
15514<sup>T</sup> ← C. Vetriani EPR70
- Salinisphaera shabanensis**  
11575<sup>T</sup> ← R. Huber E1L3A
- Salinispora arenicola**  
13856<sup>T</sup> ← DSM 44819
- Salinispora tropica**  
13857<sup>T</sup> ← DSM 44818
- Salinivibrio costicola** subsp. *costicola*  
15095<sup>T</sup> ← CIP 103310
- Salinivibrio costicola** subsp. *vallismortis*  
15096<sup>T</sup> ← CIP 106635
- Salinivibrio siamensis**  
14472<sup>T</sup> ← S. Tanasupawat ND1-1
- Salmonella enterica** subsp. *enterica*  
1651 ← R. Sakazaki 49  
1652 ← R. Sakazaki  
3919 ← R. Sakazaki 4641-84  
6977 ← IFO 14193  
6978 ← IFO 14194  
6979 ← IFO 14209

6980	←IFO 14210	20082	←IAM 1162	12192 <sup>T</sup>	←J.-H. Yoon SW-117
6981	←IFO 14211	20091	←IAM 1184	Shewanella piezotolerans	
6982	←IFO 14212	20104	←IAM 1205	13877 <sup>T</sup>	←F. Wang WP3
8721	←R. Sakazaki 421	20115	←IAM 1223	Shewanella pneumatophori	
<i>Sanguibacter antarcticus</i>		20124	←IAM 1240	13187 <sup>T</sup>	←I. Yumoto SCRC-2738
14623 <sup>T</sup>	←H. K. Lee KOPRI 21702	20434	←IAM 12143	Shewanella profunda	
<i>Sanguibacter keddieii</i>		20508	←IAM 12352	12080 <sup>T</sup>	←L. Toffin LT13a
11429 <sup>T</sup>	←IFO 16158	20513	←IAM 12359	Shewanella psychrophila	
<i>Sanguibacter marinus</i>		<i>Serratia marcescens</i> subsp. <i>marcescens</i>	13876 <sup>T</sup>	←F. Wang WP2	
12547 <sup>T</sup>	←Y. Huang 1-19	1239 <sup>T</sup>	←R. Sakazaki 296	Shewanella putrefaciens	
<i>Sanguibacter soli</i>		<i>Serratia marcescens</i> subsp. <i>sakuensis</i>	9295	←R. Hugh RH1084	
14841 <sup>T</sup>	←D.-C. Yang DCY22	11315 <sup>T</sup>	←R. Iriye strain KRED	9296	←R. Hugh RH1085
<i>Sanguibacter suarezii</i>		<i>Serratia odorifera</i>	9297	←R. Hugh RH2765	
11430 <sup>T</sup>	←IFO 16159	1243 <sup>T</sup>	←Y. Kosako 331	20190 <sup>T</sup>	←IAM 1509
<i>Saprosira grandis</i>		<i>Serratia plymuthica</i>	20191	←IAM 1510	
21750 <sup>T</sup>	←IAM 15300	1244 <sup>T</sup>	←Y. Kosako 341	20396	←IAM 12089
<i>Saxeibacter lacteus</i>		<i>Serratia rubidaea</i>	20573	←IAM 12425	
16024 <sup>T</sup>	←KCTC 19285	1240 <sup>T</sup>	←R. Sakazaki 306	20940	←IAM 13595
<i>Scardovia inopinata</i>		14263	←A. Ishida N-1	20941	←IAM 13596
12537 <sup>T</sup>	←AS 1.2187	<i>Serratia ureilytica</i>	20942	←IAM 13597 (=K. Yamasato A4186-1)	
<i>Schumannella luteola</i>		16474 <sup>T</sup>	←LMG 22860	20943	←IAM 13598 (=K. Yamasato A4186-2)
23215 <sup>T</sup>	←IAM 15435	<i>Sharpea azabuensis</i>	20944	←IAM 13599	
<i>Scisionella marina</i>		14210 <sup>T</sup>	←H. Morita ST18	20945	←IAM 13600
16222 <sup>T</sup>	←KCTC 19433	16040	←H. Morita HM244	20946	←IAM 13601 (=K. Yamasato A7921-1)
<i>Segniliparus rotundus</i>		16041	←H. Morita HM250	20947	←IAM 13602 (=K. Yamasato A7921-2)
13578 <sup>T</sup>	←CIP 108378	16042	←H. Morita DI49	20948	←IAM 13603
<i>Segniliparus rugosus</i>		<i>Shewanella abyssi</i>	20949	←IAM 13604	
13579 <sup>T</sup>	←CIP 108380	13041 <sup>T</sup>	←M. Miyazaki c941	20950	←IAM 13605
<i>Seinonella peptonophila</i>		<i>Shewanella algae</i>	20951	←IAM 13606	
10113 <sup>T</sup>	←KCTC 9740	20959	←IAM 13614	20952	←IAM 13607
<i>Selenomonas artemidis</i>		21037 <sup>T</sup>	←IAM 14159	20953	←IAM 13608
8543 <sup>T</sup>	←ATCC 43528	<i>Shewanella aquimarina</i>	20954	←IAM 13609	
<i>Selenomonas bovis</i>		12193 <sup>T</sup>	←J.-H. Yoon SW-120	20955	←IAM 13610
15470 <sup>T</sup>	←X. Dong strain WG	<i>Shewanella basaltis</i>	20956	←IAM 13611	
<i>Selenomonas dianae</i>		14937 <sup>T</sup>	←H.-W. Chang J83	20957	←IAM 13612
8542 <sup>T</sup>	←ATCC 43527	<i>Shewanella benthica</i>	20958	←IAM 13613	
<i>Selenomonas flueggei</i>		10173	←Y. Nogi DB172R	20960	←IAM 13615
8544 <sup>T</sup>	←ATCC 43531	10174	←Y. Nogi DB172F	20961	←IAM 13616
<i>Selenomonas infelix</i>		10175	←Y. Nogi DB5501	20962	←IAM 13617
8545 <sup>T</sup>	←ATCC 43532	10176	←Y. Nogi DB6101	20963	←IAM 13618
<i>Selenomonas noxia</i>		10177	←Y. Nogi DB6705	20964	←IAM 13619
8546 <sup>T</sup>	←ATCC 43541	10178	←Y. Nogi DB6906	<i>Shewanella sairae</i>	
<i>Selenomonas ruminantium</i> subsp.		10264	←Y. Nogi DB21MT-2	11563 <sup>T</sup>	←M. Satomi SM2-1
<i>lactilytica</i>		<i>Shewanella decolorationis</i>	<i>Shewanella schlegeliana</i>		
6582 <sup>T</sup>	←ATCC 19205	21555 <sup>T</sup>	11561 <sup>T</sup>	←M. Satomi HRKA1	
7528	←ATCC 27209	<i>Shewanella donghaensis</i>	11562	←M. Satomi HRKC24	
<i>Selenomonas sputigena</i>		12524 <sup>T</sup>	←S.-J. Kim LT17	<i>Shewanella spongiae</i>	
6580	←ATCC 33150	<i>Shewanella gaetbuli</i>	11814 <sup>T</sup>	13830 <sup>T</sup>	←K. K. Kwon HJ039
<i>Serinicoccus marinus</i>		11814 <sup>T</sup>	←J.-H. Yoon TF-27	<i>Shewanella surugensis</i>	
13024 <sup>T</sup>	←KCTC 9980	<i>Shewanella haliotis</i>	<i>Shewanella violacea</i>		
<i>Serinicoccus profundus</i>		14758 <sup>T</sup>	10179 <sup>T</sup>	11835 <sup>T</sup>	←Y. Nogi DSS12
17740 <sup>T</sup>	←CGMCC 4.5582	<i>Shewanella hanedai</i>	<i>Shewanella xiamenensis</i>	←Y. Nogi c959	
<i>Serratia ficaria</i>		20706 <sup>T</sup>	16212 <sup>T</sup>	14729 <sup>T</sup>	←J. Huang S4
1241 <sup>T</sup>	←Y. Kosako 316	<i>Shewanella irciniae</i>	<i>Shimazuella kribbensis</i>	←C.-J. Kim A 9500	
<i>Serratia fonticola</i>		13528 <sup>T</sup>	15074 <sup>T</sup>	<i>Shimia marina</i>	
1242 <sup>T</sup>	←Y. Kosako 321	<i>Shewanella japonica</i>	15074 <sup>T</sup>	13038 <sup>T</sup>	←D. H. Choi CL-TA03
<i>Serratia grimesii</i>		21433 <sup>T</sup>	11558 <sup>T</sup>	<i>Shimwellia blattae</i>	
5910 <sup>T</sup>	←Y. Kosako 84025	<i>Shewanella kaireitica</i>	11559	1650 <sup>T</sup>	16236 <sup>T</sup>
<i>Serratia liquefaciens</i>		11836 <sup>T</sup>	←M. Satomi IK-1	←Y. Kosako	←M. J. Lee MJ02
1245 <sup>T</sup>	←Y. Kosako 351	<i>Shewanella marina</i>	11560	<i>Shinella daejeonensis</i>	
<i>Serratia marcescens</i>		15074 <sup>T</sup>	←M. Satomi C4		
20012	←IAM 1022	<i>Shewanella marinintestina</i>			
20052	←IAM 1104	11558 <sup>T</sup>	←M. Satomi IK-1		
20053	←IAM 1105	11559	←M. Satomi 2T11		
20070	←IAM 1136	11560	←M. Satomi HZ17		
20081	←IAM 1161	<i>Shewanella marisflavi</i>			

<i>Shinella granuli</i>	<i>Sphingobacterium multivorum</i>	7512 ←GIFU 2135
13254 <sup>T</sup> ←S.-T. Lee Ch06	7461 ←H. Oyaizu KS 0433	7517 ←GIFU 2266
<i>Shinella kummerowiae</i>	7463 ←H. Oyaizu KS 0435	7520 ←GIFU 11693
14778 <sup>T</sup> ←CCBAU 25048	20183 ←IAM 1493	
<i>Shinella zoogloeoides</i>	21156 <sup>T</sup> ←IAM 14316	
20728 <sup>T</sup> ←IAM 12669		
<i>Silvimonas terrae</i>	<i>Sphingobacterium siyangense</i>	<i>Sphingomonas paucimobilis</i>
21671 <sup>T</sup> ←IAM 15217	14866 <sup>T</sup> ←H. Liu SY1	7509 ←GIFU 2406
<i>Simiduia agarivorans</i>	<i>Sphingobacterium</i> sp.	7511 ←GIFU 1367
13881 <sup>T</sup> ←W. Y. Shieh SA1	16391 ←KACC 11313	7515 ←GIFU 2396
<i>Sinomonas atrocyanea</i>	21489 ←IAM 15026	7516 <sup>T</sup> ←GIFU 2395
1329 <sup>T</sup> ←IAM 12339		7518 ←GIFU 2137
<i>Sinomonas flava</i>	<i>Sphingobacterium spiritivorum</i>	7519 ←GIFU 11386
16034 <sup>T</sup> ←LMG 24447	1277 <sup>T</sup> ←NCTC 11386	7521 ←GIFU 11385
<i>Slackia equolifaciens</i>	1732 ←NCTC 11388	
16059 <sup>T</sup> ←M. Hattori strain DZE	1733 ←NCTC 13887	<i>Sphingomonas pituitosa</i>
<i>Slackia exigua</i>	6897 <sup>T</sup> ←E. Yabuchi GIFU 3101	21727 <sup>T</sup> ←IAM 15276
11022 <sup>T</sup> ←CIP 105133	21154 ←IAM 14314	<i>Sphingomonas pruni</i>
<i>Slackia faecicanis</i>	<i>Sphingobacterium thalpophilum</i>	10277 <sup>T</sup> ←E. Yabuchi EY4228
14555 <sup>T</sup> ←CIP 108281	21153 <sup>T</sup> ←IAM 14313	<i>Sphingomonas rosa</i>
<i>Slackia heliotrinireducens</i>	<i>Sphingobium abikone</i> se	10276 <sup>T</sup> ←E. Yabuchi EY4227
14554 <sup>T</sup> ←CCUG 47954	20554 <sup>T</sup> ←IAM 12404	21081 ←IAM 14223
<i>Slackia isoflavoniconvertens</i>	<i>Sphingobium amiense</i>	21082 ←IAM 14224
16137 <sup>T</sup> ←CCUG 57679	11777 <sup>T</sup> ←H. Ohta strain YT	<i>Sphingomonas roseiflava</i>
<i>Slackia piriformis</i>	<i>Sphingobium chungbukense</i>	21329 <sup>T</sup> ←IAM 14823
16070 <sup>T</sup> ←Y. Watanabe A15 (=YIT 12062)	11454 <sup>T</sup> ←KCTC 2955	<i>Sphingomonas rubra</i>
<i>Smaragdinococcus niigatensis</i>	<i>Sphingobium cloacae</i>	16230 <sup>T</sup> ←Y.-Y. Huo BH3
14666 <sup>T</sup> ←IFM 10815	10874 <sup>T</sup> ←N. Urano S-3	<i>Sphingomonas sanguinis</i>
<i>Sneathiella glossodoripedis</i>	<i>Sphingobium japonicum</i>	7514 <sup>T</sup> ←GIFU 2397
23214 <sup>T</sup> ←IAM 15419	17232 ←Y. Nagata UT26S	<i>Sphingomonas soli</i>
<i>Snuella lapsa</i>	<i>Sphingobium</i> sp.	21668 <sup>T</sup> ←IAM 15213
17111 <sup>T</sup> ←J. Chun JC2132	17233 ←Y. Nagata MI205	<i>Sphingomonas</i> sp.
<i>Solirubrobacter pauli</i>	17495 ←E. Masai SYK-6	7513 ←GIFU 11456
13025 <sup>T</sup> ←KCTC 9974	<i>Sphingomonas adhaesiva</i>	10459 ←Y. Doi KT-1
<i>Solirubrobacter soli</i>	7370 <sup>T</sup> ←GIFU 11458	21328 ←IAM 14822
14923 <sup>T</sup> ←LMG 23485	<i>Sphingomonas aquatilis</i>	21330 ←IAM 14824
<i>Solitalea canadensis</i>	11455 <sup>T</sup> ←KCTC 2881	21331 ←IAM 14825
21819 <sup>T</sup> ←IAM 15375	<i>Sphingomonas asaccharolytica</i>	21332 ←IAM 14826
<i>Solobacterium moorei</i>	21229 <sup>T</sup> ←IAM 14458	<i>Sphingomonas suberifaciens</i>
10645 <sup>T</sup> ←Y. Benno RCA59-74	<i>Sphingomonas azotifigens</i>	8521 <sup>T</sup> ←ATCC 49355
10646 ←Y. Benno RCA59-75	21734 <sup>T</sup> ←IAM 15283	8522 ←ATCC 49356
10647 ←Y. Benno RCA59-79	" <i>Sphingomonas azotoformans</i> "	8523 ←ATCC 49381
<i>Sorangium cellulosum</i>	21589 <sup>T</sup> ←IAM 15131	8524 ←ATCC 49382
12707 <sup>T</sup> ←DSM 14627	<i>Sphingomonas capsulata</i>	<i>Sphingomonas terrae</i>
<i>Sphaerisporangium album</i>	7452 <sup>T</sup> ←H. Oyaizu KS 0413	10195 <sup>T</sup> ←IFO 15098
16907 <sup>T</sup> ←DSM 45172	7508 <sup>T</sup> ←GIFU 11526	<i>Sphingomonas trueperi</i>
<i>Sphaerisporangium cinnabarinum</i>	<i>Sphingomonas chlorophenolica</i>	10278 <sup>T</sup> ←E. Yabuchi EY4218
3291 <sup>T</sup> ←KCC A-0291	10275 <sup>T</sup> ←E. Yabuchi EY4219	<i>Sphingomonas ursincola</i>
<i>Sphaerisporangium flaviroseum</i>	" <i>Sphingomonas ginsenosidimutans</i> "	13370 <sup>T</sup> ←DSM 9006
16908 <sup>T</sup> ←DSM 45170	17074 <sup>T</sup> ←W.-T. Im Gsoil 1429	<i>Sphingomonas wittichii</i>
<i>Sphaerisporangium melleum</i>	" <i>Sphingomonas humi</i> "	15750 <sup>T</sup> ←DSM 6014
13064 <sup>T</sup> ←I. Ara 3-28(8)	16603 <sup>T</sup> ←M. Y. Kim PB323	<i>Sphingomonas yabuuchiae</i>
13065 ←I. Ara 4-20(13)	<i>Sphingomonas insulae</i>	11416 <sup>T</sup> ←T. Ezaki A1-18
13066 ←I. Ara 3D-70(20)	14603 <sup>T</sup> ←J.-H. Yoon DS-28	<i>Sphingomonas yanoikuyae</i>
13068 ←I. Ara 5-81(36)	<i>Sphingomonas japonica</i>	7371 <sup>T</sup> ←GIFU 9882
<i>Sphaerisporangium rubeum</i>	15438 <sup>T</sup> ←N. Tanaka KC7	10196 ←IFO 15163
13067 <sup>T</sup> ←I. Ara 3D-72(35)	<i>Sphingomonas koreensis</i>	10197 ←IFO 15164
<i>Sphaerisporangium viridialbum</i>	11456 <sup>T</sup> ←KCTC 2882	10274 ←E. Yabuchi EY4226
3027 <sup>T</sup> ←KCC A-0027	<i>Sphingomonas macrogoltabidus</i>	21084 ←IAM 14226
<i>Sphaerotilus natans</i>	10192 <sup>T</sup> ←IFO 15033	<i>Sphingopyxis litoris</i>
20382 ←IAM 12068	<i>Sphingomonas mali</i>	14162 <sup>T</sup> ←J. Chun FR1093
<i>Sphingobacterium faecium</i>	10193 <sup>T</sup> ←IFO 15500	<i>Sphingopyxis marina</i>
21820 <sup>T</sup> ←IAM 15376	<i>Sphingomonas molluscorum</i>	14161 <sup>T</sup> ←J. Chun FR1087
<i>Sphingobacterium kitahiroshimense</i>	14122 <sup>T</sup> ←M. Uchino	<i>Sphingopyxis panaciterrulae</i>
14970 <sup>T</sup> ←H. Matsuyama 10C	<i>Sphingomonas oligophenolica</i>	14844 <sup>T</sup> ←D.-C. Yang DCY34
	12082 <sup>T</sup> ←H. Ohta S213	<i>Sphingopyxis soli</i>
	<i>Sphingomonas parapaucimobilis</i>	15910 <sup>T</sup> ←J.-W. Bae BL03
	7510 <sup>T</sup> ←GIFU 11387	<i>Sphingopyxis taejonensis</i>
		11457 <sup>T</sup> ←KCTC 2884
		<i>Sphingosinicella microcystinivorans</i>

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>13185<sup>T</sup></i> ← T. Maruyama Y2	20537 ← IAM 12387	<i>Staphylococcus capitis</i> subsp. <i>capitis</i>
<i>Spirilliplanes yamanashiensis</i> 10032 <sup>T</sup> ← IFO 15828	<i>Sporolactobacillus nakayamae</i> subsp. <i>racemicus</i>	2420 <sup>T</sup> ← Y. Kosako
<i>Spirillospora albida</i> 3041 <sup>T</sup> ← KCC A-0041	3413 ← F. Yanagida	<i>Staphylococcus carnosus</i> subsp. <i>carnosus</i>
10979 ← IFO 15800	3417 <sup>T</sup> ← F. Yanagida	6069 ← S. Tanasupawat SK-13
<i>Spirillospora</i> sp. 3123 ← KCC A-0123	3496 ← F. Yanagida	6077 ← S. Tanasupawat SK-07
" <i>Spirillum pleomorphum</i> " 20359 <sup>T</sup> ← IAM 12028	3498 ← F. Yanagida	<i>Staphylococcus carnosus</i> subsp. <i>utilis</i>
<i>Spirochaeta dissipatitropha</i> 12856 <sup>T</sup> ← E. V. Pikuta ASpC2	<i>Sporolactobacillus putidus</i>	6064 ← S. Tanasupawat SK-08
<i>Spirochaeta smaragdinae</i> 15392 <sup>T</sup> ← DSM 11293	15325 <sup>T</sup> ← R. Fujita QC81-06	6065 ← S. Tanasupawat SK-09
<i>Spirochaeta stenostrepta</i> 16534 <sup>T</sup> ← DSM 2028	<i>Sporolactobacillus terrae</i>	6066 ← S. Tanasupawat SK-10
<i>Spongibacter borealis</i> 17304 <sup>T</sup> ← B. C. Cho CL-AS9	3416 ← F. Yanagida	6067 <sup>T</sup> ← S. Tanasupawat SK-11
<i>Sporichthya brevicatenata</i> 10671 <sup>T</sup> ← IFO 16195	3432 ← F. Yanagida	6068 ← S. Tanasupawat SK-12
<i>Sporichthya polymorpha</i> 3089 <sup>T</sup> ← KCC A-0089	3433 ← F. Yanagida	6070 ← S. Tanasupawat SK-06
<i>Sporolactobacillus inulinus</i> 3486 ← F. Yanagida	3461 ← F. Yanagida	<i>Staphylococcus cohnii</i> subsp. <i>cohnii</i>
6014 <sup>T</sup> ← NRIC 1133	3485 ← F. Yanagida	2417 <sup>T</sup> ← Y. Kosako
21112 ← IAM 14267	3499 ← F. Yanagida	<i>Staphylococcus condimenti</i>
<i>Sporolactobacillus kofuensis</i> 3418 ← F. Yanagida	3515 ← F. Yanagida	6074 <sup>T</sup> ← S. Tanasupawat F2
3419 <sup>T</sup> ← F. Yanagida	3516 <sup>T</sup> ← F. Yanagida	6911 ← S. Tanasupawat F8
<i>Sporolactobacillus laevolacticus</i> 2513 <sup>T</sup> ← IAM 12321	<i>Sporolactobacillus vineae</i>	<i>Staphylococcus epidermidis</i>
2514 ← IAM 12322	14637 <sup>T</sup> ← Y.-H. Chang SL153	2414 <sup>T</sup> ← Y. Kosako
2515 ← IAM 12323	<i>Sporolitulus thermophilus</i>	20345 ← IAM 12012
2517 ← IAM 12318	15556 <sup>T</sup> ← C. D. Ogg and B. K. C. Patel	<i>Staphylococcus felis</i>
3440 ← F. Yanagida	strain AeG	7469 <sup>T</sup> ← S. Igimi GD 521
3464 ← F. Yanagida	<i>Sporosalibacterium faouarensense</i>	<i>Staphylococcus haemolyticus</i>
3466 ← F. Yanagida	15487 <sup>T</sup> ← M.-L. Fardeau SOL3f37	2416 <sup>T</sup> ← Y. Kosako
3468 ← F. Yanagida	<i>Sporosarcina antarctica</i>	<i>Staphylococcus hyicus</i> subsp. <i>hyicus</i>
3471 ← F. Yanagida	14646 <sup>T</sup> ← D.-C. Zhang et al. N-05	2423 <sup>T</sup> ← R. Sakazaki
3475 ← F. Yanagida	<i>Sporosarcina aquimarina</i>	<i>Staphylococcus intermedius</i>
3481 ← F. Yanagida	10887 <sup>T</sup> ← Y.-H. Park SW28	2422 <sup>T</sup> ← R. Sakazaki
3489 ← F. Yanagida	<i>Sporosarcina globispora</i>	<i>Staphylococcus piscifermentans</i>
3491 ← F. Yanagida	10046 <sup>T</sup> ← CCM 2119	6056 ← S. Tanasupawat SK-02
3495 ← F. Yanagida	<i>Sporosarcina koreensis</i>	6057 <sup>T</sup> ← S. Tanasupawat SK-03
3500 ← F. Yanagida	16400 <sup>T</sup> ← KACC 11299	6058 ← S. Tanasupawat SK-04
3504 ← F. Yanagida	<i>Sporosarcina luteola</i>	6059 ← S. Tanasupawat SK-05
3505 ← F. Yanagida	15791 <sup>T</sup> ← T. Tominaga Y1	6061 ← S. Tanasupawat SK-14
3520 ← F. Yanagida	<i>Sporosarcina psychrophila</i>	6062 ← S. Tanasupawat SK-15
3521 ← F. Yanagida	9075 <sup>T</sup> ← NRRL NRS-1530	6063 ← S. Tanasupawat SK-16
20530 ← IAM 12379	<i>Sporosarcina saromensis</i>	6071 ← S. Tanasupawat Ph78
<i>Sporolactobacillus nakayamae</i> subsp. <i>nakayamae</i>	23205 <sup>T</sup> ← IAM 15429	6072 ← S. Tanasupawat Ph79S
3445 ← F. Yanagida	<i>Sporosarcina soli</i>	6073 ← S. Tanasupawat Ph79L
3446 ← F. Yanagida	16401 <sup>T</sup> ← KACC 11300	<i>Staphylococcus pseudointermedius</i>
3447 ← F. Yanagida	<i>Sporosarcina ureae</i>	17571 <sup>T</sup> ← LMG 22219
3450 ← F. Yanagida	2577 <sup>T</sup> ← M. V. Hao HK 806	<i>Staphylococcus saccharolyticus</i>
3451 ← F. Yanagida	2578 ← M. V. Hao HK 801	1768 <sup>T</sup> ← DSM 20359
3454 ← F. Yanagida	2579 ← M. V. Hao HK 802	<i>Staphylococcus saprophyticus</i> subsp. <i>saprophyticus</i>
3456 ← F. Yanagida	2580 ← M. V. Hao HK 803	2427 <sup>T</sup> ← Y. Kosako
3459 ← F. Yanagida	2581 ← M. V. Hao HK 804	20595 ← IAM 12453
3484 ← F. Yanagida	2582 ← M. V. Hao HK 805	20596 ← IAM 12454
3487 ← F. Yanagida	2583 ← M. V. Hao HK 807	20597 ← IAM 12455
3488 ← F. Yanagida	<i>Sporotomaculum syntrophicum</i>	<i>Staphylococcus schleiferi</i> subsp. <i>coagulans</i>
3501 ← F. Yanagida	11495 <sup>T</sup> ← Y. Qiu strain FB	7470 <sup>T</sup> ← S. Igimi GA 211
3513 ← F. Yanagida	<i>Stackebrandtia nassauensis</i>	<i>Staphylococcus sciuri</i>
3514 <sup>T</sup> ← F. Yanagida	14905 <sup>T</sup> ← NBRC 102104	2425 <sup>T</sup> ← ATCC 29062
	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	<i>Staphylococcus simulans</i>
	2151 ← IAM 12082	2424 <sup>T</sup> ← Y. Kosako
	2179 ← K. Itoh	<i>Staphylococcus</i> sp.
	2413 ← Y. Kosako	10533 ← M. Ohkuma Gf-07
	2874 ← R. Sakazaki 85047	20142 ← IAM 1296
	8702 ← K. Hiramatsu MR108	21348 ← IAM 14842
	8703 ← K. Hiramatsu JO18	<i>Staphylococcus warneri</i>
	8704 ← K. Hiramatsu MR6	2415 <sup>T</sup> ← Y. Kosako
	16554 ← N. Noguchi L20A	11004 ← A. Ishizaki ISK-1
	16555 ← N. Noguchi TS77	11005 ← A. Ishizaki strain Nagano
	16556 ← N. Noguchi TPS162	<i>Staphylococcus xylosus</i>
	20049 ← IAM 1098	2418 <sup>T</sup> ← Y. Kosako
	20624 <sup>T</sup> ← IAM 12544	

<i>Stappia stellulata</i>	4838 <sup>T</sup> ←KCC S-0838	<i>Streptococcus gallolyticus</i> subsp. <i>pasteurianus</i>
20692 <sup>T</sup> ←IAM 12621		12261 <sup>T</sup> ←CIP 107122
<i>Starkeya koreensis</i>	5671 <sup>T</sup> ←ATCC 13813	<i>Streptococcus gordoni</i>
21669 <sup>T</sup> ←IAM 15215		12995 <sup>T</sup> ←CCUG 33482
<i>Starkeya novella</i>	12993 <sup>T</sup> ←CCUG 27298	<i>Streptococcus infantis</i>
20403 <sup>T</sup> ←IAM 12100		10157 <sup>T</sup> ←Y. Kawamura GTC 849
<i>Stenothermobacter spongiae</i>	5345 ←A. L. Coykendall strain	<i>Streptococcus intermedius</i>
13191 <sup>T</sup> ←S. Lau UST030701-156	MGFras	12996 <sup>T</sup> ←CCUG 32759
<i>Stenotrophomonas acidaminiphila</i>	5346 ←R. G. Knight	<i>Streptococcus mitis</i>
13310 <sup>T</sup> ←CIP 106456	5347 ←R. G. Knight F-1867	12971 <sup>T</sup> ←DSM 12643
" <i>Stenotrophomonas daejeonensis</i> "	5672 ←ATCC 27960	<i>Streptococcus mutans</i>
16244 ←M. J. Lee MJ03	7883 ←UQM 3553	5175 ←S. Hamada MT 8148
<i>Stenotrophomonas koreensis</i>	7884 ←UQM 3554	5705 <sup>T</sup> ←DSM 20523
13256 <sup>T</sup> ←W.-T. Im TR6-01	7885 ←UQM 3555	<i>Streptococcus oralis</i>
<i>Stenotrophomonas maltophilia</i>	7886 ←UQM 3556	12997 <sup>T</sup> ←CCUG 13229
1975 <sup>T</sup> ←K. Suzuki KS 0001	7887 ←UQM 3557	<i>Streptococcus orisuis</i>
1976 ←K. Suzuki KS 0002	7888 ←UQM 3558	14035 <sup>T</sup> ←M. Hirasawa NUM 1001
1977 ←K. Suzuki KS 0053	7889 ←UQM 3559	<i>Streptococcus peroris</i>
1978 ←K. Suzuki KS 0129	7890 ←UQM 3560	10158 <sup>T</sup> ←Y. Kawamura GTC 848
1979 ←K. Suzuki KS 0130	7891 ←UQM 3561	<i>Streptococcus pleomorphus</i>
1980 ←K. Suzuki KS 0131	7892 ←UQM 3562	10414 <sup>T</sup> ←DSM 20574
1981 ←K. Suzuki KS 0132	7894 ←UQM 3610	<i>Streptococcus pyogenes</i>
1982 ←K. Suzuki KS 0186	7896 ←UQM 3613	5674 <sup>T</sup> ←ATCC 12344
1983 ←K. Suzuki KS 0189	7897 ←UQM 3614	<i>Streptococcus salivarius</i>
1984 ←K. Suzuki KS 0193	7898 ←UQM 3615	5707 <sup>T</sup> ←DSM 20560
1985 ←K. Suzuki KS 0194	7899 ←UQM 3617	<i>Streptococcus sanguinis</i>
1986 ←K. Suzuki KS 0195	7900 ←UQM 3618	5708 <sup>T</sup> ←DSM 20567
1987 ←K. Suzuki KS 0196	7901 ←UQM 3619	<i>Streptococcus sobrinus</i>
1988 ←K. Suzuki KS 0197	7902 ←UQM 3620	5176 ←S. Hamada 6715
3800 ←IAM 1396	7903 ←UQM 3621	<i>Streptococcus</i> sp.
3801 ←IAM 1411	7904 ←UQM 3622	5699 ←DSM 20061
3802 ←IAM 1425	7905 ←UQM 3623	5700 ←DSM 20063
3803 ←IAM 1438		5701 ←DSM 20377
3804 ←IAM 1450		5702 ←DSM 20379
3805 ←IAM 1566		5704 ←DSM 20395
3806 ←IAM 1577		7906 ←UQM 3624
3807 ←IAM 1588		7907 ←UQM 3625
20572 ←IAM 12424		7908 ←UQM 3626
<i>Stenotrophomonas nitritireducens</i>		7909 ←UQM 3627
13311 <sup>T</sup> ←CIP 107228		7910 ←UQM 3628
" <i>Stenotrophomonas panacihumi</i> "		7911 ←UQM 3629
16536 <sup>T</sup> ←M. K. Kim MK06		<i>Streptococcus thermophilus</i>
<i>Stenotrophomonas rhizophila</i>		17834 <sup>T</sup> ←NRIC 0256
13333 <sup>T</sup> ←DSM 14405		20026 ←IAM 1047
<i>Stigmatella hybrida</i>		<i>Streptococcus uberis</i>
12640 <sup>T</sup> ←DSM 14722		5709 <sup>T</sup> ←DSM 20569
<i>Streptacidiphilus albus</i>		<i>Streptococcus ursoris</i>
12363 <sup>T</sup> ←KCTC 9910		16316 <sup>T</sup> ←M. Hirasawa NUM 1615
<i>Streptacidiphilus anmyonensis</i>		<i>Streptomonospora alba</i>
16223 <sup>T</sup> ←KCTC 19278		12680 <sup>T</sup> ←DSM 44588
<i>Streptacidiphilus carbonis</i>		<i>Streptomonospora salina</i>
12364 <sup>T</sup> ←KCTC 9912		11823 <sup>T</sup> ←CCRC 16284
<i>Streptacidiphilus jiangxiensis</i>		<i>Streptomyces abikoensis</i>
12277 <sup>T</sup> ←Y. Huang 33214		4002 <sup>T</sup> ←KCC S-0002
<i>Streptacidiphilus melanogenes</i>		4081 ←KCC S-0081
16224 <sup>T</sup> ←KCTC 19280		4099 ←KCC S-0099
<i>Streptacidiphilus neutrinimicus</i>		4162 ←KCC S-0162
12365 <sup>T</sup> ←KCTC 9911		4176 ←KCC S-0176
<i>Streptacidiphilus oryzae</i>		4289 ←KCC S-0289
13271 <sup>T</sup> ←L. Wang TH49		4503 ←KCC S-0503
<i>Streptacidiphilus rugosus</i>		4514 ←KCC S-0514
16225 <sup>T</sup> ←KCTC 19279		4548 ←KCC S-0548
<i>Streptoalloteichus hindustanus</i>		4635 ←KCC S-0635
3268 <sup>T</sup> ←KCC A-0268		4649 ←KCC S-0649
3269 ←KCC A-0269		4657 ←KCC S-0657
<i>Streptoalloteichus tenebrarius</i>	11119 <sup>T</sup> ←LMG 18488	

Animal  
Plant  
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JCM  
Info

4679 ←KCC S-0679	<i>Streptomyces albofaciens</i>	4228 <sup>T</sup> ←KCC S-0228
4694 ←KCC S-0694	4342 <sup>T</sup> ←KCC S-0342	4621 <sup>T</sup> ←KCC S-0621
4812 ←KCC S-0812	<i>Streptomyces alboflavus</i>	<i>Streptomyces anulatus</i>
4836 ←KCC S-0836	4615 <sup>T</sup> ←KCC S-0615	4194 ←KCC S-0194
10108 ←DSM 41687	<i>Streptomyces albogriseolus</i>	4296 ←KCC S-0296
<i>Streptomyces aburaviensis</i>	4004 <sup>T</sup> ←KCC S-0004	4355 ←KCC S-0355
4170 <sup>T</sup> ←KCC S-0170	4616 <sup>T</sup> ←KCC S-0616	4356 ←KCC S-0356
4613 <sup>T</sup> ←KCC S-0613	" <i>Streptomyces albohelvatus</i> "	4373 ←KCC S-0373
<i>Streptomyces achromogenes</i> subsp.	4448 <sup>T</sup> ←KCC S-0448	4506 ←KCC S-0506
<i>achromogenes</i>	<i>Streptomyces albolongus</i>	4721 <sup>T</sup> ←KCC S-0721
4121 <sup>T</sup> ←KCC S-0121	4716 <sup>T</sup> ←KCC S-0716	<i>Streptomyces arabicus</i>
4561 <sup>T</sup> ←KCC S-0561	<i>Streptomyces alboniger</i>	4161 <sup>T</sup> ←KCC S-0161
<i>Streptomyces achromogenes</i> subsp.	4309 <sup>T</sup> ←KCC S-0309	<i>Streptomyces arduus</i>
<i>rubradirus</i>	4563 <sup>T</sup> ←KCC S-0563	4438 ←KCC S-0438
4955 <sup>T</sup> ←KCC S-0955	<i>Streptomyces albospinus</i>	4543 <sup>T</sup> ←KCC S-0543
" <i>Streptomyces achromogenes</i> subsp.	3399 <sup>T</sup> ←M. Hamada M750-G1	4722 <sup>T</sup> ←KCC S-0722
<i>streptozotocinus</i> "	<i>Streptomyces albovinaceus</i>	4732 ←KCC S-0732
4943 ←KCC S-0943	4343 <sup>T</sup> ←KCC S-0343	<i>Streptomyces arenae</i>
<i>Streptomyces acidiscabies</i>	4379 ←KCC S-0379	4452 <sup>T</sup> ←KCC S-0452
7913 <sup>T</sup> ←ATCC 49003	5076 ←KCC S-1076	<i>Streptomyces argenteolus</i>
" <i>Streptomyces acidoresistans</i> "	<i>Streptomyces albulus</i>	4623 <sup>T</sup> ←KCC S-0623
4713 <sup>T</sup> ←KCC S-0713	4718 <sup>T</sup> ←KCC S-0718	" <i>Streptomyces argillaceus</i> "
" <i>Streptomyces actuosus</i> "	5054 ←KCC S-1054	4975 ←KCC S-0975
4445 <sup>T</sup> ←KCC S-0445	10159 ←M. Hamada MF861-C4 (IMC	<i>Streptomyces armeniacus</i>
<i>Streptomyces aculeolatus</i>	S-0633)	3070 <sup>T</sup> ←KCC A-0070
6055 <sup>T</sup> ←T. Shomura SF-2415	<i>Streptomyces albus</i> subsp. <i>albus</i>	" <i>Streptomyces armentosus</i> "
<i>Streptomyces africanus</i>	4005 ←KCC S-0005	4684 ←KCC S-0684
13243 <sup>T</sup> ←DSM 41829	4177 <sup>T</sup> ←KCC S-0177	<i>Streptomyces ascomycinicus</i>
" <i>Streptomyces agglomeratus</i> "	4450 <sup>T</sup> ←KCC S-0450	4964 <sup>T</sup> ←KCC S-0964
4888 ←KCC S-0888	4703 ←KCC S-0703	<i>Streptomyces asiaticus</i>
" <i>Streptomyces ahyscopicus</i> "	10204 ←C. C. Ho H6506	11443 <sup>T</sup> ←NCIMB 13675
4889 ←KCC S-0889	20474 ←IAM 12315	<i>Streptomyces asterosporus</i>
" <i>Streptomyces akiyoshiensis</i> "	<i>Streptomyces albus</i> subsp. <i>pathocidicus</i>	6912 <sup>T</sup> ←INMI 16
4970 <sup>T</sup> ←KCC S-0970	4166 <sup>T</sup> ←KCC S-0166	<i>Streptomyces atratus</i>
<i>Streptomyces alanosinus</i>	<i>Streptomyces almquistii</i>	3386 <sup>T</sup> ←IFO 3897
4714 <sup>T</sup> ←KCC S-0714	4451 <sup>T</sup> ←KCC S-0451	" <i>Streptomyces atrocyaneus</i> "
<i>Streptomyces albaduncus</i>	<i>Streptomyces alni</i>	4891 <sup>T</sup> ←KCC S-0891
4715 <sup>T</sup> ←KCC S-0715	16122 <sup>T</sup> ←CGMCC 4.3510	" <i>Streptomyces atrofaciens</i> "
<i>Streptomyces albiaxialis</i>	<i>Streptomyces althioticus</i>	4724 <sup>T</sup> ←KCC S-0724
15478 <sup>T</sup> ←CGMCC 4.1876	4344 <sup>T</sup> ←KCC S-0344	" <i>Streptomyces atrolaccus</i> "
<i>Streptomyces albidochromogenes</i>	" <i>Streptomyces amagasakensis</i> "	4892 ←KCC S-0892
13858 <sup>T</sup> ←DSM 41800	5027 <sup>T</sup> ←KCC S-1027	<i>Streptomyces atroolivaceus</i>
<i>Streptomyces albidoflavus</i>	<i>Streptomyces amakusaensis</i>	4345 <sup>T</sup> ←KCC S-0345
4003 ←KCC S-0003	4167 <sup>T</sup> ←KCC S-0167	4432 ←KCC S-0432
4031 ←KCC S-0031	4617 <sup>T</sup> ←KCC S-0617	4658 ←KCC S-0658
4082 ←KCC S-0082	<i>Streptomyces ambofaciens</i>	" <i>Streptomyces atrovilaceus</i> "
4196 ←KCC S-0196	4204 <sup>T</sup> ←KCC S-0204	4944 ←KCC S-0944
4198 ←KCC S-0198	4618 <sup>T</sup> ←KCC S-0618	<i>Streptomyces atrovirens</i>
4357 ←KCC S-0357	<i>Streptomyces anandii</i>	6913 <sup>T</sup> ←INA 1551
4368 ←KCC S-0368	4720 <sup>T</sup> ←KCC S-0720	" <i>Streptomyces aurantiacogriseus</i> "
4393 ←KCC S-0393	<i>Streptomyces angustmyceticus</i>	4893 ←KCC S-0893
4446 <sup>T</sup> ←KCC S-0446	4053 <sup>T</sup> ←KCC S-0053	<i>Streptomyces aurantiacus</i>
4515 ←KCC S-0515	" <i>Streptomyces ansochromogenes</i> subsp.	4135 ←KCC S-0135
4568 ←KCC S-0568	<i>ansochromogenes</i> "	4453 <sup>T</sup> ←KCC S-0453
4608 ←KCC S-0608	4890 ←KCC S-0890	<i>Streptomyces aurantiogriseus</i>
4803 ←KCC S-0803	<i>Streptomyces anthocyanicus</i>	4346 <sup>T</sup> ←KCC S-0346
5066 ←KCC S-1066	5058 <sup>T</sup> ←KCC S-1058	<i>Streptomyces aureocirculatus</i>
5079 ←NRRL B-1561	<i>Streptomyces antibioticus</i>	4454 <sup>T</sup> ←KCC S-0454
9867 ←NRRL B-2593	4007 ←KCC S-0007	<i>Streptomyces aureofaciens</i>
" <i>Streptomyces albidus</i> "	4620 <sup>T</sup> ←KCC S-0620	4008 <sup>T</sup> ←KCC S-0008
4256 ←KCC S-0256	4680 ←KCC S-0680	4624 <sup>T</sup> ←KCC S-0624
4447 <sup>T</sup> ←KCC S-0447	4698 ←KCC S-0698	4941 ←KCC S-0941
" <i>Streptomyces albochromogenes</i> "	4980 ←KCC S-0980	4981 ←KCC S-0981
4697 <sup>T</sup> ←KCC S-0697	" <i>Streptomyces antifibrinolyticus</i> "	" <i>Streptomyces aureomonopodiales</i> "
" <i>Streptomyces albocinerescens</i> "	7351 ←IMET 43654	4456 <sup>T</sup> ←KCC S-0456
4883 ←KCC S-0883	<i>Streptomyces antimycoticus</i>	<i>Streptomyces aureorectus</i>

9947 <sup>T</sup>	←VKM Ac-1828	<i>Streptomyces caelestis</i>	4218 <sup>T</sup>	←KCC S-0218	<i>Streptomyces chattanoogaensis</i>	4299 <sup>T</sup>	←KCC S-0299	
<i>Streptomyces aureoverticillatus</i>	4347 <sup>T</sup>	←KCC S-0347	4566 <sup>T</sup>	←KCC S-0566	<i>Streptomyces cheonanensis</i>	4571 <sup>T</sup>	←KCC S-0571	
<i>Streptomyces aureus</i>	12605 <sup>T</sup>	←NCIMB 13927	" <i>Streptomyces caelicus</i> "	4881	←KCC S-0881	14549 <sup>T</sup>	←KCCM 42119	
" <i>Streptomyces aurigineus</i> "	4458 <sup>T</sup>	←KCC S-0458	" <i>Streptomyces caesioides</i> "	4731 <sup>T</sup>	←KCC S-0731	" <i>Streptomyces chlorochromogenes</i> "	4874 <sup>T</sup>	←KCC S-0874
<i>Streptomyces avellaneus</i>	4321 <sup>T</sup>	←KCC S-0321	<i>Streptomyces calvus</i>	4326 <sup>T</sup>	←KCC S-0326	<i>Streptomyces chrestomyceticus</i>	4540	←KCC S-0540
	4725 <sup>T</sup>	←KCC S-0725		4628 <sup>T</sup>	←KCC S-0628		4735 <sup>T</sup>	←KCC S-0735
<i>Streptomyces avermitilis</i>	5070 <sup>T</sup>	←KCC S-1070	" <i>Streptomyces canadiensis</i> "	4685	←KCC S-0685	<i>Streptomyces chromofuscus</i>	4354 <sup>T</sup>	←KCC S-0354
<i>Streptomyces avicenniae</i>	16801 <sup>T</sup>	←CGMCC 4.5510	<i>Streptomyces canarius</i>	4549 <sup>T</sup>	←KCC S-0549	" <i>Streptomyces chromogenus</i> "	4736 <sup>T</sup>	←KCC S-0736
<i>Streptomyces avidinii</i>	4726 <sup>T</sup>	←KCC S-0726		4733 <sup>T</sup>	←KCC S-0733	<i>Streptomyces chrysaeus</i>	4737 <sup>T</sup>	←KCC S-0737
<i>Streptomyces axinellae</i>	16373 <sup>T</sup>	←CIP 109838	<i>Streptomyces candidus</i>	4195	←KCC S-0195	<i>Streptomyces cinereorectus</i>	6916 <sup>T</sup>	←INA 5202
<i>Streptomyces azureus</i>	4564 <sup>T</sup>	←KCC S-0564		4278	←KCC S-0278	<i>Streptomyces cinereoruber</i> subsp.	4205 <sup>T</sup>	←KCC S-0205
<i>Streptomyces bacillaris</i>	4380	←KCC S-0380	<i>Streptomyces cangkringensis</i>	11444 <sup>T</sup>	←NCIMB 13684	<i>cinereoruber</i>	4572 <sup>T</sup>	←KCC S-0572
	4727 <sup>T</sup>	←KCC S-0727	<i>Streptomyces caniferus</i>	6914 <sup>T</sup>	←INMI 377	<i>Streptomyces cinereoruber</i> subsp.	4956 <sup>T</sup>	←KCC S-0956
	4992	←KCC S-0992	<i>Streptomyces canus</i>	4212 <sup>T</sup>	←KCC S-0212	<i>fructofermentans</i>	6917 <sup>T</sup>	←INA 1719
<i>Streptomyces badius</i>	4350 <sup>T</sup>	←KCC S-0350		4569 <sup>T</sup>	←KCC S-0569	<i>Streptomyces cinereospinus</i>	3040 <sup>T</sup>	←KCC A-0040
<i>Streptomyces bambusicola</i>	4728 <sup>T</sup>	←KCC S-0728	<i>Streptomyces capillispiralis</i>	5075 <sup>T</sup>	←KCC S-1075	<i>Streptomyces cinereus</i>	3385 <sup>T</sup>	←H. Aoki 50
<i>Streptomyces bangladeshensis</i>	14924 <sup>T</sup>	←LMG 22738	<i>Streptomyces capoamuis</i>	4253 <sup>T</sup>	←KCC S-0253	<i>Streptomyces cinnabarinus</i>	4463 <sup>T</sup>	←KCC S-0463
<i>Streptomyces beijingensis</i>	11882 <sup>T</sup>	←DSM 41794		4734 <sup>T</sup>	←KCC S-0734	<i>Streptomyces cinnamonensis</i>	4019 <sup>T</sup>	←KCC S-0019
" <i>Streptomyces bernensis</i> "	5071	←KCC S-1071	" <i>Streptomyces capuensis</i> "	4460 <sup>T</sup>	←KCC S-0460		4982	←KCC S-0982
" <i>Streptomyces bicolor</i> "	4351 <sup>T</sup>	←KCC S-0351	<i>Streptomyces carnosus</i>	4230 <sup>T</sup>	←KCC S-0230	<i>Streptomyces cinnamoneus</i>	4152 <sup>T</sup>	←KCC S-0152
" <i>Streptomyces bifurcus</i> "	4945	←KCC S-0945		4461 <sup>T</sup>	←KCC S-0461		4202	←KCC S-0202
<i>Streptomyces bikiniensis</i>	4011 <sup>T</sup>	←KCC S-0011	<i>Streptomyces carpaticus</i>	6915 <sup>T</sup>	←INA 8851		4331	←KCC S-0331
" <i>Streptomyces bikiniensis</i> " subsp.			<i>Streptomyces carpinensis</i>	3301 <sup>T</sup>	←KCC A-0301		4435	←KCC S-0435
<i>zorbonensis</i> "	4876	←KCC S-0876	" <i>Streptomyces castaneoglobisporus</i> "	4894	←KCC S-0894		4583	←KCC S-0583
<i>Streptomyces blastmyceticus</i>	4060	←KCC S-0060	" <i>Streptomyces castaneus</i> "	4895	←KCC S-0895		4633 <sup>T</sup>	←KCC S-0633
	4184 <sup>T</sup>	←KCC S-0184	<i>Streptomyces castelarensis</i>	4870	←KCC S-0870		4700	←KCC S-0700
	4565 <sup>T</sup>	←KCC S-0565		4978 <sup>T</sup>	←KCC S-0978		4767	←KCC S-0767
	4652	←KCC S-0652	<i>Streptomyces catenulae</i>	4353 <sup>T</sup>	←KCC S-0353		4934	←KCC S-0934
<i>Streptomyces bluensis</i>	4729 <sup>T</sup>	←KCC S-0729	" <i>Streptomyces cattleya</i> "	4925 <sup>T</sup>	←KCC S-0925		4968	←KCC S-0968
<i>Streptomyces bobili</i>	4012 <sup>T</sup>	←KCC S-0012	<i>Streptomyces cavourensis</i>	4249 <sup>T</sup>	←KCC S-0249		5008	←KCC S-1008
	4627 <sup>T</sup>	←KCC S-0627		4298 <sup>T</sup>	←KCC S-0298		10106	←DSM 40898
<i>Streptomyces bottropensis</i>	4459 <sup>T</sup>	←KCC S-0459		4555 <sup>T</sup>	←KCC S-0555		10107	←DSM 40899
<i>Streptomyces brasiliensis</i>	3086 <sup>T</sup>	←KCC A-0086	<i>Streptomyces celostaticus</i>	4183 <sup>T</sup>	←KCC S-0183	" <i>Streptomyces circulatus</i> "	4306	←KCC S-0306
<i>Streptomyces bungoensis</i>	9925 <sup>T</sup>	←IFO 15711		4631 <sup>T</sup>	←KCC S-0631	<i>Streptomyces cirratus</i>	4738 <sup>T</sup>	←KCC S-0738
<i>Streptomyces cacaoi</i> subsp. <i>asoensis</i>	4185 <sup>T</sup>	←KCC S-0185	<i>Streptomyces celluloflavus</i>	4126 <sup>T</sup>	←KCC S-0126	<i>Streptomyces ciscaucasicus</i>	4384 <sup>T</sup>	←KCC S-0384
	4247	←KCC S-0247	<i>Streptomyces cellulosae</i>	4127	←KCC S-0127	" <i>Streptomyces citreus</i> "	4257	←KCC S-0257
<i>Streptomyces cacaoi</i> subsp. <i>cacaoi</i>	4275	←KCC S-0275		4462 <sup>T</sup>	←KCC S-0462		4464 <sup>T</sup>	←KCC S-0464
	4352 <sup>T</sup>	←KCC S-0352	<i>Streptomyces chartreusis</i>	4570 <sup>T</sup>	←KCC S-0570	" <i>Streptomyces citricolor</i> "	5028	←KCC S-1028
	4619	←KCC S-0619				<i>Streptomyces clavifer</i>	5059 <sup>T</sup>	←KCC S-1059

Animal  
Plant  
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JCM  
Info

<i>Streptomyces coacervatus</i>	<i>Streptomyces diastaticus</i> subsp.	<i>Streptomyces filipinensis</i>
17138 <sup>T</sup> ←A. Shibasaki AS-0823	ardesiacus	4369 <sup>T</sup> ←KCC S-0369
<i>Streptomyces coelescens</i>	5815 <sup>T</sup> ←E. M. H. Wellington	<i>Streptomyces fimbriatus</i>
4739 <sup>T</sup> ←KCC S-0739	<i>Streptomyces diastaticus</i> subsp.	4910 ←KCC S-0910
" <i>Streptomyces coeliatius</i> "	diastaticus	5011 ←KCC S-1011
4465 <sup>T</sup> ←KCC S-0465	4128 <sup>T</sup> ←KCC S-0128	5080 <sup>T</sup> ←NRRL B-3175
<i>Streptomyces coelicoflavus</i>	4745 <sup>T</sup> ←KCC S-0745	<i>Streptomyces fimicarius</i>
6918 <sup>T</sup> ←INA 9630	<i>Streptomyces diastatochromogenes</i>	4224 ←KCC S-0224
<i>Streptomyces coeruleofuscus</i>	4119 <sup>T</sup> ←KCC S-0119	4339 ←KCC S-0339
4358 <sup>T</sup> ←KCC S-0358	4746 <sup>T</sup> ←KCC S-0746	4349 ←KCC S-0349
<i>Streptomyces coeruleoprunus</i>	" <i>Streptomyces diastatochromogenes</i> subsp.	4472 <sup>T</sup> ←KCC S-0472
6919 <sup>T</sup> ←INA 1655	luteus"	9766 ←INA 1565/53
<i>Streptomyces coeruleorubidus</i>	4244 <sup>T</sup> ←KCC S-0244	<i>Streptomyces finlayi</i>
4219 ←KCC S-0219	<i>Streptomyces djakartensis</i>	4216 <sup>T</sup> ←KCC S-0216
4292 ←KCC S-0292	4957 <sup>T</sup> ←KCC S-0957	4637 <sup>T</sup> ←KCC S-0637
4359 <sup>T</sup> ←KCC S-0359	<i>Streptomyces drozdzowiczzii</i>	<i>Streptomyces flaveolus</i>
4573 ←KCC S-0573	13580 <sup>T</sup> ←CIP 107837	4032 <sup>T</sup> ←KCC S-0032
4625 ←KCC S-0625	<i>Streptomyces durhamensis</i>	4033 ←KCC S-0033
<i>Streptomyces coerulescens</i>	4291 <sup>T</sup> ←KCC S-0291	4577 <sup>T</sup> ←KCC S-0577
4360 <sup>T</sup> ←KCC S-0360	4747 <sup>T</sup> ←KCC S-0747	4983 ←KCC S-0983
<i>Streptomyces collinus</i>	<i>Streptomyces durmitorenensis</i>	<i>Streptomyces flaveus</i>
4361 <sup>T</sup> ←KCC S-0361	16011 <sup>T</sup> ←DSM 41863	3035 <sup>T</sup> ←KCC A-0035
" <i>Streptomyces coralus</i> "	" <i>Streptomyces eburosporeus</i> "	<i>Streptomyces flavidovirens</i>
4313 <sup>T</sup> ←KCC S-0313	4882 ←KCC S-0882	4474 <sup>T</sup> ←KCC S-0474
4634 <sup>T</sup> ←KCC S-0634	<i>Streptomyces echinatus</i>	" <i>Streptomyces flavidovirens</i> subsp.
<i>Streptomyces corchorusii</i>	4144 <sup>T</sup> ←KCC S-0144	<i>fusca</i> "
4017 ←KCC S-0017	4574 <sup>T</sup> ←KCC S-0574	4960 ←KCC S-0960
4286 <sup>T</sup> ←KCC S-0286	<i>Streptomyces echinoruber</i>	" <i>Streptomyces flavochromogenes</i> "
4467 <sup>T</sup> ←KCC S-0467	5016 <sup>T</sup> ←KCC S-1016	4034 ←KCC S-0034
4632 ←KCC S-0632	<i>Streptomyces ederensis</i>	4752 <sup>T</sup> ←KCC S-0752
" <i>Streptomyces coriofaciens</i> "	4958 <sup>T</sup> ←KCC S-0958	<i>Streptomyces flavofungini</i>
4741 <sup>T</sup> ←KCC S-0741	" <i>Streptomyces elgretaeus</i> "	4753 <sup>T</sup> ←KCC S-0753
<i>Streptomyces costaricanus</i>	5017 ←KCC S-1017	" <i>Streptomyces flavomacrosporus</i> "
11306 <sup>T</sup> ←NRRL B-16897	<i>Streptomyces emeiensis</i>	4896 ←KCC S-0896
" <i>Streptomyces craterifer</i> "	15479 <sup>T</sup> ←CGMCC 4.3504	" <i>Streptomyces flavorectus</i> "
4468 <sup>T</sup> ←KCC S-0468	<i>Streptomyces endus</i>	4897 <sup>T</sup> ←KCC S-0897
<i>Streptomyces cremeus</i>	4213 <sup>T</sup> ←KCC S-0213	<i>Streptomyces flavotricini</i>
4362 <sup>T</sup> ←KCC S-0362	4636 <sup>T</sup> ←KCC S-0636	4371 <sup>T</sup> ←KCC S-0371
" <i>Streptomyces croceus</i> "	<i>Streptomyces enissocaesilis</i>	" <i>Streptomyces flavotricini</i> subsp.
4930 ←KCC S-0930	9088 <sup>T</sup> ←V рМ Ac-130	<i>pseudochromogenes</i> "
<i>Streptomyces crystallinus</i>	" <i>Streptomyces eridanii</i> "	5952 <sup>T</sup> ←M. Sugiyama V-13-1
5067 <sup>T</sup> ←KCC S-1067	4959 ←KCC S-0959	<i>Streptomyces flavovariabilis</i>
<i>Streptomyces cuspidosporus</i>	<i>Streptomyces erythrogriseus</i>	9089 <sup>T</sup> ←V рМ Ac-141
4316 <sup>T</sup> ←KCC S-0316	9650 <sup>T</sup> ←IFO 14601	<i>Streptomyces flavovirens</i>
<i>Streptomyces cyaneofuscatus</i>	" <i>Streptomyces espinosus</i> "	4035 <sup>T</sup> ←KCC S-0035
4364 <sup>T</sup> ←KCC S-0364	5018 ←KCC S-1018	4178 ←KCC S-0178
4967 ←KCC S-0967	<i>Streptomyces eurocidicus</i>	4223 ←KCC S-0223
" <i>Streptomyces cyaneogriseus</i> "	4029 <sup>T</sup> ←KCC S-0029	4475 ←KCC S-0475
4744 <sup>T</sup> ←KCC S-0744	4116 ←KCC S-0116	4578 <sup>T</sup> ←KCC S-0578
<i>Streptomyces cyaneus</i>	4562 ←KCC S-0562	4597 ←KCC S-0597
4220 <sup>T</sup> ←KCC S-0220	4749 <sup>T</sup> ←KCC S-0749	<i>Streptomyces flavoviridis</i>
4743 <sup>T</sup> ←KCC S-0743	<i>Streptomyces eurythermus</i>	4372 <sup>T</sup> ←KCC S-0372
<i>Streptomyces cyanoalbus</i>	4206 <sup>T</sup> ←KCC S-0206	" <i>Streptomyces flavus</i> "
4363 <sup>T</sup> ←KCC S-0363	4575 <sup>T</sup> ←KCC S-0575	4036 ←KCC S-0036
" <i>Streptomyces cyanocolor</i> "	<i>Streptomyces exfoliatus</i>	4436 ←KCC S-0436
4469 <sup>T</sup> ←KCC S-0469	4366 <sup>T</sup> ←KCC S-0366	<i>Streptomyces flocculus</i>
" <i>Streptomyces cyanogenus</i> "	" <i>Streptomyces fasciculatus</i> "	4266 ←KCC S-0266
4470 <sup>T</sup> ←KCC S-0470	4367 <sup>T</sup> ←KCC S-0367	4476 <sup>T</sup> ←KCC S-0476
" <i>Streptomyces cylindosporus</i> "	<i>Streptomyces ferrallitis</i>	<i>Streptomyces fradiae</i>
4132 ←KCC S-0132	14344 <sup>T</sup> ←NCIMB 13954	4037 ←KCC S-0037
<i>Streptomyces daghestanicus</i>	" <i>Streptomyces ficellus</i> "	4133 <sup>T</sup> ←KCC S-0133
4365 <sup>T</sup> ←KCC S-0365	4946 ←KCC S-0946	4154 ←KCC S-0154
" <i>Streptomyces davawensis</i> "	<i>Streptomyces filamentosus</i>	4579 <sup>T</sup> ←KCC S-0579
4913 <sup>T</sup> ←KCC S-0913	4122 <sup>T</sup> ←KCC S-0122	4824 ←KCC S-0824
<i>Streptomyces decoyicus</i>	4412 ←KCC S-0412	<i>Streptomyces fragilis</i>
4550 <sup>T</sup> ←KCC S-0550	4576 <sup>T</sup> ←KCC S-0576	4187 <sup>T</sup> ←KCC S-0187

4638 <sup>T</sup>	←KCC S-0638	4225	←KCC S-0225	4481 <sup>T</sup>	←KCC S-0481
<i>Streptomyces fulvissimus</i>		13859 <sup>T</sup>	←DSM 40815	" <i>Streptomyces griseospiralis</i> "	
4129 <sup>T</sup>	←KCC S-0129	<i>Streptomyces glomeratus</i>		4869	←KCC S-0869
4754 <sup>T</sup>	←KCC S-0754	9091 <sup>T</sup>	←VKM Ac-834	<i>Streptomyces griseosporeus</i>	
<i>Streptomyces fulvorobeus</i>		<i>Streptomyces glomeroaurantiacus</i>		4766 <sup>T</sup>	←KCC S-0766
9090 <sup>T</sup>	←VKM Ac-158	4677 <sup>T</sup>	←KCC S-0677	<i>Streptomyces griseostramineus</i>	
" <i>Streptomyces fulvoviolaceus</i> "		4761	←KCC S-0761	4385 <sup>T</sup>	←KCC S-0385
4676 <sup>T</sup>	←KCC S-0676	" <i>Streptomyces glomerochromogenes</i> "		<i>Streptomyces griseoviridis</i>	
5055	←KCC S-1055	4898 <sup>T</sup>	←KCC S-0898	4250 <sup>T</sup>	←KCC S-0250
" <i>Streptomyces fulvoviridis</i> "		<i>Streptomyces gobitricini</i>		4643 <sup>T</sup>	←KCC S-0643
4374 <sup>T</sup>	←KCC S-0374	5062 <sup>T</sup>	←KCC S-1062	<i>Streptomyces griseus</i>	
<i>Streptomyces fumanus</i>		<i>Streptomyces goshikiensis</i>		4044	←KCC S-0044
4477 <sup>T</sup>	←KCC S-0477	4294 <sup>T</sup>	←KCC S-0294	4046	←KCC S-0046
<i>Streptomyces fumigatiscleroticus</i>		4640 <sup>T</sup>	←KCC S-0640	4047 <sup>T</sup>	←KCC S-0047
3101 <sup>T</sup>	←KCC A-0101	<i>Streptomyces gougerotii</i>		4048	←KCC S-0048
" <i>Streptomyces fungicidicus</i> "		4136 <sup>T</sup>	←KCC S-0136	4049	←KCC S-0049
4123 <sup>T</sup>	←KCC S-0123	4478 <sup>T</sup>	←KCC S-0478	4226	←KCC S-0226
4755 <sup>T</sup>	←KCC S-0755	<i>Streptomyces graminearurus</i>		4319	←KCC S-0319
" <i>Streptomyces furlongus</i> "		6923 <sup>T</sup>	←INA 13982	4320	←KCC S-0320
4971	←KCC S-0971	<i>Streptomyces griseaurantiacus</i>		4420	←KCC S-0420
" <i>Streptomyces fuscoatrus</i> "		4763 <sup>T</sup>	←KCC S-0763	4502	←KCC S-0502
4915	←KCC S-0915	<i>Streptomyces griseocarneus</i>		4516	←KCC S-0516
" <i>Streptomyces gabonae</i> "		4095 <sup>T</sup>	←KCC S-0095	4626	←KCC S-0626
4961	←KCC S-0961	4547	←KCC S-0547	4644 <sup>T</sup>	←KCC S-0644
<i>Streptomyces galbus</i>		4580 <sup>T</sup>	←KCC S-0580	4681	←KCC S-0681
4222 <sup>T</sup>	←KCC S-0222	4829	←KCC S-0829	5012	←KCC S-1012
4639 <sup>T</sup>	←KCC S-0639	4845	←KCC S-0845	5060	←KCC S-1060
<i>Streptomyces galilaeus</i>		5010	←KCC S-1010	" <i>Streptomyces griseus</i> subsp. <i>bruneus</i> "	
4231 <sup>T</sup>	←KCC S-0231	<i>Streptomyces griseochromogenes</i>		5048 <sup>T</sup>	←KCC S-1048
4330	←KCC S-0330	4039 <sup>T</sup>	←KCC S-0039	" <i>Streptomyces griseus</i> subsp. <i>desideus</i> "	
4757 <sup>T</sup>	←KCC S-0757	4764 <sup>T</sup>	←KCC S-0764	4972	←KCC S-0972
" <i>Streptomyces gallinarius</i> "		" <i>Streptomyces griseofaciens</i> "		" <i>Streptomyces griseus</i> subsp. <i>erizensis</i> "	
4952	←KCC S-0952	4984	←KCC S-0984	4973	←KCC S-0973
<i>Streptomyces ganicidicus</i>		<i>Streptomyces griseoflavus</i>		" <i>Streptomyces griseus</i> subsp. <i>formicus</i> "	
4171 <sup>T</sup>	←KCC S-0171	4040	←KCC S-0040	3140	←KCC A-0140
" <i>Streptomyces gangtokensis</i> "		4142	←KCC S-0142	" <i>Streptomyces griseus</i> subsp. <i>rhodochrous</i> "	
5029	←KCC S-1029	4479 <sup>T</sup>	←KCC S-0479	4050	←KCC S-0050
" <i>Streptomyces gannmycicus</i> "		4878	←KCC S-0878	<i>Streptomyces guanduensis</i>	
4759 <sup>T</sup>	←KCC S-0759	<i>Streptomyces griseofuscus</i>		13274 <sup>T</sup>	←Y. Huang 701
<i>Streptomyces gardneri</i>		4276 <sup>T</sup>	←KCC S-0276	<i>Streptomyces gulbargensis</i>	
3004 <sup>T</sup>	←KCC A-0004	4641 <sup>T</sup>	←KCC S-0641	16956 <sup>T</sup>	←KCTC 19179
4375 <sup>T</sup>	←KCC S-0375	5056	←KCC S-1056	" <i>Streptomyces gypseus</i> "	
" <i>Streptomyces gedanensis</i> "		<i>Streptomyces griseoincarnatus</i>		5019	←KCC S-1019
4760 <sup>T</sup>	←KCC S-0760	4381 <sup>T</sup>	←KCC S-0381	<i>Streptomyces hainanensis</i>	
<i>Streptomyces gelaticus</i>		<i>Streptomyces griseoloalbus</i>		15129 <sup>T</sup>	←C.-L. Jiang YIM 47672
4376 <sup>T</sup>	←KCC S-0376	4480 <sup>T</sup>	←KCC S-0480	<i>Streptomyces halstedii</i>	
<i>Streptomyces geysiensis</i>		" <i>Streptomyces griseolosuffuscus</i> "		4052	←KCC S-0052
4962 <sup>T</sup>	←KCC S-0962	4209	←KCC S-0209	4584 <sup>T</sup>	←KCC S-0584
<i>Streptomyces ghanaensis</i>		<i>Streptomyces griseolus</i>		4762	←KCC S-0762
4963 <sup>T</sup>	←KCC S-0963	4042 <sup>T</sup>	←KCC S-0042	<i>Streptomyces hawaiiensis</i>	
<i>Streptomyces gibsonii</i>		4043 <sup>T</sup>	←KCC S-0043	4172 <sup>T</sup>	←KCC S-0172
5061 <sup>T</sup>	←KCC S-1061	4581 <sup>T</sup>	←KCC S-0581	4585 <sup>T</sup>	←KCC S-0585
<i>Streptomyces glaucescens</i>		<i>Streptomyces griseoluteus</i>		" <i>Streptomyces hazeliensis</i> "	
4377 <sup>T</sup>	←KCC S-0377	4041 <sup>T</sup>	←KCC S-0041	4686	←KCC S-0686
<i>Streptomyces glauciniger</i>		4765 <sup>T</sup>	←KCC S-0765	<i>Streptomyces hebeiensis</i>	
12278 <sup>T</sup>	←Y. Huang FXJ14	<i>Streptomyces griseomycini</i>		12696 <sup>T</sup>	←CIP 107974
<i>Streptomyces glaucosporus</i>		4382 <sup>T</sup>	←KCC S-0382	" <i>Streptomyces heimi</i> "	
6921 <sup>T</sup>	←INMI 2979	<i>Streptomyces griseoplanus</i>		4482 <sup>T</sup>	←KCC S-0482
<i>Streptomyces glaucus</i>		4300 <sup>T</sup>	←KCC S-0300	<i>Streptomyces heliomycini</i>	
6922 <sup>T</sup>	←INMI 2965	4582 <sup>T</sup>	←KCC S-0582	9767 <sup>T</sup>	←INA 2915
" <i>Streptomyces globifer</i> "		<i>Streptomyces griseorubens</i>		<i>Streptomyces helvaticus</i>	
5030	←KCC S-1030	4383 <sup>T</sup>	←KCC S-0383	4768 <sup>T</sup>	←KCC S-0768
<i>Streptomyces globisporus</i>		<i>Streptomyces griseoruber.</i>		<i>Streptomyces herbaricolor</i>	
4317	←KCC S-0317	4200 <sup>T</sup>	←KCC S-0200	4138 <sup>T</sup>	←KCC S-0138
4378 <sup>T</sup>	←KCC S-0378	4642 <sup>T</sup>	←KCC S-0642	4645 <sup>T</sup>	←KCC S-0645
<i>Streptomyces globosus</i>		<i>Streptomyces griseorubiginosus</i>			

" <i>Streptomyces heteromorphus</i> "	
5031 ←KCC S-1031	
<i>Streptomyces hiroshimensis</i>	
4083 ←KCC S-0083	
4098 <sup>T</sup> ←KCC S-0098	
4103 ←KCC S-0103	
4211 ←KCC S-0211	
4272 ←KCC S-0272	
4281 ←KCC S-0281	
4305 ←KCC S-0305	
4310 ←KCC S-0310	
4431 ←KCC S-0431	
4457 ←KCC S-0457	
4511 ←KCC S-0511	
4586 <sup>T</sup> ←KCC S-0586	
4607 ←KCC S-0607	
4750 ←KCC S-0750	
4926 ←KCC S-0926	
8881 ←PCM 2404	
<i>Streptomyces hirsutus</i>	
4191 <sup>T</sup> ←KCC S-0191	
4587 <sup>T</sup> ←KCC S-0587	
" <i>Streptomyces horton</i> "	
4769 <sup>T</sup> ←KCC S-0769	
<i>Streptomyces humidus</i>	
4386 <sup>T</sup> ←KCC S-0386	
" <i>Streptomyces humidus</i> subsp. <i>antitumoris</i> "	
4927 <sup>T</sup> ←KCC S-0927	
" <i>Streptomyces humifer</i> "	
5051 <sup>T</sup> ←KCC S-1051	
<i>Streptomyces humiferus</i>	
3037 <sup>T</sup> ←KCC A-0037	
3044 ←KCC A-0044	
<i>Streptomyces hyderabadensis</i>	
17657 <sup>T</sup> ←PCM 2692	
<i>Streptomyces hydrogenans</i>	
4771 <sup>T</sup> ←KCC S-0771	
" <i>Streptomyces hygroscopicus</i> subsp. <i>aabomyceticus</i> "	
4430 <sup>T</sup> ←KCC S-0430	
" <i>Streptomyces hygroscopicus</i> subsp. <i>crystallogenens</i> "	
5049 ←KCC S-1049	
" <i>Streptomyces hygroscopicus</i> subsp. <i>duamyceticus</i> "	
4427 ←KCC S-0427	
<i>Streptomyces hygroscopicus</i> subsp. <i>glebosus</i>	
4954 <sup>T</sup> ←KCC S-0954	
" <i>Streptomyces hygroscopicus</i> subsp. <i>halomyceticus</i> "	
4683 ←KCC S-0683	
<i>Streptomyces hygroscopicus</i> subsp. <i>hygroscopicus</i>	
4092 ←KCC S-0092	
4439 ←KCC S-0439	
4712 ←KCC S-0712	
4772 <sup>T</sup> ←KCC S-0772	
4885 ←KCC S-0885	
" <i>Streptomyces hygroscopicus</i> subsp. <i>limoneus</i> "	
4911 <sup>T</sup> ←KCC S-0911	
<i>Streptomyces hygroscopicus</i> subsp. <i>ossamyceticus</i>	
4965 <sup>T</sup> ←KCC S-0965	
" <i>Streptomyces hygrospinosus</i> "	
4899 <sup>T</sup> ←KCC S-0899	
<i>Streptomyces iakyurus</i>	
4254 <sup>T</sup> ←KCC S-0254	
4773 <sup>T</sup> ←KCC S-0773	
" <i>Streptomyces inaequalis</i> "	
5032 ←KCC S-1032	
<i>Streptomyces indiaensis</i>	
3053 <sup>T</sup> ←KCC A-0053	
" <i>Streptomyces indicus</i> "	
4560 <sup>T</sup> ←KCC S-0560	
" <i>Streptomyces indigocolor</i> "	
4774 <sup>T</sup> ←KCC S-0774	
<i>Streptomyces indigoferus</i>	
4151 ←KCC S-0151	
4646 <sup>T</sup> ←KCC S-0646	
<i>Streptomyces indonesiensis</i>	
11445 <sup>T</sup> ←NCIMB 13673	
<i>Streptomyces intermedius</i>	
4197 <sup>T</sup> ←KCC S-0197	
4483 <sup>T</sup> ←KCC S-0483	
<i>Streptomyces inusitatus</i>	
4988 <sup>T</sup> ←KCC S-0988	
<i>Streptomyces iranensis</i>	
17327 <sup>T</sup> ←CCUG 57623	
" <i>Streptomyces ishigakiensis</i> "	
5033 ←KCC S-1033	
<i>Streptomyces javensis</i>	
11446 <sup>T</sup> ←NCIMB 13679	
<i>Streptomyces jietaisensis</i>	
12279 <sup>T</sup> ←Y. Huang FXJ46	
" <i>Streptomyces jujuy</i> "	
5020 ←KCC S-1020	
" <i>Streptomyces jumonjinensis</i> "	
4947 ←KCC S-0947	
" <i>Streptomyces kagawaensis</i> "	
4950 ←KCC S-0950	
<i>Streptomyces kanamyceticus</i>	
4433 <sup>T</sup> ←KCC S-0433	
4775 <sup>T</sup> ←KCC S-0775	
" <i>Streptomyces kaniharaensis</i> "	
5034 ←KCC S-1034	
" <i>Streptomyces karnatakensis</i> "	
4485 <sup>T</sup> ←KCC S-0485	
<i>Streptomyces kasugaensis</i>	
4208 <sup>T</sup> ←KCC S-0208	
" <i>Streptomyces kasugaspinus</i> "	
4873 ←KCC S-0873	
<i>Streptomyces katrae</i>	
4777 <sup>T</sup> ←KCC S-0777	
" <i>Streptomyces kitasatoensis</i> "	
5000 ←KCC S-1000	
5001 ←KCC S-1001	
" <i>Streptomyces kobensis</i> "	
5006 ←KCC S-1006	
<i>Streptomyces koyangensis</i>	
14915 <sup>T</sup> ←DSM 41864	
" <i>Streptomyces krainskii</i> "	
4487 <sup>T</sup> ←KCC S-0487	
<i>Streptomyces kunmingensis</i>	
7473 <sup>T</sup> ←IFO 14463	
<i>Streptomyces kurssanovii</i>	
4388 <sup>T</sup> ←KCC S-0388	
<i>Streptomyces labedae</i>	
9381 <sup>T</sup> ←NRRL B-5616	
" <i>Streptomyces laeteviolaceus</i> "	
4875 <sup>T</sup> ←KCC S-0875	
<i>Streptomyces lanatus</i>	
4332 <sup>T</sup> ←KCC S-0332	
4588 <sup>T</sup> ←KCC S-0588	
" <i>Streptomyces lasaliensis</i> "	
3373 ←NRRL 3382	
<i>Streptomyces lateritius</i>	
4389 <sup>T</sup> ←KCC S-0389	
<i>Streptomyces laurentii</i>	
5063 <sup>T</sup> ←KCC S-1063	
<i>Streptomyces lavendofoliae</i>	
4391 <sup>T</sup> ←KCC S-0391	
" <i>Streptomyces lavendulae</i> subsp. <i>fuscus</i> "	
5025 <sup>T</sup> ←KCC S-1025	
<i>Streptomyces lavendulae</i> subsp. <i>grasserius</i>	
4056 <sup>T</sup> ←KCC S-0056	
4556 <sup>T</sup> ←KCC S-0556	
<i>Streptomyces lavendulae</i> subsp. <i>lavandulae</i>	
4055 <sup>T</sup> ←KCC S-0055	
4057 ←KCC S-0057	
4118 ←KCC S-0118	
4263 ←KCC S-0263	
4283 ←KCC S-0283	
4328 ←KCC S-0328	
4329 ←KCC S-0329	
4589 <sup>T</sup> ←KCC S-0589	
4664 <sup>T</sup> ←KCC S-0664	
4675 ←KCC S-0675	
4740 ←KCC S-0740	
4985 ←KCC S-0985	
" <i>Streptomyces lavendularectus</i> "	
4900 ←KCC S-0900	
<i>Streptomyces lavenduligriseus</i>	
4545 <sup>T</sup> ←KCC S-0545	
4779 <sup>T</sup> ←KCC S-0779	
<i>Streptomyces lavendulocolor</i>	
4390 <sup>T</sup> ←KCC S-0390	
" <i>Streptomyces lazeurus</i> "	
4780 <sup>T</sup> ←KCC S-0780	
<i>Streptomyces levis</i>	
6924 <sup>T</sup> ←INA 9020	
" <i>Streptomyces levoris</i> "	
4392 <sup>T</sup> ←KCC S-0392	
<i>Streptomyces libani</i> subsp. <i>libani</i>	
4322 <sup>T</sup> ←KCC S-0322	
4323 ←KCC S-0323	
4324 ←KCC S-0324	
4781 <sup>T</sup> ←KCC S-0781	
<i>Streptomyces libani</i> subsp. <i>rufus</i>	
4325 <sup>T</sup> ←KCC S-0325	
<i>Streptomyces lienomycini</i>	
6925 <sup>T</sup> ←INA 478	
" <i>Streptomyces lieskei</i> "	
6196 ←IIBM BM-B-41	
" <i>Streptomyces lilaceus</i> "	
4901 ←KCC S-0901	
<i>Streptomyces lilacinus</i>	
4188 <sup>T</sup> ←KCC S-0188	
4648 <sup>T</sup> ←KCC S-0648	
4776 ←KCC S-0776	
<i>Streptomyces lincolnensis</i>	
4287 <sup>T</sup> ←KCC S-0287	
4488 <sup>T</sup> ←KCC S-0488	
<i>Streptomyces litmocidini</i>	

4394 <sup>T</sup>	←KCC S-0394	4139 <sup>T</sup>	←KCC S-0139	<i>Streptomyces murinus</i>	
" <i>Streptomyces lividoclavatus</i> "		4593 <sup>T</sup>	←KCC S-0593	4333 <sup>T</sup>	←KCC S-0333
4948 <sup>T</sup>	←KCC S-0948	<i>Streptomyces matensis</i>		4595 <sup>T</sup>	←KCC S-0595
" <i>Streptomyces loidensis</i> "		4268 <sup>T</sup>	←KCC S-0268	<i>Streptomyces mutabilis</i>	
4201	←KCC S-0201	4277 <sup>T</sup>	←KCC S-0277	4400 <sup>T</sup>	←KCC S-0400
<i>Streptomyces lomondensis</i>		4651 <sup>T</sup>	←KCC S-0651	" <i>Streptomyces mycarofaciens</i> "	
4866 <sup>T</sup>	←KCC S-0866	<i>Streptomyces mauvecolor</i>		4939 <sup>T</sup>	←KCC S-0939
<i>Streptomyces longisporoflavus</i>		5002 <sup>T</sup>	←KCC S-1002	" <i>Streptomyces myxogenes</i> "	
4301	←KCC S-0301	<i>Streptomyces mayteni</i>		5039 <sup>T</sup>	←KCC S-1039
4396 <sup>T</sup>	←KCC S-0396	16957 <sup>T</sup>	←KCTC 19383	<i>Streptomyces naganishii</i>	
<i>Streptomyces longispororuber</i>		<i>Streptomyces megasporus</i>		4190 <sup>T</sup>	←KCC S-0190
4784 <sup>T</sup>	←KCC S-0784	6306	←J. Lacey A 1202	4654 <sup>T</sup>	←KCC S-0654
<i>Streptomyces longisporus</i>		6926 <sup>T</sup>	←INMI 2869	<i>Streptomyces nanshensis</i>	
4261	←KCC S-0261	<i>Streptomyces melanogenes</i>		16226 <sup>T</sup>	←KCTC 19400
4395 <sup>T</sup>	←KCC S-0395	4398 <sup>T</sup>	←KCC S-0398	" <i>Streptomyces naraensis</i> "	
" <i>Streptomyces longissimus</i> "		<i>Streptomyces melanosporofaciens</i>		4794 <sup>T</sup>	←KCC S-0794
4489 <sup>T</sup>	←KCC S-0489	4495 <sup>T</sup>	←KCC S-0495	<i>Streptomyces narbonensis</i>	
10428 <sup>T</sup>	←IFO 13055	<i>Streptomyces mexicanus</i>		4147 <sup>T</sup>	←KCC S-0147
<i>Streptomyces longwoodensis</i>		12681 <sup>T</sup>	←DSM 41796	4596 <sup>T</sup>	←KCC S-0596
4976 <sup>T</sup>	←KCC S-0976	<i>Streptomyces michiganensis</i>		<i>Streptomyces nashvillensis</i>	
<i>Streptomyces lucensis</i>		4594 <sup>T</sup>	←KCC S-0594	4498 <sup>T</sup>	←KCC S-0498
4490 <sup>T</sup>	←KCC S-0490	<i>Streptomyces microflavus</i>		" <i>Streptomyces natalensis</i> "	
<i>Streptomyces lunalinairesii</i>		4058	←KCC S-0058	4693 <sup>T</sup>	←KCC S-0693
16374 <sup>T</sup>	←CIP 108852	4061	←KCC S-0061	4795 <sup>T</sup>	←KCC S-0795
<i>Streptomyces luridus</i>		4449	←KCC S-0449	" <i>Streptomyces nebulosus</i> "	
4591 <sup>T</sup>	←KCC S-0591	4496 <sup>T</sup>	←KCC S-0496	5021	←KCC S-1021
<i>Streptomyces lusitanus</i>		4590	←KCC S-0590	" <i>Streptomyces neocaliberis</i> "	
4785 <sup>T</sup>	←KCC S-0785	4711	←KCC S-0711	4867	←KCC S-0867
<i>Streptomyces luteireticuli</i>		4742	←KCC S-0742	<i>Streptomyces netropsis</i>	
4788 <sup>T</sup>	←KCC S-0788	4861	←KCC S-0861	4063 <sup>T</sup>	←KCC S-0063
" <i>Streptomyces luteicolor</i> "		5078	←NRRL B-2249	4153	←KCC S-0153
5035 <sup>T</sup>	←KCC S-1035	<i>Streptomyces microsporus</i>		4307	←KCC S-0307
<i>Streptomyces luteogriseus</i>		4903	←KCC S-0903	4370	←KCC S-0370
4786 <sup>T</sup>	←KCC S-0786	<i>Streptomyces miharaensis</i>		4544	←KCC S-0544
" <i>Streptomyces luteolotescens</i> "		5037 <sup>T</sup>	←KCC S-1037	4647	←KCC S-0647
4787 <sup>T</sup>	←KCC S-0787	<i>Streptomyces minoensis</i>		4655 <sup>T</sup>	←KCC S-0655
<i>Streptomyces luteosporeus</i>		4399 <sup>T</sup>	←KCC S-0399	9948	←VKM Ac-1230
4542 <sup>T</sup>	←KCC S-0542	<i>Streptomyces minutiscleroticus</i>		<i>Streptomyces neyagawaensis</i>	
<i>Streptomyces lydicus</i>		3100	←KCC A-0100	4796 <sup>T</sup>	←KCC S-0796
4492 <sup>T</sup>	←KCC S-0492	3102 <sup>T</sup>	←KCC A-0102	" <i>Streptomyces nigellus</i> "	
" <i>Streptomyces macromomyceticus</i> "		4751	←KCC S-0751	4552 <sup>T</sup>	←KCC S-0552
5036 <sup>T</sup>	←KCC S-1036	4790 <sup>T</sup>	←KCC S-0790	4797 <sup>T</sup>	←KCC S-0797
" <i>Streptomyces macrosporeus</i> "		<i>Streptomyces mirabilis</i>		<i>Streptomyces niger</i>	
4145 <sup>T</sup>	←KCC S-0145	4551 <sup>T</sup>	←KCC S-0551	3158 <sup>T</sup>	←KCC A-0158
4592 <sup>T</sup>	←KCC S-0592	4791 <sup>T</sup>	←KCC S-0791	<i>Streptomyces nigrescens</i>	
<i>Streptomyces macrosporus</i>		<i>Streptomyces misakiensis</i>		4401 <sup>T</sup>	←KCC S-0401
6305 <sup>T</sup>	←J. Lacey A 1201	4062 <sup>T</sup>	←KCC S-0062	" <i>Streptomyces nigrogriseolus</i> "	
" <i>Streptomyces maizeus</i> "		4653 <sup>T</sup>	←KCC S-0653	4904	←KCC S-0904
4931	←KCC S-0931	" <i>Streptomyces misawanensis</i> "		" <i>Streptomyces nigroviolets</i> "	
" <i>Streptomyces malachiticus</i> "		5038 <sup>T</sup>	←KCC S-1038	4916 <sup>T</sup>	←KCC S-0916
4397 <sup>T</sup>	←KCC S-0397	<i>Streptomyces misionensis</i>		<i>Streptomyces nitrosporeus</i>	
<i>Streptomyces malachitofuscus</i>		4497 <sup>T</sup>	←KCC S-0497	4064 <sup>T</sup>	←KCC S-0064
4493 <sup>T</sup>	←KCC S-0493	<i>Streptomyces mobaraensis</i>		4598 <sup>T</sup>	←KCC S-0598
" <i>Streptomyces malachitorectus</i> "		4168 <sup>T</sup>	←KCC S-0168	<i>Streptomyces niveoruber</i>	
4494 <sup>T</sup>	←KCC S-0494	4778	←KCC S-0778	4234 <sup>T</sup>	←KCC S-0234
" <i>Streptomyces malayensis</i> "		" <i>Streptomyces moderatus</i> "		<i>Streptomyces niveus</i>	
4932	←KCC S-0932	4792 <sup>T</sup>	←KCC S-0792	4251 <sup>T</sup>	←KCC S-0251
<i>Streptomyces malaysiensis</i>		<i>Streptomyces monomycini</i>		4252	←KCC S-0252
10672 <sup>T</sup>	←DSM 41697	9768 <sup>T</sup>	←INA 1465	4599 <sup>T</sup>	←KCC S-0599
<i>Streptomyces marokkonensis</i>		<i>Streptomyces mordarskii</i>		4670	←KCC S-0670
17027 <sup>T</sup>	←LMG 23016	4140 <sup>T</sup>	←KCC S-0140	12606	←NCIMB 13928
<i>Streptomyces mashuensis</i>		5052 <sup>T</sup>	←KCC S-1052	" <i>Streptomyces nobilis</i> "	
4059 <sup>T</sup>	←KCC S-0059	<i>Streptomyces morookaensis</i>		4273 <sup>T</sup>	←KCC S-0273
4486	←KCC S-0486	4673 <sup>T</sup>	←KCC S-0673	4274	←KCC S-0274
4650 <sup>T</sup>	←KCC S-0650	4723	←KCC S-0723	4798 <sup>T</sup>	←KCC S-0798
<i>Streptomyces massasporeus</i>		4793 <sup>T</sup>	←KCC S-0793	<i>Streptomyces noboritoensis</i>	

Animal  
Plant  
Cell  
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JCM  
Info

4065 <sup>T</sup>	←KCC S-0065	<i>Streptomyces pactum</i>	4288 <sup>T</sup>	←KCC S-0288	<i>Streptomyces polychromogenes</i>	
4557 <sup>T</sup>	←KCC S-0557		4809 <sup>T</sup>	←KCC S-0809	4505 <sup>T</sup>	←KCC S-0505
<i>Streptomyces nodosus</i>		" <i>Streptomyces padanus</i> "	4444 <sup>T</sup>	←KCC S-0444	<i>Streptomyces poonensis</i>	
4297 <sup>T</sup>	←KCC S-0297	" <i>Streptomyces pallidus</i> "	4810 <sup>T</sup>	←KCC S-0810	3079 <sup>T</sup>	←KCC A-0079
4656 <sup>T</sup>	←KCC S-0656	" <i>Streptomyces panayensis</i> "	5042	←KCC S-1042	4815 <sup>T</sup>	←KCC S-0815
<i>Streptomyces nogalater</i>		<i>Streptomyces paradoxus</i>	3052 <sup>T</sup>	←KCC A-0052	<i>Streptomyces prasinopilosus</i>	
4553 <sup>T</sup>	←KCC S-0553	" <i>Streptomyces paraguayensis</i> "	4811 <sup>T</sup>	←KCC S-0811	4207 <sup>T</sup>	←KCC S-0207
4799 <sup>T</sup>	←KCC S-0799	<i>Streptomyces parvulus</i>	4068 <sup>T</sup>	←KCC S-0068	4404 <sup>T</sup>	←KCC S-0404
<i>Streptomyces nojiriensis</i>			4601 <sup>T</sup>	←KCC S-0601	<i>Streptomyces prasinosporus</i>	
3382 <sup>T</sup>	←Meiji Seika Kaisha, Ltd.		4682	←KCC S-0682	4816 <sup>T</sup>	←KCC S-0816
SF-426		<i>Streptomyces parvus</i>	4069 <sup>T</sup>	←KCC S-0069	<i>Streptomyces pristinaespiralis</i>	
<i>Streptomyces noursei</i>		" <i>Streptomyces paucidiastaticus</i> "	4210 <sup>T</sup>	←KCC S-0210	4507 <sup>T</sup>	←KCC S-0507
4701	←KCC S-0701	<i>Streptomyces paucisporous</i>	13276 <sup>T</sup>	←Y. Huang 1413	<i>Streptomyces prunicolor</i>	
4922 <sup>T</sup>	←KCC S-0922	" <i>Streptomyces paulus</i> "	5072 <sup>T</sup>	←KCC S-1072	4508 <sup>T</sup>	←KCC S-0508
<i>Streptomyces novaeaesareae</i>		" <i>Streptomyces peruviensis</i> "	5072 <sup>T</sup>	←ATCC 29050	<i>Streptomyces psammoticus</i>	
4269	←KCC S-0269	4813 <sup>T</sup>	←KCC S-0813	4434 <sup>T</sup>	←KCC S-0434	
4800 <sup>T</sup>	←KCC S-0800	<i>Streptomyces peucetius</i>	9920 <sup>T</sup>	←ATCC 29050	<i>Streptomyces pseudoechinosporus</i>	
" <i>Streptomyces novoverticillus</i> "		" <i>Streptomyces peucetius</i> subsp. <i>caesi</i> "	10035	←C. C. Ho H3502	3066 <sup>T</sup>	←KCC A-0066
5007	←KCC S-1007		10037	←C. C. Ho H3630	<i>Streptomyces pseudogriseolus</i>	
<i>Streptomyces ochraceiscleroticus</i>			10205	←C. C. Ho H6125	4071 <sup>T</sup>	←KCC S-0071
3048 <sup>T</sup>	←KCC A-0048	<i>Streptomyces phaeochromogenes</i>	4070 <sup>T</sup>	←KCC S-0070	4663 <sup>T</sup>	←KCC S-0663
4801 <sup>T</sup>	←KCC S-0801	" <i>Streptomyces phaeofaciens</i> "	4659 <sup>T</sup>	←KCC S-0659	<i>Streptomyces pseudovenezuelae</i>	
" <i>Streptomyces ochrosporus</i> "		4125 <sup>T</sup>	←KCC S-0125	11516 <sup>T</sup>	←IFO 12904	
4928	←KCC S-0928	4814 <sup>T</sup>	←KCC S-0814	" <i>Streptomyces pulcher</i> "	4817 <sup>T</sup>	←KCC S-0817
<i>Streptomyces ogaensis</i>		<i>Streptomyces phaeopurpureus</i>	4101 <sup>T</sup>	←KCC S-0101	<i>Streptomyces pulveraceus</i>	
4169 <sup>T</sup>	←KCC S-0169		4102	←KCC S-0102	7545 <sup>T</sup>	←IFO 3855
" <i>Streptomyces oidiostorus</i> "			4660 <sup>T</sup>	←KCC S-0660	<i>Streptomyces puniceus</i>	
4158	←KCC S-0158		4661	←KCC S-0661	4015	←KCC S-0015
<i>Streptomyces olivaceiscleroticus</i>		<i>Streptomyces pharetriae</i>	13860 <sup>T</sup>	←DSM 41856	4406 <sup>T</sup>	←KCC S-0406
3045 <sup>T</sup>	←KCC A-0045		4403 <sup>T</sup>	←KCC S-0403	4567	←KCC S-0567
4805 <sup>T</sup>	←KCC S-0805	" <i>Streptomyces pilosus</i> "	5026 <sup>T</sup>	←KCC S-1026	5068	←KCC S-1068
<i>Streptomyces olivaceoviridis</i>			4189 <sup>T</sup>	←KCC S-0189	6910	←K. Suetsuna 76
4499 <sup>T</sup>	←KCC S-0499	<i>Streptomyces platensis</i>	4662 <sup>T</sup>	←KCC S-0662	<i>Streptomyces purpeofuscus</i>	
<i>Streptomyces olivaceus</i>		" <i>Streptomyces platensis</i> subsp. <i>clarensis</i> "	4914 <sup>T</sup>	←KCC S-0914	4156 <sup>T</sup>	←KCC S-0156
4066	←KCC S-0066		4504 <sup>T</sup>	←KCC S-0504	4665 <sup>T</sup>	←KCC S-0665
4067	←KCC S-0067	" <i>Streptomyces plicatus</i> "	5003 <sup>T</sup>	←KCC S-1003	<i>Streptomyces purpurascens</i>	
4097	←KCC S-0097	" <i>Streptomyces plumbeus</i> "	16924 <sup>T</sup>	←Y. B. Lin CCNWHX 13-160	4072	←KCC S-0072
4402 <sup>T</sup>	←KCC S-0402	<i>Streptomyces plumbiresistens</i>	4818 <sup>T</sup>	←KCC S-0818	4340	←KCC S-0340
4689	←KCC S-0689		4819 <sup>T</sup>	←KCC S-0819	4387	←KCC S-0387
4702	←KCC S-0702	" <i>Streptomyces pluricolorescens</i> "	4820 <sup>T</sup>	←KCC S-0820	4509 <sup>T</sup>	←KCC S-0509
<i>Streptomyces olivochromogenes</i>			4914 <sup>T</sup>	←KCC S-0914	4513	←KCC S-0513
4163 <sup>T</sup>	←KCC S-0163	" <i>Streptomyces pilosus</i> "	4953	←KCC S-0953	<i>Streptomyces purpureus</i>	
4500 <sup>T</sup>	←KCC S-0500		4914 <sup>T</sup>	←KCC S-0914	3172 <sup>T</sup>	←KCC A-0172
" <i>Streptomyces olivochromogenes</i> subsp. <i>cytovirinus</i> "		" <i>Streptomyces piloviolofuscus</i> "	4953	←KCC S-0953	3176	←KCC A-0176
4986	←KCC S-0986		4953	←KCC S-0953	3177	←KCC A-0177
" <i>Streptomyces olivogriseus</i> "		<i>Streptomyces platensis</i>	4953	←KCC S-0953	3178	←KCC A-0178
5040 <sup>T</sup>	←KCC S-1040	" <i>Streptomyces platensis</i> subsp. <i>clarensis</i> "	4953	←KCC S-0953	<i>Streptomyces purpurogeneiscleroticus</i>	
<i>Streptomyces olivotertillatus</i>			4953	←KCC S-0953	3080 <sup>T</sup>	←KCC A-0080
4100 <sup>T</sup>	←KCC S-0100	" <i>Streptomyces platensis</i> subsp. <i>malvinus</i> "	4953	←KCC S-0953	3103 <sup>T</sup>	←KCC A-0103
4221	←KCC S-0221		4953	←KCC S-0953	4818 <sup>T</sup>	←KCC S-0818
4501 <sup>T</sup>	←KCC S-0501	" <i>Streptomyces plicatus</i> "	4953	←KCC S-0953	" <i>Streptomyces pyridomyceticus</i> "	
4857	←KCC S-0857		4953	←KCC S-0953	4666 <sup>T</sup>	←KCC S-0666
<i>Streptomyces omiyaensis</i>		" <i>Streptomyces plumbeus</i> "	4953	←KCC S-0953	<i>Streptomyces racemochromogenes</i>	
4124	←KCC S-0124		4953	←KCC S-0953	4407 <sup>T</sup>	←KCC S-0407
4806 <sup>T</sup>	←KCC S-0806	" <i>Streptomyces pluricolorescens</i> "	4953	←KCC S-0953	" <i>Streptomyces racemosus</i> "	
<i>Streptomyces orinoci</i>			4953	←KCC S-0953	4442 <sup>T</sup>	←KCC S-0442
4546 <sup>T</sup>	←KCC S-0546	" <i>Streptomyces radiopugnans</i> "	4953	←KCC S-0953		
4807 <sup>T</sup>	←KCC S-0807		4953	←KCC S-0953	15480 <sup>T</sup>	←CGMCC 4.3519
<i>Streptomyces osmaniensis</i>		" <i>Streptomyces radiopugnans</i> "	4953	←KCC S-0953	" <i>Streptomyces raffinosus</i> "	
17656 <sup>T</sup>	←PCM 2690		4953	←KCC S-0953	4678 <sup>T</sup>	←KCC S-0678
" <i>Streptomyces ostreogriseus</i> "		" <i>Streptomyces rameus</i> "	4953	←KCC S-0953		
4186 <sup>T</sup>	←KCC S-0186		4953	←KCC S-0953	11574 <sup>T</sup>	←IFO 3782
4808 <sup>T</sup>	←KCC S-0808		4953	←KCC S-0953		
" <i>Streptomyces owasiensis</i> "			4953	←KCC S-0953		
5041	←KCC S-1041		4953	←KCC S-0953		

" <i>Streptomyces ramosissimus</i> "	<i>Streptomyces roseolus</i>	<i>Streptomyces sindenensis</i>
4674 <sup>T</sup> ←KCC S-0674	4411 <sup>T</sup> ←KCC S-0411	4164 <sup>T</sup> ←KCC S-0164
<i>Streptomyces ramulosus</i>	" <i>Streptomyces roseoluteus</i> "	4669 <sup>T</sup> ←KCC S-0669
4193 <sup>T</sup> ←KCC S-0193	4410 <sup>T</sup> ←KCC S-0410	4938 ←KCC S-0938
4604 <sup>T</sup> ←KCC S-0604	" <i>Streptomyces roseoplatus</i> "	<i>Streptomyces sioyaensis</i>
<i>Streptomyces rangoonensis</i>	4949 ←KCC S-0949	4418 <sup>T</sup> ←KCC S-0418
4510 <sup>T</sup> ←KCC S-0510	" <i>Streptomyces roseorubens</i> "	<i>Streptomyces sodiophilus</i>
<i>Streptomyces recifensis</i>	4907 <sup>T</sup> ←KCC S-0907	13581 <sup>T</sup> ←CIP 107975
4408 <sup>T</sup> ←KCC S-0408	<i>Streptomyces roseoviridis</i>	<i>Streptomyces somaliensis</i>
<i>Streptomyces rectiviolaceus</i>	4414 <sup>T</sup> ←KCC S-0414	12659 <sup>T</sup> ←NCTC 11332
9092 <sup>T</sup> ←VKM Ac-282	" <i>Streptomyces roseus</i> "	12660 ←NCTC 3236
" <i>Streptomyces refineus</i> subsp.	4078 <sup>T</sup> ←KCC S-0078	<i>Streptomyces sp.</i>
<i>thermotolerans</i> "	4413 <sup>T</sup> ←KCC S-0413	3014 ←KCC A-0014
4933 ←KCC S-0933	<i>Streptomyces ruber.</i>	3015 ←KCC A-0015
" <i>Streptomyces regalis</i> "	3131 <sup>T</sup> ←KCC A-0131	3163 ←KCC A-0163
4819 <sup>T</sup> ←KCC S-0819	<i>Streptomyces rubidus</i>	3222 ←KCC A-0222
<i>Streptomyces regensis</i>	13277 <sup>T</sup> ←Y. Huang 13c15	3274 ←KCC A-0274
4820 <sup>T</sup> ←KCC S-0820	<i>Streptomyces rubiginosohelvolus</i>	3371 ←NRRL B-2289
<i>Streptomyces resistomycificus</i>	4415 <sup>T</sup> ←KCC S-0415	3383 ←NIHJ 425 (A955-Y3)
4409 <sup>T</sup> ←KCC S-0409	<i>Streptomyces rubiginosus</i>	3400 ←H. Kusakabe H-230
" <i>Streptomyces reticuli</i> subsp.	4416 <sup>T</sup> ←KCC S-0416	4009 ←KCC S-0009
<i>protomycicus</i> "	" <i>Streptomyces rubrocyanodiasstaticus</i>	4030 ←KCC S-0030
4180 ←KCC S-0180	subsp. <i>piger</i> "	4079 ←KCC S-0079
<i>Streptomyces rhizosphaericus</i>	4159 ←KCC S-0159	4115 ←KCC S-0115
11447 <sup>T</sup> ←NCIMB 13674	<i>Streptomyces rubrogriseus</i>	4120 ←KCC S-0120
" <i>Streptomyces ribosidificus</i> "	6927 <sup>T</sup> ←INA 2626	4130 ←KCC S-0130
4923 <sup>T</sup> ←KCC S-0923	" <i>Streptomyces rubrolavendulae</i> "	4174 ←KCC S-0174
" <i>Streptomyces rimofaciens</i> "	4908 ←KCC S-0908	4259 ←KCC S-0259
4880 ←KCC S-0880	" <i>Streptomyces rufochromogenes</i> "	4260 ←KCC S-0260
<i>Streptomyces rimosus</i> subsp.	4687 ←KCC S-0687	4279 ←KCC S-0279
<i>paromomycinus</i>	<i>Streptomyces ryensis"</i>	4285 ←KCC S-0285
4541 <sup>T</sup> ←KCC S-0541	5044 ←KCC S-1044	4327 ←KCC S-0327
4871 <sup>T</sup> ←KCC S-0871	" <i>Streptomyces sakaiensis</i> "	4341 ←KCC S-0341
<i>Streptomyces rimosus</i> subsp. <i>rimosus</i>	5022 ←KCC S-1022	4455 ←KCC S-0455
4073 <sup>T</sup> ←KCC S-0073	<i>Streptomyces sanglieri</i>	4471 ←KCC S-0471
4667 <sup>T</sup> ←KCC S-0667	12607 <sup>T</sup> ←NCIMB 13929	4473 ←KCC S-0473
<i>Streptomyces rishiriensis</i>	<i>Streptomyces sannanensis</i>	4528 ←KCC S-0528
4821 <sup>T</sup> ←KCC S-0821	9651 <sup>T</sup> ←IFO 14239	4535 ←KCC S-0535
" <i>Streptomyces robefuscus</i> "	" <i>Streptomyces saprophyticus</i> "	4699 ←KCC S-0699
4280 ←KCC S-0280	4827 ←KCC S-0827	4719 ←KCC S-0719
<i>Streptomyces rochei</i>	" <i>Streptomyces saraceuticus</i> "	4756 ←KCC S-0756
4074 <sup>T</sup> ←KCC S-0074	4877 <sup>T</sup> ←KCC S-0877	4802 ←KCC S-0802
4668 <sup>T</sup> ←KCC S-0668	" <i>Streptomyces sayamaensis</i> "	4804 ←KCC S-0804
" <i>Streptomyces rosa</i> "	5004 <sup>T</sup> ←KCC S-1004	4865 ←KCC S-0865
4822 <sup>T</sup> ←KCC S-0822	<i>Streptomyces scabiei</i>	4942 ←KCC S-0942
<i>Streptomyces roseiscleroticus</i>	7914 <sup>T</sup> ←ATCC 49173	4969 ←KCC S-0969
3104 <sup>T</sup> ←KCC A-0104	<i>Streptomyces scabrisporus</i>	4989 ←KCC S-0989
4823 <sup>T</sup> ←KCC S-0823	11712 <sup>T</sup> ←S. Ōmura KM-4927	4990 ←KCC S-0990
" <i>Streptomyces roseoaurantius</i> "	" <i>Streptomyces sclerogramulatus</i> "	4991 ←KCC S-0991
4905 ←KCC S-0905	4538 <sup>T</sup> ←KCC S-0538	4993 ←KCC S-0993
" <i>Streptomyces roseochromogenus</i> "	4539 ←KCC S-0539	4994 ←KCC S-0994
4264 ←KCC S-0264	<i>Streptomyces sclerotitalus</i>	4995 ←KCC S-0995
4512 <sup>T</sup> ←KCC S-0512	3039 <sup>T</sup> ←KCC A-0039	4996 ←KCC S-0996
4879 ←KCC S-0879	4828 <sup>T</sup> ←KCC S-0828	4997 ←KCC S-0997
" <i>Streptomyces roseocinereus</i> "	<i>Streptomyces scopiformis</i>	4998 ←KCC S-0998
5043 <sup>T</sup> ←KCC S-1043	12114 <sup>T</sup> ←AS 4.1331	4999 ←KCC S-0999
<i>Streptomyces roseofulvus</i>	<i>Streptomyces sedi</i>	5009 ←KCC S-1009
4334 <sup>T</sup> ←KCC S-0334	16909 <sup>T</sup> ←DSM 41942	5064 ←KCC S-1064
4605 <sup>T</sup> ←KCC S-0605	" <i>Streptomyces senoensis</i> "	5074 ←KCC S-1074
" <i>Streptomyces roseogriseus</i> "	4672 <sup>T</sup> ←KCC S-0672	7249 ←Y. Nakamura AA-107
4825 ←KCC S-0825	<i>Streptomyces seoulensis</i>	7250 ←Y. Nakamura AB-110
" <i>Streptomyces roseogriseus</i> ."	10116 <sup>T</sup> ←S.-O. Kang IMSNU-1	8963 ←M. Hamada MA267-A1
4906 ←KCC S-0906	" <i>Streptomyces setonensis</i> "	9702 ←K. Furukawa 2238-SVT4
<i>Streptomyces roseolilacinus</i>	5045 <sup>T</sup> ←KCC S-1045	(" <i>Streptomyces plicatosporus</i> ")
4335 <sup>T</sup> ←KCC S-0335	<i>Streptomyces showdoensis</i>	9888 ←H. Osada 80-H-647
4606 <sup>T</sup> ←KCC S-0606	4830 <sup>T</sup> ←KCC S-0830	10109 ←DSM 40904

10123 ←IFO 14335	<i>Streptomyces thermocarboxydovorans</i>	5065 <sup>T</sup> ←KCC S-1065
10124 ←IFO 14336	10367 <sup>T</sup> ←S. B. Kim AT52	13861 ←DSM 41703
10538 ←M. Ohkuma Gf-06	<i>Streptomyces thermocarboxydotus</i>	" <i>Streptomyces triculaminicus</i> "
" <i>Streptomyces spadicis</i> "	10368 <sup>T</sup> ←S. B. Kim AT37	4242 ←KCC S-0242
9652 <sup>T</sup> ←IFO 13379	<i>Streptomyces thermocoprophilus</i>	" <i>Streptomyces triostinicus</i> "
<i>Streptomyces sparsogenes</i>	10918 <sup>T</sup> ←DSM 41700	5046 ←KCC S-1046
4517 <sup>T</sup> ←KCC S-1517	<i>Streptomyces thermodiastaticus</i>	" <i>Streptomyces tsusimaeensis</i> "
<i>Streptomyces specialis</i>	4314 ←KCC S-0314	10033 <sup>T</sup> ←IFO 13782
16611 <sup>T</sup> ←CCM 7499	4840 <sup>T</sup> ←KCC S-0840	<i>Streptomyces tubercidicus</i>
<i>Streptomyces spectabilis</i>	" <i>Streptomyces thermoflavus</i> "	4054 <sup>T</sup> ←KCC S-0054
4308 <sup>T</sup> ←KCC S-0308	4315 <sup>T</sup> ←KCC S-0315	4558 <sup>T</sup> ←KCC S-0558
4832 <sup>T</sup> ←KCC S-0832	" <i>Streptomyces thermogriseoviolaceus</i> "	<i>Streptomyces taurinus</i>
<i>Streptomyces speibonae</i>	4919 <sup>T</sup> ←KCC S-0919	4255 <sup>T</sup> ←KCC S-0255
12682 <sup>T</sup> ←DSM 41797	<i>Streptomyces thermogriseus</i>	4846 <sup>T</sup> ←KCC S-0846
" <i>Streptomyces spinicoumarenensis</i> "	11269 <sup>T</sup> ←DSM 41756	" <i>Streptomyces tumemacerans</i> "
5005 ←KCC S-1005	" <i>Streptomyces thermohygroscopicus</i> "	5050 <sup>T</sup> ←KCC S-1050
<i>Streptomyces spinoverrucosus</i>	4917 <sup>T</sup> ←KCC S-0917	" <i>Streptomyces tumultu</i> "
5077 <sup>T</sup> ←KCC S-1077	8041 ←CCRC 13301	4847 <sup>T</sup> ←KCC S-0847
<i>Streptomyces spiralis</i>	" <i>Streptomyces thermohygroscopicus</i>	<i>Streptomyces turgidiscabies</i>
3302 <sup>T</sup> ←KCC A-0302	subsp. <i>rubiginosus</i> "	10429 <sup>T</sup> ←IFO 16080
<i>Streptomyces spiroverticillatus</i>	4918 <sup>T</sup> ←KCC S-0918	<i>Streptomyces umbrinus</i>
4104 <sup>T</sup> ←KCC S-0104	<i>Streptomyces thermolineatus</i>	4521 <sup>T</sup> ←KCC S-0521
4609 <sup>T</sup> ←KCC S-0609	6307 <sup>T</sup> ←J. Lacey A 1484	" <i>Streptomyces umbrosus</i> "
<i>Streptomyces sporocinereus</i>	" <i>Streptomyces thermoolivaceus</i> subsp.	4522 <sup>T</sup> ←KCC S-0522
9093 <sup>T</sup> ←VKM Ac-312	<i>fuscus</i> "	<i>Streptomyces variabilis</i>
<i>Streptomyces sporoclivatus</i>	4921 <sup>T</sup> ←KCC S-0921	4422 <sup>T</sup> ←KCC S-0422
9094 <sup>T</sup> ←VKM Ac-315	" <i>Streptomyces thermoolivaceus</i> subsp.	<i>Streptomyces variegatus</i>
<i>Streptomyces spororaveus</i>	<i>thermoolivaceus</i> "	6930 <sup>T</sup> ←INA T-511
6928 <sup>T</sup> ←INMI 101	4920 <sup>T</sup> ←KCC S-0920	" <i>Streptomyces varius</i> "
<i>Streptomyces sporoverrucosus</i>	" <i>Streptomyces thermophilus</i> "	5047 ←KCC S-1047
6929 <sup>T</sup> ←INMI 15	4336 <sup>T</sup> ←KCC S-0336	<i>Streptomyces varsoviensis</i>
" <i>Streptomyces steffsburgensis</i> "	4842 <sup>T</sup> ←KCC S-0842	4303 <sup>T</sup> ←KCC S-0303
4833 <sup>T</sup> ←KCC S-0833	<i>Streptomyces thermospinosisporus</i>	4523 <sup>T</sup> ←KCC S-0523
<i>Streptomyces stramineus</i>	11756 <sup>T</sup> ←DSM 41779	<i>Streptomyces vastus</i>
10649 <sup>T</sup> ←NRRL 12292	" <i>Streptomyces thermotolerans</i> "	4524 <sup>T</sup> ←KCC S-0524
<i>Streptomyces subrutilus</i>	4519 <sup>T</sup> ←KCC S-0519	" <i>Streptomyces vellosus</i> "
4695 <sup>T</sup> ←KCC S-0695	<i>Streptomyces thermoviolaceus</i> subsp.	5023 ←KCC S-1023
4834 <sup>T</sup> ←KCC S-0834	<i>apingen</i> s	" <i>Streptomyces vendargensis</i> "
<i>Streptomyces sulfonofaciens</i>	4312 <sup>T</sup> ←KCC S-0312	4525 <sup>T</sup> ←KCC S-0525
5069 <sup>T</sup> ←KCC S-1069	<i>Streptomyces thermoviolaceus</i> subsp.	<i>Streptomyces venezuelae</i>
<i>Streptomyces sulphureus</i>	<i>thermoviolaceus</i>	4088 ←KCC S-0088
4085 <sup>T</sup> ←KCC S-0085	4239 ←KCC S-0239	4526 <sup>T</sup> ←KCC S-0526
4835 <sup>T</sup> ←KCC S-0835	4337 <sup>T</sup> ←KCC S-0337	4690 ←KCC S-0690
" <i>Streptomyces sviceus</i> "	4843 <sup>T</sup> ←KCC S-0843	" <i>Streptomyces verne</i> "
4929 <sup>T</sup> ←KCC S-0929	<i>Streptomyces thermovulgaris</i>	4089 <sup>T</sup> ←KCC S-0089
<i>Streptomyces synnematoformans</i>	4240 ←KCC S-0240	4527 <sup>T</sup> ←KCC S-0527
15481 <sup>T</sup> ←CGMCC 4.2055	4338 <sup>T</sup> ←KCC S-0338	" <i>Streptomyces versipellis</i> "
<i>Streptomyces tanashiensis</i>	4520 <sup>T</sup> ←KCC S-0520	4554 <sup>T</sup> ←KCC S-0554
4086 <sup>T</sup> ←KCC S-0086	4841 ←KCC S-0841	4848 <sup>T</sup> ←KCC S-0848
4671 <sup>T</sup> ←KCC S-0671	<i>Streptomyces thioluteus</i>	" <i>Streptomyces verticillatus</i> "
<i>Streptomyces tauricus</i>	4087 <sup>T</sup> ←KCC S-0087	4270 ←KCC S-0270
4837 <sup>T</sup> ←KCC S-0837	4182 ←KCC S-0182	" <i>Streptomyces verticillus</i> "
<i>Streptomyces tendae</i>	4844 <sup>T</sup> ←KCC S-0844	4924 ←KCC S-0924
4149 <sup>T</sup> ←KCC S-0149	" <i>Streptomyces threomyceticus</i> "	<i>Streptomyces vietnamensis</i>
4610 <sup>T</sup> ←KCC S-0610	4935 ←KCC S-0935	21785 <sup>T</sup> ←IAM 15340
4987 ←KCC S-0987	<i>Streptomyces torulosus</i>	<i>Streptomyces vinaceus</i>
" <i>Streptomyces tenjimariensis</i> "	4872 <sup>T</sup> ←KCC S-0872	4090 <sup>T</sup> ←KCC S-0090
8368 ←K. Hotta SS-939	" <i>Streptomyces toxifertilis</i> "	4849 <sup>T</sup> ←KCC S-0849
<i>Streptomyces termitum</i>	5014 <sup>T</sup> ←KCC S-1014	<i>Streptomyces vinaceusdrappus</i>
4518 <sup>T</sup> ←KCC S-0518	<i>Streptomyces toxytricini</i>	4529 <sup>T</sup> ←KCC S-0529
" <i>Streptomyces testaceus</i> "	4421 <sup>T</sup> ←KCC S-0421	<i>Streptomyces violaceochromogenes</i>
7352 ←IMET 43653	" <i>Streptomyces toyocaensis</i> "	4530 <sup>T</sup> ←KCC S-0530
<i>Streptomyces tetanusemus</i> "	4131 <sup>T</sup> ←KCC S-0131	<i>Streptomyces violaceolatus</i>
4839 ←KCC S-0839	4611 <sup>T</sup> ←KCC S-0611	4531 <sup>T</sup> ←KCC S-0531
<i>Streptomyces thermoalcalitolerans</i>	" <i>Streptomyces triangulatus</i> "	<i>Streptomyces violaceorectus</i>
10673 <sup>T</sup> ←DSM 41741	4886 <sup>T</sup> ←KCC S-0886	

- 4532<sup>T</sup> ←KCC S-0532  
***Streptomyces violaceoruber***  
 4020 ←KCC S-0020  
 4423<sup>T</sup> ←KCC S-0423  
 4691 ←KCC S-0691  
 4783 ←KCC S-0783  
 4979 ←KCC S-0979  
***Streptomyces violaceorubidus***  
 6931<sup>T</sup> ←INA 770  
***Streptomyces violaceus***  
 4237 ←KCC S-0237  
 4262 ←KCC S-0262  
 4533<sup>T</sup> ←KCC S-0533  
 4851 ←KCC S-0851  
***Streptomyces violaceusniger***  
 4850<sup>T</sup> ←KCC S-0850  
***Streptomyces violarus***  
 4534<sup>T</sup> ←KCC S-0534  
***Streptomyces violascens***  
 4424<sup>T</sup> ←KCC S-0424  
***Streptomyces violens***  
 3072<sup>T</sup> ←KCC A-0072  
 4852<sup>T</sup> ←KCC S-0852  
**"*Streptomyces violrubens*"**  
 4909<sup>T</sup> ←KCC S-0909  
***Streptomyces virens***  
 9095<sup>T</sup> ←VKM Ac-833  
***Streptomyces virginiae***  
 4093 ←KCC S-0093  
 4425<sup>T</sup> ←KCC S-0425  
**"*Streptomyces virginiae* subsp. *lipoxae*"**  
 4974 ←KCC S-0974  
**"*Streptomyces viridans*"**  
 4160 ←KCC S-0160  
**"*Streptomyces viridifaciens*"**  
 4155<sup>T</sup> ←KCC S-0155  
 4853<sup>T</sup> ←KCC S-0853  
**"*Streptomyces viridis*"**  
 4175 ←KCC S-0175  
 4854<sup>T</sup> ←KCC S-0854  
***Streptomyces viridiviolaceus***  
 4855<sup>T</sup> ←KCC S-0855  
***Streptomyces viridobrunneus***  
 9096<sup>T</sup> ←VKM Ac-559  
***Streptomyces viridochromogenes***  
 4094 ←KCC S-0094  
 4265<sup>T</sup> ←KCC S-0265  
 4437 ←KCC S-0437  
 4856<sup>T</sup> ←KCC S-0856  
 4977 ←KCC S-0977  
 5013 ←KCC S-1013  
***Streptomyces viridodiasstaticus***  
 4536<sup>T</sup> ←KCC S-0536  
**"*Streptomyces viridogenes*"**  
 4227<sup>T</sup> ←KCC S-0227  
 4858<sup>T</sup> ←KCC S-0858  
***Streptomyces viridosporus***  
 4859<sup>T</sup> ←KCC S-0859  
***Streptomyces vitaminophilus***  
 6054<sup>T</sup> ←T. Shomura SF-2080  
**"*Streptomyces vulgaris*"**  
 4537<sup>T</sup> ←KCC S-0537  
***Streptomyces wedmorensis***  
 4937<sup>T</sup> ←KCC S-0937  
***Streptomyces werraensis***  
 4860<sup>T</sup> ←KCC S-0860  
**"*Streptomyces wistariopsis*"**  
 4688<sup>T</sup> ←KCC S-0688  
**"*Streptomyces woolensis*"**  
 5073 ←KCC S-1073  
***Streptomyces xanthochromogenes***  
 4215<sup>T</sup> ←KCC S-0215  
 4612<sup>T</sup> ←KCC S-0612  
***Streptomyces xanthocidicus***  
 4243<sup>T</sup> ←KCC S-0243  
 4862<sup>T</sup> ←KCC S-0862  
***Streptomyces xantholiticus***  
 4282<sup>T</sup> ←KCC S-0282  
 4863<sup>T</sup> ←KCC S-0863  
***Streptomyces xanthophaeus***  
 4271 ←KCC S-0271  
 4426<sup>T</sup> ←KCC S-0426  
***Streptomyces xiamenensis***  
 16123<sup>T</sup> ←CGMCC 4.3534  
***Streptomyces xinghaiensis***  
 16958<sup>T</sup> ←KCTC 19546  
***Streptomyces yanglinensis***  
 13275<sup>T</sup> ←Y. Huang 1307  
***Streptomyces yanii***  
 3331<sup>T</sup> ←KCC A-0331  
***Streptomyces yatensis***  
 13244<sup>T</sup> ←DSM 41771  
***Streptomyces yeocheonensis***  
 12366<sup>T</sup> ←KCTC 9926  
***Streptomyces yerevanensis***  
 3047<sup>T</sup> ←KCC A-0047  
 3065<sup>T</sup> ←KCC A-0065  
***Streptomyces yogyakartensis***  
 11448<sup>T</sup> ←NCIMB 13681  
***Streptomyces yokosukanensis***  
 4137<sup>T</sup> ←KCC S-0137  
 4559<sup>T</sup> ←KCC S-0559  
***Streptomyces yunnanensis***  
 12115<sup>T</sup> ←AS 4.1004  
***Streptomyces zaomyceticus***  
 4179<sup>T</sup> ←KCC S-0179  
 4864<sup>T</sup> ←KCC S-0864  
**"*Streptomyces zelensis*"**  
 5024<sup>T</sup> ←KCC S-1024  
***Streptosporangium album***  
 3025<sup>T</sup> ←KCC A-0025  
***Streptosporangium amethystogenes* subsp. *amethystogenes***  
 3026<sup>T</sup> ←KCC A-0026  
***Streptosporangium amethystogenes* subsp. *fukuiense***  
 10083<sup>T</sup> ←S. Iinuma AL-23456  
***Streptosporangium canum***  
 16802<sup>T</sup> ←CGMCC 4.2126  
***Streptosporangium carneum***  
 9926<sup>T</sup> ←IFO 15562  
***Streptosporangium fragile***  
 6242<sup>T</sup> ←DSM 43847  
**"*Streptosporangium koreanum*"**  
 3292 ←KCC A-0292  
***Streptosporangium longisporum***  
 3106<sup>T</sup> ←KCC A-0106  
***Streptosporangium nondiastaticum***  
 3114<sup>T</sup> ←KCC A-0114  
***Streptosporangium oxazolinicum***  
 17388<sup>T</sup> ←A. Matsumoto K07-0460  
***Streptosporangium pseudovulgare***  
 3115<sup>T</sup> ←KCC A-0115  
***Streptosporangium roseum***  
 3005<sup>T</sup> ←KCC A-0005  
**"*Streptosporangium rubrum*"**  
 3075 ←KCC A-0075  
 3184 ←KCC A-0184  
**"*Streptosporangium sibiricum*"**  
 3280<sup>T</sup> ←KCC A-0280  
***Streptosporangium subroseum***  
 11962<sup>T</sup> ←CCRC 16302  
***Streptosporangium violaceochromogenes***  
 3281<sup>T</sup> ←KCC A-0281  
**"*Streptosporangium viridialbum* subsp. *reducens*"**  
 3116<sup>T</sup> ←KCC A-0116  
***Streptosporangium vulgare***  
 3028<sup>T</sup> ←KCC A-0028  
***Subtercola boreus***  
 11267<sup>T</sup> ←DSM 13056  
***Subtercola frigoramans***  
 11268<sup>T</sup> ←DSM 13057  
***Succinimonas hippel***  
 16073<sup>T</sup> ←Y. Watanae A55 (=YIT 12066)  
***Sulfitobacter brevis***  
 21790<sup>T</sup> ←IAM 15345  
***Sulfitobacter donghicola***  
 14565<sup>T</sup> ←Y.-H. Yoon DSW-25  
***Sulfitobacter guttiformis***  
 21791<sup>T</sup> ←IAM 15346  
***Sulfitobacter marinus***  
 13602<sup>T</sup> ←J.-H. Yoon SW-265  
***Sulfitobacter mediterraneus***  
 21792<sup>T</sup> ←IAM 15347  
***Sulfitobacter pontiacus***  
 21789<sup>T</sup> ←IAM 15344  
***Sulfuricurvum kujiense***  
 11577<sup>T</sup> ←Y. Kodama YK-1  
***Sulfurihydrogenibium subterraneum***  
 11477<sup>T</sup> ←K. Takai HGMK1  
***Sulfurihydrogenibium yellowstonense***  
 12773<sup>T</sup> ←S. Nakagawa SS-5  
***Sulfurimonas autotrophica***  
 11897<sup>T</sup> ←F. Inagaki OK10  
***Sulfurimonas paralvinellae***  
 13212<sup>T</sup> ←K. Takai GO25  
***Sulfurivirga caldicuralii***  
 13439<sup>T</sup> ←K. Takai MM1  
 13440 ←K. Takai VW1  
***Sulfurospirillum cavolei***  
 13918<sup>T</sup> ←Y. Kodama Phe91  
***Sulfurospirillum multivorans***  
 15788<sup>T</sup> ←DSM 12446  
***Sulfurovum lithotrophicum***  
 12117<sup>T</sup> ←F. Inagaki 42BKT  
***Sutterella parvirubra***  
 14724<sup>T</sup> ←H. Sakon YIT 11816  
 14725 ←H. Sakon YIT 11817  
 14726 ←H. Sakon YIT 11818  
***Symbiobacterium thermophilum***  
 14929<sup>T</sup> ←K. Ueda strain T  
***Syntrophaceticus schinkii***  
 16669<sup>T</sup> ←A. Schnürer Sp3  
**"*Syntrophomonas erecta* subsp. *sporosyntropha*"**  
 13344<sup>T</sup> ←X. Dong 5-3-Z  
***Syntrophomonas palmitatica***

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>Tetrasphaera veronensis</i>
15592 <sup>T</sup> ←NCIMB 14129
<i>Thalassobacillus cyri</i>
15722 <sup>T</sup> ←A. Ventosa HS286
<i>Thalassobacillus pellis</i>
16412 <sup>T</sup> ←C. Sanchez-Porro 180M
" <i>Thalassobius aestuarii</i> "
14332 <sup>T</sup> ←J. Chun JC2049
<i>Thalassobius gelatinovorus</i>
20688 <sup>T</sup> ←IAM 12617
<i>Thalassococcus halodurans</i>
13833 <sup>T</sup> ←M. Tsoi UST050418-052
<i>Thalassomonas agarivorans</i>
13379 <sup>T</sup> ←W. Y. Shieh TMA1
<i>Thalassospira tepidiphila</i>
14578 <sup>T</sup> ←Y. Kodama 1-1B
<i>Thalassospira xianhensis</i>
14850 <sup>T</sup> ←B. Zhao P-4
<i>Thauera butanivorans</i>
20651 <sup>T</sup> ←IAM 12574
<i>Thauera linaloolentis</i>
21573 <sup>T</sup> ←IAM 15112
<i>Thauera</i> sp.
12309 ←N. Kato DNT-1
<i>Thermaerobacter composti</i>
15650 <sup>T</sup> ←S. Yabe Ni80
<i>Thermaerobacter litoralis</i>
13210 <sup>T</sup> ←R. Tanaka KW1
<i>Thermaerobacter marianensis</i>
10246 <sup>T</sup> ←K. Takai 7p75a
<i>Thermaerobacter nagasakiensis</i>
11223 <sup>T</sup> ←T. Nunoura TS1a
<i>Thermanaeromonas toyohensis</i>
11376 <sup>T</sup> ←K. Mori strain ToBE
<i>Thermasporomyces composti</i>
16421 <sup>T</sup> ←S. Yabe I3
<i>Thermoactinomyces intermedius</i>
3312 <sup>T</sup> ←KCC A-0312
<i>Thermoactinomyces vulgaris</i>
3042 ←KCC A-0042
3064 ←KCC A-0064
3161 ←KCC A-0161
3162 <sup>T</sup> ←KCC A-0162
3180 ←KCC A-0180
3220 ←KCC A-0220
<i>Thermoanaerobacter brockii</i> subsp. <i>lactiethylicus</i>
16816 <sup>T</sup> ←DSM 9801
<i>Thermoanaerobacter italicus</i>
16815 <sup>T</sup> ←DSM 9252
<i>Thermoanaerobacter</i> sp.
7503 ←K. Yamasato JT1
<i>Thermoanaerobacter thermocopiae</i>
7501 <sup>T</sup> ←K. Yamasato JT3-3
7504 ←K. Yamasato JT2
7505 ←K. Yamasato JT5
20927 ←IAM 13579
<i>Thermobacillus composti</i>
13945 <sup>T</sup> ←N. Kurosawa KWC4
<i>Thermobifida alba</i>
3077 <sup>T</sup> ←KCC A-0077
3169 ←KCC A-0169
<i>Thermobifida cellulolytica</i>
11767 <sup>T</sup> ←DSM 44535
<i>Thermobifida fusca</i>
3263 <sup>T</sup> ←KCC A-0263
<i>Terrabacter ginsenosidimutans</i>
17125 <sup>T</sup> ←W.-T. Im Gsoil 3082
<i>Terrabacter lapilli</i>
15628 <sup>T</sup> ←KCTC 19199
<i>Terrabacter terrae</i>
14283 <sup>T</sup> ←CECT 3379
<i>Terrabacter tumescens</i>
1365 <sup>T</sup> ←IAM 12345
<i>Terracoccus luteus</i>
10981 <sup>T</sup> ←IFO 16165
<i>Terribacillus halophilus</i>
21760 <sup>T</sup> ←IAM 15310
<i>Terribacillus saccharophilus</i>
21759 <sup>T</sup> ←IAM 15309
<i>Terrimonas ferruginea</i>
21559 <sup>T</sup> ←IAM 15098
<i>Terrimonas lutea</i>
21735 <sup>T</sup> ←IAM 15284
<i>Tessaracoccus bendigoensis</i>
13525 <sup>T</sup> ←DSM 12906
<i>Tessaracoccus flavescentis</i>
16025 <sup>T</sup> ←KCTC 19196
<i>Tetragenococcus halophilus</i>
2014 ←C. Kaneuchi
2015 ←C. Kaneuchi
2016 ←C. Kaneuchi
2017 ←C. Kaneuchi
2018 ←C. Kaneuchi
2019 ←C. Kaneuchi
2020 ←C. Kaneuchi
5888 <sup>T</sup> ←ATCC 33315
20245 ←IAM 1673
20246 ←IAM 1674
20247 ←IAM 1675
20249 ←IAM 1678
20250 ←IAM 1681
20251 ←IAM 1682
20252 ←IAM 1683
20254 ←IAM 1685
20255 ←IAM 1686
20256 ←IAM 1688
20257 ←IAM 1689
20258 ←IAM 1692
20259 ←IAM 1693
20260 ←IAM 1698
20261 ←IAM 1702
<i>Tetragenococcus muriaticus</i>
10006 <sup>T</sup> ←T. Fujii X-1
10007 ←T. Fujii X-2
<i>Tetragenococcus solitarius</i>
8736 <sup>T</sup> ←ATCC 49428
<i>Tetrasphaera australiensis</i>
21382 ←IAM 14892
21391 <sup>T</sup> ←IAM 14901
<i>Tetrasphaera duodecadis</i>
11564 <sup>T</sup> ←LMG 17308
<i>Tetrasphaera elongata</i>
11141 <sup>T</sup> ←S. Hanada Lp2
<i>Tetrasphaera japonica</i>
21381 <sup>T</sup> ←IAM 14891
<i>Tetrasphaera jenkinsii</i>
15590 <sup>T</sup> ←NCIMB 14128
<i>Tetrasphaera remsis</i>
15662 <sup>T</sup> ←CIP 109413
<i>Tetrasphaera vanveenii</i>
15591 <sup>T</sup> ←NCIMB 14127
<i>Tetrasphaera veronensis</i>
14374 <sup>T</sup> ←M. Hatamoto strain MPA
" <i>Syntrophomonas wolfei</i> subsp. <i>methylbutyratica</i> "
14075 <sup>T</sup> ←C. Wu and X. Dong 4J5
<i>Syntrophorhabdus aromaticivorans</i>
13376 <sup>T</sup> ←Y. Qiu strain UI
<i>Tamlana crocina</i>
14021 <sup>T</sup> ←S. D. Lee HST1-43
<i>Tannerella forsythia</i>
10827 <sup>T</sup> ←M. Umeda
<i>Tateyamaria omphalii</i>
21569 <sup>T</sup> ←IAM 15108
<i>Tatlockia maceachernii</i>
7566 <sup>T</sup> ←GIFU 10745
<i>Tatumella citrea</i>
8882 <sup>T</sup> ←B. Kageyama SHS 2003
<i>Tatumella ptyseos</i>
1686 ←R. Sakazaki 361
<i>Tatumella punctata</i>
8883 ←B. Kageyama SHS 2004
8884 ←B. Kageyama SHS 2005
8885 <sup>T</sup> ←B. Kageyama SHS 2006
8886 ←B. Kageyama SHS 2007
<i>Tatumella terrea</i>
8887 <sup>T</sup> ←B. Kageyama SHS 2008
8888 ←B. Kageyama SHS 2009
8889 ←B. Kageyama SHS 2010
8890 ←B. Kageyama SHS 2011
<i>Tenacobaculum adriaticum</i>
14633 <sup>T</sup> ←H. Heindl B390
<i>Tenacobaculum aestuarii</i>
13491 <sup>T</sup> ←J.-H. Yoon SMK-4
<i>Tenacobaculum amyloyticum</i>
21776 <sup>T</sup> ←IAM 15328
<i>Tenacobaculum crassostreiae</i>
15428 <sup>T</sup> ←J. S. Jung JO-1
<i>Tenacobaculum litoreum</i>
13039 <sup>T</sup> ←D. H. Choi CL-TF13
<i>Tenacobaculum maritimum</i>
8137 ←NCIMB 2153
21157 <sup>T</sup> ←IAM 14317
<i>Tenacobaculum ovolyticum</i>
21158 <sup>T</sup> ←IAM 14318
<i>Tenacobaculum</i> sp.
21371 ←IAM 14874
" <i>Tepidanaerobacter acetatoxydans</i> "
16047 <sup>T</sup> ←A. Schnürer Re1
16048 ←A. Schnürer Re2
16049 ←A. Schnürer T1
16050 ←A. Schnürer T2
<i>Tepidanaerobacter syntrophicus</i>
12098 <sup>T</sup> ←Y. Sekiguchi strain JL
12099 ←Y. Sekiguchi JE
12100 ←Y. Sekiguchi OL
<i>Tepidimicrobium xylanolyticum</i>
15035 <sup>T</sup> ←X. Dong PML14
" <i>Tepidimonas arfidensis</i> "
13232 <sup>T</sup> ←K. S. Ko SMC-6271
<i>Terasakiella pusilla</i>
21225 <sup>T</sup> ←IAM 14442
<i>Terrabacter aerophilus</i>
17687 <sup>T</sup> ←KACC 20693
<i>Terrabacter aerolatus</i>
16379 <sup>T</sup> ←KACC 20556
<i>Terrabacter carboxydivorans</i>
16259 <sup>T</sup> ←Y. M. Kim PY2

*Thermobifida halotolerans* 16012<sup>T</sup> ←DSM 44931  
*Thermobispora bispora* 3082 ←KCC A-0082  
 10125<sup>T</sup> ←IFO 14880  
*Thermocrinis albus* 11386<sup>T</sup> ←W. Eder and K. O. Stetter HI 11/12  
*Thermocrispum agreste* 9705<sup>T</sup> ←DSM 44070  
*Thermocrispum municipale* 9704<sup>T</sup> ←DSM 44069  
*Thermodesulfatator atlanticus* 15391<sup>T</sup> ←A. Postec AT1325  
*Thermodesulfatator indicus* 11887<sup>T</sup> ←H. Moussard CIR29812  
*Thermodesulfobium narugense* 11510<sup>T</sup> ←K. Mori Na82  
*Thermodesulfovibrio aggregans* 13213<sup>T</sup> ←Y. Sekiguchi TGE-P1  
*Thermodesulfovibrio hydrogenophilus* 13991<sup>T</sup> ←M.-L. Fardeau HB5  
*Thermodesulfovibrio islandicus* 13214 ←Y. Sekiguchi TGL-LS1  
 13215 ←Y. Sekiguchi TSL-P1  
*Thermodesulfovibrio thiophilus* 13216<sup>T</sup> ←Y. Sekiguchi TDV  
*Thermoflavimicrobium dichotomicum* 3055 ←KCC A-0055  
 3069 ←KCC A-0069  
 3078 ←KCC A-0078  
 9688<sup>T</sup> ←NCIMB 10211  
*Thermogemmatispora foliorum* 16818<sup>T</sup> ←S. Yabe ONI-5  
*Thermogemmatispora onikobensis* 16817<sup>T</sup> ←S. Yabe ONI-1  
*Thermomonospora chromogena* 6244<sup>T</sup> ←DSM 43794  
*Thermomonospora curvata* 3096<sup>T</sup> ←KCC A-0096  
*Thermopolyspora flexuosa* 3056<sup>T</sup> ←KCC A-0056  
*Thermosiphon globiformans* 15059<sup>T</sup> ←T. Kuwabara MN14  
*Thermosiphon japonicus* 10495<sup>T</sup> ←K. Takai IHB1  
*Thermosporothrix hazakensis* 16142<sup>T</sup> ←S. Yabe SK20-1  
*Thermosulfidibacter takaii* 13301<sup>T</sup> ←T. Nunoura ABI70S6  
*Thermotalea metallivorans* 15105<sup>T</sup> ←C. D. Ogg and B. K. C. Patel B2-1  
*Thermotoga maritima* 10099<sup>T</sup> ←DSM 3109  
*Thermotoga naphthophila* 10882<sup>T</sup> ←T. Maruyama RKU-10  
*Thermotoga petrophila* 10881<sup>T</sup> ←T. Maruyama RKU-1  
*Thermovibrio ammonificans* 12110<sup>T</sup> ←C. Vetriani HB-1  
*Thermovibrio guaymasensis* 12128<sup>T</sup> ←S. L'Haridon SL19  
*Thermovibrio ruber* 11468<sup>T</sup> ←H. Huber and K. O. Stetter ED11/3LLK

"*Thermvorax subterraneus*" 15541<sup>T</sup> ←A. Mäkinen 70B  
*Thermus aquaticus* 10724<sup>T</sup> ←DSM 625  
*Thermus arciformis* 15152 ←X.-Q. Zhang TH91  
 15153<sup>T</sup> ←X.-Q. Zhang TH92  
*Thermus brockianus* 11602<sup>T</sup> ←NCIMB 12676  
*Thermus filiformis* 11600<sup>T</sup> ←NCIMB 12588  
" *Thermus kawarayensis*" 12314<sup>T</sup> ←N. Kurosawa KW11  
*Thermus oshimai* 11603<sup>T</sup> ←NCIMB 13400  
*Thermus scotoductus* 11601<sup>T</sup> ←NCIMB 13336  
*Thermus* sp. 17651 ←T. Itoh IC-171  
 17652 ←T. Itoh IC-174  
*Thermus thermophilus* 10668 ←F. Inagaki and S. Ogata strain TMY  
 10941<sup>T</sup> ←S. Kuramitsu  
*Thioalbus denitrificans* 15568<sup>T</sup> ←V. H. Pham Su4  
*Thioalkalivibrio jannaschii* 11372<sup>T</sup> ←D. Yu. Sorokin ALM 2  
*Thioalkalivibrio paradoxus* 11367<sup>T</sup> ←D. Yu. Sorokin ARh 1 (grown with thiocyanate)  
 11369<sup>T</sup> ←D. Yu. Sorokin ARh 1 (grown with thiosulfate)  
*Thioalkalivibrio thiocyanoxidans* 11368<sup>T</sup> ←D. Yu. Sorokin ARh 2 (grown with thiocyanate)  
 11370<sup>T</sup> ←D. Yu. Sorokin ARh 2 (grown with thiosulfate)  
*Thiobacillus denitrificans* 3869 ←Y. Katayama THI151  
 3870<sup>T</sup> ←Y. Katayama THI152  
*Thiobacillus thioparus* 3859<sup>T</sup> ←Y. Katayama THI111  
 3860 ←Y. Katayama THI112  
*Thiobacillus thiophilus* 15047<sup>T</sup> ←C. Kellermann D24TN  
*Thiobacter subterraneus* 12421<sup>T</sup> ←H. Hirayama C55  
*Thiocapsa* sp. 15485 ←J. Schott KS1  
*Thiocystis cadagnonensis* 15111<sup>T</sup> ←S. Peduzzi Cad448  
*Thiocystis chemoclinalis* 15112<sup>T</sup> ←S. Peduzzi CadH11  
*Thiohalocapsa marina* 14780<sup>T</sup> ←Ch. Sasikala JA142  
*Thiomicrospira thermophila* 12397<sup>T</sup> ←K. Takai I78  
*Thiomonas bhubaneswarensis* 14806<sup>T</sup> ←S. K. Das S10  
*Thiomonas intermedia* 20425<sup>T</sup> ←IAM 12131  
*Thiomonas islandica* 16107<sup>T</sup> ←J. Örlygsson 6C  
*Thiomonas perometabolis* 20426<sup>T</sup> ←IAM 12132  
*Thiophaeococcus mangrovi* 14889<sup>T</sup> ←Ch. Sasikala JA304  
*Thioprofundum lithotrophicum* 14586<sup>T</sup> ←K. Takai 106  
*Thioreductor micantisoli* 12457<sup>T</sup> ←S. Nakagawa BKB25Ts-Y  
*Thiorhodococcus bheemlicus* 14149<sup>T</sup> ←Ch. Sasikala JA132  
*Thiorhodococcus kakinadensis* 14150<sup>T</sup> ←Ch. Sasikala JA130  
*Thiothrix disciformis* 11364<sup>T</sup> ←T. Kanagawa B3-1  
*Thiothrix flexilis* 11135<sup>T</sup> ←T. Kohno EJ2M-B  
*Thiovirga sulfuroxydans* 12417<sup>T</sup> ←S. Okabe SO07  
*Tindallia texcoconensis* 13990<sup>T</sup> ←M.-L. Fardeau IMP-300  
*Tistlia consotensis* 15529<sup>T</sup> ←B. Patel USBA 355  
*Tistrella mobilis* 21370<sup>T</sup> ←IAM 14872  
*Trabulsiella guamensis* 21227<sup>T</sup> ←IAM 14444  
*Tranquillimonas alkanivorans* 14836<sup>T</sup> ←Y. Kasai A34  
*Treponema berolinense* 12341<sup>T</sup> ←M. Nordhoff 7CPL208  
*Treponema denticola* 8152 ←ATCC 35404  
 8153<sup>T</sup> ←ATCC 35405  
 8225 ←T. Mitsuoka  
 8226 ←T. Mitsuoka  
*Treponema isoptericolens* 13955<sup>T</sup> ←S. Dröge SPIT5  
*Treponema porcinum* 12342<sup>T</sup> ←M. Nordhoff 14V28  
*Treponema socranskii* subsp. *buccale* 8155<sup>T</sup> ←ATCC 35534  
*Treponema socranskii* subsp. *paredis* 8156<sup>T</sup> ←ATCC 35535  
*Treponema socranskii* subsp. *socranskii* 8157<sup>T</sup> ←ATCC 35536  
*Trichococcus patagoniensis* 12176<sup>T</sup> ←E. V. Pikuta PmagG1  
" *Trichotomospora caesia*" 6113<sup>T</sup> ←X. Liu 230  
*Tropicibacter naphthalenivorans* 14838<sup>T</sup> ←Y. Kasai C02  
*Tropicimonas isoalkanivorans* 14837<sup>T</sup> ←Y. Kasai B51  
*Trueperella abortisuis* 14813<sup>T</sup> ←S. Murakami strain Murakami  
*Tsukamurella carboxydivorans* 15482<sup>T</sup> ←Y. M. Kim Y2  
*Tsukamurella inchonensis* 3226 ←KCC A-0226  
 10110<sup>T</sup> ←DSM 44067  
*Tsukamurella paurometabola* 10117<sup>T</sup> ←CIP 100753  
*Tsukamurella pseudospumae* 13375<sup>T</sup> ←IFM 10600  
*Tsukamurella pulmonis* 10111<sup>T</sup> ←DSM 44142  
*Tsukamurella soli* 17688<sup>T</sup> ←KACC 20764

<i>Tsukamurella</i> sp.	
21352 ←IAM 14847	
<i>Tsukamurella spumae</i>	
12608 <sup>T</sup> ←NCIMB 13947	
<i>Tsukamurella strandjordii</i>	
11487 <sup>T</sup> ←ATCC BAA-173	
<i>Tsukamurella sunchonensis</i>	
15929 <sup>T</sup> ←NRRL B-24668	
<i>Tsukamurella tyrosinosolvens</i>	
10112 <sup>T</sup> ←DSM 44234	
<i>Tuberibacillus calidus</i>	
13397 <sup>T</sup> ←A. Nakamura 607	
<i>Tumebacillus permanentifrigoris</i>	
14557 <sup>T</sup> ←L. Whyte Eur1 9.5	
<i>Turicella otitidis</i>	
12146 <sup>T</sup> ←LMG 19071	
<i>Umbonibacter marinipuniceus</i>	
15738 <sup>T</sup> ←N. Tanaka	
<i>Umezawaea tangerina</i>	
10302 <sup>T</sup> ←M. Hamada MK27-91F2 (IMC A-0190)	
<b>Unidentified bacterium</b>	
9638 ←K. Suzuki CNF187	
14676 ←K. Minamisawa B6	
14692 ←K. Minamisawa B27	
<b>Unidentified gammaproteobacterium</b>	
12471 ←MTCC 4210	
<i>Vadicella arenosi</i>	
17190 <sup>T</sup> ←N. Tanaka Sd3-24	
<i>Variovorax paradoxus</i>	
20526 <sup>T</sup> ←IAM 12373	
20527 ←IAM 12374	
20895 <sup>T</sup> ←IAM 13535	
20896 ←IAM 13536	
20897 ←IAM 13537	
20898 ←IAM 13538	
20899 ←IAM 13539	
20910 ←IAM 13550	
20911 ←IAM 13551	
20912 ←IAM 13552	
<i>Variovorax</i> sp.	
16519 ←K. Satsuma RA8	
<i>Vasilyeaea enhydra</i>	
21106 <sup>T</sup> ←IAM 14252	
<i>Veillonella criceti</i>	
6511 <sup>T</sup> ←Y. Benno	
<i>Veillonella denticariosi</i>	
15641 <sup>T</sup> ←CCUG 54362	
<i>Veillonella magna</i>	
15053 <sup>T</sup> ←M. Kraatz lac18	
<i>Veillonella parvula</i>	
12972 <sup>T</sup> ←DSM 2008	
<i>Veillonella ratti</i>	
6512 <sup>T</sup> ←Y. Benno	
<i>Veillonella rogosae</i>	
15642 <sup>T</sup> ←CCUG 54233	
<i>Venenvibrio stagnispumantis</i>	
14244 <sup>T</sup> ←A. Hetzer	
<i>Verrucosispora gifhornensis</i>	
10457 <sup>T</sup> ←DSM 44337	
<i>Verrucosispora lutea</i>	
16959 <sup>T</sup> ←KCTC 19195	
<i>Verrucosispora sediminis</i>	
15670 <sup>T</sup> ←J. Wang MS426	
<i>Vibrio areninigrae</i>	
14949 <sup>T</sup> ←H.-W. Chang J74	
<i>Vibrio diazotrophicus</i>	
21185 <sup>T</sup> ←IAM 14402	
" <i>Vibrio equitatus</i> "	
21434 ←IAM 14957	
<i>Vibrio ezuriae</i>	
21522 <sup>T</sup> ←IAM 15061	
21523 ←IAM 15062	
21524 ←IAM 15063	
<i>Vibrio fluvialis</i>	
3733 ←T. Shimada 12-68	
3734 ←T. Shimada 26-68	
3735 ←T. Shimada 209-73	
3736 ←T. Shimada 210-73	
3737 ←T. Shimada 212-73	
3738 ←T. Shimada 1997-80	
3739 ←T. Shimada 305-77	
3740 ←T. Shimada 99-77	
3741 ←T. Shimada 910-77	
3742 ←T. Shimada 1184-77	
3743 ←T. Shimada 76-79	
3744 ←T. Shimada 391-79	
3745 ←T. Shimada 1562-80	
3746 ←T. Shimada 1988-80	
3747 ←T. Shimada 1561-80	
3748 ←T. Shimada 881-81	
3749 ←T. Shimada 950-82	
3750 ←T. Shimada 1030-82	
3751 ←T. Shimada GF25	
3752 <sup>T</sup> ←T. Shimada	
3753 ←T. Shimada	
<i>Vibrio gazogenes</i>	
21187 <sup>T</sup> ←IAM 14404	
<i>Vibrio halioticoli</i>	
21271 <sup>T</sup> ←IAM 14596	
21272 ←IAM 14597	
21273 ←IAM 14598	
21274 ←IAM 14599	
<i>Vibrio hangzhouensis</i>	
15146 <sup>T</sup> ←X.-W. Xu CN83	
<i>Vibrio hollisae</i>	
1283 <sup>T</sup> ←R. Sakazaki 82069	
1284 ←R. Sakazaki 82068	
<i>Vibrio metschnikovii</i>	
20020 ←IAM 1039	
21189 <sup>T</sup> ←IAM 14406	
<i>Vibrio neonatus</i>	
21520 ←IAM 15059	
21521 <sup>T</sup> ←IAM 15060	
<i>Vibrio nereis</i>	
21190 <sup>T</sup> ←IAM 14407	
<i>Vibrio owensii</i>	
16517 <sup>T</sup> ←L. Høj DY05	
<i>Vibrio penaeicida</i>	
9123 <sup>T</sup> ←K. Muroga KH-1	
9124 ←K. Muroga PD-A	
9125 ←K. Muroga KA-13	
9192 ←K. Muroga ESV-8701	
9193 ←K. Muroga PO-1	
9194 ←K. Muroga KO-1	
<i>Vibrio proteolyticus</i>	
21193 <sup>T</sup> ←IAM 14410	
<i>Vibrio ruber</i>	
11486 <sup>T</sup> ←W. Y. Shieh VR1	
<i>Vibrio</i> sp.	
21396 ←IAM 14914	
21397 ←IAM 14915	
21398 ←IAM 14916	
21399 ←IAM 14917	
<i>Vibrio splendidus</i>	
21194 ←IAM 14411	
<i>Vibrio superstes</i>	
21478 ←IAM 15007	
21479 ←IAM 15008	
21480 <sup>T</sup> ←IAM 15009	
<i>Vibrio vulnificus</i>	
3725 <sup>T</sup> ←T. Shimada	
3726 ←T. Shimada D3894	
3727 ←T. Shimada E240	
3728 ←T. Shimada 1115-80	
3729 ←T. Shimada E571	
3730 ←T. Shimada 91-81	
3731 ←T. Shimada 1338-80	
3732 ←T. Shimada V12	
" <i>Virgibacillus alimentarius</i> "	
16994 ←J.-W. Bae J18	
<i>Virgibacillus arcticus</i>	
14839 <sup>T</sup> ←L. Whyte Hal 1	
<i>Virgibacillus carmonensis</i>	
16508 <sup>T</sup> ←DSM 14868	
<i>Virgibacillus halodenitrificans</i>	
12304 <sup>T</sup> ←DSM 10037	
<i>Virgibacillus halophilus</i>	
21758 <sup>T</sup> ←IAM 15308	
<i>Virgibacillus kekensis</i>	
16510 <sup>T</sup> ←DSM 17056	
<i>Virgibacillus koreensis</i>	
12387 <sup>T</sup> ←J.-S. Lee BH30097	
<i>Virgibacillus necropolis</i>	
16509 <sup>T</sup> ←DSM 14866	
<i>Virgibacillus pantothenicus</i>	
20334 <sup>T</sup> ←IAM 11061	
<i>Virgibacillus salarius</i>	
12946 <sup>T</sup> ←T. Naganuma SA-Vb1	
<i>Virgibacillus siamensis</i>	
15395 <sup>T</sup> ←N. Chamroensaksri and S. Tanasupawat MS3-4	
<i>Virgisporangium aurantiacum</i>	
11002 <sup>T</sup> ←T. Tamura YU 438-5	
<i>Virgisporangium ochraceum</i>	
11001 <sup>T</sup> ←T. Tamura YU 655-43	
<i>Vitellibacter aestuarii</i>	
15496 <sup>T</sup> ←J. Chun JC2436	
<i>Vitellibacter vladivostokensis</i>	
11732 <sup>T</sup> ←M. Suzuki R3516	
<i>Vulcanibacillus modestaldus</i>	
12998 <sup>T</sup> ←DSM 14931	
<i>Vulcanithermus mediatlanticus</i>	
11956 <sup>T</sup> ←M. Miroshnichenko strain TR	
<i>Wandonia haliotis</i>	
16083 <sup>T</sup> ←H.-Y. Kahng strain Haldis-1	
<i>Weeksella virosa</i>	
21250 <sup>T</sup> ←IAM 14551	
<i>Weissella cibaria</i>	
12495 <sup>T</sup> ←CCUG 41967	
<i>Weissella confusa</i>	
1093 <sup>T</sup> ←T. Mitsuoka S8-9	
1160 ←ATCC 27646	
1562 ←ATCC 14434	
<i>Weissella halotolerans</i>	
1114 <sup>T</sup> ←DSM 20190	
<i>Weissella hellenica</i>	
10103 <sup>T</sup> ←NCFB 2973	

<i>Weissella kandleri</i>	20466 ←IAM 12307	15110 <sup>T</sup> ←CIP 82.80
5817 <sup>T</sup> ←DSM 20593	20469 ←IAM 12310	16960 <sup>T</sup> ←KCTC 19231
<i>Weissella koreensis</i>	20529 ←IAM 12378	<i>Yokenella regensburgei</i>
11263 <sup>T</sup> ←J.-S. Lee S-5623	<i>Xanthomonas oryzae</i>	2403 <sup>T</sup> ←R. Sakazaki 725-83
11264 ←J.-S. Lee S-5673	20241 ←IAM 1657	2404 ←R. Sakazaki 726-83
<i>Weissella minor</i>	<i>Xanthomonas</i> sp.	2405 ←R. Sakazaki 727-83
1168 <sup>T</sup> ←T. Mitsuoka S8-21	3851 ←K. Kodama KS 0923	2406 ←R. Sakazaki 728-83
<i>Weissella parameceteroides</i>	3852 ←K. Kodama KS 0924	2407 ←R. Sakazaki 729-83
9890 <sup>T</sup> ←NRIC 1542	3853 ←K. Kodama KS 0925	2408 ←R. Sakazaki 730-83
10359 ←Y. Cai FG5	3854 ←K. Kodama KS 0926	3958 ←Y. Kosako
10360 ←Y. Cai FG7	3855 ←K. Kodama KS 0927	3959 ←Y. Kosako 85572
10361 ←Y. Cai FG22	3856 ←K. Kodama KS 0928	3960 ←Y. Kosako 85573
10362 ←Y. Cai FG23	3857 ←K. Kodama KS 0929	3961 ←Y. Kosako 85574
10363 ←Y. Cai FG24	3858 ←K. Kodama KS 0930	3962 ←Y. Kosako 85575
10364 ←Y. Cai NG9	<i>Xanthomonas vasicola</i>	<i>Yonghaparkia alkaliphila</i>
10365 ←Y. Cai NG10	20467 ←IAM 12308	15138 <sup>T</sup> ←CIP 108920
<i>Weissella soli</i>	<i>Xenorhabdus japonica</i>	<i>Yuhushielia deserti</i>
12536 <sup>T</sup> ←LMG 20113	21111 <sup>T</sup> ←IAM 14265	16584 <sup>T</sup> ←L.-X. Zhang RA45
<i>Weissella thailandensis</i>	<i>Xylanibacter oryzae</i>	<i>Zhangella mobilis</i>
10694 ←S. Tanasupawat FS45-1	13648 <sup>T</sup> ←A. Ueki KB3	15144 <sup>T</sup> ←Z.-P. Liu E6
10695 <sup>T</sup> ←S. Tanasupawat FS61-1	13649 ←A. Ueki KB10	<i>Zhihengliuella aestuarii</i>
<i>Weissella viridescens</i>	<i>Xylanibacterium ulmi</i>	16364 <sup>T</sup> ←C. N. Seong DY66
1064 ←T. Mitsuoka S2-49	14284 <sup>T</sup> ←CECT 5731	<i>Zhihengliuella alba</i>
( <i>Lactobacillus brevis</i> )	<i>Xylanimicrobium pachnodiae</i>	16961 <sup>T</sup> ←KCTC 19375
1174 <sup>T</sup> ←ATCC 12706	13526 <sup>T</sup> ←DSM 12657	<i>Zhihengliuella halotolerans</i>
<i>Wenxinia marina</i>	<i>Xylanimonas cellulosilytica</i>	15629 <sup>T</sup> ←KCTC 19085
14017 <sup>T</sup> ←S. Liu HY-34	12276 <sup>T</sup> ←CECT 5975	<i>Zhouia amylolytica</i>
<i>Williamsia deligens</i>	<i>Yangia pacifica</i>	14016 <sup>T</sup> ←S. Liu HN-171
13662 <sup>T</sup> ←IFM 10667	12573 <sup>T</sup> ←AS 1.3455	<i>Zobellella aerophila</i>
<i>Williamsia faeni</i>	<i>Yaniella flava</i>	17110 <sup>T</sup> ←J. Chun JC2671
17784 <sup>T</sup> ←NCIMB 14575	13595 <sup>T</sup> ←KCTC 19047	<i>Zobellella denitrificans</i>
<i>Williamsia mariannensis</i>	<i>Yaniella fodinae</i>	13380 <sup>T</sup> ←W. Y. Shieh ZD1
14345 <sup>T</sup> ←NCIMB 14085	17931 <sup>T</sup> ←MTCC 9846	<i>Zobellella taiwanensis</i>
<i>Williamsia maris</i>	<i>Yaniella halotolerans</i>	13381 <sup>T</sup> ←W. Y. Shieh ZT1
12070 <sup>T</sup> ←L. A. Maldonado SJS0289/JSD1	13527 <sup>T</sup> ←DSM 15476	<i>Zobellia uliginosa</i>
<i>Williamsia muralis</i>	<i>Yeasuana aromativorans</i>	21152 <sup>T</sup> ←IAM 14312
10676 <sup>T</sup> ←DSM 44343	12862 <sup>T</sup> ←K. K. Kwon and S.-J. Kim	<i>Zoogloea oryzae</i>
<i>Williamsia serinedens</i>	GW1-1	21672 <sup>T</sup> ←IAM 15218
14883 <sup>T</sup> ←IFM 10863	<i>Yersinia aldovae</i>	<i>Zoogloea resiniphila</i>
<i>Winogradskyella arenosi</i>	5892 <sup>T</sup> ←Y. Kosako 85558	21744 <sup>T</sup> ←IAM 15294
15527 <sup>T</sup> ←N. Tanaka R60	<i>Yersinia enterocolitica</i> subsp.	<i>Zymobacter palmee</i>
<i>Winogradskyella poriferorum</i>	<i>enterocolitica</i>	21091 <sup>T</sup> ←IAM 14233
12885 <sup>T</sup> ←S. Lau UST030701-295	7577 <sup>T</sup> ←R. Sakazaki 446	21092 ←IAM 14234
<i>Xanthobacter autotrophicus</i>	<i>Yersinia intermedia</i>	21093 ←IAM 14235
1201 ←DSM 431	7579 <sup>T</sup> ←R. Sakazaki 456	21094 ←IAM 14236
1202 <sup>T</sup> ←DSM 432	<i>Yersinia kristensenii</i>	<i>Zymomonas mobilis</i> subsp. <i>mobilis</i>
1203 ←DSM 685	7576 <sup>T</sup> ←R. Sakazaki 476	10190 ←IFO 13756
7864 ←T. Urakami TK 0519	<i>Yersinia pseudotuberculosis</i>	20722 <sup>T</sup> ←IAM 12663
<i>Xanthobacter flavus</i>	1676 <sup>T</sup> ←R. Sakazaki 22176	<i>Zymomonas mobilis</i> subsp. <i>pomaceae</i>
1204 <sup>T</sup> ←DSM 338	<i>Yersinia rohdei</i>	10191 <sup>T</sup> ←IFO 13757
<i>Xanthomonas axonopodis</i>	7376 <sup>T</sup> ←CDC 3022-85	
20468 ←IAM 12309	7377 ←CDC 3435-85	
<i>Xanthomonas campestris</i>	<i>Yersinia ruckeri</i>	

## (2) アーキア (ARCHAEA)

<i>Acidianus ambivalens</i>	13667 <sup>T</sup> ←J. Plumb JP7
9191 <sup>T</sup> ←DSM 3772	<i>Acidilobus aceticus</i>
<i>Acidianus brierleyi</i>	11320 <sup>T</sup> ←DSM 11585
8954 <sup>T</sup> ←DSM 1651	<i>Acidiplasma aeolicum</i>
<i>Acidianus infernus</i>	14615 <sup>T</sup> ←O. Golyshina strain V
8955 <sup>T</sup> ←DSM 3191	<i>Acidiplasma cupricumulans</i>
<i>Acidianus sulfidivorans</i>	13668 <sup>T</sup> ←J. J. Plumb BH2

<i>Aeropyrum camini</i>	12091 <sup>T</sup> ←S. Nakagawa SY1
<i>Aeropyrum pernix</i>	9820 <sup>T</sup> ←N. Nomura K1
<i>Archaeoglobus fulgidus</i>	9628 <sup>T</sup> ←DSM 4304
<i>Archaeoglobus profundus</i>	

9629 <sup>T</sup>	←DSM 5631	
<i>Archaeoglobus sulfaticallidus</i>		
14716 <sup>T</sup>	←B. O. Steinsbu PM70-1	
<i>Caldisphaera lagunensis</i>		
11604 <sup>T</sup>	←T. Itoh and P. C. Sanchez	
IC-154		
11605	←T. Itoh and P. C. Sanchez	
IC-163		
<i>Caldivirga maquilingensis</i>		
10306	←T. Itoh and P. C. Sanchez	
IC-166		
10307 <sup>T</sup>	←T. Itoh and P. C. Sanchez	
IC-167		
" <i>Caldococcus noboribetus</i> "		
13516 <sup>T</sup>	←T. Itoh	
<i>Desulfurococcus amylolyticus</i>		
9188 <sup>T</sup>	←DSM 3822	
<i>Desulfurococcus fermentans</i>		
13383 <sup>T</sup>	←DSM 16532	
<i>Desulfurococcus kamchatkensis</i>		
16383 <sup>T</sup>	←DSM 18924	
<i>Desulfurococcus mobilis</i>		
9186 <sup>T</sup>	←DSM 2161	
<i>Desulfurococcus mucosus</i>		
9187 <sup>T</sup>	←DSM 2162	
<i>Ferroplasma acidiphilum</i>		
10970 <sup>T</sup>	←DSM 12658	
<i>Haladaptatus cibarius</i>		
15962 <sup>T</sup>	←J.-W. Bae D43	
<i>Haladaptatus litoreus</i>		
15771 <sup>T</sup>	←H.-L. Cui RO1-28	
<i>Haladaptatus paucihalophilus</i>		
13897 <sup>T</sup>	←K. N. Savage DX253	
<i>Halalkalicoccus jeotgali</i>		
14584 <sup>T</sup>	←S. W. Roh B3	
<i>Halalkalicoccus tibetensis</i>		
11890 <sup>T</sup>	←H. Fan DS12	
<i>Halarchaeum acidiphilum</i>		
16109 <sup>T</sup>	←H. Minegishi MH1-52-1	
" <i>Haloarcula aidinensis</i> "		
10024	←P. Zhou A <sub>5</sub>	
10025	←P. Zhou B <sub>2</sub>	
<i>Haloarcula amylolytica</i>		
13557 <sup>T</sup>	←S. Liu BD-3	
<i>Haloarcula argentinensis</i>		
9737 <sup>T</sup>	←K. Ihara arg-1	
" <i>Haloarcula californiae</i> "		
8912	←IAM 13181	
<i>Haloarcula hispanica</i>		
8911 <sup>T</sup>	←IAM 13179	
<i>Haloarcula japonica</i>		
7785 <sup>T</sup>	←T. Takashina TR-1	
<i>Haloarcula marismortui</i>		
8966 <sup>T</sup>	←ATCC 43049	
<i>Haloarcula quadrata</i>		
11048 <sup>T</sup>	←DSM 11927	
<i>Haloarcula salaria</i>		
15759 <sup>T</sup>	←S. Namwong HST01-2R	
" <i>Haloarcula sinaiensis</i> "		
8862	←M. Kamekura	
<i>Haloarcula</i> sp.		
20857	←IAM 13171	
<i>Haloarcula tradensis</i>		
15760 <sup>T</sup>	←S. Namwong HST03	
<i>Haloarcula vallismortis</i>		
8877 <sup>T</sup>	←ATCC 29715	
<i>Halobacterium jilantaiense</i>		
13558 <sup>T</sup>	←S. Liu NG4	
<i>Halobacterium noricense</i>		
15102 <sup>T</sup>	←NCIMB 13967	
<i>Halobacterium piscisalsi</i>		
14661 <sup>T</sup>	←W. Visessanguan HPC1-2	
<i>Halobacterium salinarum</i>		
8978 <sup>T</sup>	←NCIMB 764	
8981	←NCIMB 2259	
9118	←CCM 2148	
9119	←CCM 2088	
9120	←CCM 2090	
9121	←CCM 2084	
9409	←NCIMB 2080	
10927	←M. Kamekura and H. Seki	
Oyon Moussa-16		
20370	←IAM 12046	
20854	←IAM 13167	
<i>Halobacterium</i> sp.		
9447	←IAM 13175	
11081	←ATCC 700922	
20859	←IAM 13174	
<i>Halobaculum gomorrense</i>		
9908 <sup>T</sup>	←DSM 9297	
<i>Halobellus clavatus</i>		
16424 <sup>T</sup>	←H.-L. Cui TNN18	
<i>Halobiforma haloterrestris</i>		
11627 <sup>T</sup>	←DSM 13078	
<i>Halobiforma lacisalsi</i>		
12983 <sup>T</sup>	←CGMCC 1.3738	
<i>Halobiforma nitratireducens</i>		
10879 <sup>T</sup>	←P. Zhou C231	
10880	←P. Zhou C42	
<i>Halococcus dombrowskii</i>		
12289 <sup>T</sup>	←DSM 14522	
<i>Halococcus hamelinensis</i>		
12892 <sup>T</sup>	←F. Goh 100A6	
<i>Halococcus morrhuae</i>		
8876 <sup>T</sup>	←ATCC 17082	
20262	←IAM 1711	
20263	←IAM 1712	
<i>Halococcus qingdaonensis</i>		
13587 <sup>T</sup>	←G.-G. Guo and Q.-F. Wang	
CM5		
<i>Halococcus saccharolyticus</i>		
8878 <sup>T</sup>	←ATCC 49257	
<i>Halococcus salifodinae</i>		
9578 <sup>T</sup>	←H. Stan-Lotter BIp	
<i>Halococcus</i> sp.		
8979	←NCIMB 767	
9742	←ATCC 43102	
<i>Halococcus thailandensis</i>		
13552 <sup>T</sup>	←S. Tanasupawat HDB5-2	
13553	←S. Tanasupawat HIS10-2	
<i>Haloferax alexandrinus</i>		
10717 <sup>T</sup>	←D. Asker and Y. Ohta strain	
TM		
<i>Haloferax denitrificans</i>		
8864 <sup>T</sup>	←M. Kamekura	
<i>Haloferax elongans</i>		
14791 <sup>T</sup>	←M. Allen SA5	
<i>Haloferax gibbonsii</i>		
8863 <sup>T</sup>	←M. Kamekura	
<i>Haloferax larsenii</i>		
13917 <sup>T</sup>	←X.-W. Xu ZJ206	
<i>Haloferax lucentense</i>		
9276 <sup>T</sup>	←S. D. Nuttal	
<i>Haloferax mediterranei</i>		
8866 <sup>T</sup>	←IFO 14739	
<i>Haloferax mucosum</i>		
14792 <sup>T</sup>	←M. Allen PA12	
<i>Haloferax prahovense</i>		
13924 <sup>T</sup>	←M. I. Enache TL6	
<i>Haloferax</i> sp.		
13920	←M. I. Enache BB8	
13921	←M. I. Enache BR2	
13922	←M. I. Enache GR2	
13923	←M. I. Enache BV2	
<i>Haloferax sulfurifontis</i>		
12327 <sup>T</sup>	←M. S. Elshahed M6	
<i>Haloferax volcanii</i>		
8879 <sup>T</sup>	←NCIMB 2012	
<i>Halogeometricum borinquense</i>		
10706 <sup>T</sup>	←ATCC 700274	
<i>Halogeometricum rufum</i>		
15770 <sup>T</sup>	←H.-L. Cui RO1-4	
<i>Halogramnum amylolyticum</i>		
16428 <sup>T</sup>	←H.-L. Cui TNN58	
<i>Halogramnum gelatinilyticum</i>		
16426 <sup>T</sup>	←H.-L. Cui TNN44	
<i>Halogramnum rubrum</i>		
15772 <sup>T</sup>	←H.-L. Cui RO2-11	
<i>Halolamina pelagica</i>		
16809 <sup>T</sup>	←H.-L. Cui TBN21	
<i>Halomarina oriensis</i>		
16495 <sup>T</sup>	←K. Inoue KeC-11	
<i>Halomicrombium mukohataei</i>		
9738 <sup>T</sup>	←K. Ihara arg-2	
" <i>Halomicrombium zhouii</i> "		
17095	←H.-L. Cui TBN51	
<i>Halonotius pteroides</i>		
14355 <sup>T</sup>	←D. Burns 1.15.5	
14356	←D. Burns 2.27.5	
14357	←D. Burns 5.24.4	
14358	←D. Burns 6.14.5	
<i>Halopelagius inordinatus</i>		
15773 <sup>T</sup>	←H.-L. Cui RO5-2	
<i>Halopiger aswanensis</i>		
11628 <sup>T</sup>	←DSM 13151	
<i>Halopiger xanaduensis</i>		
14033 <sup>T</sup>	←A. Ventosa SH-6	
<i>Haloplanus aerogenes</i>		
16430 <sup>T</sup>	←H.-L. Cui TBN37	
<i>Haloplanus natans</i>		
14081 <sup>T</sup>	←R. E. Bardavid RE-101	
<i>Haloplanus vescus</i>		
16055 <sup>T</sup>	←H.-L. Cui RO5-8	
<i>Haloquadratum walsbyi</i>		
12705 <sup>T</sup>	←M. Dyall-Smith C23	
12895	←H. Bolhuis HBSQ001	
<i>Halorhabdus tiamatea</i>		
14471 <sup>T</sup>	←A. Antunes SARL4B	
<i>Halorhabdus utahensis</i>		
11049 <sup>T</sup>	←DSM 12940	
<i>Halorientalis regularis</i>		
16425 <sup>T</sup>	←H.-L. Cui TNN28	
" <i>Halorubellus litoreus</i> "		
17117	←H.-L. Cui GX26	
<i>Halorubellus salinus</i> "		
17115	←H.-L. Cui GX3	
<i>Halorubrum aidingense</i>		
13560 <sup>T</sup>	←S. Liu 31-hong	

<i>Halorubrum alkaliphilum</i>	12358 <sup>T</sup> ← AS 1.3528	<i>Haloterrigena saccharevitans</i>	12889 <sup>T</sup> ← CGMCC 1.3730	13029 <sup>T</sup> ← DSM 1224
<i>Halorubrum aquaticum</i>	14031 <sup>T</sup> ← A. Ventosa EN-2	<i>Haloterrigena salina</i>	13891 <sup>T</sup> ← A. Ventosa XH-65	<i>Methanococcus voltae</i>
<i>Halorubrum arcis</i>	13916 <sup>T</sup> ← X.-W. Xu AJ201	<i>Haloterrigena thermotolerans</i>	11050 <sup>T</sup> ← DSM 11552	16865 ← W. B. Whitman A3
<i>Halorubrum californiense</i>	14715 <sup>T</sup> ← A. Ventosa SF3-213	<i>Haloterrigena turkmenica</i>	9101 <sup>T</sup> ← VKM B-1734	<i>Methanoculleus chikugoensis</i>
<i>Halorubrum chaoviator</i>	9573 ← K. Ihara aus-1		9743 ← M. Kamekura	10825 <sup>T</sup> ← S. Asakawa MG62
<i>Halorubrum cibi</i>	15757 <sup>T</sup> ← J.-W. Bae	<i>Halovivax asiaticus</i>	14624 <sup>T</sup> ← CGMCC 1.4248	<i>Methanoculleus hydrogenotrophicus</i>
<i>Halorubrum coriense</i>	9275 <sup>T</sup> ← S. D. Nuttall CH2	<i>Halovivax ruber</i>	13892 <sup>T</sup> ← A. Ventosa XH-70	16311 <sup>T</sup> ← X. Dong strain HC
<i>Halorubrum distributum</i>	9100 <sup>T</sup> ← VKM B-1733	<i>Hyperthermus butylicus</i>	9403 <sup>T</sup> ← DSM 5456	<i>Methanofollis ethanolicus</i>
	10118 <sup>T</sup> ← NCIMB 13203	<i>Ignicoccus hospitalis</i>	14125 <sup>T</sup> ← H. Huber KIN4/I	15103 <sup>T</sup> ← H. Imachi strain HASU
<i>Halorubrum ejinorense</i>	14265 <sup>T</sup> ← A. Ventosa EJ-32	<i>Ignisphaera aggregans</i>	13409 <sup>T</sup> ← T. Niederberger AQ1.S1	<i>Methanogenium cariaci</i>
<i>Halorubrum kocuri</i>	14978 <sup>T</sup> ← A. Ventosa BG-1	<i>Metallosphaera cuprina</i>	15769 <sup>T</sup> ← C.-Y. Jiang Ar-4	10550 <sup>T</sup> ← DSM 1497
<i>Halorubrum lacusprofundi</i>	8891 <sup>T</sup> ← ATCC 49239	<i>Metallosphaera hakonensis</i>	8857 <sup>T</sup> ← S. Takayanagi HO 1-1	<i>Methanolinea tarda</i>
<i>Halorubrum lipolyticum</i>	13559 <sup>T</sup> ← S. Liu 9-3	<i>Metallosphaera sedula</i>	9064 ← IFO 15160	12467 <sup>T</sup> ← H. Imachi NOBI-1
<i>Halorubrum litoreum</i>	13561 <sup>T</sup> ← S. Liu Fa-1		9185 <sup>T</sup> ← DSM 5348	" <i>Methanolobus chelungpuianus</i> "
<i>Halorubrum saccharovorum</i>	8865 <sup>T</sup> ← IFO 14717	<i>Methanobacterium flexile</i>	15416 <sup>T</sup> ← X. Dong and J. Zhu strain GH	15159 <sup>T</sup> ← M.-C. Lai St545Mb
<i>Halorubrum sodomense</i>	8880 <sup>T</sup> ← IFO 14740	<i>Methanobacterium formicum</i>	10132 <sup>T</sup> ← DSM 1535	<i>Methanomicrobium mobile</i>
<i>Halorubrum sp.</i>	9574 ← K. Ihara aus-2	<i>Methanobacterium kanagicense</i>	15797 <sup>T</sup> ← A. Tonouchi 169	10551 <sup>T</sup> ← DSM 1539
<i>Halorubrum tebenquichense</i>	12290 <sup>T</sup> ← DSM 14210	<i>Methanobacterium movens</i>	15415 <sup>T</sup> ← X. Dong and J. Zhu TS-2	<i>Methanopryrus kandleri</i>
<i>Halorubrum terrestre</i>	10247 <sup>T</sup> ← VKM B-1739	<i>Methanobacterium sp.</i>	10400 ← K. Adachi 3544-4	9639 <sup>T</sup> ← DSM 6324
<i>Halorubrum tibetense</i>	11888 ← H. Fan 8W7		10403 ← K. Adachi 5544-3	15049 ← K. Takai 116
	11889 <sup>T</sup> ← H. Fan 8W8	<i>Methanobrevibacter arboriphilus</i>	10405 ← K. Adachi 6544-9	<i>Methanoregula boonei</i>
<i>Halorubrum trapanicum</i>	10477 <sup>T</sup> ← NCIMB 13488		9315 ← S. Asakawa SA	14090 <sup>T</sup> ← S. L. Bräuer 6A8
<i>Halorubrum vacuolatum</i>	9060 <sup>T</sup> ← W. D. Grant M24	<i>Methanobrevibacter ruminantium</i>	9316 ← H. Morii and Y. Koga A2	<i>Methanosaeta concili</i>
<i>Halorubrum xinjiangense</i>	12388 <sup>T</sup> ← AS 1.3527		13429 <sup>T</sup> ← DSM 1125	10134 <sup>T</sup> ← DSM 3671
" <i>Halorussus rarus</i> "	16429 <sup>T</sup> ← H.-L. Cui TBN4	<i>Methanocalculus pumilus</i>	13430 <sup>T</sup> ← DSM 1093	<i>Methanosaeta thermophila</i>
<i>Halosarcina limi</i>	16054 <sup>T</sup> ← H.-L. Cui RO1-6		15782 <sup>T</sup> ← DSM 4213	14653 <sup>T</sup> ← NBRC 101360
<i>Halosarcina pallida</i>	14848 <sup>T</sup> ← K. N. Savage BZ256	<i>Methanocaldococcus fervens</i>	11831 <sup>T</sup> ← DSM 3091	<i>Methanosarcina acetivorans</i>
<i>Halosimplex carlsbadense</i>	11222 <sup>T</sup> ← M. Kamekura	<i>Methanocaldococcus indicus</i>	10133 <sup>T</sup> ← DSM 864	<i>Methanosarcina baltica</i>
<i>Halostagnicola alkaliphila</i>	16592 <sup>T</sup> ← S. Nagaoka 167-74		16384 <sup>T</sup> ← NBRC 104920	<i>Methanosarcina horonobensis</i>
<i>Halostagnicola kamekurae</i>	16110 <sup>T</sup> ← H. Minegishi 194-10	<i>Methanocaldococcus infernus</i>	17393 <sup>T</sup> ← Q. Li Tm2	" <i>Methanothermobacter crinale</i> "
<i>Halostagnicola larsenii</i>	13463 <sup>T</sup> ← A. Ventosa XH-48		14651 <sup>T</sup> ← NBRC 100331	<i>Methanothermobacter marburgensis</i>
<i>Haloterrigena jeotgali</i>	14585 <sup>T</sup> ← S. W. Roh A29	<i>Methanocaldococcus jannaschii</i>	10044 <sup>T</sup> ← DSM 1053	<i>Methanothermobacter sp.</i>
<i>Haloterrigena limicola</i>	13563 <sup>T</sup> ← S. Liu AX-7		14652 <sup>T</sup> ← NBRC 100332	10697 ← K. Mori KHT-2
<i>Haloterrigena longa</i>	13562 <sup>T</sup> ← S. Liu ABH32	<i>Methanocella paludicola</i>	11175 <sup>T</sup> ← K. Takai IH1	<i>Methanothermobacter</i>
			10549 <sup>T</sup> ← DSM 2095	<i>thermautrophicus</i>
		<i>Methanococcus maripaludis</i>	10011 ← W. B. Whitman C5	<i>Methanothermobacter wolfeii</i>
			10012 ← W. B. Whitman C6	10030 <sup>T</sup> ← DSM 2088
			10013 ← W. B. Whitman C7	<i>Methanothermobacter sociabilis</i>
			10722 <sup>T</sup> ← DSM 2067	10723 <sup>T</sup> ← DSM 3496
			13030 ← DSM 14266	<i>Methanotorris formicetus</i>
		<i>Methanococcus vannielii</i>	11930 <sup>T</sup> ← K. Takai Mc-S-70	<i>Methanotorris igneus</i>

Animal  
Plant  
Cell  
DNA  
JCM  
Info

11834 <sup>T</sup> ←DSM 5666	<i>Picrophilus oshimae</i>	14572 ←T. Itoh IC-038
<i>Natrialba aegyptia</i>	10054 <sup>T</sup> ←DSM 9789	<i>Thermocladium modestius</i>
11194 <sup>T</sup> ←DSM 13077	<i>Picrophilus torridus</i>	10088 <sup>T</sup> ←T. Itoh IC-125
<i>Natrialba asiatica</i>	10055 <sup>T</sup> ←DSM 9790	10089 ←T. Itoh IC-139
9576 <sup>T</sup> ←M. Kamekura 172P1	<i>Pyrobaculum aerophilum</i>	10090 ←T. Itoh IC-142
<i>Natrialba chahannaoensis</i>	9630 <sup>T</sup> ←DSM 7523	<i>Thermococcus acidaminovorans</i>
10990 <sup>T</sup> ←Y. Ma C112	<i>Pyrobaculum arsenaticum</i>	12186 <sup>T</sup> ←K. O. Stetter and H. Huber
<i>Natrialba hulunbeirensis</i>	11321 <sup>T</sup> ←DSM 13514	AEDII10
10989 <sup>T</sup> ←Y. Ma X21	<i>Pyrobaculum calidifontis</i>	<i>Thermococcus aegaeus</i>
<i>Natrialba magadii</i>	11548 <sup>T</sup> ←T. Imanaka VA1	10828 <sup>T</sup> ←M. Thomm P5
8861 <sup>T</sup> ←NCIMB 2190	<i>Pyrobaculum islandicum</i>	<i>Thermococcus aggregans</i>
<i>Natrialba</i> sp.	9189 <sup>T</sup> ←DSM 4184	10137 <sup>T</sup> ←F. Canganella TY
10935 ←M. Kamekura and H. Seki	<i>Pyrobaculum oguniense</i>	<i>Thermococcus atlanticus</i>
Aidin-3	10595 <sup>T</sup> ←Y. Sako TE7	16138 <sup>T</sup> ←M.-A. Cambon-Bonavita
<i>Natrialba taiwanensis</i>	<i>Pyrobaculum organotrophum</i>	MA898
9577 <sup>T</sup> ←M. Kamekura B1T	9190 <sup>T</sup> ←DSM 4185	<i>Thermococcus barossii</i>
<i>Natinema altunense</i>	<i>Pyrococcus furiosus</i>	12858 <sup>T</sup> ←E. V. Pikuta SHCK-94
12890 <sup>T</sup> ←CGMCC 1.3731	8422 <sup>T</sup> ←DSM 3638	<i>Thermococcus celer</i>
<i>Natinema ejinorense</i>	<i>Pyrococcus horikoshii</i>	8558 <sup>T</sup> ←DSM 2476
13890 <sup>T</sup> ←A. Ventosa EJ-57	9974 <sup>T</sup> ←C. Kato	<i>Thermococcus celericrescens</i>
<i>Natinema gari</i>	9975 ←C. Kato	13640 <sup>T</sup> ←T. Kuwabara TS2
14663 <sup>T</sup> ←W. Visessanguan HIS40-3	<i>Pyrococcus woesei</i>	<i>Thermococcus coalescens</i>
14665 ←W. Visessanguan HDS3-1	8421 <sup>T</sup> ←DSM 3773	12540 <sup>T</sup> ←T. Kuwabara TS1
<i>Natrinema pallidum</i>	<i>Pyrococcus yayanosii</i>	<i>Thermococcus fumicolans</i>
8980 <sup>T</sup> ←NCIMB 777	16557 <sup>T</sup> ←J.-L. Birrien CH1	10128 <sup>T</sup> ←CIP 104690
<i>Natrinema pellirubrum</i>	<i>Pyrodictium abyssi</i>	<i>Thermococcus gammatolerans</i>
10476 <sup>T</sup> ←NCIMB 786	9394 <sup>T</sup> ←DSM 6158	11827 <sup>T</sup> ←E. Jolivet EJ3
<i>Natrinema versiforme</i>	<i>Pyrodictium brockii</i>	<i>Thermococcus gorgonarius</i>
10478 <sup>T</sup> ←P. Zhou XF10	9392 <sup>T</sup> ←DSM 2708	10552 <sup>T</sup> ←DSM 10395
<i>Natronoarchaeum mannanilyticum</i>	<i>Pyrodictium occultum</i>	<i>Thermococcus guaymasensis</i>
16328 <sup>T</sup> ←Y. Shimane YSM-123	9393 <sup>T</sup> ←DSM 2709	10136 <sup>T</sup> ←F. Canganella TYS
<i>Natronococcus amylolyticus</i>	<i>Pyrollobus fumarii</i>	<i>Thermococcus kodakarensis</i>
9655 <sup>T</sup> ←T. Kudo Ah-36	17356 <sup>T</sup> ←DSM 11204	12380 <sup>T</sup> ←T. Imanaka KOD1
<i>Natronococcus jeotgali</i>	<i>Salarchaeum japonicum</i>	<i>Thermococcus litoralis</i>
14583 <sup>T</sup> ←S. W. Roh B1	16327 <sup>T</sup> ←Y. Shimane YSM-79	8560 <sup>T</sup> ←DSM 5473
<i>Natronococcus occultus</i>	" <i>Salinarchaeum laminariae</i> "	" <i>Thermococcus marinus</i> "
8859 <sup>T</sup> ←NCIMB 2192	17267 <sup>T</sup> ←H.-L. Cui R26	11825 <sup>T</sup> ←E. Jolivet EJ1
<i>Natronolimnobius baerhuensis</i>	<i>Staphylothermus hellenicus</i>	" <i>Thermococcus onnurineus</i> "
12253 <sup>T</sup> ←T. Itoh and P. Zhou IHC-005	10830 <sup>T</sup> ←M. Thomm P8	13517 <sup>T</sup> ←J.-H. Lee NA1
12254 ←T. Itoh and P. Zhou IHC-010	<i>Staphylothermus marinus</i>	<i>Thermococcus pacificus</i>
<i>Natronolimnobius innermongolicus</i>	9404 <sup>T</sup> ←DSM 3639	10553 <sup>T</sup> ←DSM 10394
12255 <sup>T</sup> ←T. Itoh	<i>Stetteria hydrogenophila</i>	<i>Thermococcus peptonophilus</i>
<i>Natronomonas moolapensis</i>	10135 <sup>T</sup> ←DSM 11227	9653 <sup>T</sup> ←C. Kato OG1
14360 ←D. Burns 4.03.5	<i>Stygiolobus azoricus</i>	9654 ←C. Kato SM2
14361 <sup>T</sup> ←D. Burns 8.8.11	9021 <sup>T</sup> ←DSM 6296	<i>Thermococcus profundus</i>
<i>Natronomonas pharaonis</i>	<i>Sulfolobus acidocaldarius</i>	9378 <sup>T</sup> ←T. Kobayashi DT5432
8858 <sup>T</sup> ←IFO 14720	8929 <sup>T</sup> ←DSM 639	" <i>Thermococcus radiotolerans</i> "
<i>Natronorubrum aibiense</i>	9063 ←IFO 15159	11826 <sup>T</sup> ←E. Jolivet EJ2
13488 <sup>T</sup> ←S. Liu 7-3	<i>Sulfolobus metallicus</i>	<i>Thermococcus sp.</i>
<i>Natronorubrum bangense</i>	9184 <sup>T</sup> ←DSM 6482	11816 ←T. Maruyama KS-1
10635 <sup>T</sup> ←Y. Xu A33	<i>Sulfolobus shibatae</i>	<i>Thermococcus stetteri</i>
<i>Natronorubrum sediminis</i>	8931 <sup>T</sup> ←DSM 5389	8559 <sup>T</sup> ←DSM 5262
15982 <sup>T</sup> ←A. Ventosa CG-6	<i>Sulfolobus solfataricus</i>	<i>Thermococcus thioreducens</i>
<i>Natronorubrum</i> sp.	8930 <sup>T</sup> ←DSM 1616	12859 <sup>T</sup> ←E. V. Pikuta OGL-20P
10938 ←M. Kamekura and H. Seki	11322 ←DSM 1617	<i>Thermococcus waiotapuensis</i>
Tenzan-10	<i>Sulfolobus tokodaii</i>	10985 <sup>T</sup> ←J. M. González WT1
10944 ←M. Kamekura and H. Seki	10545 <sup>T</sup> ←T. Oshima 7	<i>Thermococcus zilligii</i>
Wadi Natrun-19	<i>Sulphophobococcus zilligii</i>	10554 <sup>T</sup> ←DSM 2770
<i>Natronorubrum sulfidificiens</i>	10309 <sup>T</sup> ←DSM 11193	<i>Thermodiscus maritimus</i>
14089 <sup>T</sup> ←P.-J. Zhou AD2	<i>Sulfurisphaera ohwakuensis</i>	11597 <sup>T</sup> ←K. O. Stetter S2
<i>Natronorubrum tibetense</i>	9065 <sup>T</sup> ←IFO 15161	" <i>Thermogladus shockii</i> "
10636 <sup>T</sup> ←Y. Xu GA33	<i>Sulfurisphaera</i> sp.	16579 <sup>T</sup> ←J. P. Amend and M. R. Osburn
<i>Palaeococcus ferrophilus</i>	14567 ←T. Itoh IC-034	WB1
10417 <sup>T</sup> ←K. Takai strain DMJ	14569 ←T. Itoh IC-035	<i>Thermogymnomonas acidicola</i>
<i>Palaeococcus helgesonii</i>	14570 ←T. Itoh IC-036	13583 <sup>T</sup> ←T. Itoh IC-189
13384 <sup>T</sup> ←DSM 15127	14571 ←T. Itoh IC-037	<i>Thermoplasma acidophilum</i>

9062 <sup>T</sup>	←IFO 15155	14457	←T. Itoh IC-091	14459	←T. Itoh IC-030
<i>Thermoplasma volcanium</i>		<i>Thermoproteus tenax</i>	9277 <sup>T</sup> ←DSM 2078	14460	←T. Itoh IC-032
9571 <sup>T</sup>	←IFO 15438			14461 <sup>T</sup>	←T. Itoh IC-051
9572	←IFO 15439	<i>Vulcanisaeta distributa</i>		14462	←T. Itoh IC-052
<i>Thermoproteus neutrophilus</i>		11212 <sup>T</sup>	←T. Itoh IC-017	14463	←T. Itoh IC-058
9278 <sup>T</sup>	←DSM 2338	11213	←T. Itoh IC-029	14464	←T. Itoh IC-136
<i>Thermoproteus</i> sp.		11214	←T. Itoh IC-064	14465	←T. Itoh IC-140
14452	←T. Itoh IC-031	11215	←T. Itoh IC-065	<i>Vulcanisaeta souniana</i>	
14453	←T. Itoh IC-033	11216	←T. Itoh IC-124	11219 <sup>T</sup>	←T. Itoh IC-059
14454	←T. Itoh IC-061	11217	←T. Itoh IC-135	14466	←T. Itoh IC-060
14455	←T. Itoh IC-062	11218	←T. Itoh IC-141		
14456	←T. Itoh IC-070	14458	←T. Itoh IC-019		

### (3) 酵母ならびに糸状菌 (YEASTS & FILAMENTOUS FUNGI)

<i>Absidia coerulea</i>	5545	←IAM 6163	23072	←IAM 14645	17180	←J. Sugiyama T6713-22-1b		
	5598	←IFO 4011	<i>Acremonium egyptiacum</i>	23073	←IAM 14646	17181	←J. Sugiyama K5225-12-5	
	5599	←IFO 4012	<i>Acremonium felinum</i>	17178	←J. Sugiyama K4615-9	23084	←IAM 14657	
	5600	←IFO 5301	<i>Acremonium furcatum</i>	9210	←K. Nagai FA114	<i>Acremonium potronii</i>		
	5601	←IFO 5302		9211	←K. Nagai FA123	23085	←IAM 14658	
<i>Absidia corymbifera</i>	5602	←IFO 4009		23074	←IAM 14647	<i>Acremonium restrictum</i>		
	5603	←IFO 4010	<i>Acremonium fusidiooides</i>	23075	←IAM 14648	23086	←IAM 14659	
	5615	←HUT 1027	<i>Acremonium glaucum</i>	23076	←IAM 14649	<i>Acremonium roseolum</i>		
	5616	←HUT 1028	<i>Acremonium hyalinulum</i>	23077	←IAM 14650	23087	←IAM 14660	
	5617	←HUT 1029	<i>Acremonium implicatum</i>	23078	←IAM 14651	<i>Acremonium rutilum</i>		
	5618	←HUT 1030	<i>Acremonium kiliense</i>	23079	←IAM 14652	23088	←IAM 14661	
	5619	←HUT 1031	<i>Acremonium longisporum</i>	23080	←IAM 14653	<i>Acremonium sclerotigenum</i>		
	5620	←HUT 1032	<i>Acremonium luzulae</i>	23081	←IAM 14654	23089	←IAM 14662	
	5621	←HUT 1033	<i>Acremonium masseei</i>	17164	←J. Sugiyama T4519-5-1	<i>Acremonium</i> sp.		
	5622	←HUT 1040		17165	←J. Sugiyama T6517-1-1	15326	←J. Sugiyama K5217-2-2	
	5623	←HUT 1041		17166	←J. Sugiyama T6517-7-1	15327	←J. Sugiyama K5217-2-3	
	5624	←HUT 1042		17167	←J. Sugiyama T6517-8-1	15328	←J. Sugiyama K5225-6-1	
<i>Absidia cylindrospora</i>	5604	←IFO 4000		17168	←J. Sugiyama T61213-1-6	15329	←J. Sugiyama K5225-13-3	
	5605	←IFO 4001		17169	←J. Sugiyama T61213-6-1	15330	←J. Sugiyama K5225-14-3	
<i>Absidia glauca</i>	5606	←HUT 1001		17170	←J. Sugiyama T61213-10-1	15331	←J. Sugiyama K5225-15-1	
	5609	←HUT 1013		17171	←J. Sugiyama K61027-2-1	15332	←J. Sugiyama K5225-19-1	
	5610	←HUT 1014	<i>Acremonium murorum</i>	9204	←K. Nagai FA131	15333	←J. Sugiyama K5225-19-2	
	5611	←HUT 1015		9205	←K. Nagai FA167	<i>Acremonium strictum</i>		
	5612	←HUT 1016		17172	←J. Sugiyama T6713-14-2	23090	←IAM 14663	
	5613	←HUT 1019		17173	←J. Sugiyama K6330-2	<i>Acremonium tubakii</i>		
<i>Absidia glauca</i> var. <i>paradoxa</i>	5614	←HUT 1022		17174	←J. Sugiyama K6630-3-1	23091	←IAM 14664	
<i>Absidia spinosa</i>	5625	←HUT 1045		17175	←J. Sugiyama K61027-1-1	<i>Acremonium tumulicola</i>		
	5626	←HUT 1046		17176	←J. Sugiyama K61027-3-1	17182	←J. Sugiyama K5916-10-3	
	5627	←HUT 1048		17177	←J. Sugiyama K7511-1	17183	←J. Sugiyama K6303-1-7	
<i>Aciculonconidium aculeatum</i>	13354 <sup>T</sup>	←CBS 5578	<i>Acremonium murorum</i> var. <i>murorum</i>	23082	←IAM 14655	17184	←J. Sugiyama K6613-2	
	13355	←CBS 5293		<i>Acremonium persicinum</i>	9212	←K. Nagai FA95	<i>Acremonium zonatum</i>	
<i>Acremonium alcalophilum</i>	7366	←Y. Niimura PA-2M		23083	←IAM 14656	23092	←IAM 14665	
<i>Acremonium atrogriseum</i>	23068	←IAM 14641	<i>Acremonium polychromum</i>	10153	←G. Okada OFC 4891	<i>Actinomucor elegans</i>		
<i>Acremonium bacillisporum</i>	23069	←IAM 14642		17179	←J. Sugiyama T6713-22-1a	22485	←IAM 6160	
<i>Acremonium berkeleyanum</i>	23070	←IAM 14643			<i>Aegerita candida</i>			
<i>Acremonium cereale</i>	23071	←IAM 14644			9227	←Y. Tsurumi rkt62		
<i>Acremonium chrysogenum</i>					9228	←Y. Tsurumi rkt171		
					<i>Albophoma yamanashiensis</i>			
					11844	←S. Ōmura FO-2546		
					<i>Albotricha acutipila</i>			
					12897	←T. Hosoya FC-1011		
					<i>Allomyces</i> sp.			
					11504	←Y. Tanabe YT-TT1		
					<i>Alternaria alternata</i>			
					5800	←IFO 31188		
					<i>Alysidium resinae</i> var. <i>microsporum</i>			
					11815	←H. Konno		
					<i>Amauroascus kuehnii</i>			
					23142	←IAM 14752		

Animal  
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Info

<i>Amauroascus verrucosus</i>	
23143 ←IAM 14753	
<i>Ambrosiozyma cicatricosa</i>	
7598 <sup>T</sup> ←S. Goto TH-1	
<i>Ambrosiozyma kamigamensis</i>	
14990 <sup>T</sup> ←K. Futai QmPIEG-2-13	
14991 ←K. Futai QmPIVG-3-9	
15451 ←K. Futai QmPIVG-2-55	
15452 ←K. Futai QmPIVG-3-30	
15453 ←K. Futai QmPILG-1-5	
15456 ←K. Futai CcPqEG-3-10	
<i>Ambrosiozyma neoplatypodis</i>	
14992 <sup>T</sup> ←K. Futai QmPIVG-2-21	
<i>Ambrosiozyma philentoma</i>	
7600 <sup>T</sup> ←S. Goto TH-3	
<i>Ambrosiozyma platypodis</i>	
1796 ←AJ 5045	
1797 ←AJ 5233	
1843 <sup>T</sup> ←AJ 5044	
<i>Amorphotheca resinae</i>	
11449 ←CBS 406.68	
11497 ←IFO 31856	
11498 ←IFO 31726	
<i>Amphiporthe aculeans</i>	
8373 ←G. Okada OFC 3894	
8374 ←G. Okada OFC 3895	
8375 ←G. Okada OFC 3896	
8376 ←G. Okada OFC 3897	
8377 ←G. Okada OFC 3898	
8378 ←G. Okada OFC 3899	
8379 ←G. Okada OFC 3900	
8380 ←G. Okada OFC 3901	
8381 ←G. Okada OFC 3902	
8382 ←G. Okada OFC 3903	
8383 ←G. Okada OFC 3904	
8384 ←G. Okada OFC 3905	
8385 ←G. Okada OFC 3906	
8386 ←G. Okada OFC 3907	
8387 ←G. Okada OFC 3908	
8388 ←G. Okada OFC 3909	
8389 ←G. Okada OFC 3910	
8402 ←G. Okada OFC 3918	
8403 ←G. Okada OFC 3919	
8404 ←G. Okada OFC 3920	
8405 ←G. Okada OFC 3921	
8406 ←G. Okada OFC 3922	
8407 ←G. Okada OFC 3923	
8408 ←G. Okada OFC 3924	
8409 ←G. Okada OFC 3925	
8410 ←G. Okada OFC 3926	
8411 ←G. Okada OFC 3927	
8412 ←G. Okada OFC 3928	
8413 ←G. Okada OFC 3929	
8414 ←G. Okada OFC 3930	
8415 ←G. Okada OFC 3931	
8416 ←G. Okada OFC 3932	
8417 ←G. Okada OFC 3933	
8418 ←G. Okada OFC 3934	
9544 ←K. A. Seifert	
9570 ←CBS 136.26	
<i>Aphanoascus durus</i>	
23144 ←IAM 14754	
<i>Aphanoascus hispanicus</i>	
23145 ←IAM 14755	
<i>Aphanoascus mephitalis</i>	
23146 ←IAM 14756	
<i>Aphanoascus multiporus</i>	
23147 ←IAM 14757	
<i>Aphanoascus saturnoideus</i>	
23148 ←IAM 14758	
<i>Arachnopeziza aurata</i>	
12898 ←T. Hosoya FC-1100	
<i>Arachnopeziza aurelia</i>	
12899 ←T. Hosoya FC-1099	
<i>Arthrinium phaeospermum</i>	
6018 ←G. Okada OFC 13	
<i>Arthrobotryum hyalospora</i>	
3809 ←G. Okada OFC 1211	
16505 ←K. Tanaka KTC 2581	
<i>Arthrobotryum stilboideum</i>	
13607 ←G. Okada OFC 1093	
13608 ←G. Okada OFC 1095	
13609 ←G. Okada OFC 1687	
13610 ←G. Okada OFC 2294	
13611 ←H.-S. Chang WLJ189	
<i>Arthroderma benhamiae</i>	
1885 ←J. Sugiyama #83-005	
1886 ←J. Sugiyama #83-006	
12202 ←M. Kawasaki KMU 4169	
12203 ←M. Kawasaki KMU 5-46	
<i>Arthroderma borellii</i>	
1895 ←J. Sugiyama #83-015	
1896 ←J. Sugiyama #83-016	
<i>Arthroderma cajetani</i>	
1897 ←J. Sugiyama #83-017	
1898 ←J. Sugiyama #83-018	
<i>Arthroderma fulvum</i>	
1899 ←J. Sugiyama #83-019	
1900 ←J. Sugiyama #83-020	
<i>Arthroderma grubyi</i>	
1901 ←J. Sugiyama #83-021	
1902 ←J. Sugiyama #83-022	
<i>Arthroderma gypseum</i>	
1903 ←J. Sugiyama #83-023	
1904 ←J. Sugiyama #83-024	
<i>Arthroderma incurvatum</i>	
1905 ←J. Sugiyama #83-025	
1906 ←J. Sugiyama #83-026	
11274 ←M. Sugiyama S1477	
<i>Arthroderma obtusum</i>	
1907 ←J. Sugiyama #83-078	
1908 ←J. Sugiyama #83-079	
<i>Arthroderma otiae</i>	
1909 ←J. Sugiyama #83-027	
1910 ←J. Sugiyama #83-028	
<i>Arthroderma persicolor</i>	
1911 ←J. Sugiyama #83-029	
1912 ←J. Sugiyama #83-030	
<i>Arthroderma quadrididum</i>	
1887 ←J. Sugiyama #83-007	
1888 ←J. Sugiyama #83-008	
<i>Arthroderma racemosum</i>	
1913 ←J. Sugiyama #83-031	
1914 ←J. Sugiyama #83-032	
<i>Arthroderma simii</i>	
1889 ←J. Sugiyama #83-009	
1890 ←J. Sugiyama #83-010	
15689 ←M. Kawasaki KMU4810	
<i>Arthroderma vanbreuseghemii</i>	
1891 ←J. Sugiyama #83-011	
1892 ←J. Sugiyama #83-012	
<i>Arxula adeninivorans</i>	
8914 <sup>T</sup> ←CBS 8244	
<i>Arxula terrestris</i>	
8913 <sup>T</sup> ←CBS 278.86	
<i>Ascocoryne sarcoides</i>	
12900 ←T. Hosoya FC-1054	
<i>Aspergillus aculeatus</i>	
22414 ←IAM 2907	
22898 ←IAM 13872	
<i>Aspergillus asperescens</i>	
2718 ←IFO 5996	
<i>Aspergillus aureus</i>	
22259 ←IAM 2085	
22307 ←IAM 2270	
22309 ←IAM 2275	
22409 ←IAM 2817	
<i>Aspergillus aureus</i> var. <i>acidus</i>	
22310 ←IAM 2279	
<i>Aspergillus aureus</i> var. <i>minor</i>	
22308 ←IAM 2273	
<i>Aspergillus auricomus</i>	
1949 ←CBS 467.75	
22339 ←IAM 2521	
22882 ←IAM 13852	
<i>Aspergillus avenaceus</i>	
2719 ←IFO 8129	
22680 ←IAM 13120	
<i>Aspergillus awamori</i>	
1925 ←J. Sugiyama #83-043	
1926 ←J. Sugiyama #83-044	
1927 ←J. Sugiyama #83-045	
2261 ←IAM 2112	
2262 ←IAM 2185	
22292 ←IAM 2186	
22293 ←IAM 2187	
22294 ←IAM 2188	
22311 ←IAM 2299	
22312 ←IAM 2300	
22313 ←IAM 2301	
22314 ←IAM 2304	
22315 ←IAM 2305	
22316 ←IAM 2312	
22317 ←IAM 2326	
22322 ←IAM 2370	
22323 ←IAM 2374	
<i>Aspergillus awamori</i> var. <i>fumeus</i>	
22318 ←IAM 2329	
<i>Aspergillus awamori</i> var. <i>fuscus</i>	
22321 ←IAM 2363	
<i>Aspergillus awamori</i> var. <i>minimus</i>	
22319 ←IAM 2342	
<i>Aspergillus awamori</i> var. <i>piceus</i>	
22320 ←IAM 2351	
22324 ←IAM 2389	
<i>Aspergillus batatas</i>	
22264 ←IAM 2098	
22356 ←IAM 2556	
<i>Aspergillus biplanus</i>	
2347 ←ATCC 16858	
<i>Aspergillus bisporus</i>	
1721 ←CBS 707.71	
<i>Aspergillus brevipes</i>	
1734 ←CBS 118.53	
<i>Aspergillus bridgeri</i>	
1950 ←CBS 350.81	
<i>Aspergillus brunneo-uniseriatus</i>	
2348 ←ATCC 16916	

<i>Aspergillus brunneo-uniseriatus</i>	var.	22277 ←IAM 2146	12725 ←IAM 13873
<i>nanus</i>		22290 ←IAM 2184	17146 ←H. Hayashi JV-23
2349 ←ATCC 42786		22402 ←IAM 2778	22224 ←IAM 2016
<i>Aspergillus caelatus</i>		22404 ←IAM 2780	22258 ←IAM 2083
10151 ←NRRL 25528		22412 ←IAM 2872	22272 ←IAM 2113
<i>Aspergillus caesiellus</i>		22634 ←IAM 12514	22331 ←IAM 2451
1852 ←CBS 116.55		<i>Aspergillus flavus</i> var. <i>columnaris</i>	<i>Aspergillus japonicus</i> var. <i>aculeatus</i>
<i>Aspergillus caespitosus</i>		2225 ←IFO 5324	22897 ←IAM 13871
12711 ←IAM 13853		<i>Aspergillus flavus</i> var. <i>flavus</i>	<i>Aspergillus japonicus</i> var. <i>atrofuscus</i>
12712 ←IAM 13854		10252 ←CBS 282.95	22332 ←IAM 2480
<i>Aspergillus campestris</i>		22990 ←IAM 14467	<i>Aspergillus japonicus</i> var. <i>viridiflavus</i>
1951 ←CBS 348.81		<i>Aspergillus flavus</i> var. <i>sojae</i>	22330 ←IAM 2447
<i>Aspergillus candidus</i>		22993 ←IAM 14470	<i>Aspergillus kambarensis</i>
1867 ←CBS 567.65		<i>Aspergillus foetidus</i>	1921 ←J. Sugiyama #83-039
1915 ←J. Sugiyama #83-033		12723 ←IAM 13868	<i>Aspergillus kanagawaensis</i>
10250 ←CBS 283.95		22336 ←IAM 2508	1723 ←CBS 538.65
22285 ←IAM 2174		<i>Aspergillus foetidus</i> var. <i>pallidus</i>	12726 ←IAM 13875
22997 ←IAM 14474		22326 ←IAM 2397	12727 ←IAM 13874
<i>Aspergillus carbonarius</i>		<i>Aspergillus fumigatus</i>	22364 ←IAM 2583
1859 ←CBS 111.26		1917 ←J. Sugiyama #83-035	<i>Aspergillus kawachii</i>
12713 ←IAM 13830		1918 ←J. Sugiyama #83-036	22250 ←IAM 2062
22225 ←IAM 2017		1919 ←J. Sugiyama #83-037	22251 ←IAM 2063
22242 ←IAM 2045		12724 ←IAM 13870	<i>Aspergillus lanosus</i>
<i>Aspergillus carneus</i>		22218 ←IAM 2004	1955 ←CBS 650.74
12714 ←IAM 13856		22236 ←IAM 2034	<i>Aspergillus longivesica</i>
<i>Aspergillus cellulosae</i>		22243 ←IAM 2046	1720 ←CBS 530.71
22355 ←IAM 2555		22286 ←IAM 2176	10186 ←NRRL 5215
<i>Aspergillus cervinus</i>		22342 ←IAM 2530	10187 ←CBS 187.77
1722 ←CBS 196.64		22436 ←IAM 3006	<i>Aspergillus luteo-niger</i>
12715 ←IAM 13858		<i>Aspergillus fumigatus</i> var. <i>ellipticus</i>	22422 ←IAM 2951
22396 ←IAM 2752		1739 ←CBS 487.65	<i>Aspergillus manginii</i>
23005 ←IAM 14545		<i>Aspergillus fumigatus</i> var. <i>fumigatus</i>	22235 ←IAM 2030
<i>Aspergillus clavatonanicus</i>		1738 ←CBS 133.61	22416 ←IAM 2917
1858 ←CBS 474.65		10253 ←CBS 286.95	22417 ←IAM 2922
10183 ←NRRL 4741		<i>Aspergillus funiculosus</i>	22431 ←IAM 2979
<i>Aspergillus clavatus</i>		2352 ←ATCC 16846	22954 ←IAM 14099
1718 ←CBS 513.65		<i>Aspergillus giganteus</i>	<i>Aspergillus melleus</i>
1916 ←J. Sugiyama #83-034		1719 ←CBS 515.65	1956 ←CBS 546.65
10079 ←IAM 13832		10091 ←SRRC 52	22252 ←IAM 2064
10080 ←IAM 13833		10184 ←NRRL 4560	22253 ←IAM 2066
10251 ←CBS 514.65		10185 ←NRRL 6136	<i>Aspergillus minimus</i>
22217 ←IAM 2002		<i>Aspergillus gorakhpurensis</i>	22346 ←IAM 2539
22240 ←IAM 2041		2267 ←CBS 648.74	<i>Aspergillus miyokoensis</i>
22345 ←IAM 2535		<i>Aspergillus gracilis</i>	22261 ←IAM 2092
<i>Aspergillus conicus</i>		1726 ←CBS 539.65	22358 ←IAM 2562
1725 ←CBS 475.65		<i>Aspergillus gymnosardae</i>	<i>Aspergillus niger</i>
22420 ←IAM 2945		2226 ←IFO 4294	1864 ←CBS 554.65
<i>Aspergillus dimorphicus</i>		<i>Aspergillus helicothrix</i>	5546 ←IAM 2020
1952 ←CBS 649.74		1861 ←CBS 677.79	5547 ←IAM 2086
<i>Aspergillus diversus</i>		<i>Aspergillus hennebergii</i>	5548 ←IAM 2093
2351 ←ATCC 16849		1865 ←CBS 118.35	5549 ←IAM 2094
<i>Aspergillus duricaulis</i>		<i>Aspergillus heteromorphus</i>	5550 ←IAM 2105
1735 ←CBS 481.65		1862 ←CBS 117.55	5551 ←IAM 2107
<i>Aspergillus elegans</i>		<i>Aspergillus iizukae</i>	5552 ←IAM 2108
1953 ←CBS 102.14		1920 ←J. Sugiyama #83-038	5553 ←IAM 2109
<i>Aspergillus ellipticus</i>		<i>Aspergillus insulicola</i>	5630 ←HUT 2083
1860 ←CBS 707.79		1954 ←CBS 382.75	5632 ←AHU 7105
<i>Aspergillus ficuum</i>		<i>Aspergillus inuui</i>	5633 ←AHU 7106
1866 ←CBS 555.65		22302 ←IAM 2255	5634 ←AHU 7120
<i>Aspergillus flavus</i>		22303 ←IAM 2256	5635 ←AHU 7217
2061 ←IAM 2670		22304 ←IAM 2257	5636 ←AHU 7296
12721 ←IAM 13835		22305 ←IAM 2263	5637 ←AHU 7364
12722 ←IAM 13836		22306 ←IAM 2269	5638 ←AHU 7409
22221 ←IAM 2007		<i>Aspergillus ivoriensis</i>	5697 ←NRIC 1221 (=TUA 105 M)
22275 ←IAM 2144		2353 ←ATCC 38577	5698 ←NRIC 1222 (=TUA 234 M)
22276 ←IAM 2145		<i>Aspergillus japonicus</i>	10254 ←CBS 554.65

Animal  
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12729 ←IAM 13840	2229 ←IAM 2649	1729 ←CBS 121.45
12730 ←IAM 13841	2231 ←IAM 2687	22950 ←IAM 14095
16264 ←NBRC 105649	2237 ←IFO 5786	<i>Aspergillus puniceus</i>
16265 ←NBRC 105650	2240 ←IFO 30102	12741 ←IAM 13892
17144 ←H. Hayashi JV-33	2241 ←IFO 30103	22916 ←IAM 13893
17145 ←H. Hayashi KF-267	2244 ←IAM 2651	<i>Aspergillus quercinus</i>
22266 ←IAM 2106	13832 ←RIB 40 (NRIB)	22227 ←IAM 2021
22270 ←IAM 2111	22279 ←IAM 2152	<i>Aspergillus raperi</i>
22282 ←IAM 2158	22384 ←IAM 2699	2265 ←CBS 125.65
22343 ←IAM 2533	22392 ←IAM 2727	2266 ←CBS 124.56
22344 ←IAM 2534	<i>Aspergillus oryzae</i> var. <i>effusus</i>	2356 ←ATCC 16917
22437 ←IAM 3008	2174 ←IAM 2822	<i>Aspergillus restrictus</i>
22438 ←IAM 3009	<i>Aspergillus oryzae</i> var. <i>magnasporus</i>	1727 ←CBS 541.65
22439 ←IAM 3010	2062 ←IAM 2719	12742 ←IAM 13844
<i>Aspergillus niger</i> mut. <i>cinnamomeus</i>	2176 ←IAM 2660	12743 ←IAM 13845
22239 ←IAM 2040	<i>Aspergillus oryzae</i> var. <i>microsporus</i>	22222 ←IAM 2008
<i>Aspergillus niger</i> mut. <i>schiemannii</i>	22386 ←IAM 2706	<i>Aspergillus robustus</i>
5639 ←AHU 7074	<i>Aspergillus oryzae</i> var. <i>oryzae</i>	1961 ←CBS 428.77
5640 ←AHU 7075	2239 ←IFO 30105	<i>Aspergillus saitoi</i>
22284 ←IAM 2167	2248 ←IFO 30113	22299 ←IAM 2210
<i>Aspergillus niger</i> var. <i>awamori</i>	22991 ←IAM 14468	22300 ←IAM 2215
22871 ←IAM 13839	<i>Aspergillus oryzae</i> var. <i>sporoflavus</i>	22301 ←IAM 2234
<i>Aspergillus niger</i> var. <i>intermedius</i>	2067 ←IAM 2957	<i>Aspergillus saitoi</i> var. <i>kagoshimaensis</i>
1863 ←CBS 117.52	<i>Aspergillus oryzae</i> var. <i>variabilis</i>	22295 ←IAM 2190
<i>Aspergillus nutans</i>	2247 ←IFO 5768	22296 ←IAM 2191
1730 ←CBS 121.56	<i>Aspergillus oryzae</i> var. <i>viridis</i>	22297 ←IAM 2192
<i>Aspergillus ochraceoroseus</i>	2065 ←IAM 2749	22298 ←IAM 2193
1957 ←CBS 550.77	2232 ←IAM 2603	<i>Aspergillus sclerotiorum</i>
<i>Aspergillus ochraceus</i>	2245 ←IAM 2750	1962 ←CBS 549.65
1958 ←CBS 108.08	22393 ←IAM 2735	12745 ←IAM 13847
10255 ←CBS 280.95	22403 ←IAM 2779	22246 ←IAM 2053
12732 ←IAM 13843	<i>Aspergillus oryzae</i> var. <i>wehmeri</i>	<i>Aspergillus silvaticus</i>
22228 ←IAM 2022	2178 ←IAM 2776	2721 ←IFO 8173
22408 ←IAM 2804	<i>Aspergillus ostianus</i>	<i>Aspergillus sojae</i>
<i>Aspergillus oryzae</i>	1959 ←CBS 103.07	2069 ←IAM 2723
2060 ←IAM 2636	12737 ←IAM 13884	2234 ←IAM 2686
2068 ←IAM 2958	12738 ←IAM 13885	2235 ←IAM 2696
2228 ←IAM 2630	<i>Aspergillus panamensis</i>	2250 ←IAM 2669
2230 ←IAM 2675	22429 ←IAM 2966	2251 ←IAM 2678
2233 ←IAM 2633	<i>Aspergillus parasiticus</i>	2260 ←IAM 2666
2236 ←IAM 2731	2249 ←IFO 4301	12746 ←IAM 13902
2238 ←IFO 30104	2720 ←IFO 4082	12747 ←IAM 13903
2242 ←IAM 2667	12739 ←IAM 13888	22369 ←IAM 2631
2243 ←IFO 4214	12740 ←IAM 13889	22373 ←IAM 2664
2246 ←IFO 4203 ( <i>Aspergillus oryzae</i> var. <i>microvesiculosus</i> )	22278 ←IAM 2150	22374 ←IAM 2665
2606 ←Y. Sugiyama 83-157	22354 ←IAM 2551	22376 ←IAM 2668
10114 ←IFO 4134	22992 ←IAM 14469	22379 ←IAM 2673
12734 ←IAM 13881	<i>Aspergillus parvulus</i>	22380 ←IAM 2674
12735 ←IAM 13882	1724 ←CBS 136.61	22381 ←IAM 2677
12736 ←IAM 13883	<i>Aspergillus penicilliodes</i>	22385 ←IAM 2703
16332 ←T. Kobayashi KBN616	10256 ←CBS 285.95	22387 ←IAM 2714
22230 ←IAM 2024	22670 ←IAM 12866	22388 ←IAM 2718
22426 ←IAM 2958	22961 ←IAM 14334	22626 ←IAM 12175
22428 ←IAM 2960	22962 ←IAM 14335	22627 ←IAM 12176
<i>Aspergillus oryzae</i> var. <i>brunneus</i>	22963 ←IAM 14336	<i>Aspergillus</i> sp.
2058 ←IAM 2609	22968 ←IAM 14341	17148 ←H. Hayashi JV-112
2059 ←IAM 2628	22971 ←IAM 14344	22419 ←IAM 2935
2063 ←IAM 2722	22972 ←IAM 14345	22998 ←IAM 14475
2064 ←IAM 2683	<i>Aspergillus petrakii</i>	<i>Aspergillus sparsus</i>
2066 ←IAM 2956	1960 ←CBS 105.57	2357 ←ATCC 16851
2173 ←IAM 2736	<i>Aspergillus phoenicis</i>	<i>Aspergillus sulphureus</i>
2175 ←IAM 2671	1922 ←J. Sugiyama #83-040	1963 ←CBS 550.65
2177 ←IAM 2955 ( <i>Aspergillus oryzae</i> var. <i>microvesiculosus</i> )	1923 ←J. Sugiyama #83-041	22349 ←IAM 2543
2227 ←IAM 2725	1924 ←J. Sugiyama #83-042	<i>Aspergillus sydowii</i>
	22360 ←IAM 2573	2722 ←IFO 4097
	<i>Aspergillus proliferans</i>	12748 ←IAM 13905

22223 ←IAM 2009	<i>Aspergillus viridinutans</i>	10653 ←T. Nakase TY-180
22256 ←IAM 2078	1736 ←CBS 127.56	10654 ←T. Nakase TY-181
22338 ←IAM 2514	<i>Aspergillus wentii</i>	10655 ←T. Nakase TY-188
22350 ←IAM 2544	1929 ←J. Sugiyama #83-047	10656 ←T. Nakase TY-190
22929 ←IAM 13906	2724 ←IFO 4107	10657 ←T. Nakase TY-191
<i>Aspergillus tamarii</i>	12758 ←IAM 13915	10658 ←T. Nakase TY-223
2259 ←IAM 2138	22288 ←IAM 2180	10659 ←T. Nakase TY-262
12749 ←IAM 13907	22334 ←IAM 2496	10660 ←T. Nakase TY-361
12750 ←IAM 13908	22939 ←IAM 13916	<i>Bensingtonia yamatoana</i>
22281 ←IAM 2156	<i>Aspergillus wentii</i> var. <i>minimus</i>	2896 <sup>T</sup> ←T. Nakase NB-26
22335 ←IAM 2502	22418 ←IAM 2933	6856 ←T. Nakase NB-212
22994 ←IAM 14471	<i>Aspergillus zonatus</i>	6857 ←T. Nakase NB-226
<i>Aspergillus terreus</i>	2254 ←IFO 8817	6858 ←T. Nakase NB-245
2598 ←I. Yamaguchi S-712	<i>Asteromassaria macroconidica</i>	6859 ←T. Nakase NB-252
12751 ←IAM 13910	12843 ←Y. Harada KTC 26741-13	<i>Bensingtonia yuccicola</i>
12752 ←IAM 13909	12844 ←Y. Harada KTC 1664-1	6251 <sup>T</sup> ←R. J. Bandoni B-74
22247 ←IAM 2054	<i>Asteromassaria pulchra</i>	<i>Berkleasmium micronesiacum</i>
22287 ←IAM 2179	12845 ←Y. Harada KTC 1472-1	14127 ←CBS 597.88
22435 ←IAM 3004	<i>Asterosporium asterospermum</i>	<i>Beverwykella pulmonaria</i>
<i>Aspergillus terreus</i> var. <i>baedijnii</i>	16962 ←K. Tanaka KTC 2095	9230 ←Y. Tsurumi rkt50
22232 ←IAM 2026	16963 ←K. Tanaka KTC 2101	9231 ←Y. Tsurumi rkt133
<i>Aspergillus terreus</i> var. <i>terreus</i>	<i>Asterotremella albida</i>	<i>Bionectria aureofulva</i>
10257 ←CBS 601.65	22213 ←IAM 14908	23025 ←IAM 14567
<i>Aspergillus terricola</i>	22214 ←IAM 14909	<i>Bionectria ochroleuca</i>
2723 ←IFO 5867	<i>Aureobasidium pullulans</i>	8906 ←G. Okada OFC 2929
<i>Aspergillus terricola</i> var. <i>americanus</i>	22445 ←IAM 5060	8907 ←G. Okada OFC 2930
22274 ←IAM 2140	<i>Babjeviella inositovora</i>	8908 ←G. Okada OFC 2931
<i>Aspergillus thomii</i>	10736 <sup>T</sup> ←IFO 10335	8909 ←G. Okada OFC 2932
22398 ←IAM 2759	<i>Bactrodesmium cubense</i>	8910 ←G. Okada OFC 2933
<i>Aspergillus toxicarius</i>	14126 ←CBS 680.96	23027 ←IAM 14569
2252 ←IFO 30108	<i>Bactrodesmium spilomeum</i>	23028 ←IAM 14570
2253 ←IFO 30109	14257 ←CBS 113958	<i>Bisporella citrina</i>
<i>Aspergillus umbrosus</i>	<i>Bahustrabeja dwaya</i>	12901 ←T. Hosoya FC-1055
22411 ←IAM 2828	6357 ←CBS 261.77	<i>Blastobotrys arbuscula</i>
<i>Aspergillus unguis</i>	<i>Bannoaa hahajimensis</i>	2926 <sup>T</sup> ←CBS 227.83
2256 ←S. Udagawa	10333 ←T. Nakase OK-52	<i>Blastobotrys aristata</i>
<i>Aspergillus unilateralis</i>	10334 ←T. Nakase OK-173	2929 <sup>T</sup> ←CBS 521.75
1737 ←CBS 126.56	10335 ←T. Nakase OK-219	<i>Blastobotrys capitulata</i>
<i>Aspergillus usamii</i>	10336 <sup>T</sup> ←T. Nakase OK-248	2934 <sup>T</sup> ←CBS 287.82
23176 ←IAM 14875	<i>Basipetospora chlamydosporis</i>	<i>Blastobotrys elegans</i>
<i>Aspergillus usamii</i> mut. <i>shirousamii</i>	23157 ←IAM 14769	2931 <sup>T</sup> ←CBS 530.83A
22328 ←IAM 2414	23158 ←IAM 14783	<i>Blastobotrys gigas</i>
22329 ←IAM 2415	<i>Bensingtonia ciliata</i>	2927 <sup>T</sup> ←CBS 421.78
22413 ←IAM 2876	6865 ←T. Boekhout (CBS)	<i>Blastobotrys nivea</i>
<i>Aspergillus ustus</i>	<i>Bensingtonia ingoldii</i>	2933 <sup>T</sup> ←CBS 163.67
1928 ←J. Sugiyama #83-046	7445 <sup>T</sup> ←T. Nakase NZ-3	<i>Blastobotrys proliferans</i>
12754 ←IAM 13913	<i>Bensingtonia miscanthi</i>	2928 <sup>T</sup> ←CBS 522.75
12755 ←IAM 13914	5733 <sup>T</sup> ←T. Nakase NB-146	<i>Blastobotrys</i> sp.
22229 ←IAM 2023	5734 ←T. Nakase NB-151	2930 ←CBS 151.83
22248 ←IAM 2056	<i>Bensingtonia musae</i>	2932 ←CBS 181.75
22249 ←IAM 2057	8801 <sup>T</sup> ←T. Nakase K-304	<i>Blastophorum truncatum</i>
22283 ←IAM 2161	<i>Bensingtonia naganoensis</i>	9819 ←Y. Takamura Y9
22351 ←IAM 2546	5978 <sup>T</sup> ←T. Nakase NB-186	10115 ←IFO 30014
22359 ←IAM 2571	8939 ←T. Nakase NZ-116	<i>Botryosphaeria dothidea</i>
23009 ←IAM 14549	<i>Bensingtonia phyllada</i>	2733 ←N. Amano #A-749
<i>Aspergillus varians</i>	7476 <sup>T</sup> ←Y. Yamada	2735 ←N. Amano #A-791
2760 ←IFO 4114	7477 ←Y. Yamada	2736 ←N. Amano #A-794
22352 ←IAM 2547	7478 ←Y. Yamada	2737 ←N. Amano #A-797
<i>Aspergillus versicolor</i>	<i>Bensingtonia sakaguchii</i>	2738 ←N. Amano #A-804
10258 ←CBS 583.65	10047 <sup>T</sup> ←T. Nakase OK-255	<i>Botryosporium diffusum</i>
12756 ←IAM 13848	10048 ←T. Nakase OK-259	11450 ←CBS 142.49
12757 ←IAM 13849	<i>Bensingtonia subrosea</i>	<i>Botryosporium longibrachiatum</i>
22233 ←IAM 2027	5735 <sup>T</sup> ←T. Nakase NB-150	11070 ←G. Okada OFC 5269
22257 ←IAM 2080	<i>Bensingtonia thailandica</i>	<i>Botryosporium pulchrum</i>
<i>Aspergillus violaceofuscus</i>	10651 <sup>T</sup> ←T. Nakase TY-138	11229 ←IFO 7769
22333 ←IAM 2481	10652 ←T. Nakase TY-173	11451 ←CBS 100.19

<i>Botryotinia fuckeliana</i>	7265 ←T. Nakase NB-154	13695 ←L. T. Dao VY-23
22449 ←IAM 5126	7266 ←T. Nakase NB-170	13696 ←L. T. Dao VY-24
22451 ←IAM 5128	7479 ←T. Nakase NB-198	13697 ←L. T. Dao VY-25
<i>Brettanomyces bruxellensis</i>	7491 ←T. Nakase NZ-19	13721 ←L. T. Dao VY-50
21896 ←IAM 04968	8934 <sup>T</sup> ←T. Nakase NZ-44	13729 ←L. T. Dao VY-58
<i>Bullera alba</i>	8935 ←T. Nakase NZ-64	13733 ←L. T. Dao VY-63
5285 ←T. Nakase NO-1	8938 ←T. Nakase NZ-87	13737 ←L. T. Dao VY-69
5286 ←T. Nakase NO-70	<i>Bullera nakasei</i>	13738 ←L. T. Dao VY-70
5287 ←T. Nakase NO-143	13329 <sup>T</sup> ←AS 2.2435	13739 ←L. T. Dao VY-71
5288 ←T. Nakase NO-170	<i>Bullera ninhbinhensis</i>	13743 ←L. T. Dao VY-75
5715 ←T. Nakase NB-99	10836 <sup>T</sup> ←T. Nakase and L. T. Dao	13744 ←L. T. Dao VY-76
5716 ←T. Nakase NB-162	VY-112	13745 ←L. T. Dao VY-77
5725 ←T. Nakase NB-180	<i>Bullera oryzae</i>	13753 ←L. T. Dao VY-85
5875 ←T. Nakase B-314	5281 <sup>T</sup> ←T. Nakase NO-65	13754 ←L. T. Dao VY-86
5879 ←T. Nakase B-434	5718 ←T. Nakase NB-11	13755 ←L. T. Dao VY-87
6139 ←M. Yoshizawa 104	5719 ←T. Nakase NB-139	13759 ←L. T. Dao VY-91
6141 ←M. Yoshizawa 111	5720 ←T. Nakase NB-160	13771 ←L. T. Dao VY-103
7480 ←T. Nakase NB-199	5871 ←T. Nakase B-33	13772 ←L. T. Dao VY-104
7490 ←T. Nakase NZ-11	6135 ←M. Yoshizawa 86	13773 ←L. T. Dao VY-105
7495 ←T. Nakase TA-56	6138 ←M. Yoshizawa 91	13783 ←L. T. Dao VY-117
<i>Bullera anomala</i>	<i>Bullera panici</i>	13790 ←L. T. Dao VY-128
11490 <sup>T</sup> ←F.-Y. Bai CH2.509	11819 <sup>T</sup> ←B. Fungsin TY-258	13794 ←L. T. Dao VY-132
<i>Bullera arundinariae</i>	<i>Bullera penniseticola</i>	13800 ←L. T. Dao VY-139
11818 <sup>T</sup> ←B. Fungsin TY-146	9857 <sup>T</sup> ←T. Nakase K-272	13802 ←L. T. Dao VY-142
<i>Bullera boninensis</i>	<i>Bullera pseudoalba</i>	13803 ←L. T. Dao VY-143
10570 <sup>T</sup> ←T. Nakase OK-3	5290 <sup>T</sup> ←T. Nakase NO-165	13804 ←L. T. Dao VY-144
10571 ←T. Nakase OK-11	5721 ←T. Nakase NB-29	13805 ←L. T. Dao VY-145
10572 ←T. Nakase OK-37	5722 ←T. Nakase NB-104	<i>Bullera taiwanensis</i>
10573 ←T. Nakase OK-40	5723 ←T. Nakase NB-109	11143 <sup>T</sup> ←T. Nakase FK-12
10574 ←T. Nakase OK-49	<i>Bullera pseudohuiensis</i>	<i>Bullera unica</i>
<i>Bullera coprosmaensis</i>	5984 <sup>T</sup> ←T. Nakase NB-192	8932 <sup>T</sup> ←T. Nakase NZ-7
8936 <sup>T</sup> ←T. Nakase NZ-51	<i>Bullera pseudoschimicola</i>	10557 ←W. I. Golubev PTZ23
<i>Bullera dendrophila</i>	3914 ←R. J. Bandoni 7497B SS5	10558 ←W. I. Golubev PTZ118
5357 <sup>T</sup> ←CBS 6074	3915 <sup>T</sup> ←R. J. Bandoni 7497B SS4	10559 ←W. I. Golubev PTZ136
<i>Bullera formosana</i>	5985 ←T. Nakase NB-193	<i>Bullera variabilis</i>
12154 <sup>T</sup> ←M. Takashima	7486 ←T. Nakase NB-257	5275 <sup>T</sup> ←T. Nakase NO-10
<i>Bullera formosensis</i>	<i>Bullera pseudovariabilis</i>	5276 ←T. Nakase NO-11
11142 <sup>T</sup> ←T. Nakase FK-116	11489 <sup>T</sup> ←F.-Y. Bai CH2.504	5277 ←T. Nakase NO-43
<i>Bullera globispora</i>	<i>Bullera schimicola</i>	6137 ←M. Yoshizawa 90
2957 <sup>T</sup> ←CBS 6981	10582 <sup>T</sup> ←T. Nakase OK-34	<i>Bullera waltii</i>
<i>Bullera hannaee</i>	<i>Bullera siamensis</i>	10575 <sup>T</sup> ←T. Nakase OK-9
8937 <sup>T</sup> ←T. Nakase NZ-69	11820 <sup>T</sup> ←B. Fungsin TY-227	10576 ←T. Nakase OK-79
<i>Bullera hoabinhensis</i>	11821 ←B. Fungsin TY-240	10577 ←T. Nakase OK-130
10835 <sup>T</sup> ←T. Nakase and L. T. Dao	11822 ←B. Fungsin TY-259	10578 ←T. Nakase OK-206
VY-68	<i>Bullera sinensis</i>	10579 ←T. Nakase OK-215
<i>Bullera huiaensis</i>	5279 ←T. Nakase NO-66	10580 ←T. Nakase OK-229
8933 <sup>T</sup> ←T. Nakase NZ-16	5280 ←T. Nakase NO-92	10581 ←T. Nakase OK-233
<i>Bullera komagatae</i>	5724 ←T. Nakase NB-126	<i>Bulleromyces albus</i>
5983 <sup>T</sup> ←T. Nakase NB-190	5874 ←T. Nakase B-264	2954 <sup>T</sup> ←CBS 501
<i>Bullera koratensis</i>	5878 ←T. Nakase B-432	9877 ←CBS 502
12878 <sup>T</sup> ←B. Fungsin TY-242	6253 <sup>T</sup> ←M. Li Bu5	9878 ←CBS 500
12879 ←B. Fungsin TY-244	<i>Bullera sinensis</i> var. <i>lactis</i>	9879 ←CBS 6302
12880 ←B. Fungsin TY-245	6254 <sup>T</sup> ←M. Li L-73	9880 ←CBS 7440
12881 ←B. Fungsin TY-255	<i>Bullera</i> sp.	9881 ←CBS 7441
12882 ←B. Fungsin TY-279	6140 ←M. Yoshizawa 109	9882 ←CBS 7503
12883 <sup>T</sup> ←B. Fungsin TY-287	10837 ←T. Nakase and L. T. Dao	9883 ←CBS 7856
<i>Bullera kunmingensis</i>	VY-120	<i>Byssochlamys fulva</i>
11006 <sup>T</sup> ←F.-Y. Bai CH 2.506	13674 ←L. T. Dao VY-2	12804 ←CBS 113225
<i>Bullera lagerstroemiae</i>	13675 ←L. T. Dao VY-3	12805 ←CBS 113245
12877 <sup>T</sup> ←B. Fungsin TY-254	13676 ←L. T. Dao VY-4	23041 ←IAM 14611
<i>Bullera melastomae</i>	13677 ←L. T. Dao VY-5	<i>Byssochlamys nivea</i>
12153 <sup>T</sup> ←M. Takashima	13682 ←L. T. Dao VY-10	12788 ←NBRC 30569
<i>Bullera miyagiana</i>	13683 ←L. T. Dao VY-11	12806 ←CBS 696.95
7536 <sup>T</sup> ←R. J. Bandoni 7586-SS-2	13692 ←L. T. Dao VY-20	<i>Byssochlamys verrucosa</i>
<i>Bullera mrakii</i>	13693 ←L. T. Dao VY-21	12807 ←CBS 604.74
5986 ←T. Nakase NB-194	13694 ←L. T. Dao VY-22	22713 ←IAM 13423

<i>Byssochlamys zollerniae</i>	2907 ←CBS 2710	8260 <sup>T</sup> ←IFO 10269
12808 ←CBS 374.70	2908 ←CBS 5144	<i>Candida cariosilignicola</i>
<i>Byssosphaeria schiedermayeriana</i>	2909 ←CBS 2312	9438 <sup>T</sup> ←IAM 12484
14417 ←K. Tanaka KTC 1947	9061 ←Y. Hagiwara 1002	<i>Candida carpophila</i>
<i>Cadophora luteo-olivacea</i>	<i>Candida allociferrii</i>	9396 <sup>T</sup> ←T. Nakase
23115 ←IAM 14691	2984 ←M. Suzuki T-5-1	9569 <sup>T</sup> ←IFO 10323
<i>Calocera cornea</i>	<i>Candida anatomiae</i>	<i>Candida castellii</i>
12916 ←T. Hosoya FC-1026	9547 <sup>T</sup> ←IFO 10259	9550 <sup>T</sup> ←IFO 10270
<i>Camarops petersii</i>	<i>Candida apicola</i>	<i>Candida castrensis</i>
1868 ←Y. Doi D.1974	5926 ←K. Tokuoka 22-40A	9585 <sup>T</sup> ←CBS 8172
<i>Cancellidium appланatum</i>	5927 ←K. Tokuoka 23-40A	1603 ←IAM 12181
9232 ←Y. Tsurumi rkt51	9592 <sup>T</sup> ←ATCC 24616	1604 <sup>T</sup> ←IAM 12182
9233 ←Y. Tsurumi rkt165	<i>Candida apis</i>	2277 ←AJ 4699
<i>Candelabrum brocchiatum</i>	8256 <sup>T</sup> ←IFO 10262	<i>Candida cellulolytica</i>
8984 ←G. Okada OFC 4265	<i>Candida arabinofementans</i>	9397 <sup>T</sup> ←T. Nakase
8985 ←G. Okada OFC 4267	10727 <sup>T</sup> ←NRRL YB-2248	<i>Candida chilensis</i>
9234 ←Y. Tsurumi rkt112	10728 ←NRRL YB-1299	1693 <sup>T</sup> ←CBS 5719
9235 ←Y. Tsurumi rkt123	<i>Candida asiatica</i>	<i>Candida chiropterorum</i>
9236 ←Y. Tsurumi rkt126	11058 ←M. Suzuki	9597 <sup>T</sup> ←ATCC 22291
9237 ←Y. Tsurumi rkt197	11059 ←M. Suzuki	<i>Candida coipomensis</i>
9238 ←Y. Tsurumi rkt207	<i>Candida atlantica</i>	8916 <sup>T</sup> ←CBS 8178
9239 ←Y. Tsurumi rkt284	9548 <sup>T</sup> ←IFO 10263	<i>Candida colliculosa</i>
<i>Candida aaseri</i>	<i>Candida atmosphaerica</i>	2199 ←IAM 12841
1689 <sup>T</sup> ←CBS 1913	9549 <sup>T</sup> ←IFO 1969	2206 ←IAM 04426
<i>Candida akabanensis</i>	<i>Candida auringiensis</i>	<i>Candida congregata</i>
9115 <sup>T</sup> ←T. Nakase NK-4	9593 <sup>T</sup> ←ATCC 58430	2373 <sup>T</sup> ←AJ 4701
9116 ←T. Nakase NK-6	<i>Candida auris</i>	<i>Candida cylindracea</i>
9117 ←T. Nakase NK-9	15448 <sup>T</sup> ←K. Makimura 143	9586 <sup>T</sup> ←CBS 6330
<i>Candida albicans</i>	<i>Candida austromarina</i>	<i>Candida danieliae</i>
1537 ←T. Shinoda	8894 <sup>T</sup> ←IFO 10265	17247 <sup>T</sup> ←M. Groenewald CBS 8533
1538 ←T. Shinoda M-1012	<i>Candida azyma</i>	<i>Candida dattila</i>
1542 <sup>T</sup> ←IFO 1385	1691 <sup>T</sup> ←CBS 6826	5930 ←K. Tokuoka 128-25A
1543 ←IFO 1397	<i>Candida beechii</i>	<i>Candida dendrica</i>
1621 ←IAM 12201	1802 <sup>T</sup> ←AJ 14312	9605 <sup>T</sup> ←NRRL Y-7775
2070 ←Meiji College of Pharmacy	<i>Candida bertae</i>	9825 <sup>T</sup> ←CBS 6151
M-1447	9582 <sup>T</sup> ←CBS 8169	<i>Candida dendronema</i>
2071 ←Meiji College of Pharmacy	9583 ←CBS 8168	1803 <sup>T</sup> ←AJ 14313
M-1445	<i>Candida berthetii</i>	<i>Candida diddensiae</i>
2072 ←Meiji College of Pharmacy	9594 <sup>T</sup> ←ATCC 18808	9598 <sup>T</sup> ←ATCC 15541
M-2086	<i>Candida blankii</i>	<i>Candida diversa</i>
2074 ←IFO 0197	8259 <sup>T</sup> ←IFO 10230	1848 <sup>T</sup> ←AJ 4648
2075 ←IFO 0579	9456 ←IFO 1973	3701 ←IFO 0861
2076 ←IFO 0583	<i>Candida boidinii</i>	3702 ←IFO 1085
2077 ←IFO 0588	9604 <sup>T</sup> ←NRRL Y-2332	<i>Candida easanensis</i>
2078 ←IFO 1060	9854 ←IFO 10329	12476 <sup>T</sup> ←S. Jindamorakot and T. Nakase
2079 ←IFO 1061	22053 ←IAM 12872	ST-225
2080 ←IFO 1269	22054 ←IAM 12873	<i>Candida edax</i>
2081 ←IFO 1270	22055 ←IAM 12874	9470 <sup>T</sup> ←IFO 10273
2082 ←IFO 1386	22056 ←IAM 12875	9616 <sup>T</sup> ←CBS 5657
2083 ←IFO 1388	22057 ←IAM 12876	<i>Candida entomophila</i>
2084 ←IFO 1389	<i>Candida boleticola</i>	9607 <sup>T</sup> ←NRRL Y-7783
2085 ←IFO 1594	1500 <sup>T</sup> ←AJ 4703	<i>Candida eppingiae</i>
2285 ←AJ 5722	1584 ←AJ 4706	17241 <sup>T</sup> ←M. Groenewald CBS 8586
2286 ←AJ 5725	1585 ←AJ 4920	<i>Candida ergatensis</i>
2288 ←AJ 5723	1586 ←AJ 4927	9599 <sup>T</sup> ←ATCC 22589
2343 ←AJ 5682	<i>Candida bombyi</i>	<i>Candida ernobii</i>
2369 ←AJ 4409	5928 ←K. Tokuoka 19-25A	9608 <sup>T</sup> ←NRRL Y-12940
2370 ←AJ 4410	9595 <sup>T</sup> ←ATCC 18811	9848 <sup>T</sup> ←IFO 0654
2374 ←AJ 4708	<i>Candida bombicola</i>	10287 <sup>T</sup> ←NRRL Y-17782
2900 ←CBS 2689	5929 ←K. Tokuoka 34-25A	10288 ←NRRL Y-17783
2901 ←CBS 2692	<i>Candida buinensis</i>	<i>Candida etchellsii</i>
2902 ←CBS 2696	9453 <sup>T</sup> ←IFO 1642	5938 ←K. Tokuoka 24-60A
2903 ←CBS 2697	<i>Candida butyri</i>	5955 ←H. Mori
2904 ←CBS 2700	1501 <sup>T</sup> ←AJ 4668	5956 ←H. Mori To-14
2905 ←CBS 2702	1588 ←AJ 4674	8066 <sup>T</sup> ←IFO 1592
2906 ←CBS 2706	<i>Candida cantarellii</i>	

Animal  
Plant  
Cell  
DNA  
JCM  
Info

8254 ←CBS 3094	17149 ←S. Umeda H-404	1608 ←IAM 04975
8265 <sup>T</sup> ←CBS 1750	<i>Candida haemulonii</i> 3762 <sup>T</sup> ←CBS 5149	1609 <sup>T</sup> ←IAM 12186
8267 ←CBS 2853	<i>Candida hasegawae</i> 12559 <sup>T</sup> ←BCC 11794	1712 ←NRRL Y-10940
8268 ←CBS 2987	<i>Candida homilentoma</i> 1507 <sup>T</sup> ←AJ 14322	2283 ←AJ 5694
8269 ←CBS 5008	1591 ←AJ 14318	2284 ←AJ 5693
<i>Candida ethanolica</i> 1776 ←CCY 26-58-1	<i>Candida humilis</i> 9852 <sup>T</sup> ←IFO 10280	2341 ←AJ 4773
1777 ←CCY 26-58-2	<i>Candida incommunis</i> 8258 <sup>T</sup> ←IFO 10228	2344 ←AJ 5683
1780 <sup>T</sup> ←CCY 29-83-1	<i>Candida inconspicua</i> 9555 <sup>T</sup> ←IFO 0621	2988 ←M. Suzuki T-9
9588 <sup>T</sup> ←CBS 8041	<i>Candida insectalens</i> 9610 <sup>T</sup> ←NRRL Y-7778	2990 ←M. Suzuki T-12
<i>Candida fennica</i> 9849 <sup>T</sup> ←IFO 10276	<i>Candida insectamans</i> 9611 <sup>T</sup> ←NRRL Y-7786	2991 ←M. Suzuki T-13
<i>Candida fermenticarens</i> 9589 ←CBS 7040	<i>Candida insectorum</i> 9457 <sup>T</sup> ←IFO 10283	2992 ←M. Suzuki T-14
<i>Candida floricola</i> 9439 <sup>T</sup> ←IAM 13115	<i>Candida insectosa</i> 9842 <sup>T</sup> ←CBS 4286	2993 ←M. Suzuki T-15
22137 ←IAM 13116	<i>Candida intermedia</i> 1607 <sup>T</sup> ←IAM 12185	2995 ←M. Suzuki T-17
<i>Candida fluviatilis</i> 9552 <sup>T</sup> ←IFO 10234	5933 ←K. Tokuoka 147-CA	2996 ←M. Suzuki T-20
<i>Candida fragi</i> 1791 <sup>T</sup> ←AJ 4616	9405 ←T. Nakase NK-49	2998 ←M. Suzuki T-23
<i>Candida fragicola</i> 1589 <sup>T</sup> ←AJ 4730	9406 ←T. Nakase NK-50	2999 ←M. Suzuki T-24
<i>Candida freyschussii</i> 9850 <sup>T</sup> ←IFO 10235	<i>Candida ishiwadai</i> 8067 <sup>T</sup> ←IFO 10286	3525 ←M. Suzuki T-29
<i>Candida friedrichii</i> 9553 <sup>T</sup> ←IFO 10277	10289 <sup>T</sup> ←NRRL Y-17655	3528 ←M. Suzuki T-33
<i>Candida fructus</i> 1513 <sup>T</sup> ←AJ 4401	<i>Candida kashinagacola</i> 15019 <sup>T</sup> ←K. Futai QmPIEG-2-14	3536 ←M. Suzuki T-41
<i>Candida fukazawaiae</i> 1641 ←AJ 4922	15020 ←K. Futai CcPqLG-1-1	3540 ←M. Suzuki T-47
<i>Candida fungicola</i> 10142 ←AJ 4917	15021 ←K. Futai QmPIEG-3-1	3541 ←M. Suzuki T-48
10143 ←AJ 4918	15022 ←K. Futai yr1	3542 ←M. Suzuki T-49
<i>Candida galacta</i> 8257 <sup>T</sup> ←IFO 10031	15023 ←K. Futai yr3-2	3544 ←M. Suzuki T-51
<i>Candida geocharies</i> 9851 <sup>T</sup> ←IFO 10278	<i>Candida kazuoii</i> 12558 <sup>T</sup> ←BCC 11780	3549 ←M. Suzuki T-56
<i>Candida glabrata</i> 3699 ←IFO 0005	<i>Candida kefyr</i> 1617 ←IAM 12195	3550 ←M. Suzuki T-57
3761 <sup>T</sup> ←CBS 138	2181 ←IAM 12823	3551 ←M. Suzuki T-58
<i>Candida glaeiosa</i> 1517 ←AJ 4385	2294 ←AJ 5768	3554 ←M. Suzuki T-62
1518 ←AJ 4387	2297 ←AJ 5782	3555 ←M. Suzuki T-63
1519 ←AJ 4388	2316 ←AJ 5784	3557 ←M. Suzuki T-65
1520 ←AJ 4392	2342 ←AJ 5680	3562 ←M. Suzuki T-70
1525 ←AJ 4383	3524 ←M. Suzuki T-28	3564 ←M. Suzuki T-73
1590 <sup>T</sup> ←AJ 4754	3760 ←CBS 607	3567 ←M. Suzuki T-76
1616 <sup>T</sup> ←IFO 1353	9556 <sup>T</sup> ←IFO 10287	3568 ←M. Suzuki T-77
<i>Candida glucosophila</i> 9440 <sup>T</sup> ←IAM 13112	21874 ←IAM 04857	3572 ←M. Suzuki T-81
<i>Candida gotoi</i> 10145 <sup>T</sup> ←T. Nakase NK-53	21878 ←IAM 04880	3574 ←M. Suzuki T-83
<i>Candida gropengiesseri</i> 8255 <sup>T</sup> ←IFO 0659	21882 ←IAM 04925	3576 ←M. Suzuki T-85
<i>Candida guilliermondii</i> 1539 <sup>T</sup> ←T. Shinoda	<i>Candida khmerensis</i> 13262 <sup>T</sup> ←T. Seki K28-3-2	3577 ←M. Suzuki T-86
1606 ←IAM 04974	13263 ←T. Seki K26-1-4	3579 ←M. Suzuki T-88
2295 ←AJ 5776	<i>Candida kofuensis</i> 2321 ←S. Goto	3580 ←M. Suzuki T-89
2298 ←AJ 5797	12563 <sup>T</sup> ←NCAIM Y.01708	5934 ←K. Tokuoka 156-25A
2324 ←S. Goto PJ 819	<i>Candida krabiensis</i> 12266 <sup>T</sup> ←S. Limtong N051	9399 ←T. Nakase
2987 ←M. Suzuki T-8	<i>Candida krissii</i> 9454 <sup>T</sup> ←IFO 1663	9401 ←T. Nakase
5932 ←K. Tokuoka 22-25A	<i>Candida kruisii</i> 1779 <sup>T</sup> ←CCY 26-19-7	9402 ←T. Nakase
8852 ←Y. Ohta	<i>Candida krusei</i>	11687 ←Y. Ohta WZ-001
8853 ←Y. Ohta		22166 ←IAM 13495
16743 ←K. Futai CcPqEG-2-1		22168 ←IAM 13497
		<i>Candida lactiscondensi</i> 5935 ←K. Tokuoka 91-40A
		9472 <sup>T</sup> ←IFO 1286
		9473 ←IFO 10288
		9618 <sup>T</sup> ←CBS 52
		9619 ←CBS 53
		<i>Candida lambica</i> 9557 <sup>T</sup> ←IFO 10289
		<i>Candida laureliae</i> 8917 <sup>T</sup> ←CBS 8180
		<i>Candida lignosa</i> 9837 <sup>T</sup> ←CBS 4705
		<i>Candida llanquihuensis</i> 8918 <sup>T</sup> ←CBS 8182
		<i>Candida lundiana</i> 16823 <sup>T</sup> ←S. Saksinchai SB 97
		<i>Candida lusitaniae</i> 5936 ←K. Tokuoka 91-CA
		<i>Candida lyxosophila</i> 7532 <sup>T</sup> ←CBS 8194

<i>Candida magnoliae</i>	<i>Candida multigemmis</i>	<i>Candida petrohuensis</i>
1446 <sup>T</sup> ←CBS 166	9559 <sup>T</sup> ←IFO 10247	8915 ←CBS 8184
1447 ←CBS 2250	<i>Candida musae</i>	8922 <sup>T</sup> ←CBS 8173
1448 ←CBS 2677	1598 <sup>T</sup> ←AJ 4408	9587 ←CBS 8185
1449 ←CBS 2800	<i>Candida naeodendra</i>	<i>Candida pignaliae</i>
1450 ←CBS 3086	1509 <sup>T</sup> ←AJ 14324	9836 <sup>T</sup> ←CBS 6071
1451 ←CBS 6201	<i>Candida nakhonratchasimensis</i>	<i>Candida pini</i>
1452 ←CBS 6396	12474 <sup>T</sup> ←S. Jindamorakot and T. Nakase	9826 <sup>T</sup> ←CBS 970
1453 ←CBS 6424	ST-37	<i>Candida populi</i>
1454 ←CBS 6425	<i>Candida nanaspora</i>	9833 <sup>T</sup> ←CBS 7351
1806 ←AJ 14296	9590 ←CBS 7200	<i>Candida pseudoflosculorum</i>
9436 ←CBS 5659	<i>Candida natalensis</i>	17242 <sup>T</sup> ←M. Groenewald CBS 8584
9448 ←IFO 0661	1445 <sup>T</sup> ←CBS 2935	<i>Candida pseudoglaebosa</i>
9600 ←ATCC 12573	<i>Candida nemodendra</i>	2168 <sup>T</sup> ←CBS 6715
9601 ←ATCC 13782	9855 <sup>T</sup> ←IFO 10299	<i>Candida pseudohaemulonii</i>
9602 ←ATCC 38619	<i>Candida nitrativorans</i>	12453 <sup>T</sup> ←T. Sugita M9987
9603 ←ATCC 42811	9591 <sup>T</sup> ←CBS 6152	<i>Candida pseudointermedia</i>
<i>Candida maltosa</i>	<i>Candida nitratophila</i>	1592 <sup>T</sup> ←AJ 4481
1504 <sup>T</sup> ←AJ 4718	9856 <sup>T</sup> ←IFO 10300	<i>Candida pseudolambica</i>
1505 ←AJ 4719	<i>Candida norvegensis</i>	9830 <sup>T</sup> ←CBS 2063
1511 ←AJ 4476	2278 ←AJ 5003	<i>Candida pseudovanderkliftii</i>
7630 ←CCY 29-88-3	2307 <sup>T</sup> ←AJ 5001	15024 ←K. Futai QmPILG-2-6
7631 ←CCY 29-88-4	<i>Candida norvegica</i>	15025 <sup>T</sup> ←K. Futai QmPILG-2-9
7632 ←CCY 29-88-5	8897 ←IFO 10301	15026 ←K. Futai QmPIVG-1-1
7633 ←CCY 29-88-6	8898 ←IFO 10302	15027 ←K. Futai QmPIVG-2-9
<i>Candida maris</i>	<i>Candida odintsovae</i>	15028 ←K. Futai QmPIVG-2-33
9853 <sup>T</sup> ←IFO 10003	9838 ←CBS 6026	<i>Candida psychrophila</i>
<i>Candida maritima</i>	<i>Candida oleophila</i>	2388 <sup>T</sup> ←CBS 5956
8919 ←CBS 8176	1620 <sup>T</sup> ←IAM 12200	<i>Candida quercitrusa</i>
9612 <sup>T</sup> ←NRRL Y-7899	1792 ←AJ 4601	9832 <sup>T</sup> ←CBS 4412
<i>Candida melibiosica</i>	2440 ←AJ 4612	<i>Candida quercuum</i>
1613 ←IAM 04488	2441 ←AJ 4615	1587 <sup>T</sup> ←AJ 4781
9558 <sup>T</sup> ←IFO 10238	2443 ←AJ 4783	<i>Candida ralunensis</i>
<i>Candida melinii</i>	2444 ←AJ 4786	8923 <sup>T</sup> ←CBS 8179
2276 <sup>T</sup> ←AJ 4696	8920 ←CBS 8177	<i>Candida rhagii</i>
2290 ←AJ 5748	<i>Candida ontarioensis</i>	9839 <sup>T</sup> ←CBS 4237
<i>Candida membranifaciens</i>	10729 <sup>T</sup> ←NRRL YB-1246	<i>Candida robnettiae</i>
3570 ←M. Suzuki T-79	<i>Candida ooitensis</i>	17243 <sup>T</sup> ←M. Groenewald CBS 8580
9450 <sup>T</sup> ←IFO 1246	9443 <sup>T</sup> ←IAM 13158	<i>Candida rugopelliculosa</i>
<i>Candida mesenterica</i>	<i>Candida oregonensis</i>	1593 <sup>T</sup> ←AJ 4656
2368 <sup>T</sup> ←AJ 4990	1811 <sup>T</sup> ←AJ 5111	<i>Candida rugosa</i>
7531 <sup>T</sup> ←CBS 602	5939 ←K. Tokuoka 107-40A	1619 <sup>T</sup> ←IAM 12198
8892 ←IFO 0969	<i>Candida ovalis</i>	1786 ←AJ 4646
8893 ←IFO 1210	9444 <sup>T</sup> ←IAM 13157	1787 ←AJ 4898
8899 ←CBS 2096	<i>Candida palmioleophila</i>	2291 ←AJ 5759
8900 ←CBS 2210	5218 <sup>T</sup> ←T. Kodama Y-128	<i>Candida sagamina</i>
8901 ←CBS 6299	<i>Candida paludigena</i>	10144 ←AJ 4919
10566 ←CBS 2095	9614 <sup>T</sup> ←NRRL Y-12697	<i>Candida saitoana</i>
10567 ←IFO 1299	<i>Candida parapsilosis</i>	1438 <sup>T</sup> ←CBS 940
10568 ←IFO 1302	1612 <sup>T</sup> ←IAM 12270	1522 ←AJ 4362
<i>Candida methanosorbosa</i>	1618 ←IAM 12192	1523 ←AJ 4733
9620 <sup>T</sup> ←CBS 7029	1784 ←AJ 4570	2118 ←AJ 4378
22058 ←IAM 12877	1785 <sup>T</sup> ←AJ 5970	2167 ←CBS 6729
<i>Candida milleri</i>	2981 ←S. Kawasaki Taya strain	2197 <sup>T</sup> ←IAM 12839
1788 ←AJ 4353	2982 ←S. Kawasaki Iida strain	2198 ←IAM 12840
1842 ←AJ 4358	3569 ←M. Suzuki T-78	6114 ←IBPhM Y-463
9613 <sup>T</sup> ←NRRL Y-7245	5941 ←K. Tokuoka 118-40A	6115 ←IBPhM Y-450
<i>Candida mogii</i>	8921 ←CBS 8181	6116 ←IBPhM Y-555
1611 <sup>T</sup> ←IAM 04979	<i>Candida pararugosa</i>	6117 ←IBPhM Y-554
<i>Candida molischiana</i>	1512 <sup>T</sup> ←AJ 4645	6118 ←IBPhM Y-452
1997 <sup>T</sup> ←IAM 12810	2289 <sup>T</sup> ←AJ 5747	<i>Candida sake</i>
1998 ←IAM 12811	<i>Candida pattaniensis</i>	1595 ←AJ 4755
1999 ←IAM 12812	12475 <sup>T</sup> ←S. Jindamorakot and T. Nakase	2951 <sup>T</sup> ←IFO 0435
2000 ←IAM 12813	ST-311	3754 ←AJ 14288
<i>Candida montana</i>	<i>Candida peltata</i>	3755 ←AJ 4797
2323 <sup>T</sup> ←S. Goto No. 865	9829 <sup>T</sup> ←CBS 5576	3756 ←AJ 14286

3757	←AJ 4948	3575	←M. Suzuki T-84	21862	←IAM 04225
<i>Candida salmanticensis</i>		3581	←M. Suzuki T-90	21997	←IAM 12265
8896 <sup>T</sup>	←IFO 10242	<i>Candida spandovenensis</i>		<i>Candida trypodendroni</i>	
<i>Candida santamariae</i>		9562 <sup>T</sup>	←IFO 10249	10731 <sup>T</sup>	←NRRL Y-6488
1816 <sup>T</sup>	←AJ 4466	<i>Candida stellata</i>		<i>Candida tsuchiyaе</i>	
<i>Candida santamariae</i>	var.	9475	←IFO 0701	1638 <sup>T</sup>	←AJ 4911
<i>membranifaciens</i>		9476 <sup>T</sup>	←IFO 0703	1639	←AJ 4915
9844 <sup>T</sup>	←CBS 5838	9477	←IFO 0857	<i>Candida tumulicola</i>	
<i>Candida santjacobensis</i>		9621 <sup>T</sup>	←CBS 157	15396	←J. Sugiyama T5916-5-3
8924 <sup>T</sup>	←CBS 8183	9622	←CBS 843	15397	←J. Sugiyama T5916-6-3
<i>Candida savonica</i>		<i>Candida stellimalicola</i>		15398	←J. Sugiyama T6220-1-4
9561 <sup>T</sup>	←IFO 10309	3546 <sup>T</sup>	←M. Suzuki T-53	15399	←J. Sugiyama T6220-6-3
<i>Candida schatavii</i>		<i>Candida succiphila</i>		15400	←J. Sugiyama T6517-3-6
1778 <sup>T</sup>	←CCY 26-26-5	9441	←IAM 13156	15401	←J. Sugiyama T6517-7-3
<i>Candida sequanensis</i>		9445 <sup>T</sup>	←IAM 12489	15402	←J. Sugiyama T6517-8-2
9841 <sup>T</sup>	←CBS 8118	22007	←IAM 12485	15403 <sup>T</sup>	←J. Sugiyama T6517-9-5
<i>Candida shehatae</i>		22008	←IAM 12486	15404	←J. Sugiyama T61213-1-5
9840 <sup>T</sup>	←CBS 5813	22009	←IAM 12487	15405	←J. Sugiyama T61213-3-5
<i>Candida silvae</i>		22010	←IAM 12488	15406	←J. Sugiyama T61213-7-9
6352 <sup>T</sup>	←IFO 10310	22012	←IAM 12490	15407	←J. Sugiyama T61213-7-10
<i>Candida silvanorum</i>		<i>Candida suecica</i>		15408	←J. Sugiyama T61213-12-11
1804 <sup>T</sup>	←AJ 14314	7530 <sup>T</sup>	←CBS 5724	15409	←J. Sugiyama T61213-14-8
<i>Candida silvatica</i>		<i>Candida suthepensis</i>		<i>Candida utilis</i>	
5940	←K. Tokuoka 68-CA	16822 <sup>T</sup>	←S. Saksinchai HB 86	1624	←IAM 04961
9828 <sup>T</sup>	←CBS 6277	<i>Candida takamatsuzukensis</i>		2287	←AJ 5734
<i>Candida silvicultrix</i>		15410 <sup>T</sup>	←J. Sugiyama T4922-1-1	2311	←AJ 5735
9831 <sup>T</sup>	←CBS 6269	15411	←J. Sugiyama T5916-2-4	2312	←AJ 5736
<i>Candida sithepensis</i>		15412	←J. Sugiyama T61213-3-6	2345	←AJ 5689
12265 <sup>T</sup>	←S. Limtong S023	15413	←J. Sugiyama T61213-12-12	9624 <sup>T</sup>	←CBS 621
<i>Candida sojae</i>		15414	←J. Sugiyama T61213-13-9	21861	←IAM 04220
1644 <sup>T</sup>	←AJ 4787	<i>Candida tammaniensis</i>		21938	←IAM 12203
1645	←AJ 4788	10730 <sup>T</sup>	←NRRL Y-8257	<i>Candida vaccinii</i>	
<i>Candida solani</i>		<i>Candida tanzawaensis</i>		9446 <sup>T</sup>	←IAM 13117
2314	←AJ 5751	1648 <sup>T</sup>	←AJ 4916	<i>Candida valdiviana</i>	
2339 <sup>T</sup>	←AJ 4664	<i>Candida tenuis</i>		9565 <sup>T</sup>	←IFO 10317
<i>Candida sonorensis</i>		1815	←AJ 4667	<i>Candida valida</i>	
1827 <sup>T</sup>	←UCD 71-148	2313	←AJ 5750	1625	←IAM 12190
22085	←IAM 12909	9827 <sup>T</sup>	←CBS 615	1626	←IAM 12191
22086	←IAM 12910	<i>Candida tepae</i>		3573	←M. Suzuki T-82
<i>Candida sophiaereginae</i>		9474 <sup>T</sup>	←IFO 10316	<i>Candida vanderkliftii</i>	
8925 <sup>T</sup>	←CBS 8175	9581	←CBS 8170	15029 <sup>T</sup>	←K. Futai QmPILG-1-42
<i>Candida sorbophila</i>		9584	←CBS 8171	15030	←K. Futai QmPIEG-1-15
1514 <sup>T</sup>	←AJ 4995	10265 <sup>T</sup>	←NRRL Y-17670	15031	←K. Futai QmPILPB-1-25
<i>Candida sorbosa</i>		<i>Candida terebra</i>		15032	←K. Futai QmPILPB-3-20
1849	←AJ 4463	9452 <sup>T</sup>	←IFO 1497	15033	←K. Futai QmPIVG-3-23
2983	←M. Suzuki T-3	9566	←IFO 10320	<i>Candida vanderwaltii</i>	
3537	←M. Suzuki T-42	9606	←NRRL Y-7785	9615 <sup>T</sup>	←CBS 5524
3545	←M. Suzuki T-52	<i>Candida thermophila</i>		<i>Candida vartiovaarae</i>	
3547	←M. Suzuki T-54	10994 <sup>T</sup>	←Y.-H. Park Y94	3759 <sup>T</sup>	←CBS 4289
3552	←M. Suzuki T-59	<i>Candida torresii</i>		5880	←T. Nakase NO-52
3561	←M. Suzuki T-69	1845 <sup>T</sup>	←AJ 4937	5881	←T. Nakase NO-175
3565	←M. Suzuki T-74	<i>Candida tropicalis</i>		<i>Candida versatilis</i>	
9843 <sup>T</sup>	←CBS 1910	1541 <sup>T</sup>	←IFO 1400	5937	←K. Tokuoka 152-40A
22167	←IAM 13496	1622	←IAM 04965	5942	←K. Tokuoka 24-60B
<i>Candida sorboxylosa</i>		1623	←IAM 12202	5954	←H. Mori
1510	←AJ 4897	2073	←T. Shinoda M-1017	5957	←H. Mori
1536 <sup>T</sup>	←AJ 4437	2319	←AJ 5962	5958	←H. Mori 998-A
1594	←AJ 4439	2948	←D. G. Ahearn 78-050	5972	←H. Mori
3523	←M. Suzuki T-27	2949	←D. G. Ahearn 80-005	5973	←H. Mori
3566	←M. Suzuki T-75	3000	←M. Suzuki T-25	5974	←H. Mori AD-2
<i>Candida</i> sp.		3526	←M. Suzuki T-30	6351	←IFO 0854
2299	←AJ 5800	3534	←M. Suzuki T-39	8065 <sup>T</sup>	←IFO 10056
2317	←AJ 5799	3553	←M. Suzuki T-60	8266	←CBS 1731
3527	←M. Suzuki T-32	3560	←M. Suzuki T-68	8270 <sup>T</sup>	←CBS 1752
3539	←M. Suzuki T-46	3758	←CBS 8072	8271	←CBS 1754
3543	←M. Suzuki T-50	21858	←IAM 04185	8272	←CBS 1760

8273 ←CBS 5007 <i>Candida vinaria</i> 1813 <sup>T</sup> ←AJ 4676 <i>Candida vini</i> 1456 <sup>T</sup> ←CBS 639 <i>Candida viswanathii</i> 1601 ←AJ 5122 9567 <sup>T</sup> ←IFO 10321 <i>Candida wickerhamii</i> 9568 <sup>T</sup> ←IFO 10322 <i>Candida zeylanoides</i> 1627 <sup>T</sup> ←IAM 12204 <i>Capnobotryella renispora</i> 6932 ←IAM 13014 6933 ←IAM 13015 <i>Caryospora langloisii</i> 13112 ←Y. Harada KTC 501 13115 ←Y. Harada KTC 989 <i>Cephaliophora irregularis</i> 23172 ←IAM 14809 <i>Cephaliophora muscicola</i> 23065 ←IAM 14638 <i>Cephaliophora tropica</i> 6019 ←G. Okada 23173 ←IAM 14810 <i>Ceratocystiopsis minuta</i> 9367 ←Y. Yamaoka YCC-139 9368 ←Y. Yamaoka YCC-251 9816 ←Y. Yamaoka YCC-294 <i>Ceratocystis fujiansis</i> 9810 ←Y. Yamaoka YCC-285 11974 ←Y. Yamaoka YCC-480 11975 ←Y. Yamaoka YCC-482 12828 ←S. de Beer 12829 ←S. de Beer <i>Ceratocystis paradoxa</i> 6961 ←G. Okada OFC 2699 <i>Cercophora samala</i> 23095 ←IAM 14668 <i>Cerinosterus cyanescens</i> 2914 ←CBS 357.73 <i>Cerinosterus luteoalbus</i> 2923 ←CBS 209.48 <i>Chaetomella raphigera</i> 9995 ←CBS 472.73 <i>Chaetomium funicola</i> 22733 ←IAM 13491 <i>Chaetomium globosum</i> 22615 ←IAM 8059 <i>Chaetopsina fulva</i> 9754 ←IFO 8919 9755 ←IFO 8843 <i>Chaetosartorya crenea</i> 12717 ←IAM 13861 12718 ←IAM 13862 <i>Chalara paradoxa</i> 6020 ←G. Okada OFC 1084 6957 ←G. Okada OFC 2695 <i>Chalara thielavioides</i> 1933 ←J. Sugiyama #83-052 1934 ←J. Sugiyama #83-053 1935 ←J. Sugiyama #83-054 1936 ←J. Sugiyama #83-080 <i>Chloridium virescens</i> <i>chlamydosporum</i> 8806 ←G. Okada OFC 3961	23131 ←IAM 14712 23132 ←IAM 14713 <i>Chromocleista malachitea</i> 23000 ←IAM 14523 <i>Ciborinia gentianae</i> 13253 ←I. Saito CG-10 <i>Cirrenalia japonica</i> 1753 ←J. Sugiyama #80-022 1754 ←J. Sugiyama #80-024 1755 ←J. Sugiyama #80-033 1756 ←J. Sugiyama #80-036 <i>Citeromyces matritensis</i> 2333 <sup>T</sup> ←AJ 4287 9609 ←NRRL Y-1506 <i>Citeromyces siamensis</i> 11522 <sup>T</sup> ←T. Seki H130 11523 ←T. Seki H149 <i>Cladobotryum longiramulosum</i> 10756 ←T. Tokiwa KS 99083 <i>Cladobotryum verticillatum</i> 10755 ←T. Tokiwa KS 99095 <i>Cladophialophora boppii</i> 15938 ←N. Hamada NH7009 <i>Cladosporium argillaceum</i> 10678 ←IFO 7055 <i>Cladosporium chlorocephalum</i> 8367 ←G. Okada OFC 3893 <i>Cladosporium cladosporioides</i> 3899 ←Y. Sugiyama 83-184 6021 ←G. Okada OFC 124 6022 ←G. Okada OFC 129 10679 ←IFO 6535 10680 ←IFO 6538 15937 ←N. Hamada NH1191 22444 ←IAM 5059 <i>Cladosporium colocasiae</i> 10681 ←IFO 9345 10823 ←T. Mitsui C9 11064 ←G. Okada OFC 5263 11065 ←G. Okada OFC 5264 11698 ←S. Tokumasu SFC 02101 13264 ←G. Okada OFC 5311 13642 ←G. Okada OFC 5332 14195 ←G. Okada OFC 5341 14196 ←G. Okada OFC 5342 <i>Cladosporium coralloides</i> 10682 ←IFO 6536 <i>Cladosporium echinulatum</i> 10824 ←G. Okada OFC 5244 <i>Cladosporium funiculosum</i> 10683 ←IFO 6537 <i>Cladosporium herbarum</i> 6023 ←G. Okada OFC 616 11500 ←CBS 177.71 11782 ←T. Aoki AR0001 11783 ←T. Aoki TNPS-1 <i>Cladosporium macrocarpum</i> 6024 ←G. Okada OFC 45 <i>Cladosporium multigeniculatum</i> 10684 ←IFO 6539 <i>Cladosporium sphaerospermum</i> 11787 ←T. Aoki AR0057 var. 11788 ←T. Aoki AR0016 22441 ←IAM 5007 <i>Clathrophaerina zalewskii</i>
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<i>Cryptococcus albidosimilis</i>	11740 ←PYCC 5264	<i>Cryptococcus marinus</i>
8843 <sup>T</sup> ←ATCC 76863		9885 <sup>T</sup> ←CBS 5235
<i>Cryptococcus albidus</i>	11166 <sup>T</sup> ←T. Sugita	<i>Cryptococcus musci</i>
2334 <sup>T</sup> ←AJ 4297		1531 <sup>T</sup> ←AJ 4756
8252 <sup>T</sup> ←Meiji College of Pharmacy M9001		<i>Cryptococcus nyarrowii</i>
14381 ←H. S. Vishniac RC93-2D Y5	3688 ←AJ 4330	11471 <sup>T</sup> ←CBS 8804
14382 ←H. S. Vishniac RC93-2D Y2	<i>Cryptococcus dimennae</i>	11472 ←CBS 8805
14383 ←H. S. Vishniac RC93-2B YN5	8974 <sup>T</sup> ←MUCL 30443	<i>Cryptococcus oeirensis</i>
14384 ←H. S. Vishniac RC93-2B Y21	<i>Cryptococcus flavus</i>	11741 <sup>T</sup> ←PYCC 5258
14385 ←H. S. Vishniac EB93-4B YN36	8044 ←S. Fukui MUT-6	11742 ←PYCC 5268
14386 ←H. S. Vishniac EB93-4B YN48	8332 <sup>T</sup> ←IFO 0407	<i>Cryptococcus phenolicus</i>
14387 ←H. S. Vishniac EB93-4B YN51	<i>Cryptococcus fragicola</i>	11743 <sup>T</sup> ←PYCC 4684
14388 ←H. S. Vishniac EB93-4B YN38	1530 <sup>T</sup> ←AJ 4683	<i>Cryptococcus podzolicus</i>
14389 ←H. S. Vishniac EB93-4B YN34	<i>Cryptococcus friedmannii</i>	10452 <sup>T</sup> ←IFO 10333
14427 ←H. S. Vishniac EB93-4B Y15	9426 <sup>T</sup> ←CBS 7160	14522 ←H. S. Vishniac LaSel95 Y15
14433 ←H. S. Vishniac EB-4B YN31	14092 ←H. S. Vishniac Ice99-5TxM Y21	<i>Cryptococcus pseudolongus</i>
14435 ←H. S. Vishniac EB-4D Y42	14093 ←H. S. Vishniac Ice99-3TxM Y30	9712 <sup>T</sup> ←T. Nakase
14502 ←H. S. Vishniac BSR92 Y91	14094 ←H. S. Vishniac Ice99-5TxG Y14	<i>Cryptococcus ramirezgomezianus</i>
<i>Cryptococcus amyloalentus</i>	14095 ←H. S. Vishniac Ice99-5TxG Y23	1460 <sup>T</sup> ←CBS 2839
1690 <sup>T</sup> ←CBS 6039	<i>Cryptococcus saitoi</i>	<i>Cryptococcus saitoi</i>
<i>Cryptococcus antarcticus</i>	14096 ←H. S. Vishniac Ice99-5ToM Y11	11693 <sup>T</sup> ←CBS 1975
8844 <sup>T</sup> ←ATCC 76663	14097 ←H. S. Vishniac Ice99-5TxM Y6	11694 ←CBS 5106
13621 ←H. S. Vishniac Pro94Y8	14098 ←H. S. Vishniac Ice99-5TxM Y8	11744 ←PYCC 5257
13623 ←H. S. Vishniac Pro94Y17	<i>Cryptococcus fuscescens</i>	<i>Cryptococcus skinneri</i>
14227 ←H. S. Vishniac Col812-LPN 198	9427 <sup>T</sup> ←CBS 7189	9039 <sup>T</sup> ←IFO 1872
<i>Cryptococcus antarcticus</i> var.	<i>Cryptococcus gastricus</i>	<i>Cryptococcus socialis</i>
<i>circumpolaris</i>	3691 ←AJ 14190	9430 <sup>T</sup> ←CBS 7158
14053 ←H. S. Vishniac Ice99-3TxM Y26	3692 <sup>T</sup> ←AJ 14191	<i>Cryptococcus</i> sp.
14054 ←H. S. Vishniac Ice99-5ToM Y1	14057 ←H. S. Vishniac Ice99-3TxM Y9	13626 ←H. S. Vishniac Pro94Y37
14055 ←H. S. Vishniac Ice99-3ToM Y1	14403 <sup>T</sup> ←H. S. Vishniac Ytty94 Y38	13629 ←H. S. Vishniac Pro94Y43
14229 ←H. S. Vishniac Col812-HSR 144	<i>Cryptococcus gilvescens</i>	13638 ←H. S. Vishniac Pro94Y67
14230 ←H. S. Vishniac Col812-K 133	9884 <sup>T</sup> ←CBS 7525	14061 ←H. S. Vishniac Ice99-5ToM Y10
14231 ←H. S. Vishniac Col812-HSR 185	<i>Cryptococcus hempfelingii</i>	14062 ←H. S. Vishniac Ice99-5ToG Y2
<i>Cryptococcus aquaticus</i>	9428 <sup>T</sup> ←CBS 8143	14269 ←H. S. Vishniac Col812-LPN181
1775 <sup>T</sup> ←CBS 5443	<i>Cryptococcus heveanensis</i>	14270 ←H. S. Vishniac Col812-K168
<i>Cryptococcus arboriformis</i>	3693 <sup>T</sup> ←AJ 14189	14271 ←H. S. Vishniac Col812-HSR 148
14201 <sup>T</sup> ←A. Sano IFM 54862	<i>Cryptococcus huempfii</i>	14272 ←H. S. Vishniac Col812-HSR 153
<i>Cryptococcus arrabidensis</i>	9429 <sup>T</sup> ←CBS 8186	14273 ←H. S. Vishniac Col812-K130
11737 <sup>T</sup> ←PYCC 5263	<i>Cryptococcus humicola</i>	14274 ←H. S. Vishniac Col812-K191
<i>Cryptococcus ater</i>	1457 <sup>T</sup> ←CBS 571	14432 ←H. S. Vishniac RC93-2B Y19
10451 <sup>T</sup> ←IFO 1862	1459 ←CBS 2041	14436 ←H. S. Vishniac EB93-4D Y19
<i>Cryptococcus baldrensis</i>	1461 ←CBS 4280	14437 ←H. S. Vishniac EB93-4D Y30
9423 <sup>T</sup> ←CBS 8142	9575 ←R. Yamada UJ1	14439 ←H. S. Vishniac EB93-4B YN35
<i>Cryptococcus bhutanensis</i>	<i>Cryptococcus kuetzingii</i>	14474 ←H. S. Vishniac Nom94 Y18
9424 <sup>T</sup> ←CBS 6294	9037 <sup>T</sup> ←IFO 1866	14487 ←H. S. Vishniac BSR92 Y78
<i>Cryptococcus cellulolyticus</i>	<i>Cryptococcus laurentii</i>	14492 ←H. S. Vishniac AT83-9 Y1
9707 <sup>T</sup> ←T. Nakase	5945 ←K. Tokuoka 10-25A	14498 ←H. S. Vishniac BSR92 Y29
9708 ←T. Nakase	9066 <sup>T</sup> ←IFO 0609	14501 ←H. S. Vishniac BSR92 Y71
9709 ←T. Nakase	9909 ←NRRL Y-7139	14503 ←H. S. Vishniac BSR92 Y102
9710 ←T. Nakase	9910 ←NRRL Y-7371	<i>Cryptococcus surugaensis</i>
9711 ←T. Nakase	9911 ←NRRL Y-7373	11903 <sup>T</sup> ←T. Nagahama SY-260
<i>Cryptococcus chernovii</i>	9912 ←NRRL Y-7376	<i>Cryptococcus taeanensis</i>
11738 <sup>T</sup> ←PYCC 4629	21996 ←IAM 12264	12312 <sup>T</sup> ←K.-S. Shin 3-12
<i>Cryptococcus consortium</i>	<i>Cryptococcus longus</i>	<i>Cryptococcus tepidarius</i>
9425 <sup>T</sup> ←CBS 7159	11167 <sup>T</sup> ←T. Sugita	11965 <sup>T</sup> ←T. Sugita M9962
<i>Cryptococcus curvatus</i>	<i>Cryptococcus luteolus</i>	11966 ←T. Sugita M9963
1532 <sup>T</sup> ←AJ 4763	3689 <sup>T</sup> ←AJ 4323	<i>Cryptococcus terreus</i>
1605 ←IAM 12183	3690 ←AJ 5224	8975 ←MUCL 30457
2310 ←AJ 5701	<i>Cryptococcus macerans</i>	9493 ←IAM 04963
<i>Cryptococcus cylindricus</i>	5883 ←T. Nakase NO-83	10453 <sup>T</sup> ←IFO 0727
11739 <sup>T</sup> ←PYCC 5265	9048 <sup>T</sup> ←IFO 1870	14099 ←H. S. Vishniac Ice99-5TxG Y19
	<i>Cryptococcus magnus</i>	
	9038 <sup>T</sup> ←IFO 0698	

14100	←H. S. Vishniac Ice99-5ToM Y6	22174	←IAM 13560
14101	←H. S. Vishniac Ice99-5TxM Y9	<i>Cystofilobasidium larimarini</i>	
14102	←H. S. Vishniac Ice99-5TxM Y13	9027 <sup>T</sup>	←CBS 7420
14103	←H. S. Vishniac Ice99-5TxM Y20	<i>Debaryomyces carsonii</i>	
		3642	←AJ 4266
		3643	←AJ 5077
		3663	←AJ 5494
	<i>Cryptococcus terricola</i>	<i>Debaryomyces couderpii</i>	
14029	←H. S. Vishniac Ice99-5TxM Y19	2387 <sup>T</sup>	←CBS 5167
		<i>Debaryomyces etchellsii</i>	
		8122 <sup>T</sup>	←CBS 2011
		<i>Debaryomyces hansenii</i>	
		1439	←CBS 811
		1440	←CBS 5704
		1521	←AJ 4342
		1526	←AJ 5449
		1990 <sup>T</sup>	←IFO 0083
		2086	←AJ 4180
		2091	←AJ 4246
		2094	←AJ 4393
	<i>Cryptococcus uzbekistanensis</i>	2098	←AJ 5459
11745 <sup>T</sup>	←PYCC 4630	2103	←AJ 5479
14294	←H. S. Vishniac EB-4D Y46	2105	←AJ 5481
14295	←H. S. Vishniac EB-4D Y32	2106	←AJ 5482
14296	←H. S. Vishniac EB-4D Y23	2107	←AJ 5485
14297	←H. S. Vishniac EB-4B Y16	2108	←AJ 5486
	<i>Cryptococcus victoriae</i>	2109	←AJ 5489
10589 <sup>T</sup>	←J. Guinea G5	2110	←AJ 5490
	<i>Cryptococcus vishniaci</i>	2111	←AJ 5491
9047	←IFO 10127	2112	←AJ 5454
9049	←IFO 10128	2113	←AJ 5450
10482 <sup>T</sup>	←ATCC 36649	2114	←AJ 5453
	<i>Cryptococcus watticus</i>	2115	←AJ 5455
13625	←H. S. Vishniac Pro94Y28	2160	←CBS 773
14056	←H. S. Vishniac Ice99-3TxM Y7	2161	←CBS 772
14391	←H. S. Vishniac Ytty94 Y1	2162	←CBS 2331
	<i>Cryptococcus wieringae</i>	2163	←CBS 812
11695 <sup>T</sup>	←CBS 1937	2165	←CBS 161
11696	←CBS 8353	2192	←IAM 12834
	<i>Curvibasidium cygneicollum</i>	2193	←IAM 12835
2332	←S. Goto No. 870	2194	←IAM 12836
9028	←CBS 6371	2195	←IAM 12837
10310 <sup>T</sup>	←CBS 4551	2196	←IAM 12838
	<i>Cylindrocarpon candidum</i>	2210	←IFO 0097
23098	←IAM 14671	2211	←IFO 1751
23137	←IAM 14727	2213	←IFO strain Shake
	<i>Cylindrocarpon cylindroides</i> var. <i>tenue</i>	2224	←NRRL Y-7393
23099	←IAM 14672	2461	←IFO 0058
	<i>Cylindrocarpon destructans</i> var. <i>destructans</i>	2462	←CBS 1326
23100	←IAM 14673	2463	←CBS 771
	<i>Cylindrocarpon</i> sp.	2464	←CBS 7061
15336	←J. Sugiyama TBK-22	2465	←CBS 8109
15337	←J. Sugiyama TBT-1	5203	←S. Kato No. 3
15338	←J. Sugiyama TBT-2	5205	←S. Kato No. 65
	<i>Cystofilobasidium bisporidii</i>	5214	←CBS 117
9040	←IFO 1928	5215	←CBS 5138
9050 <sup>T</sup>	←IFO 1927	5216	←CBS 5139
	<i>Cystofilobasidium capitatum</i>	5912	←K. Tokuoka 23-25A
3793 <sup>T</sup>	←S. Goto YK 229	21944	←IAM 12209
3794	←S. Goto YK 230		<i>Debaryomyces hansenii</i> var. <i>fabryi</i>
	<i>Cystofilobasidium ferigula</i>	1441	←CBS 6066
10475 <sup>T</sup>	←CBS 7202	1527	←AJ 5452
10650	←CBS 7201	1989	←IFO 0794
11171	←IGC 5540	2104 <sup>T</sup>	←AJ 5480
11172	←IGC 5628	2166	←CBS 1796
	<i>Cystofilobasidium infirmominiatum</i>	2207	←IFO 0037
3788 <sup>T</sup>	←S. Goto YK 240		<i>Debaryomyces hansenii</i> var. <i>hansenii</i>
3797	←S. Goto YK 241	2997	←M. Suzuki T-21-1
3798	←S. Goto YK 242	6815	←CBS 7254
5882	←T. Nakase NO-103	6816	←CBS 7255
8159	←IAM 13468		<i>Debaryomyces maramus</i>
		1528 <sup>T</sup>	←AJ 5054
		6178	←CBS 1794
		6179	←CBS 4264
		6277	←CBS 6905
			<i>Debaryomyces melissophilus</i>
		1708	←NRRL Y-7804
		6195	←CBS 6694
			<i>Debaryomyces nepalensis</i>
		2095 <sup>T</sup>	←AJ 4967
		2164	←CBS 1325
		2208	←IFO 0039
		2209	←IFO 0085
			<i>Debaryomyces occidentalis</i> var. <i>occidentalis</i>
		8124	←CBS 2863
		8125	←CBS 4516
			<i>Debaryomyces occidentalis</i> var. <i>persoonii</i>
		8126	←CBS 8022
		8128	←CBS 4869
			<i>Debaryomyces polymorphus</i>
		6180	←CBS 4350
		6181	←CBS 5067
		6182	←CBS 6456
		6183	←CBS 6457
		6194	←CBS 6453
			<i>Debaryomyces polymorphus</i> var. <i>africanus</i>
		7442	←J. P. van der Walt Y-587
			<i>Debaryomyces polymorphus</i> var. <i>polymorphus</i>
		1628	←IAM 12208
		3648	←AJ 5562
		3664	←AJ 5056
			<i>Debaryomyces prosopidis</i>
		9913 <sup>T</sup>	←DBVPG 7010
		9914	←DBVPG 7011
		9915	←DBVPG 7012
			<i>Debaryomyces pseudopolymorphus</i>
		6184	←CBS 2009
			<i>Debaryomyces singareniensis</i>
		14518 <sup>T</sup>	←MTCC 7061
			<i>Debaryomyces subglobosus</i>
		5212	←HUT 7240
			<i>Debaryomyces udenii</i>
		7855 <sup>T</sup>	←CBS 7056
		7856	←CBS 7057
			<i>Debaryomyces vanrijiae</i>
		6192	←CBS 6755
			<i>Debaryomyces vanrijiae</i> var. <i>vanrijiae</i>
		2169	←N. Kato FT-1
		2170	←N. Kato FT-2
		6185	←CBS 5458
		6186	←CBS 5709
		6187	←CBS 6454
		6188	←CBS 6455
		6189	←CBS 6756
			<i>Debaryomyces yamadae</i>
		5217	←CBS 7036
			<i>Dekkera bruxellensis</i>

Animal  
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Info

11407 <sup>T</sup> ←IFO 1590	5988 <sup>T</sup> ←Y. Yamada	<i>Emericellopsis mirabilis</i>
<i>Dendrostilbella prasinula</i>	<i>Dipodascus albidus</i>	10471 ←CBS 177.53
7927 ←G. Okada OFC 3480	5297 ←IFO 1984	<i>Emericellopsis pallida</i>
7928 ←G. Okada OFC 3481	<i>Dipodascus magnusii</i>	10462 ←IFO 9815
7929 ←G. Okada OFC 3482	6360 ←CBS 151.30	<i>Emericellopsis pusilla</i>
14513 ←G. Okada OFC 5346	6867 ←CBS 107.12	10463 ←IFO 9125
14514 ←G. Okada OFC 5347	6868 ←CBS 108.12	<i>Emericellopsis robusta</i>
<i>Diatrype stigma</i>	6869 ←CBS 234.85	10464 ←IFO 9509
22703 ←IAM 13149	<i>Dipodascus ovetensis</i>	<i>Emericellopsis salmosynnemata</i>
22704 ←IAM 13150	6358 <sup>T</sup> ←CBS 192.55	10465 ←IFO 9239
22705 ←IAM 13151	<i>Dipodascus tetrasperma</i>	<i>Emericellopsis sphaerospora</i>
22706 ←IAM 13152	6361 <sup>T</sup> ←CBS 765.70	10473 ←CBS 319.91
<i>Dictyocatenulata alba</i>	<i>Discostroma botan</i>	<i>Emericellopsis stolkiae</i>
5358 ←G. Okada OFC 1167	12836 ←Y. Harada SH 4642	10466 ←IFO 9604
5359 ←G. Okada OFC 1538	<i>Dumontinia tuberosa</i>	<i>Emericellopsis synnematicola</i>
5360 ←G. Okada OFC 1539	12903 ←T. Hosoya FC-1098	10467 ←IFO 9042
8401 ←G. Okada OFC 3917	<i>Edyuillia aethcia</i>	<i>Emericellopsis synnematicola</i> var. <i>magna</i>
12918 ←G. Okada OFC 5310	1850 ←CBS 464.65	10468 ←IFO 9160
<i>Didymobotryum rigidum</i>	<i>Eleutherascus lectardii</i>	<i>Emericellopsis terricola</i>
8179 ←G. Okada OFC 3713	22726 ←IAM 13455	10474 ←CBS 120.40
8837 ←G. Okada OFC 4053	<i>Eleutherascus tuberculatus</i>	<i>Endocalyx cinctus</i>
8838 ←G. Okada OFC 4055	22727 ←IAM 13457	7946 ←G. Okada OFC 3732
<i>Didymobotryum verrucosum</i>	<i>Emericella nidulans</i>	<i>Endocalyx indumentum</i>
6027 ←G. Okada OFC 1119	10259 ←CBS 288.95	5171 ←G. Okada OFC 1115
8839 ←G. Okada OFC 4078	22220 ←IAM 2006	8042 ←G. Okada OFC 3734
<i>Didymostilbe aurantiospora</i>	22348 ←IAM 2541	<i>Endocalyx melanoxanthus</i> var. <i>grossus</i>
5089 ←G. Okada OFC 1480	<i>Emericella nidulans</i> var. <i>lata</i>	5164 ←G. Okada OFC 1116
5090 ←G. Okada OFC 1481	22280 ←IAM 2155	5165 ←G. Okada OFC 1136
5094 ←G. Okada OFC 1545	<i>Emericella nidulans</i> var. <i>nidulans</i>	5166 ←G. Okada OFC 1164
6969 ←CBS 616.85	2728 ←CBS 120.56	5167 ←G. Okada OFC 1165
6976 ←CBS 617.85	12728 ←IAM 13876	5168 ←G. Okada OFC 1190
<i>Didymostilbe matsuoshimae</i>	22254 ←IAM 2067	5169 ←G. Okada OFC 1199
5953 ←G. Okada	23014 ←IAM 14556	5170 ←G. Okada OFC 1201
6970 ←CBS 549.84	<i>Emericella quadrilineata</i>	<i>Endocalyx melanoxanthus</i> var.
6971 ←CBS 828.85	2730 ←CBS 591.65	5156 ←G. Okada OFC 1063
7235 ←CBS 827.85	22244 ←IAM 2048	5158 ←G. Okada OFC 1109
<i>Dioszegia aurantiaca</i>	22918 ←IAM 13895	5159 ←G. Okada OFC 1111
2956 <sup>T</sup> ←CBS 6980	<i>Emericella rugulosa</i>	5160 ←G. Okada OFC 1139
<i>Dioszegia crocea</i>	2729 ←CBS 133.60	5161 ←G. Okada OFC 1142
2961 <sup>T</sup> ←CBS 6714	12744 ←IAM 13901	5162 ←G. Okada OFC 1162
5292 ←T. Nakase NO-7	22400 ←IAM 2763	5163 ←G. Okada OFC 1195
5293 ←T. Nakase NO-164	22923 ←IAM 13900	7948 ←G. Okada OFC 3729
5294 ←T. Nakase NO-172	<i>Emericella</i> sp.	13432 ←G. Okada OFC 5315
5295 ←T. Nakase NO-177	22341 ←IAM 2527	<i>Entelexis magnoliae</i>
5713 ←T. Nakase NB-6	<i>Emericella unguis</i>	9437 ←CBS 2798
5714 ←T. Nakase NB-87	2726 ←CBS 595.65	<i>Epichloe typhina</i>
5876 ←T. Nakase B-315	2727 ←CBS 132.55	23103 ←IAM 14676
7483 ←T. Nakase NB-221	12753 ←IAM 13912	<i>Epicoccum nigrum</i>
7485 ←T. Nakase NB-247	22362 ←IAM 2581	6029 ←G. Okada OFC 52
7493 ←T. Nakase NZ-48	<i>Emericella variecolor</i> var. <i>variecolor</i>	11380 ←J.-Y. Park TC-33
7496 ←T. Nakase TA-5	22363 ←IAM 2582	11533 ←G. Okada OFC 5278
<i>Dioszegia hungarica</i>	<i>Emericella violacea</i>	<i>Erythrobasidium hasegawianum</i>
2955 ←CBS 7091	2725 ←IFO 8106	1545 <sup>T</sup> ←IFO 1058
5872 ←T. Nakase B-104	22406 ←IAM 2790	<i>Eupenicillium cinnamopurpureum</i>
5873 ←T. Nakase B-107	<i>Emericellopsis donezkii</i>	22512 ←IAM 7025
9046 <sup>T</sup> ←IFO 1052	10460 ←IFO 9814	22782 ←IAM 13724
<i>Dioszegia rishiriensis</i>	<i>Emericellopsis glabra</i>	22783 ←IAM 13725
16282 <sup>T</sup> ←M. Takashima RS090	10470 ←CBS 119.40	22784 ←IAM 13726
16283 ←M. Takashima RS092	<i>Emericellopsis humicola</i>	<i>Eupenicillium crustaceum</i>
<i>Dioszegia zsoltii</i> var. <i>yunnanensis</i>	10469 ←CBS 180.56	22792 ←IAM 13738
11295 ←F.-Y. Bai CH 2.134	<i>Emericellopsis maritima</i>	22793 ←IAM 13739
11296 <sup>T</sup> ←F.-Y. Bai CH 2.497	10547 ←IFO 9603	22794 ←IAM 13740
<i>Dioszegia zsoltii</i> var. <i>zsoltii</i>	<i>Emericellopsis microspora</i>	<i>Eupenicillium hirayamae</i>
11291 <sup>T</sup> ←F.-Y. Bai CH 2.068	10461 ←IFO 9241	22785 ←IAM 13727
11294 ←F.-Y. Bai CH 2.309	<i>Emericellopsis minima</i>	22786 ←IAM 13729
<i>Dipodascopsis anomala</i>	10472 ←CBS 190.55	

<i>Eupenicillium javanicum</i>	<i>Eurotium montevidense</i>	<i>Exophiala calicoides</i>
22789 ←IAM 13733	1577 ←CBS 491.65	6030 ←G. Okada OFC 1076
22790 ←IAM 13735	22951 ←IAM 14096	6031 ←G. Okada OFC 1082
<i>Eupenicillium ludwigii</i>	<i>Eurotium niveoglaucum</i>	6032 ←G. Okada OFC 1099
22791 ←IAM 13736	1578 ←CBS 114.27	6033 ←G. Okada OFC 1317
<i>Eupenicillium pinetorum</i>	<i>Eurotium pseudoglaucum</i>	9764 ←G. Okada OFC 2610
22787 ←IAM 13730	1579 ←CBS 123.28	9765 ←G. Okada OFC 3242
22788 ←IAM 13731	22361 ←IAM 2578	13422 ←G. Okada OFC 5321
<i>Eurotium amstelodami</i>	<i>Eurotium repens</i>	14515 ←G. Okada OFC 5348
1565 ←CBS 518.65	1580 ←CBS 529.65	<i>Exophiala dermatitidis</i>
10260 ←CBS 518.65	2600 ←Y. Sugiyama 82-32	12395 ←A. Orikasa DA5501-2
12710 ←IAM 13826	3885 ←Y. Sugiyama 82-29	<i>Exophiala jeanselmei</i> var. <i>jeanselmei</i>
22231 ←IAM 2025	3886 ←Y. Sugiyama 82-30	23104 ←IAM 14677
22237 ←IAM 2035	3887 ←Y. Sugiyama 82-31	<i>Exophiala salmonis</i>
22430 ←IAM 2977	3888 ←Y. Sugiyama 82-40	15940 ←N. Hamada NH119
22975 ←IAM 14348	3889 ←Y. Sugiyama 83-152	<i>Exophiala spinifera</i>
<i>Eurotium appendiculatum</i>	3890 ←Y. Sugiyama 83-158	15939 ←N. Hamada NH917
1566 ←CBS 374.75	6936 ←Y. Sugiyama 83-02	<i>Fellomyces borneensis</i>
<i>Eurotium carnoyi</i>	22219 ←IAM 2005	10163 <sup>T</sup> ←VIAM HB23
1567 ←CBS 471.65	22255 ←IAM 2077	<i>Fellomyces chinensis</i>
<i>Eurotium chevalieri</i>	22347 ←IAM 2540	10164 <sup>T</sup> ←VIAM HB28
1568 ←CBS 522.65	22941 ←IAM 14084	<i>Fellomyces distylii</i>
12716 ←IAM 13859	23052 ←IAM 14622	9862 <sup>T</sup> ←T. Nakase OK-83
22216 ←IAM 2001	23053 ←IAM 14623	<i>Fellomyces fuzhouensis</i>
22238 ←IAM 2039	23060 ←IAM 14631	6909 ←IFO 10205
22945 ←IAM 14088	23061 ←IAM 14632	7367 <sup>T</sup> ←IFO 10374 (rough colony)
22946 ←IAM 14089	23062 ←IAM 14633	<i>Fellomyces horovitziae</i>
23047 ←IAM 14617	23063 ←IAM 14634	8358 <sup>T</sup> ←CBS 7515
23048 ←IAM 14618	<i>Eurotium rubrum</i>	<i>Fellomyces lichenicola</i>
23049 ←IAM 14619	10454 ←IAM 14086	10165 <sup>T</sup> ←VIAM HB31
23050 ←IAM 14620	22234 ←IAM 2029	<i>Fellomyces ogasawarensis</i>
<i>Eurotium chevalieri</i> var. <i>intermedium</i>	22245 ←IAM 2051	9861 <sup>T</sup> ←T. Nakase OK-81
22948 ←IAM 14091	22421 ←IAM 2946	<i>Fellomyces penicillatus</i>
23051 ←IAM 14621	22919 ←IAM 13896	6907 <sup>T</sup> ←IFO 10119
<i>Eurotium cristatum</i>	22920 ←IAM 13897	<i>Fellomyces polyborus</i>
1569 ←CBS 123.53	22921 ←IAM 13898	6908 <sup>T</sup> ←IFO 10120
22952 ←IAM 14097	22942 ←IAM 14085	<i>Fellomyces sichuanensis</i>
22953 ←IAM 14098	23001 ←IAM 14537	10166 <sup>T</sup> ←VIAM HB40
<i>Eurotium echinulatum</i>	23054 ←IAM 14624	<i>Fellomyces thailandicus</i>
1570 ←CBS 524.65	<i>Eurotium spiculosum</i>	10875 <sup>T</sup> ←VIAM HB49
22289 ←IAM 2183	1581 ←CBS 377.75	10876 ←VIAM HB47
22949 ←IAM 14092	<i>Eurotium tonophilum</i>	<i>Fennellia flavipes</i>
<i>Eurotium glabrum</i>	1851 ←CBS 405.65	12720 ←IAM 13865
1967 ←CBS 379.75	23042 ←IAM 14612	22340 ←IAM 2523
<i>Eurotium halophilicum</i>	<i>Eurotium umbrosum</i>	22995 ←IAM 14472
1571 ←CBS 122.62	1582 ←CBS 117.46 (Eurotium umbrosum)	22996 ←IAM 14473
11250 ←IFO 7054	22432 ←IAM 2980 (Aspergillus umbrosus)	<i>Fennellia nivea</i>
<i>Eurotium herbariorum</i>	22955 ←IAM 14100	2731 ←CBS 115.27
1575 ←CBS 516.65	23055 ←IAM 14625	2732 ←CBS 261.73
2602 ←Y. Sugiyama 82-38	<i>Eurotium xerophilum</i>	12731 ←IAM 13879
2603 ←Y. Sugiyama 83-150	1583 ←CBS 938.73	<i>Fibulobasidium inconspicuum</i>
3891 ←Y. Sugiyama 83-148	<i>Everhartia hymenuloides</i>	6898 ←IFO 31001
3892 ←Y. Sugiyama 83-149	9963 ←UPSC 2363	6899 ←IFO 31002
6937 ←Y. Sugiyama 83-03	<i>Exidiopsis plumbescens</i>	6900 ←IFO 31003
10081 ←IAM 13899	9898 ←T. Aoki UT024	6901 ←IFO 31004
<i>Eurotium heterocaryoticum</i>	<i>Exobasidium gracile</i>	<i>Filobasidium capsuligenum</i>
1572 ←CBS 411.65	12917 ←G. Okada OFC 5309	2273 <sup>T</sup> ←AJ 4692
1728 ←CBS 410.65	<i>Exobasidium japonicum</i>	9041 ←IFO 1185
<i>Eurotium intermedium</i>	10156 ←G. Okada OFC 5189	<i>Filobasidium elegans</i>
1573 ←CBS 523.65	14106 ←G. Okada OFC 5336	10632 <sup>T</sup> ←CBS 7637
22947 ←IAM 14090	14107 ←G. Okada OFC 5337	<i>Filobasidium floriforme</i>
<i>Eurotium leucocarpum</i>	<i>Exophiala alcalophila</i>	10631 <sup>T</sup> ←CBS 6241
1574 ←CBS 353.68	1751 ←J. Sugiyama #81-145	<i>Filobasidium globisporum</i>
<i>Eurotium medium</i>	1752 ←J. Sugiyama #81-146	10633 <sup>T</sup> ←CBS 7642
1576 ←CBS 113.27		<i>Flagelloscypha japonica</i>
22415 ←IAM 2915		12855 ←Y. Harada TH 4844

<i>Fulvia fulva</i>	15365 ←J. Sugiyama TBT-3	7402 ←K. Kodama AN 0453
10686 ←IFO 9759	7403 ←K. Kodama AN 0457	
10817 ←G. Okada OFC 5240	7404 ←K. Kodama AN 0489	
23190 ←IAM 14962	7405 ←K. Kodama AN 0492	
<i>Fusarium crookwellense</i>	7406 ←K. Kodama AN 0512	
9874 ←Y. Sugiura KH-2-1	7407 ←K. Kodama AN 0513	
<i>Fusarium graminearum</i>	7408 ←K. Kodama AN 0518	
23187 ←IAM 14959	7409 ←K. Kodama AN 0522	
<i>Fusarium moniliforme</i>	7410 ←K. Kodama AN 0528	
22447 ←IAM 5062	7411 ←K. Kodama AN 0551	
<i>Fusarium oxysporum</i>	7412 ←K. Kodama AN 0507	
11502 ←H. Shoun MT-811	7413 ←K. Kodama AN 0511	
<i>Fusarium oxysporum f. sp. cucumerinum</i>	7414 ←K. Kodama AN 0514	
9284 ←F. Namiki Cu:8-1	7415 ←K. Kodama AN 0516	
9285 ←F. Namiki Cucu01-015	7416 ←K. Kodama AN 0517	
<i>Fusarium oxysporum f. sp. lagenariae</i>	7417 ←K. Kodama AN 0553	
9293 ←F. Namiki Lag:3-1	7418 ←K. Kodama AN 0571	
<i>Fusarium oxysporum f. sp. lycopersici</i>	7419 ←K. Kodama AN 0611	
12575 ←T. Arie 880621a-1	7420 ←K. Kodama AN 0616	
<i>Fusarium oxysporum f. sp. melonis</i>	7421 ←K. Kodama AN 0608	
9286 ←F. Namiki Mel02005	7422 ←K. Kodama AN 0613	
9287 ←F. Namiki Mel02008	7423 ←K. Kodama AN 0617	
9288 ←F. Namiki Mel02010	7424 ←K. Kodama AN 0619	
9289 ←F. Namiki Mel02025	7425 ←K. Kodama AN 0627	
9290 ←F. Namiki Mel02065	7426 ←K. Kodama AN 0630	
<i>Fusarium oxysporum f. sp. momordicae</i>	7427 ←K. Kodama AN 0638	
9292 ←F. Namiki 90NF2-1	7428 ←K. Kodama AN 0645	
<i>Fusarium oxysporum f. sp. niveum</i>	7429 ←K. Kodama AN 0649	
9291 ←F. Namiki 80WF-3	7430 ←K. Kodama AN 0650	
<i>Fusarium proliferatum</i>	7431 ←K. Kodama AN 0652	
23105 ←IAM 14680	7432 ←K. Kodama AN 0661	
<i>Fusarium roseum</i>	7433 ←K. Kodama AN 0667	
22443 ←IAM 5010	7434 ←K. Kodama AN 0673	
<i>Fusarium sacchari</i> var. <i>subglutinans</i>	7435 ←K. Kodama AN 0674	
9676 ←M. Muramoto SA-GE-37	<i>Geotrichum candidum</i>	
<i>Fusarium solani</i>	1747 ←J. Sugiyama #83-058	
11383 ←J.-Y. Park SS-6	1748 ←J. Sugiyama #83-059	
11384 ←J.-Y. Park CM02	2989 ←M. Suzuki T-10	
11488 ←R. Kano NUSV-1002	2994 ←M. Suzuki T-16	
17147 ←H. Hayashi JV-66	5222 ←N. Hara SH 269	
<i>Fusarium</i> sp.	5656 ←K. Kodama AN 0221	
15339 ←J. Sugiyama TBT-4	5657 ←K. Kodama AN 0470	
15340 ←J. Sugiyama K5225-2-1	5658 ←K. Kodama AN 0519	
15341 ←J. Sugiyama K5225-19-3	5659 ←K. Kodama AN 0493	
15342 ←J. Sugiyama K5427-1-1	5660 ←K. Kodama AN 0572	
15343 ←J. Sugiyama K5427-1-2	5661 ←K. Kodama AN 0421	
15344 ←J. Sugiyama K5427-1-3	5662 ←K. Kodama AN 0492	
15345 ←J. Sugiyama K5427-1-5	5663 ←K. Kodama AN 0624	
15346 ←J. Sugiyama K5427-2-1	5664 ←K. Kodama AN 0725	
15347 ←J. Sugiyama K5427-2-2	6259 ←CBS 114.23	
15348 ←J. Sugiyama T4519-1-1	6260 ←CBS 133.24	
15349 ←J. Sugiyama T4519-1-2	6261 ←CBS 149.26	
15350 ←J. Sugiyama T4519-3-1	6262 ←CBS 180.33	
15351 ←J. Sugiyama T4519-5-2	6263 ←CBS 182.33	
15352 ←J. Sugiyama T4519-6-1	6264 ←CBS 195.35	
15353 ←J. Sugiyama T4519-7-1	6266 ←CBS 193.34	
15354 ←J. Sugiyama T4519-9-1	7384 ←K. Kodama AN 0043	
15355 ←J. Sugiyama T4519-9-2	7385 ←K. Kodama AN 0206	
15356 ←J. Sugiyama T4519-9-3	7386 ←K. Kodama AN 0225	
15357 ←J. Sugiyama T4519-10-2	7387 ←K. Kodama AN 0279	
15358 ←J. Sugiyama T4906-10-1	7388 ←K. Kodama AN 0318	
15359 ←J. Sugiyama T4906-11-4	7389 ←K. Kodama AN 0354	
15360 ←J. Sugiyama T4906-11-5	7390 ←K. Kodama AN 0373	
15361 ←J. Sugiyama T4906-11-6	7391 ←K. Kodama AN 0379	
15362 ←J. Sugiyama T4922-8-2	7392 ←K. Kodama AN 0389	
15363 ←J. Sugiyama TBK-8	7393 ←K. Kodama AN 0392	
	7394 ←K. Kodama AN 0411	
	7395 ←K. Kodama AN 0413	
	7396 ←K. Kodama AN 0454	
	7397 ←K. Kodama AN 0434	
	7398 ←K. Kodama AN 0437	
	7399 ←K. Kodama AN 0442	
	7400 ←K. Kodama AN 0444	
	7401 ←K. Kodama AN 0452	
	<i>Geotrichum capitatum</i>	
	3908 ←CBS 573.82	
	3909 ←CBS 578.82	
	3910 ←CBS 579.82	
	3911 ←CBS 580.82	
	6257 ←CBS 207.83	
	6258 ←CBS 571.82	
	21866 ←IAM 04324	
	<i>Geotrichum eriense</i>	
	3912 <sup>T</sup> ←CBS 694.83	
	<i>Geotrichum fermentans</i>	
	2467 ←CBS 451.83	
	2468 <sup>T</sup> ←CBS 439.83	
	2950 ←CBS 409.34	
	<i>Geotrichum fragrans</i>	
	1749 ←J. Sugiyama #83-060	
	<i>Geotrichum klebahnii</i>	
	2171 ←N. Kato FT-3	
	3913 ←CBS 627.74	
	6267 ←CBS 179.30	
	<i>Geotrichum rectangulatum</i>	
	1750 <sup>T</sup> ←J. Sugiyama #82-061	
	<i>Gibberella zeae</i>	
	9873 ←Y. Sugiura TH-5-1	
	<i>Gliocladium catenulatum</i>	
	10749 ←TC 1280	
	<i>Gliocladium cibotii</i>	
	9203 ←K. Nagai FA140	
	9206 ←K. Nagai FS2073	
	<i>Gliocladium</i> sp.	
	10750 ←TC 1052	
	10751 ←TC 1282	

<i>Gloniopsis constricta</i>	7953 ←G. Okada OFC 3548
2753 ←N. Amano #A-802	
<i>Gloniopsis macrospora</i>	<i>Helicodendron conglomeratum</i>
2754 ←N. Amano #A-615	9248 ←Y. Tsurumi rkt138
2755 ←N. Amano #A-754	9249 ←Y. Tsurumi rkt168
2756 ←N. Amano #A-755	9250 ←Y. Tsurumi rkt139
2757 ←N. Amano #A-771	9251 ←Y. Tsurumi rkt151
<i>Glonium clavisporum</i>	9253 ←Y. Tsurumi rkt164
14418 ←K. Tanaka KTC 1893	
<i>Glonium lineare</i>	<i>Helicodendron fractum</i>
2747 ←N. Amano #A-580	9254 ←Y. Tsurumi rkt110
2748 ←N. Amano #A-796	9255 ←Y. Tsurumi rkt152
<i>Glonium macrosporum</i>	<i>Helicodendron multisepatum</i>
2749 ←N. Amano #A-561	9256 ←Y. Tsurumi rkt208
2750 ←N. Amano #A-581	9257 ←Y. Tsurumi rkt281
2751 ←N. Amano #A-582	
<i>Glonium sasicola</i>	<i>Helicodendron tubulosum</i>
2752 ←N. Amano #A-464	2599 ←S. Udagawa
<i>Gongronella butleri</i>	9258 ←Y. Tsurumi rkt177
5607 ←HUT 1002	9259 ←Y. Tsurumi rkt181
5608 ←HUT 1003	
<i>Graphilbum pleomorphum</i>	<i>Helicoon fuscosporum</i>
3810 ←G. Okada OFC 1371	9262 ←Y. Tsurumi rkt180
3811 ←G. Okada OFC 1373	9263 ←Y. Tsurumi rkt222
<i>Graphiola cylindrica</i>	<i>Helicosporium lumbricoides</i>
8214 ←G. Okada OFC 3817	9264 ←Y. Tsurumi rkt34
8215 ←G. Okada OFC 3818	9265 ←Y. Tsurumi rkt36
8216 ←G. Okada OFC 3819	
8217 ←G. Okada OFC 3820	<i>Hemicarpenteles ornatus</i>
8218 ←G. Okada OFC 3821	2354 ←ATCC 16921
8561 ←IFO 6426	12733 ←IAM 13880
8562 ←IFO 6770	23045 ←IAM 14615
8823 ←G. Okada OFC 3982	
8824 ←G. Okada OFC 3983	<i>Hemicarpenteles paradoxus</i>
<i>Graphiola phoenicis</i>	2355 ←ATCC 16918
2001 ←J. Sugiyama #83-081	23003 ←IAM 14542
2002 ←J. Sugiyama #83-082	
6355 ←IFO 9100	<i>Hemicarpenteles thaxteri</i>
8175 ←G. Okada OFC 3641	2264 ←CBS 105.25
8176 ←G. Okada OFC 3642	2350 ←ATCC 16920
8825 ←G. Okada OFC 4058	
<i>Graphium album</i>	<i>Herpotrichia macrotricha</i>
9744 ←CBS 276.54	14419 ←K. Tanaka KTC 1911
<i>Graphium aureum</i>	<i>Hinomyces moricola</i>
9745 ←CBS 277.54	14250 ←T. Sano, Hirosaki 2849
<i>Graphium basitrunctatum</i>	<i>Hinomyces pruni</i>
9300 ←CBS 320.72	14251 ←T. Sano, Hirosaki 3007
<i>Graphium eumorphum</i>	<i>Hirsutella rhossiliensis</i>
9748 ←CBS 987.73	23109 ←IAM 14685
<i>Graphium fructicola</i>	
9750 ←CBS 107.68	<i>Holtermannia corniformis</i>
<i>Graphium penicilliodes</i>	1743 ←J. Sugiyama #83-065
9301 ←CBS 408.84	1744 ←J. Sugiyama #83-064
10496 ←T. Kirisits No. 1	1745 ←J. Sugiyama #83-063
10497 ←T. Kirisits No. 2	1746 ←J. Sugiyama #83-062
10498 ←T. Kirisits No. 3	
10499 ←T. Kirisits No. 4	<i>Holwaya mucida</i> subsp. <i>nipponica</i>
<i>Graphium putredinis</i>	12905 ←T. Hosoya FC-1092
7866 ←G. Okada OFC 1384	
8076 ←G. Okada OFC 1369	<i>Hormoconis resinae</i>
8077 ←G. Okada OFC 2187	10685 ←IFO 8588
8082 ←G. Okada OFC 3772	11225 ←IFO 6367
<i>Graphium rubrum</i>	11226 ←IFO 31770
9751 ←CBS 210.34	11227 ←IFO 31773
<i>Graphium silanum</i>	
9752 ←CBS 206.37	<i>Hyaloscypha albohyalina</i> var. <i>albohyalina</i>
	12906 ←T. Hosoya FC-1101
	<i>Hyaloscypha aureliella</i>
	12907 ←T. Hosoya FC-1097
	<i>Hyalotrochophora lignatilis</i>
	8092 ←G. Okada OFC 3525
	8093 ←G. Okada OFC 3526
	8094 ←G. Okada OFC 3527
	9945 ←IFO 7071
	13421 ←G. Okada OFC 5320
	<i>Hypopichia pseudoburtonii</i>
	16346 ←CBS 2455
	16347 ←CBS 5504

Animal  
Plant  
Cell  
DNA  
JCM  
Info

<i>Hypocrea albofulva</i>	12030 ←Y. Doi D. 9363	12655 ←T. Tokiwa KS 99165
11981 ←Y. Doi D. 11	12031 ←Y. Doi D. 9366	12656 ←T. Tokiwa KS 99121
<i>Hypocrea ampulliformis</i>	12032 ←Y. Doi D. 9368	<i>Hypomyces sympodiophorus</i>
11982 ←Y. Doi D. 14	12033 ←Y. Doi D. 9529	12505 ←T. Tokiwa KS 00060
<i>Hypocrea jecorina</i>	12034 ←Y. Doi D. 9566	12506 ←T. Tokiwa KS 03114
22988 ←IAM 14456	12035 ←Y. Doi D. 9570	<i>Hypoxyylon fuscum</i>
<i>Hypocrea lutea</i>	12036 ←Y. Doi D. 9844	22695 ←IAM 13141
11983 ←Y. Doi D. 13	12037 ←Y. Doi D. 9856	22696 ←IAM 13142
11984 ←Y. Doi D. 55	12038 ←Y. Doi D. 9938	<i>Hypoxyylon howeanum</i>
11985 ←Y. Doi D. 101	12039 ←Y. Doi D. 9942	22690 ←IAM 13136
11986 ←Y. Doi D. 139	12040 ←Y. Doi D. 9958	22691 ←IAM 13137
11987 ←Y. Doi D. 253	12041 ←Y. Doi D. 10045	22692 ←IAM 13138
11988 ←Y. Doi D. 350	12042 ←Y. Doi D. 10060	22693 ←IAM 13139
11989 ←Y. Doi D. 358	12043 ←Y. Doi D. 10089	<i>Hypoxyylon hypomiltum</i> var. <i>hypomiltum</i>
11990 ←Y. Doi D. 471	12044 ←Y. Doi D. 10190	22684 ←IAM 13124
11991 ←Y. Doi D. 2441	12045 ←Y. Doi D. 10471	<i>Hypoxyylon hypomiltum</i> var. <i>microsporum</i>
11992 ←Y. Doi D. 4595	12046 ←Y. Doi D. 10522	22685 ←IAM 13126
11993 ←Y. Doi D. 4603	12047 ←Y. Doi D. 10586	<i>Hypoxyylon truncatum</i>
11994 ←Y. Doi D. 4793	<i>Hypocrea pallida</i>	22687 ←IAM 13131
11995 ←Y. Doi D. 4998	12048 ←Y. Doi D. 9984	22688 ←IAM 13133
11996 ←Y. Doi D. 5012	<i>Hypocrea schweinitzii</i>	22689 ←IAM 13135
11997 ←Y. Doi D. 5016	12049 ←Y. Doi D. 112	<i>Hysterographium fraxini</i>
11998 ←Y. Doi D. 5019	12050 ←Y. Doi D. 115	14420 ←K. Tanaka KTC 1867
11999 ←Y. Doi D. 9144	12051 ←Y. Doi D. 156	<i>Hysterographium minus</i>
12000 ←Y. Doi D. 9376	12052 ←Y. Doi D. 166	2758 ←N. Amano #A-651
12001 ←Y. Doi D. 9380	12053 ←Y. Doi D. 172	<i>Issatchenka occidentalis</i>
12002 ←Y. Doi D. 9847	12054 ←Y. Doi D. 175	1711 <sup>T</sup> ←NRRL Y-7552
12003 ←Y. Doi D. 10057	12055 ←Y. Doi D. 188	2296 ←AJ 5778
12004 ←Y. Doi D. 10059	12056 ←Y. Doi D. 227	<i>Issatchenka orientalis</i>
12005 ←Y. Doi D. 10095	12057 ←Y. Doi D. 231	1710 <sup>T</sup> ←NRRL Y-5396
12006 ←Y. Doi D. 10098	12058 ←Y. Doi D. 307-B	<i>Issatchenka scutulata</i> var. <i>exigua</i>
12007 ←Y. Doi D. 10422	12059 ←Y. Doi D. 4500	1829 <sup>T</sup> ←UCD 68-979B1
12008 ←Y. Doi D. 10423	12060 ←Y. Doi D. 9127	<i>Issatchenka scutulata</i> var. <i>scutulata</i>
12009 ←Y. Doi D. 11005	12061 ←Y. Doi D. 9505	1828 <sup>T</sup> ←UCD 71-102
12010 ←Y. Doi D. 11009	12062 ←Y. Doi D. 9649	<i>Issatchenka terricola</i>
12011 ←Y. Doi D. 11017	12063 ←Y. Doi D. 9652	1709 <sup>T</sup> ←NRRL YB-4310
12012 ←Y. Doi D. 11023	12064 ←Y. Doi D. 9653	<i>Kalmusia scabrispora</i>
12013 ←Y. Doi D. 11026	12065 ←Y. Doi D. 9687	12851 ←Y. Harada KTC 1023-1
12014 ←Y. Doi D. 11078	12066 ←Y. Doi D. 9688	<i>Karstenula multisepata</i>
12015 ←Y. Doi D. 11135	12067 ←Y. Doi D. 10051	13119 ←Y. Harada KTC 928
12016 ←Y. Doi D. 11136	12068 ←Y. Doi D. 10470	<i>Karstenula straminis</i>
12017 ←Y. Doi D. 11144	12069 ←Y. Doi D. 10575	13123 ←Y. Harada KTC 550
23023 ←IAM 14565	22675 ←IAM 13097	<i>Katumotoa bambusicola</i>
<i>Hypocrea mikurajimensis</i>	22989 ←IAM 14457	13131 ←Y. Harada KTC 1517a
12018 ←Y. Doi D. 10438	<i>Hypomyces armeniacus</i>	<i>Kazachstania exigua</i>
12019 ←Y. Doi D. 10559	10757 ←T. Tokiwa KS 99135	1789 ←AJ 4075
<i>Hypocrea muroiana</i>	<i>Hypomyces chlorinigenus</i>	1790 <sup>T</sup> ←AJ 14270
1871 ←Y. Doi D. 5066(2)	15809 ←T. Tokiwa KS 03094	9554 ←IFO 1629
1872 ←Y. Doi D. 5083	15810 ←T. Tokiwa KS 04096	<i>Kazachstania servazzii</i>
1877 ←Y. Doi D. 5310b2	15811 ←T. Tokiwa KS 08065	5179 <sup>T</sup> ←IFO 1838
<i>Hypocrea nigricans</i>	<i>Hypomyces chrysospermus</i>	5200 ←S. Kato No. 5
1869 ←Y. Doi D. 5015	15815 ←T. Tokiwa KS 99087	5201 ←S. Kato No. 20
1870 ←Y. Doi D. 5066c	15816 ←T. Tokiwa KS 00051	5202 ←S. Kato No. 37
1873 ←Y. Doi D. 5089	15817 ←T. Tokiwa KS 05077	<i>Kazachstania telluris</i>
1874 ←Y. Doi D. 5309a	15818 ←T. Tokiwa KS 05080	5298 <sup>T</sup> ←IFO 1331
1878 ←Y. Doi D. 5310c	<i>Hypomyces corticiicola</i>	9560 ←IFO 0729
12020 ←Y. Doi D. 47	12504 ←T. Tokiwa KS 01009	9834 ←CBS 1787
12021 ←Y. Doi D. 74	<i>Hypomyces laeticolor</i>	9835 ←CBS 2419
12022 ←Y. Doi D. 75	10758 ←T. Tokiwa KS 99138	<i>Kazachstania transvaalensis</i>
12023 ←Y. Doi D. 206-b	10759 ←T. Tokiwa KS 99143	5178 <sup>T</sup> ←IFO 1625
12024 ←Y. Doi D. 264	<i>Hypomyces melanocarpus</i>	<i>Kazachstania unisporus</i>
12025 ←Y. Doi D. 282	15808 ←T. Tokiwa KS 03110	5180 <sup>T</sup> ←IFO 0316
12026 ←Y. Doi D. 315	<i>Hypomyces microsporus</i>	<i>Kionochoeta ivoriensis</i>
12027 ←Y. Doi D. 330	15819 ←T. Tokiwa KS 03049	9876 ←CBS 374.76
12028 ←Y. Doi D. 349	<i>Hypomyces pseudocorticiicola</i>	<i>Kionochoeta ramifera</i>
12029 ←Y. Doi D. 5015	12654 ←T. Tokiwa KS 99124	9756 ←IFO 9947

<i>Kionochaeta spissa</i>	10073 <sup>T</sup> ← T. Nakase OK-110	9051 ← IFO 1919
9817 ← G. Okada OFC 5010	10074 ← T. Nakase OK-118	9057 <sup>T</sup> ← IFO 1917
9818 ← Y. Takamura Y17	10075 ← T. Nakase OK-132	9058 ← IFO 1918
<i>Kirschsteiniothelia incrustans</i>	<i>Kockovaella sacchari</i>	<i>Leucosporidium fellii</i>
14421 ← K. Tanaka KTC 1901	9858 <sup>T</sup> ← T. Nakase K-337	9887 <sup>T</sup> ← CBS 7287
<i>Kloeckera apiculata</i>	10999 ← T. Nakase TY-210	<i>Leucosporidium scottii</i>
2202 ← IAM 12219	<i>Kockovaella shimae</i>	9052 <sup>T</sup> ← IFO 1923
5947 ← K. Tokuoka 115-CA	10051 <sup>T</sup> ← T. Nakase OK-33	9053 ← IFO 1924
21870 ← IAM 04631	<i>Kockovaella</i> sp.	9054 ← IFO 1925
<i>Kloeckera apis</i>	13680 ← L. T. Dao VY-8	<i>Lindgomyces breviappendiculatus</i>
5948 ← K. Tokuoka 26-50A	13681 ← L. T. Dao VY-9	12701 ← Y. Harada KTC 1399-1
<i>Kloeckera japonica</i>	13746 ← L. T. Dao VY-78	12702 ← Y. Harada KTC 1215-1
2185 ← IAM 12827	13799 ← L. T. Dao VY-138	<i>Lindgomyces ingoldianus</i>
2201 ← IAM 12220	<i>Kockovaella thailandica</i>	16479 ← K. Tanaka KH 100
<i>Kloeckera javanica</i>	7824 <sup>T</sup> ← T. Nakase K-94	<i>Lindgomyces rotundatus</i>
2187 ← IAM 12829	7825 ← T. Nakase K-35	16481 ← K. Tanaka KT 966
3710 ← AJ 5197	9859 ← T. Nakase K-308	16482 ← K. Tanaka KT 1096
<i>Kluyveromyces lactis</i>	9860 ← T. Nakase K-311	16483 ← K. Tanaka KT 1107
9563 ← IFO 0648	11000 ← T. Nakase TY-208	16484 ← K. Tanaka KH114
22014 ← IAM 12492	<i>Kockovaella vietnamensis</i>	<i>Lindgomyces</i> sp.
<i>Kluyveromyces marxianus</i>	10841 <sup>T</sup> ← T. Nakase and L. T. Dao	16480 ← K. Tanaka KH 241
1614 ← IAM 04829	VY-127	<i>Lipomyces japonicus</i>
1630 ← IAM 12237	<i>Komagataella pastoris</i>	7254 <sup>T</sup> ← J. P. van der Walt J10T
2188 ← IAM 12830	3650 <sup>T</sup> ← AJ 5076	<i>Lipomyces kononenkoae</i> subsp.
22013 ← IAM 12491	21999 ← IAM 12267	<i>kononenkoae</i>
22052 ← IAM 12852	<i>Kondoa malvinella</i>	5989 <sup>T</sup> ← Y. Yamada
<i>Kluyveromyces marxianus</i> var. <i>lactis</i>	3789 <sup>T</sup> ← S. Goto YK 227	<i>Lipomyces kononenkoae</i> subsp.
6846 ← NCYC 1548	3790 ← S. Goto YK 228	<i>spencer-martinsiae</i>
<i>Kluyveromyces nonfermentans</i>	<i>Kostermansinda magna</i>	5990 ← Y. Yamada
10226 ← T. Nagahama SY-05	9971 ← CBS 702.73	<i>Lipomyces lipofer</i>
10227 ← T. Nagahama SY-19	<i>Kurtzmanomyces insolitus</i>	3768 ← AJ 4280
10228 ← T. Nagahama SY-20	10409 <sup>T</sup> ← IGC 5510	3769 <sup>T</sup> ← AJ 5321
10229 ← T. Nagahama SY-26	<i>Kurtzmanomyces neotarei</i>	5992 ← Y. Yamada
10230 ← T. Nagahama SY-28	6906 <sup>T</sup> ← IFO 10118	5993 ← Y. Yamada
10231 ← T. Nagahama SY-29	<i>Kurtzmanomyces tardus</i>	5994 ← Y. Yamada
10232 <sup>T</sup> ← T. Nagahama SY-33	10490 <sup>T</sup> ← PYCC 4529	<i>Lipomyces smithiae</i>
10233 ← T. Nagahama SY-54	<i>Lachnellula suecica</i>	8928 <sup>T</sup> ← CBS 7407
10234 ← T. Nagahama SY-56	12908 ← T. Hosoya FC-1075	<i>Lipomyces starkeyi</i>
10235 ← T. Nagahama SY-63	<i>Lachnum palmae</i>	3767 ← AJ 4279
10236 ← T. Nagahama SY-64	12909 ← T. Hosoya FC-1025	5995 <sup>T</sup> ← Y. Yamada
<i>Kluyveromyces polysporus</i>	<i>Lambertella advenula</i>	5997 ← Y. Yamada
3705 ← AJ 4278	12910 ← T. Hosoya FC-1007	5998 ← Y. Yamada
<i>Kluyveromyces thermotolerans</i>	<i>Lambertella</i> sp.	5999 ← Y. Yamada
1548 ← IFO 0662	12911 ← T. Hosoya FC-1093	<i>Lipomyces suomiensis</i>
<i>Kluyveromyces waltii</i>	<i>Lecanicillium aphanocladii</i>	7660 <sup>T</sup> ← Y. Yamada
10745 <sup>T</sup> ← IFO 1666	23094 ← IAM 14667	<i>Lipomyces tetrasporus</i>
<i>Kluyveromyces yarrowii</i>	<i>Lecanicillium psalliotae</i>	6000 <sup>T</sup> ← Y. Yamada
9564 <sup>T</sup> ← IFO 10314	23128 ← IAM 14706	6001 ← Y. Yamada
<i>Kockovaella barringtoniae</i>	<i>Lecythophora mutabilis</i>	6002 ← Y. Yamada
10998 <sup>T</sup> ← T. Nakase TY-278	23110 ← IAM 14686	6003 ← Y. Yamada
<i>Kockovaella calophylli</i>	<i>Leptographium pini-densiflorae</i>	6004 ← Y. Yamada
10842 <sup>T</sup> ← T. Nakase and L. T. Dao	10479 ← H. Masuya MCC071	6005 ← Y. Yamada
VY-137	10480 ← H. Masuya MCC194	6006 ← Y. Yamada
<i>Kockovaella cucphuongensis</i>	<i>Leptosphaeria collinsoniae</i>	6007 ← Y. Yamada
10839 ← T. Nakase and L. T. Dao	13073 ← Y. Harada KTC 1501	6008 ← Y. Yamada
VY-67	<i>Leptosphaeria doliolum</i>	6009 ← Y. Yamada
10840 <sup>T</sup> ← T. Nakase and L. T. Dao	2741 ← N. Amano #A-585	6010 ← Y. Yamada
VY-125	2742 ← N. Amano #A-768	<i>Lodderomyces elongisporus</i>
<i>Kockovaella imperatae</i>	<i>Leptosphaeria galiorum</i>	1781 <sup>T</sup> ← AJ 5470
7826 <sup>T</sup> ← T. Nakase K-97	13075 ← Y. Harada KTC 868	1782 ← AJ 4571
<i>Kockovaella litseae</i>	<i>Leptosphaeria lonicerae</i>	1783 ← AJ 4575
10838 <sup>T</sup> ← T. Nakase and L. T. Dao	2744 ← N. Amano #A-777	<i>Lophiostoma apiculatum</i>
VY-61	<i>Leptosphaeria</i> sp.	13091 <sup>T</sup> ← Y. Harada KTC 1108
<i>Kockovaella machilophila</i>	2743 ← N. Amano #A-793	13092 ← Y. Harada KTC 1144
10052 <sup>T</sup> ← T. Nakase OK-136	13076 ← Y. Harada KTC 727	<i>Lophiostoma arundinis</i>
<i>Kockovaella phaffii</i>	<i>Leucosporidium antarcticum</i>	13550 ← T. Sano, Hirosaki 4112

- 13551 ←T. Sano, Hirosaki 4113  
***Lophiostoma macrostomum***  
 13544 ←T. Sano, Hirosaki 4106  
 13545 ←T. Sano, Hirosaki 4107  
 13546 ←T. Sano, Hirosaki 4108  
***Lophiostoma nucula***  
 14132 ←CBS 627.86  
***Lophiostoma quadrinucleatum***  
 14133 ←CBS 113988  
***Lophiostoma sagitiforme***  
 15100 ←K. Tanaka KTC 1934  
***Lophiostoma semiliberum***  
 13547 ←T. Sano, Hirosaki 4109  
 13548 ←T. Sano, Hirosaki 4110  
 13549 ←T. Sano, Hirosaki 4111  
***Lophiostoma winteri***  
 14134 ←CBS 491.96  
 14135 ←CBS 114210  
***Lophiotrema boreale***  
 14136 ←CBS 114422  
***Lophiotrema nucula***  
 14137 ←CBS 113826  
***Lophiotrema vagabundum***  
 14138 ←CBS 113975  
***Lophiotrema vitigenum***  
 13534 ←T. Sano, Hirosaki 4134  
***Malassezia caprae***  
 14561<sup>T</sup> ←CBS 10434  
***Malassezia dermatis***  
 11348<sup>T</sup> ←T. Sugita M9927  
 11469 ←T. Sugita M9929  
 11470 ←T. Sugita M9931  
***Malassezia equina***  
 14562<sup>T</sup> ←CBS 9969  
***Malassezia furfur***  
 9199 ←IFO 0656  
***Malassezia japonica***  
 11963<sup>T</sup> ←T. Sugita M9966  
 11964 ←T. Sugita M9967  
***Malassezia nana***  
 12085<sup>T</sup> ←A. Hirai NUSV 1003  
 12086 ←A. Hirai strain VG Luz 776  
 12087 ←A. Hirai strain VG Luz 979  
 12088 ←A. Hirai strain VSF Geleia  
 12089 ←A. Hirai strain VM Pom  
 Passarela  
***Malassezia pachydermatis***  
 10131<sup>T</sup> ←IFO 10064  
***Malassezia sympodialis***  
 8503<sup>T</sup> ←CBS 7222  
***Malbranchea* sp.**  
 11275 ←M. Sugiyama EH366-S  
***Mammaria echinobotryoides***  
 1930 ←J. Sugiyama #83-048  
 1931 ←J. Sugiyama #83-049  
 1932 ←J. Sugiyama #83-050  
***Marasmius maximus***  
 12915 ←T. Hosoya FC-1091  
***Mariannaea campitospora***  
 10752 ←TC 1287  
 22721 ←IAM 13436  
***Mariannaea elegans***  
 12789 ←NBRC 7830  
***Mariannaea elegans* var. *punicea***  
 10753 ←TC 1322  
***Massarina bipolaris***  
 14139 ←CBS 110448  
***Massarina brunaudii***  
 14258 ←CBS 265.62  
***Massarina cisti***  
 14140 ←CBS 266.62  
***Massarina clionina***  
 12703 ←Y. Harada KTC 1149A-1  
***Massarina constricta***  
 13535 ←T. Sano, Hirosaki 4325  
 13536 ←T. Sano, Hirosaki 4323  
***Massarina corticola***  
 14141 ←CBS 154.93  
***Massarina eburnea***  
 14422 ←K. Tanaka, Hirosaki 3953  
***Massarina igniaria***  
 14142 ←CBS 845.96  
***Massarina japonica***  
 13537 ←T. Sano, Hirosaki 4329  
***Massarina lacustris***  
 13097 ←Y. Harada KTC 889  
 13098 ←Y. Harada KTC 903  
***Massarina magniarundinacea***  
 13540 ←T. Sano KTC 1174  
***Massarina microspora***  
 14144 ←CBS 421.62  
***Massarina phragmaticola***  
 14145 ←CBS 110446  
***Massarina rubi***  
 14146 ←CBS 109941  
***Massarina submediana***  
 13538 ←T. Sano, Hirosaki 4339  
***Massarina thalassioidea***  
 14147 ←CBS 110441  
***Massarina uniserialis***  
 13539 ←T. Sano, Hirosaki 4341  
***Massariosphaeria maxima***  
 12704 ←Y. Harada KTC 1157-1  
***Massariosphaeria megaspora***  
 13542 ←T. Sano KTC 905  
***Massariosphaeria moricola***  
 13541 ←T. Sano KTC 848  
***Mastigobasidium intermedium***  
 5291<sup>T</sup> ←T. Nakase NO-157  
 5651 ←T. Nakase NB-30  
***Memnoniella echinata***  
 22618 ←IAM 12151  
***Metschnikowia lunata***  
 1798<sup>T</sup> ←AJ 14207  
 11410 ←IFO 1644  
***Metschnikowia pulcherrima***  
 1631 ←IAM 12196  
 9846 ←CBS 610  
 21932 ←IAM 12197  
***Metschnikowia reukaufii***  
 2279 ←AJ 5150  
 7534<sup>T</sup> ←CBS 5834  
 8926 ←CBS 8174  
 9845 ←CBS 1903  
***Metschnikowia viticola***  
 12561<sup>T</sup> ←NCAIM Y.01705  
 12562 ←NCAIM Y.01706  
***Meyerozyma guilliermondii***  
 10735<sup>T</sup> ←IFO 10106  
***Millerozyma acaciae***  
 10732<sup>T</sup> ←IFO 1681  
***Millerozyma farinosa***  
 10734<sup>T</sup> ←IFO 1163  
***Mixia osmundae***  
 22182 ←IAM 14324  
 22183 ←IAM 14325  
 22184 ←IAM 14326  
 22200 ←IAM 14511  
***Monascus pilosus***  
 22612 ←IAM 8003  
 22613 ←IAM 8006  
 23155 ←IAM 14767  
***Monascus purpureus***  
 6934 ←Y. Sugiyama 82-17  
 22616 ←IAM 8081  
 22619 ←IAM 12152  
 22621 ←IAM 12154  
***Monascus ruber***  
 22614 ←IAM 8007  
 22620 ←IAM 12153  
 23156 ←IAM 14768  
***Monocillium indicum***  
 10146 ←CBS 313.61  
***Monocillium mucidum***  
 10160 ←CBS 404.66  
***Monocillium tenue***  
 10161 ←CBS 432.66  
***Monodictys putredinis***  
 14128 ←CBS 202.73  
 14129 ←CBS 592.79  
***Mortierella ramanniana* var. *angulispora***  
 23177 ←IAM 14876  
***Mrakia frigida***  
 1596 ←AJ 4752  
 7857<sup>T</sup> ←IAM 14136  
 7858 ←IAM 14137  
 7859 ←IAM 14138  
***Mucor genevensis***  
 10585 ←G. Okada OFC 5210  
***Mucor plumbeus***  
 3900 ←Y. Sugiyama 83-200  
***Mycoarachis inversa***  
 23066 ←IAM 14639  
***Mycosphaerella tassiana***  
 11501 ←CBS 223.31  
 11532 ←CBS 111.82  
***Mycovellosiella natrassii***  
 11228 ←IFO 30262  
***Myrothecium verrucaria***  
 22448 ←IAM 5063  
***Myxozyma geophila***  
 5220<sup>T</sup> ←J. P. van der Walt CSIR Y-907  
 5221 ←J. P. van der Walt  
 7253 ←J. P. van der Walt J6T  
***Myxozyma kluyveri***  
 7661<sup>T</sup> ←Y. Yamada  
 7662 ←Y. Yamada  
***Myxozyma lipomycoïdes***  
 5198<sup>T</sup> ←M. Yamazaki YK 932  
***Myxozyma melibiosi***  
 5194<sup>T</sup> ←M. Yamazaki YK 923  
 5195 ←M. Yamazaki YK 924  
***Myxozyma mucilagina***  
 1834<sup>T</sup> ←UCD 76-236C  
***Myxozyma neglecta***  
 5197<sup>T</sup> ←M. Yamazaki YK 931  
***Myxozyma* sp.**  
 5196 ←M. Yamazaki YK 930

<i>Myxozyma udenii</i>	<i>Nodulisporium gregarium</i>	10198 ← H. Masuya MCC156
8927 <sup>T</sup> ← CBS 7439	9025 ← CBS 112.86	10199 ← H. Masuya MCC161
<i>Nadsonia commutata</i>	<i>Nomuraea atypicola</i>	<i>Ophiostoma microcarpum</i>
10138 <sup>T</sup> ← IFO 10029	22722 ← IAM 13438	11730 ← Y. Yamaoka YCC-439
10139 ← IFO 10030	<i>Nomuraea rileyi</i>	11731 ← Y. Yamaoka YCC-459
<i>Nadsonia fulvescens</i> var. <i>elongata</i>	12790 ← NBRC 8560	<i>Ophiostoma nigrogranum</i>
1632 ← IAM 04973	<i>Occultifur externus</i>	11702 ← H. Masuya MCC162
<i>Nadsonia fulvescens</i> var. <i>fulvescens</i>	10725 <sup>T</sup> ← J. P. Sampaio ZP-111	11703 ← H. Masuya MCC163
3683 ← AJ 5332	<i>Ochroconis constricta</i>	<i>Ophiostoma nikkoense</i>
9991 ← NRRL Y-991	15943 ← N. Hamada NH9105	11728 ← Y. Yamaoka YCC-430
9992 <sup>T</sup> ← NRRL Y-12810	( <i>Scolecobasidium constrictum</i> )	11729 ← Y. Yamaoka YCC-456
<i>Nectria cinnabarina</i>	<i>Ogataea siamensis</i>	<i>Ophiostoma penicillatum</i>
23026 ← IAM 14568	12264 <sup>T</sup> ← S. Limtong FS101	9362 ← Y. Yamaoka YCC-107
<i>Nectria gracilipes</i>	<i>Ogataea thermomethanolica</i>	9363 ← Y. Yamaoka YCC-240
7938 ← G. Okada OFC 3667	12984 <sup>T</sup> ← S. Limtong PT31	<i>Ophiostoma perfectum</i>
<i>Nectria inventa</i>	<i>Onychophora coprophila</i>	9302 ← CBS 636.66
23127 ← IAM 14705	9495 ← M. Takada	<i>Ophiostoma piceae</i>
<i>Nectria mariannaeae</i>	<i>Onygena corvina</i>	6016 ← G. Okada OFC 1415
12914 ← T. Hosoya FC-1016	9546 ← G. Okada OFC 4863	8833 ← G. Okada OFC 4043
<i>Neocarpenteles acanthospororum</i>	<i>Ophiobolus anguillidus</i>	9364 ← Y. Yamaoka YCC-69
2268 ← NHL 2656	13080 ← Y. Harada KTC 553	9365 ← Y. Yamaoka YCC-120
2269 ← NHL 2657	13081 ← Y. Harada KTC 671	<i>Ophiostoma polonicum</i>
23002 ← IAM 14541	<i>Ophiophaerella sasicola</i>	9369 ← Y. Yamaoka YCC-67
<i>Neoheteroceras macrospororum</i>	13134 ← Y. Harada KTC 1706	9370 ← Y. Yamaoka YCC-115
14566 ← K. Tanaka yone 41	<i>Ophiostoma abieticola</i>	<i>Ophiostoma pusillum</i>
<i>Neosartorya aurata</i>	11725 ← Y. Yamaoka YCC-424	11704 ← H. Masuya MCC225
1853 ← CBS 466.65	11726 ← Y. Yamaoka YCC-427	11705 ← H. Masuya MCC230
<i>Neosartorya aureola</i>	11727 ← Y. Yamaoka YCC-478	<i>Ophiostoma querusc</i>
1854 ← CBS 105.55	<i>Ophiostoma ainoae</i>	12451 ← J.-W. Huang OPH-106
22337 ← IAM 2511	9356 ← Y. Yamaoka YCC-126	12452 ← J.-W. Huang OPH-110
<i>Neosartorya fennelliae</i>	9357 ← Y. Yamaoka YCC-234	<i>Ophiostoma sp.</i>
1946 ← CBS 598.74	<i>Ophiostoma bicolor</i>	9814 ← Y. Yamaoka YCC-300
1947 ← CBS 599.74	9358 ← Y. Yamaoka YCC-104	11719 ← Y. Yamaoka YCC-412
<i>Neosartorya fischeri</i>	9359 ← Y. Yamaoka YCC-237	11720 ← Y. Yamaoka YCC-414
12719 ← IAM 13863	<i>Ophiostoma botuliniforme</i>	<i>Ophiostoma subalpinum</i>
22353 ← IAM 2549	11706 ← H. Masuya MCC256	11716 ← Y. Yamaoka YCC-408
<i>Neosartorya fischeri</i> var. <i>fischeri</i>	11707 ← H. Masuya MCC260	11717 ← Y. Yamaoka YCC-410
1740 ← CBS 544.65	<i>Ophiostoma breviusculum</i>	11718 ← Y. Yamaoka YCC-411
22241 ← IAM 2042	11980 ← Y. Yamaoka YCC-494	11876 ← N. Ohtaka 051
<i>Neosartorya fischeri</i> var. <i>glabra</i>	12500 ← Y. Yamaoka YCC-519	11877 ← N. Ohtaka 054
1741 ← CBS 111.55	12501 ← Y. Yamaoka YCC-522	11878 ← N. Ohtaka 065
<i>Neosartorya fischeri</i> var. <i>spinosa</i>	<i>Ophiostoma brunneo-ciliatum</i>	<i>Ophiostoma ulmi</i>
1857 ← CBS 483.65	9811 ← Y. Yamaoka YCC-287	9303 ← CBS 102.63
<i>Neosartorya quadricincta</i>	<i>Ophiostoma cucullatum</i>	9304 ← CBS 505.83
1855 ← CBS 135.52	8815 ← Y. Yamaoka YCC-230	<i>Ordus tribachiatus</i>
<i>Neosartorya stramenia</i>	8816 ← Y. Yamaoka YCC-231	10155 ← G. Okada OFC 4400
1856 ← CBS 498.65	<i>Ophiostoma davidsonii</i>	<i>Pachnocybe ferruginea</i>
<i>Neotyphodium coenophialum</i>	7867 ← K. A. Seifert FTK 661A	9760 ← CBS 123.41
23114 ← IAM 14690	11723 ← Y. Yamaoka YCC-420	<i>Pachysolen tannophilus</i>
<i>Nervostroma cercidiphylli</i>	11724 ← Y. Yamaoka YCC-423	1633 <sup>T</sup> ← IAM 12222
14248 ← T. Sano, Hirosaki 3004	11879 ← N. Ohtaka 124	<i>Paecilomyces aeruginosus</i>
<i>Nervostroma depraedans</i>	11880 ← N. Ohtaka 126	23169 ← IAM 14801
14252 ← T. Sano, Hirosaki 3240	<i>Ophiostoma europhioides</i>	<i>Paecilomyces carneus</i>
<i>Neurospora crassa</i>	9360 ← Y. Yamaoka YCC-111	6870 ← CBS 239.32
22625 ← IAM 12164	9361 ← Y. Yamaoka YCC-242	6871 ← CBS 159.42
22635 ← IAM 12517	11721 ← Y. Yamaoka YCC-417	6872 ← CBS 399.59
<i>Neurospora sitophila</i>	11722 ← Y. Yamaoka YCC-419	6873 ← CBS 158.69
22453 ← IAM 5502	<i>Ophiostoma floccosum</i>	<i>Paecilomyces cicadae</i>
<i>Niesslia exilis</i>	12502 ← Y. Yamaoka YCC-523	12791 ← NBRC 33061
10162 ← CBS 357.70	12503 ← Y. Yamaoka YCC-526	<i>Paecilomyces farinosus</i>
<i>Niesslia exosporioides</i>	<i>Ophiostoma japonicum</i>	12792 ← NBRC 8108
10147 ← CBS 691.71	9366 ← Y. Yamaoka YCC-99	23150 ← IAM 14762
<i>Niesslia ilicifolia</i>	9815 ← Y. Yamaoka YCC-134	<i>Paecilomyces fumosoroseus</i>
10148 ← CBS 459.74	<i>Ophiostoma laricis</i>	12793 ← NBRC 8555
<i>Niesslia pulchriseta</i>	9812 ← Y. Yamaoka YCC-289	12795 ← NBRC 7562
10182 ← CBS 839.96	<i>Ophiostoma longicollum</i>	<i>Paecilomyces inflatus</i>

12794 ←NBRC 31965	<i>Penicillium aurantiogriseum</i>	22531 ←IAM 7076
<i>Paecilomyces isarioides</i>	22567 ←IAM 7146	22533 ←IAM 7080
23151 ←IAM 14763	22838 ←IAM 13793	22535 ←IAM 7083
<i>Paecilomyces javanicus</i>	22839 ←IAM 13794	22537 ←IAM 7088
23170 ←IAM 14805	<i>Penicillium bilaiae</i>	22540 ←IAM 7094
<i>Paecilomyces lilacinus</i>	22748 ←IAM 13679	22777 ←IAM 13719
8369 ←N. Sakai	22749 ←IAM 13680	22778 ←IAM 13720
8370 ←N. Sakai	<i>Penicillium brasiliense</i>	<i>Penicillium crustosum</i>
8371 ←N. Sakai	15717 ←R. Masuma FKI-3368	22503 ←IAM 7009
9332 ←CBS 284.36	<i>Penicillium brevicompactum</i>	22600 ←IAM 7297
22499 ←IAM 7002	22602 ←IAM 7306	22601 ←IAM 7300
<i>Paecilomyces marquandii</i>	22848 ←IAM 13808	22832 ←IAM 13786
12797 ←NBRC 6120	22849 ←IAM 13809	<i>Penicillium cylindrosporum</i>
22506 ←IAM 7015 ( <i>Paecilomyces</i>	22850 ←IAM 13810	23136 ←IAM 14717 ( <i>Geosmithia</i>
<i>marquandii</i> )	<i>Penicillium camemberti</i>	<i>cylindrospora</i> )
<i>Paecilomyces nostocoides</i>	22840 ←IAM 13796	<i>Penicillium decumbens</i>
8372 ←N. Sakai F-5425	22841 ←IAM 13797	22592 ←IAM 7260
8437 ←N. Sakai	<i>Penicillium canescens</i>	22593 ←IAM 7275
8438 ←N. Sakai	22758 ←IAM 13693	22754 ←IAM 13688
<i>Paecilomyces</i> sp.	22759 ←IAM 13694	22755 ←IAM 13689
12545 ←T. Nitta MFC-N080	22760 ←IAM 13695	<i>Penicillium digitatum</i>
12546 ←T. Nitta MFC-N048	<i>Penicillium charlesii</i>	5645 ←AHU 8327
<i>Paecilomyces subglobosus</i>	22594 ←IAM 7278	9863 ←Y. Arimoto
12799 ←NBRC 32026	22596 ←IAM 7285	<i>Penicillium diversum</i>
<i>Paecilomyces variotii</i>	22597 ←IAM 7287	22585 ←IAM 7228
12800 ←NBRC 7563	22764 ←IAM 13702	<i>Penicillium duclauxii</i>
12809 ←CBS 113659	<i>Penicillium chrysogenum</i>	22795 ←IAM 13742
12810 ←CBS 113953	2056 ←K. Arima	22976 ←IAM 14369
12811 ←CBS 338.51	2255 ←IFO 4897	<i>Penicillium echinulatum</i>
22440 ←IAM 5001	22552 ←IAM 7114	22836 ←IAM 13791
22622 ←IAM 12157	22555 ←IAM 7119	22837 ←IAM 13792
22715 ←IAM 13425	22557 ←IAM 7123	<i>Penicillium expansum</i>
22716 ←IAM 13426	22558 ←IAM 7125	17141 ←H. Hayashi MY-57
22717 ←IAM 13427	22559 ←IAM 7127	22823 ←IAM 13777
22718 ←IAM 13428	22566 ←IAM 7145	22825 ←IAM 13779
22719 ←IAM 13429	22575 ←IAM 7176	<i>Penicillium fellutanum</i>
22720 ←IAM 13430	22609 ←IAM 7320	22765 ←IAM 13703
<i>Paecilomyces viridis</i>	22826 ←IAM 13780	<i>Penicillium fuscoflavum</i>
23171 ←IAM 14807	22827 ←IAM 13781	22580 ←IAM 7196
<i>Papulaspora funabasensis</i>	22828 ←IAM 13782	<i>Penicillium glabrum</i>
7689 ←K. Tubaki	<i>Penicillium citreonigrum</i>	22534 ←IAM 7082
<i>Parasypodiella longispora</i>	22549 ←IAM 7107	22538 ←IAM 7090
3884 ←S. Tokumasu	22551 ←IAM 7113	22539 ←IAM 7093
7936 ←G. Okada OFC 3610	22554 ←IAM 7118	22542 ←IAM 7097
<i>Penicilliopsis clavariiformis</i>	22560 ←IAM 7131	22545 ←IAM 7102
23034 ←IAM 14603	22561 ←IAM 7133	22734 ←IAM 13661
23035 ←IAM 14604	22563 ←IAM 7135	22735 ←IAM 13662
23036 ←IAM 14605	22564 ←IAM 7138	22736 ←IAM 13663
<i>Penicillium aculeatum</i>	22752 ←IAM 13685	<i>Penicillium glandicola</i>
22556 ←IAM 7120	22753 ←IAM 13686	22851 ←IAM 13811
<i>Penicillium adametzii</i>	<i>Penicillium citrinum</i>	22852 ←IAM 13812
9927 ←FRR 737	5591 ←IAM 7008	<i>Penicillium granulatum</i>
17140 ←H. Hayashi	11378 ←J.-Y. Park S-59	2615 ←Y. Sugiyama 82-70
( <i>Penicillium</i> cf. <i>montanense</i> )	22500 ←IAM 7003	<i>Penicillium griseofulvum</i>
<i>Penicillium allahabadense</i>	22504 ←IAM 7011	22844 ←IAM 13801
9928 ←FRR 3761	22508 ←IAM 7019	<i>Penicillium hirsutum</i>
<i>Penicillium allii</i>	22511 ←IAM 7024	22834 ←IAM 13788
9949 ←FRR 3184	22517 ←IAM 7032	22835 ←IAM 13789
<i>Penicillium arenicola</i>	22519 ←IAM 7036	<i>Penicillium implicatum</i>
9929 ←FRR 3392	22607 ←IAM 7316	22586 ←IAM 7236
22859 ←IAM 13822	22776 ←IAM 13716	22745 ←IAM 13675
<i>Penicillium argillaceum</i>	<i>Penicillium commune</i>	22746 ←IAM 13676
23135 ←IAM 14716 ( <i>Geosmithia</i>	5592 ←IAM 12158	<i>Penicillium islandicum</i>
<i>argillacea</i> )	22845 ←IAM 13802	22509 ←IAM 7021
<i>Penicillium atramentosum</i>	22846 ←IAM 13804	22515 ←IAM 7029
9930 ←FRR 795	<i>Penicillium corylophilum</i>	22520 ←IAM 7040

22522 ←IAM 7046	15994 ←J. Sugiyama K5916-7-1	22527 ←IAM 7063
22809 ←IAM 13759	15995 ←J. Sugiyama K6203-2-1	22577 ←IAM 7180
22810 ←IAM 13760	<i>Penicillium paxilli</i>	22579 ←IAM 7193
22811 ←IAM 13761	22546 ←IAM 7103	22737 ←IAM 13664
<i>Penicillium italicum</i>	<i>Penicillium phialosporum</i>	22738 ←IAM 13665
22856 ←IAM 13817	22816 ←IAM 13766	<i>Penicillium steckii</i>
<i>Penicillium janczewskii</i>	<i>Penicillium pinophilum</i>	22524 ←IAM 7051
22761 ←IAM 13696	5593 ←IAM 7317	<i>Penicillium sublateritium</i>
22762 ←IAM 13697	22801 ←IAM 13748	22588 ←IAM 7248
<i>Penicillium janthinellum</i>	22802 ←IAM 13749	<i>Penicillium thomii</i>
22507 ←IAM 7018	22803 ←IAM 13750	22501 ←IAM 7006
22510 ←IAM 7023	23043 ←IAM 14613	22582 ←IAM 7203
22513 ←IAM 7026	<i>Penicillium purpureescens</i>	22583 ←IAM 7207
22518 ←IAM 7034	22514 ←IAM 7028	22740 ←IAM 13669
22570 ←IAM 7158	22516 ←IAM 7031	22741 ←IAM 13670
22571 ←IAM 7161	<i>Penicillium purpurogenum</i>	<i>Penicillium variabile</i>
22572 ←IAM 7164	22541 ←IAM 7095	22812 ←IAM 13762
22756 ←IAM 13690	22543 ←IAM 7098	22813 ←IAM 13763
22757 ←IAM 13691	22544 ←IAM 7101	22814 ←IAM 13764
<i>Penicillium lagena</i>	22547 ←IAM 7104	<i>Penicillium varians</i>
10149 ←CBS 185.65	22550 ←IAM 7109	22536 ←IAM 7084
<i>Penicillium lilacinoechinulatum</i>	22805 ←IAM 13753	<i>Penicillium velutinum</i>
22529 ←IAM 7071	22806 ←IAM 13754	22604 ←IAM 7310
<i>Penicillium lividum</i>	22807 ←IAM 13755	22606 ←IAM 7315
22578 ←IAM 7191	23216 ←IAM 15392	<i>Penicillium vermiculatum</i>
22581 ←IAM 7200	<i>Penicillium raistrickii</i>	5595 ←IAM 12159
22739 ←IAM 13668	22773 ←IAM 13713	<i>Penicillium verrucosum</i>
<i>Penicillium meliniti</i>	22774 ←IAM 13714	22595 ←IAM 7284
22589 ←IAM 7250	22775 ←IAM 13715	22853 ←IAM 13813
22591 ←IAM 7259	<i>Penicillium restrictum</i>	22854 ←IAM 13814
22763 ←IAM 13699	22750 ←IAM 13683	22855 ←IAM 13815
<i>Penicillium miczynskii</i>	22751 ←IAM 13684	<i>Penicillium verruculosum</i>
22568 ←IAM 7152	<i>Penicillium roqueforti</i>	22530 ←IAM 7073
22779 ←IAM 13721	22587 ←IAM 7241	22532 ←IAM 7079
22780 ←IAM 13722	22590 ←IAM 7254	22808 ←IAM 13756
22781 ←IAM 13723	22598 ←IAM 7292	<i>Penicillium vinaceum</i>
<i>Penicillium minioluteum</i>	22842 ←IAM 13798	22565 ←IAM 7143
22798 ←IAM 13745	22843 ←IAM 13799	<i>Penicillium viridicatum</i>
22799 ←IAM 13746	<i>Penicillium rugulosum</i>	2614 ←Y. Sugiyama 82-68
22800 ←IAM 13747	22576 ←IAM 7179	22829 ←IAM 13783
<i>Penicillium montanense</i>	22815 ←IAM 13765	22830 ←IAM 13784
22747 ←IAM 13677	<i>Penicillium sclerotoriorum</i>	22831 ←IAM 13785
<i>Penicillium multicolor</i>	22498 ←IAM 7001	<i>Penicillium viticola</i>
22569 ←IAM 7153	22742 ←IAM 13672	17636 <sup>T</sup> ←R. Masuma FKI-4410
<i>Penicillium nalgiovense</i>	22743 ←IAM 13673	<i>Penicillium vulpinum</i>
22574 ←IAM 7173	22744 ←IAM 13674	22796 ←IAM 13743
<i>Penicillium notatum</i>	<i>Penicillium simplicissimum</i>	22797 ←IAM 13744
22573 ←IAM 7168	17143 ←H. Hayashi AK-40	<i>Penicillium waksmanii</i>
<i>Penicillium ochrochloron</i>	22528 ←IAM 7070	22603 ←IAM 7308
22553 ←IAM 7116	22770 ←IAM 13710	22605 ←IAM 7313
<i>Penicillium olsonii</i>	22771 ←IAM 13711	22766 ←IAM 13704
22857 ←IAM 13820	22772 ←IAM 13712	22767 ←IAM 13706
22858 ←IAM 13821	<i>Penicillium solitum</i>	<i>Pesotum erubescens</i>
<i>Penicillium oxalicum</i>	22847 ←IAM 13806	9747 ←CBS 278.54
22584 ←IAM 7224	<i>Penicillium</i> sp.	<i>Pesotum fragrans</i>
22768 ←IAM 13707	10949 ←A. Takatsuki F13459	9298 ←CBS 219.83
<i>Penicillium paneum</i>	11377 ←J.-Y. Park S-34	9749 ←CBS 219.83
15985 ←J. Sugiyama T4519-5-5	13474 ←K. Fujii OP1	11616 ←K. A. Seifert DAOM 229580
15986 ←J. Sugiyama T4906-11-8	17142 ←H. Hayashi	11617 ←K. A. Seifert DAOM 229581
15987 ←J. Sugiyama T5916-6-1	( <i>Penicillium brasiliанum</i> )	11618 ←K. A. Seifert DAOM 229582
15988 ←J. Sugiyama T6517-1-2	22804 ←IAM 13752	<i>Pesotum piceae</i>
15989 ←J. Sugiyama T7214-8-1	<i>Penicillium spinulosum</i>	6017 ←G. Okada OFC 1413
15990 ←J. Sugiyama T7425-4-1	22521 ←IAM 7045	8834 ←G. Okada OFC 4045
15991 ←J. Sugiyama T7510-5-1	22523 ←IAM 7047	8835 ←G. Okada OFC 4047
15992 ←J. Sugiyama T7521-8A-4	22525 ←IAM 7052	8836 ←G. Okada OFC 4049
15993 ←J. Sugiyama T7528-21-1	22526 ←IAM 7054	<i>Pestalotiopsis</i> sp.

9685 ←F. Sugawara KR20-3A	5209 ←S. Kato No. 120	3613 ←AJ 5165
9686 ←F. Sugawara KR22-2A3	5914 ←K. Tokuoka 24-CA	<i>Pichia holstii</i>
<i>Petrakia echinata</i>	9847 ←CBS 605	3608 <sup>T</sup> ←AJ 5038
14130 ←CBS 112395	21895 ←IAM 04967	3609 ←AJ 5236
<i>Petromyces alliaceus</i>	<i>Pichia besseyi</i>	<i>Pichia jadinii</i>
1948 ←CBS 536.65	1706 <sup>T</sup> ←NRRL YB-4711	3617 <sup>T</sup> ←AJ 5039
12709 ←IAM 13824	<i>Pichia bimundalis</i>	<i>Pichia japonica</i>
22862 ←IAM 13825	3591 <sup>T</sup> ←AJ 5031	11402 <sup>T</sup> ←IFO 10721
<i>Peyronelina glomerulata</i>	<i>Pichia bispora</i>	<i>Pichia kluyveri</i>
9266 ←Y. Tsurumi rkt102	3590 <sup>T</sup> ←AJ 5029	1807 ←AJ 4145
9267 ←Y. Tsurumi rkt210	<i>Pichia bovis</i>	<i>Pichia kluyveri</i> var. <i>kluyveri</i>
<i>Phaeocreopsis hypoxylonoides</i>	3640 <sup>T</sup> ←AJ 5069	11403 <sup>T</sup> ←IFO 1165
1880 ←J. Sugiyama #83-001	<i>Pichia burtonii</i>	<i>Pichia kodamae</i>
1881 ←J. Sugiyama #83-002	3708 <sup>T</sup> ←AJ 5065	11404 <sup>T</sup> ←IFO 10090
1882 ←J. Sugiyama #83-003	8045 ←S. Goto TH-31	<i>Pichia koratensis</i>
<i>Phaeoisaria clematidis</i>	<i>Pichia cactophila</i>	12576 <sup>T</sup> ←BCC 11769
8840 ←G. Okada OFC 4072	1830 <sup>T</sup> ←UCD 76-243A	<i>Pichia manshurica</i>
<i>Phaeosphaeria brevispora</i>	<i>Pichia canadensis</i>	3644 ←AJ 5544
13543 ←T. Sano KTC 1466	3597 <sup>T</sup> ←AJ 5034	6807 ←Y. Yamada
<i>Phaeosphaeria caricis</i>	3598 ←AJ 5581	11401 ←IFO 10718
13136 ←Y. Harada KTC 834	3637 ←AJ 5051	<i>Pichia membranifaciens</i>
<i>Phaeosphaeria elongata</i>	3638 ←AJ 5586	1442 <sup>T</sup> ←CBS 107
13137 ←Y. Harada KTC 791	<i>Pichia capsulata</i>	1443 ←CBS 5567
<i>Phaeosphaeria eustoma</i>	1991 <sup>T</sup> ←IAM 12804	1444 ←CBS 5568
2746 ←N. Amano #A-689	1992 ←IAM 12805	1455 ←CBS 638
<i>Phaeosphaeria fuckeliooides</i>	1993 ←IAM 12806	1636 ←IAM 04987
13140 ←Y. Harada KTC 597	1994 ←IAM 12807	3531 ←M. Suzuki T-36
<i>Phialina lachnobrachya</i>	1995 ←IAM 12808	5208 ←S. Kato No. 119
12912 ←T. Hosoya FC-1042	1996 <sup>T</sup> ←IAM 12809	5915 ←K. Tokuoka 114-CA
<i>Phialomyces macrosporus</i>	<i>Pichia caribbica</i>	6806 ←Y. Yamada
8854 ←G. Okada OFC 2008	2282 ←AJ 5696	21879 ←IAM 04904
<i>Phialophora europaea</i>	<i>Pichia cecembensis</i>	21880 ←IAM 04911
15941 ←N. Hamada NH228	13873 <sup>T</sup> ←S. Shivaji YS16	21911 ←IAM 04986
<i>Phleogenia faginea</i>	<i>Pichia chambardii</i>	<i>Pichia methanolica</i>
7930 ←G. Okada OFC 3503	3641 <sup>T</sup> ←AJ 5558	10237 ←IAM 12481
7933 ←G. Okada OFC 3506	<i>Pichia ciferrii</i>	10238 ←IAM 12482
7934 ←G. Okada OFC 3507	3599 <sup>T</sup> ←AJ 5036	10239 ←IAM 12483
<i>Phoma glomerata</i>	<i>Pichia fabianii</i>	10240 ←IAM 12901
9944 ←G. Okada OFC 155	3601 <sup>T</sup> ←AJ 5037	<i>Pichia methylivora</i>
9972 ←I. Yamaguchi 324	3602 ←AJ 5157	22142 <sup>T</sup> ←IAM 13159
9973 ←CBS 107.85	3603 ←AJ 5158	<i>Pichia mexicana</i>
<i>Phoma herbarum</i>	3604 ←AJ 5159	1835 <sup>T</sup> ←UCD 76-308A
15942 ←N. Hamada NH1014	21887 ←IAM 04950	<i>Pichia minuta</i> var. <i>minuta</i>
<i>Pichia americana</i>	<i>Pichia farinosa</i>	3622 <sup>T</sup> ←AJ 5040
3592 <sup>T</sup> ←AJ 5032	1634 ←IAM 12223	9442 ←IAM 12878
3593 ←AJ 5633	2986 ←M. Suzuki T-7	22076 ←IAM 12900
<i>Pichia amylophilta</i>	3578 ←M. Suzuki T-87	<i>Pichia minuta</i> var. <i>nonfermentans</i>
1702 <sup>T</sup> ←NRRL YB-1287	8895 ←IFO 10231	3615 <sup>T</sup> ←AJ 5166
<i>Pichia angusta</i>	<i>Pichia fermentans</i>	<i>Pichia mississippiensis</i>
3620 ←AJ 5234	1824 ←AJ 4647	1703 <sup>T</sup> ←NRRL YB-1294
3621 ←AJ 5235	1847 ←AJ 4459	1704 ←NRRL YB-1269
3635 <sup>T</sup> ←AJ 5046	2180 ←IAM 12822	1705 ←NRRL YB-1292
3636 ←AJ 5582	2189 ←IAM 12831	<i>Pichia myanmarensis</i>
22074 ←IAM 12898	<i>Pichia finlandica</i>	12922 <sup>T</sup> ←T. Seki M21
<i>Pichia anomala</i>	3639 <sup>T</sup> ←AJ 5050	<i>Pichia naganishii</i>
1544 ←IFO 0707	<i>Pichia fluxuum</i>	22078 <sup>T</sup> ←IAM 12902
2293 ←AJ 5762	3646 <sup>T</sup> ←AJ 5072	<i>Pichia nakasei</i>
2376 ←AJ 5745	<i>Pichia glucozyma</i>	1502 ←AJ 4441
3538 ←M. Suzuki T-43	3607 <sup>T</sup> ←AJ 5167	1503 ←AJ 4769
3583 ←M. Suzuki T-92	<i>Pichia guilliermondii</i>	1699 <sup>T</sup> ←CBS 5141
3585 <sup>T</sup> ←AJ 5027	2190 ←IAM 12832	<i>Pichia nakazawai</i> var. <i>akitaensis</i>
3586 ←AJ 5567	<i>Pichia heedii</i>	10738 <sup>T</sup> ←IFO 1669
3587 ←AJ 5571	1833 <sup>T</sup> ←UCD 76-356	<i>Pichia nakazawai</i> var. <i>nakazawai</i>
3588 ←AJ 5608	<i>Pichia henricii</i>	7529 <sup>T</sup> ←IFO 1668
3589 ←AJ 5028	3611 <sup>T</sup> ←AJ 5163	<i>Pichia nongkratonensis</i>
3616 ←AJ 5156	3612 ←AJ 5164	12550 <sup>T</sup> ←BCC 11772

<i>Pichia ohmeri</i>	
2280 ←AJ 5239	
2308 ←AJ 5237	
2309 ←AJ 5240	
3571 ←M. Suzuki T-80	
5916 ←K. Tokuoka 19-40A	
<i>Pichia opuntiae</i>	
1836 <sup>T</sup> ←UCD 77-40	
<i>Pichia petersonii</i>	
3618 ←AJ 5042	
3619 <sup>T</sup> ←AJ 5043	
<i>Pichia philodendri</i>	
22070 <sup>T</sup> ←IAM 12894	
<i>Pichia phlogaea</i>	
10739 <sup>T</sup> ←IFO 10545	
<i>Pichia pijperi</i>	
11406 <sup>T</sup> ←IFO 1290	
<i>Pichia pini</i>	
3655 <sup>T</sup> ←AJ 5082	
<i>Pichia pseudocactophila</i>	
11535 <sup>T</sup> ←NRRL Y-10966	
<i>Pichia quercuum</i>	
3659 <sup>T</sup> ←AJ 5079	
<i>Pichia rarassimilans</i>	
14993 <sup>T</sup> ←K. Futai y20	
<i>Pichia rhodanensis</i>	
3649 <sup>T</sup> ←AJ 5074	
<i>Pichia salicaria</i>	
3653 <sup>T</sup> ←AJ 5080	
<i>Pichia silvicola</i>	
1516 <sup>T</sup> ←AJ 4272	
3627 <sup>T</sup> ←AJ 5048	
3628 ←AJ 5160	
3629 ←AJ 5161	
3630 ←AJ 5162	
<i>Pichia strasburgensis</i>	
3660 ←AJ 5068	
<i>Pichia subpelliculosa</i>	
3631 <sup>T</sup> ←AJ 5049	
3632 ←AJ 5343	
3633 ←AJ 5344	
3634 ←AJ 5345	
<i>Pichia sydowiorum</i>	
9455 <sup>T</sup> ←IFO 1705	
<i>Pichia tannicola</i>	
8120 ←CBS 6067	
<i>Pichia thermotolerans</i>	
1837 <sup>T</sup> ←UCD 76-211	
<i>Pichia toletana</i>	
3658 <sup>T</sup> ←AJ 5084	
<i>Pichia trehalophila</i>	
3651 <sup>T</sup> ←AJ 5070	
<i>Pichia wickerhamii</i>	
21961 <sup>T</sup> ←IAM 12227	
<i>Platygloea disciformis</i>	
9896 ←T. Aoki UT650	
<i>Plectosphaerella cucumerina</i>	
23116 ←IAM 14692	
<i>Plectosporium tabacinum</i>	
9207 ←K. Nagai FA124	
9208 ←K. Nagai FA134	
9209 ←K. Nagai FA116	
<i>Pleomassaria maxima</i>	
12842 ←Y. Harada KTC 1670-1	
<i>Pleomassaria siparia</i>	
12841 ←Y. Harada KTC 1669-1	
<i>Pleomassaria swidae</i>	
12839 ←Y. Harada KTC 1018-1	
12840 ←Y. Harada KTC 1019-1	
<i>Pleospora herbarum</i>	
13156 ←Y. Harada KTC 1014	
<i>Pleurodesmospora coccorum</i>	
6975 ←CBS 459.73	
<i>Pochonia suchlasporia</i> var. <i>suchlasporia</i>	
23129 ←IAM 14707	
<i>Podosporium beccarianum</i>	
8095 ←G. Okada OFC 3631	
11061 ←G. Okada OFC 5260	
13407 ←G. Okada OFC 5312	
13408 ←G. Okada OFC 5313	
<i>Polycephalomyces tomentosus</i>	
12445 ←G. Okada OFC 5306	
<i>Polyphosphaeria fusca</i>	
13173 ←Y. Harada KTC 1043	
13175 ←Y. Harada KTC 1616	
13176 ←Y. Harada KTC 1640	
13177 ←Y. Harada KTC 1686	
<i>Polystigma fulvum</i>	
14166 ←CBS 320.58	
<i>Preussia aemulans</i>	
23029 ←IAM 14571	
23030 ←IAM 14572	
23140 ←IAM 14730	
<i>Priceomyces carsonii</i>	
8121 <sup>T</sup> ←CBS 2285	
<i>Priceomyces castillae</i>	
10733 <sup>T</sup> ←IFO 1823	
<i>Priceomyces haplophilus</i>	
1635 <sup>T</sup> ←IAM 12268	
<i>Priceomyces medius</i>	
10737 <sup>T</sup> ←IFO 1824	
<i>Priceomyces melissophilus</i>	
1707 <sup>T</sup> ←NRRL Y-7585	
<i>Prosthemium canba</i>	
16966 ←K. Tanaka KTC 2083-1	
16967 ←K. Tanaka KTC 2149-1	
16968 ←K. Tanaka KTC 2157-1	
16969 ←K. Tanaka KTC 2224	
16970 ←K. Tanaka KTC 2229A	
16971 ←K. Tanaka KTC 2229C	
<i>Prosthemium intermedium</i>	
16972 ←K. Tanaka KTC 2159	
16973 ←K. Tanaka KTC 2160	
16974 ←K. Tanaka KTC 2225	
16975 ←K. Tanaka KTC 2226	
16976 ←K. Tanaka KTC 2228	
16977 ←K. Tanaka KTC MK2	
<i>Prosthemium orientale</i>	
16964 ←K. Tanaka KTC 2088-1	
16965 ←K. Tanaka KTC 2093-1	
<i>Protomyces inouyei</i>	
22201 ←IAM 14512	
<i>Protomyces inundatus</i>	
6847 ←NRRL Y-6803	
<i>Protomyces macrosporus</i>	
22191 ←IAM 14489	
<i>Protomyces pachydermus</i>	
22203 ←IAM 14514	
<i>Pseudaegerita corticalis</i>	
8986 ←G. Okada OFC 4269	
8987 ←G. Okada OFC 4270	
9268 ←Y. Tsurumi rkt82	
9269 ←Y. Tsurumi rkt131	
<i>Pseudallescheria boydii</i>	
7441 ←CBS 101.22	
<i>Pseudolachnella yakushimensis</i>	
15101 ←K. Tanaka KTC 1888	
<i>Pseudotaeniolina globosa</i>	
14451 ←N. Hamada 64	
<i>Pseudotetraploa curviappendiculata</i>	
12852 ←Y. Harada SH 4930	
<i>Pseudotetraploa javanica</i>	
12854 ←Y. Harada SH 4934	
<i>Pseudotetraploa longissima</i>	
12853 ←Y. Harada SH 4933	
<i>Pseudozyma antarctica</i>	
3941 ←CBS 6678	
10317 <sup>T</sup> ←CBS 214.83	
<i>Pseudozyma aphidis</i>	
10318 <sup>T</sup> ←CBS 517.83	
<i>Pseudozyma flocculosa</i>	
10321 ←IFO 10875	
<i>Pseudozyma fusiformata</i>	
3931 <sup>T</sup> ←CBS 6951	
10322 <sup>T</sup> ←IFO 10225	
<i>Pseudozyma graminicola</i>	
12496 <sup>T</sup> ←W. I. Golubev Ll-20	
<i>Pseudozyma parantartica</i>	
11752 <sup>T</sup> ←T. Sugita M9952	
<i>Pseudozyma prolificula</i>	
10319 ←CBS 319.87	
<i>Pseudozyma rugulosa</i>	
10323 <sup>T</sup> ←IFO 10877	
<i>Pseudozyma thailandica</i>	
11753 <sup>T</sup> ←T. Sugita M9953	
<i>Pseudozyma tsukubaensis</i>	
10324 <sup>T</sup> ←IFO 1940	
<i>Pycnostysanus azaleae</i>	
14516 ←G. Okada OFC 5349	
<i>Raffaelea quercurivora</i>	
11526 ←T. Kubono	
<i>Ramichloridium apiculatum</i>	
6966 ←CBS 391.67	
6972 ←CBS 156.59	
<i>Ramichloridium musae</i>	
6973 ←CBS 365.36	
<i>Ramichloridium obovoideum</i>	
11126 ←MFC 12477	
<i>Ramichloridium schulzeri</i> var. <i>flexuosum</i>	
6968 ←CBS 398.76	
<i>Ramichloridium schulzeri</i> var. <i>schulzeri</i>	
6967 ←CBS 305.73	
6974 ←CBS 100.54	
7234 ←CBS 325.74	
<i>Remersonia thermophila</i>	
10546 ←CBS 784.85	
10583 ←MUCL 11852	
10584 ←MUCL 15081	
<i>Rhizophydiump</i> sp.	
11505 ←Y. Tanabe YT-GR1	
<i>Rhizopus azygosporus</i>	
12784 ←K. Nagao KO-4012	
<i>Rhizopus circinans</i>	
5586 ←IAM 6014	
5587 ←IAM 6018	
5588 ←IAM 6039	
5589 ←IAM 6253	
<i>Rhizopus delemar</i> var. <i>multiplici-sporus</i>	

5564 ←IAM 6258	10634 ←CBS 4213	1597 <sup>T</sup> ←AJ 4404
5565 ←IAM 12173	<i>Rhodosporidium fluviale</i>	<i>Rhodotorula bacarum</i>
<i>Rhizopus javanicus</i>	10311 <sup>T</sup> ←CBS 6568	3928 <sup>T</sup> ←CBS 6526
5573 ←IAM 6028	<i>Rhodosporidium kratochvilovae</i>	<i>Rhodotorula benthica</i>
5574 ←IAM 6255	8171 <sup>T</sup> ←IAM 13072	10901 <sup>T</sup> ←T. Nagahama SY-91
<i>Rhizopus microsporus</i> var. <i>chinensis</i>	8172 ←IAM 13073	<i>Rhodotorula bogoriensis</i>
5555 ←IAM 6011	10449 ←IGC 4818	1692 <sup>T</sup> ←CBS 4101
5556 ←IAM 6069	10450 ←IGC 4819	<i>Rhodotorula buffonii</i>
5596 ←IAM 6013	11253 ←J. P. Sampaio ZP 17	3929 <sup>T</sup> ←CBS 7150
<i>Rhizopus oryzae</i>	11254 ←J. P. Sampaio ZP 26	<i>Rhodotorula calyptogenae</i>
5557 ←IAM 6015	11255 ←J. P. Sampaio ZP 182	10899 <sup>T</sup> ←T. Nagahama SY-86
5558 ←IAM 6019	11256 ←J. P. Sampaio ZP 210	<i>Rhodotorula creatinovora</i>
5559 ←IAM 6020	11257 ←J. P. Sampaio ZP 246	10699 <sup>T</sup> ←VKM Y-2838
5560 ←IAM 6026	11258 ←IGC 4793	10700 ←W. I. Golubev mln 1
5561 ←IAM 6038	11259 ←IGC 5085	<i>Rhodotorula cresolica</i>
5562 ←IAM 6040	11260 ←IGC 5244	10955 <sup>T</sup> ←CBS 7998
5563 ←IAM 6252	11261 ←IGC 5591	<i>Rhodotorula dairenensis</i>
5566 ←IAM 6244	11262 ←IGC 5606	3774 ←S. Goto YK 116
5567 ←IAM 6250	14277 ←H. S. Vishniac Col812-LPN	<i>Rhodotorula diffluens</i>
5568 ←IAM 6002	172	1695 <sup>T</sup> ←CBS 5233
5569 ←IAM 6029	<i>Rhodosporidium lusitaniae</i>	<i>Rhodotorula ferulica</i>
5570 ←IAM 6063	8547 <sup>T</sup> ←CBS 7604	8231 <sup>T</sup> ←IGC 4524
5571 ←IAM 6065	11639 ←PYCC 4599	<i>Rhodotorula foliorum</i>
5577 ←IAM 6006	11640 ←PYCC 4642	1696 <sup>T</sup> ←CBS 5234
5578 ←IAM 6010	<i>Rhodosporidium paludigenum</i>	<i>Rhodotorula fragaria</i>
5579 ←IAM 6022	10292 <sup>T</sup> ←IFO 10547	3930 <sup>T</sup> ←CBS 6254
5580 ←IAM 6036	10293 ←IFO 10548	<i>Rhodotorula futronensis</i>
5581 ←IAM 6049	11595 ←CBS 4477	9029 <sup>T</sup> ←CBS 8163
5582 ←IAM 6061	11596 ←CBS 6565	<i>Rhodotorula glutinis</i>
5583 ←IAM 6067	<i>Rhodosporidium sphaerocarpum</i>	3772 ←S. Goto YK 103
5584 ←IAM 6256	3791 ←S. Goto YK 221	3773 ←S. Goto YK 106
5597 ←IAM 6254	8202 <sup>T</sup> ←IAM 12261	5949 ←K. Tokuoka 13-40A
12785 ←K. Nagao KO-4011	9055 ←IFO 1939	5950 ←K. Tokuoka 13-40B
12786 ←K. Nagao KO-4013	10294 ←IFO 1438	8164 ←IAM 12959
14556 ←NBRC 31005	10904 ←T. Nagahama SY-103	8165 ←IAM 12961
14625 ←CBS 111718	<i>Rhodosporidium toruloides</i>	8166 ←IAM 12962
22492 ←IAM 6241	10020 ←IFO 0559	8167 ←IAM 12263
22497 ←IAM 6257	10021 ←IFO 0880	8168 ←IAM 12965
23018 ←IAM 14560	10022 ←IFO 1236	8173 ←IAM 04686
23019 ←IAM 14561	10049 ←IFO 0388	8208 <sup>T</sup> ←IAM 14113
<i>Rhizopus pseudochinensis</i>	10295 ←IFO 10032	10894 ←T. Nagahama SY-52
5585 ←IAM 6042	10296 ←IFO 10034	10895 ←T. Nagahama SY-58
<i>Rhizopus semarangensis</i>	10297 <sup>T</sup> ←IFO 8766	10896 ←T. Nagahama SY-75
5590 ←IAM 6251	10298 ←IFO 8767	10897 ←T. Nagahama SY-94
<i>Rhizopus stolonifer</i> var. <i>stolonifer</i>	10301 ←IAM 12256	<i>Rhodotorula graminis</i>
5575 ←IAM 6021	11635 ←KCTC 7833	3775 <sup>T</sup> ←S. Goto YK 121
5576 ←IAM 6023	22145 ←IAM 13469	8170 ←IAM 12887
<i>Rhizostilbella hibisci</i>	<i>Rhodotorula acheniorum</i>	<i>Rhodotorula hinnulea</i>
8209 ←G. Okada OFC 3848	8976 <sup>T</sup> ←MUCL 30452	9030 <sup>T</sup> ←CBS 8079
8210 ←G. Okada OFC 3849	10320 <sup>T</sup> ←IFO 10052	<i>Rhodotorula hordeae</i>
8956 ←G. Okada OFC 1433	<i>Rhodotorula acuta</i>	3932 <sup>T</sup> ←CBS 6403
<i>Rhodosporidium azoricum</i>	1602 <sup>T</sup> ←IAM 12496	<i>Rhodotorula hyophilis</i>
11251 <sup>T</sup> ←IGC 5062	9494 ←IAM 13114	1805 <sup>T</sup> ←AJ 14315
11252 ←IGC 5084	<i>Rhodotorula araucaeiae</i>	<i>Rhodotorula ingeniosa</i>
11634 ←KCTC 17083	3770 <sup>T</sup> ←S. Goto YK 161	9031 <sup>T</sup> ←CBS 4240
<i>Rhodosporidium babjevae</i>	14530 ←H. S. Vishniac LoBar95 Y18	11637 ←KCTC 17089
9279 <sup>T</sup> ←VKM Y-2275	<i>Rhodotorula arctica</i>	11638 ←KCTC 17090
9280 ←VKM Y-2276	13290 <sup>T</sup> ←DBVPG 7841	<i>Rhodotorula javanica</i>
9281 ←VKM Y-1310	13291 ←DBVPG 7842	9032 <sup>T</sup> ←CBS 5236
9282 ←VKM Y-1629	13292 ←DBVPG 7843	<i>Rhodotorula lactosa</i>
9283 ←VKM Y-1631	<i>Rhodotorula armeniaca</i>	1546 <sup>T</sup> ←IFO 1423
<i>Rhodosporidium diobovatum</i>	8977 <sup>T</sup> ←MUCL 30459	1547 ←IFO 1424
3786 ←S. Goto YK 223	<i>Rhodotorula aurantiaca</i>	<i>Rhodotorula lamellibrachii</i>
3787 <sup>T</sup> ←S. Goto YK 225	3771 <sup>T</sup> ←S. Goto YK 100	10907 <sup>T</sup> ←T. Nagahama SY-89
3907 ←K. Komagata YK 108	8163 ←IAM 12956	<i>Rhodotorula laryngis</i>
10290 ←IFO 0688	<i>Rhodotorula auriculariae</i>	14275 ←H. S. Vishniac Col812-HSR

184		14276	←H. S. Vishniac Col812-HSR	Y-12651
	<i>Rhodotorula lignophila</i>	170		
9033 <sup>T</sup>	←CBS 7109			
	<i>Rhodotorula lysiniphila</i>			
5951 <sup>T</sup>	←K. Tokuoka 19-CA			
	<i>Rhodotorula marina</i>			
3776	←S. Goto YK 125			
8105	←IAM 12231			
	<i>Rhodotorula minuta</i>			
3777 <sup>T</sup>	←S. Goto YK 126			
3778	←S. Goto YK 128			
3779	←S. Goto YK 137			
3780	←S. Goto YK 138			
3781	←S. Goto YK 160			
8098	←IAM 12969			
8099	←IAM 12970			
8100	←IAM 12971			
8101	←IAM 12972			
8102	←IAM 12973			
8103	←IAM 12974			
8104	←IAM 12975			
10898	←T. Nagahama SY-84			
10900	←T. Nagahama SY-90			
10953	←CBS 5695			
11697	←CBS 2221			
	<i>Rhodotorula mucilaginosa</i>			
3782	←S. Goto YK 139			
3783	←S. Goto YK 141			
3784	←S. Goto YK 152			
3785	←S. Goto YK 155			
8108	←IAM 12981			
8109	←IAM 12982			
8112	←IAM 12985			
8113	←IAM 12986			
8115 <sup>T</sup>	←IAM 12988			
8116	←IAM 12989			
8117	←IAM 12991			
8118	←IAM 12992			
8169	←IAM 12966			
10902	←T. Nagahama SY-93			
10903	←T. Nagahama SY-100			
22118	←IAM 12983			
22119	←IAM 12984			
22122	←IAM 12987			
	<i>Rhodotorula muscorum</i>			
1697 <sup>T</sup>	←CBS 6921			
	<i>Rhodotorula nothofagi</i>			
9034 <sup>T</sup>	←CBS 8166			
	<i>Rhodotorula philyla</i>			
3933 <sup>T</sup>	←CBS 6272			
	<i>Rhodotorula phylloplana</i>			
9035 <sup>T</sup>	←CBS 8073			
	<i>Rhodotorula pilati</i>			
9036 <sup>T</sup>	←CBS 7039			
	<i>Rhodotorula pinicola</i>			
11746 <sup>T</sup>	←AS 2.2193			
11747	←AS 2.2239			
11748	←AS 2.2233			
	<i>Rhodotorula pustula</i>			
3934 <sup>T</sup>	←CBS 6527			
	<i>Rhodotorula rubra</i>			
21966	←IAM 12232			
	<i>Rhodotorula sonckii</i>			
3935 <sup>T</sup>	←CBS 6713			
	<i>Rhodotorula</i> sp.			
8162	←IAM 12995			
		14276	←H. S. Vishniac Col812-HSR	Y-12651
		170		
			<i>Rhodotorula vanillica</i>	
			9741 <sup>T</sup> ←IGC 4506	
			<i>Rhodotorula yakutica</i>	
			10701 <sup>T</sup> ←VKM Y-2837	
			<i>Rhodotorula yarrowii</i>	
			8232 <sup>T</sup> ←IGC 4525	
			<i>Rhytidhysteron rufulum</i>	
			14423 ←K. Tanaka KTC 1909	
			<i>Rogersiomyces okefenokeensis</i>	
			10951 ←ATCC 36118	
			<i>Rosellinia aquila</i>	
			22697 ←IAM 13143	
			<i>Roussou_u(e)lla hysteroides</i>	
			13126 ←Y. Harada KTC 1651	
			<i>Roussou_u(e)lla pustulans</i>	
			13127 ←Y. Harada KTC 1709	
			<i>Roussoellopsis tosaensis</i>	
			13128 ←Y. Harada KTC 1659	
			<i>Saccharomyces bayanus</i>	
			7258 <sup>T</sup> ←C. P. Kurtzman NRRL Y-12624	
			<i>Saccharomyces cerevisiae</i>	
			1499 ←AJ 4002	
			1817 ←AJ 4001	
			1818 ←AJ 4007	
			1819 ←AJ 4008	
			2214 ←IAM 04125	
			2215 ←IAM 04140	
			2216 ←IAM 04919	
			2217 ←IAM 04954	
			2219 ←IAM 12234	
			2220 ←IAM 04861	
			2222 ←IAM 12239	
			2223 ←IAM 04206	
			2327 ←Kyokai No. 6	
			2328 ←Kyokai No. 7	
			2329 ←Kyokai No. 701	
			2330 ←Kyokai No. 9	
			2331 ←Kyokai No. 15	
			2985 ←M. Suzuki T-6	
			3529 ←M. Suzuki T-34	
			3530 ←M. Suzuki T-35	
			3532 ←M. Suzuki T-37	
			3533 ←M. Suzuki T-38	
			3548 ←M. Suzuki T-55	
			3559 ←M. Suzuki T-67	
			3563 ←M. Suzuki T-72	
			3582 ←M. Suzuki T-91	
			5710 ←NCYC 1066	
			5917 ←K. Tokuoka 83-25A	
			5918 ←K. Tokuoka 89-25A	
			7255 <sup>T</sup> ←C. P. Kurtzman NRRL Y-12632	
			17248 ←J. Hiramatsu K-7u-9	
			17249 ←J. Hiramatsu Kyokai7-IAR6	
			21857 ←IAM 04178	
			21972 ←IAM 12238	
			21974 ←IAM 12240	
			21976 ←IAM 12242	
			21984 ←IAM 12251	
			21985 ←IAM 12252	
			21998 ←IAM 12266	
			<i>Saccharomyces kluyveri</i>	
			7257 <sup>T</sup> ←C. P. Kurtzman NRRL	
			<i>Saccharomyces paradoxus</i>	
			10612 ←G. I. Naumov 49-1A	
			10613 ←G. I. Naumov 46-1A	
			10614 ←G. I. Naumov 44-1A	
			10615 ←G. I. Naumov 43-2A	
			10616 ←G. I. Naumov 42-1B	
			<i>Saccharomyces pastorianus</i>	
			7256 ←C. P. Kurtzman NRRL Y-12693	
			<i>Saccharomyces</i> sp.	
			2456 ←S. Kato Y-485	
			2457 ←S. Kato Y-486	
			2458 ←S. Kato Y-487	
			2459 ←S. Kato Y-488	
			2460 ←S. Kato Y-489	
			<i>Saccharomyces unisporus</i>	
			22016 ←IAM 12494	
			<i>Saccharomyces ludwigii</i>	
			21977 ←IAM 12243	
			<i>Saccharomycopsis capsularis</i>	
			3682 ←AJ 4271	
			7619 <sup>T</sup> ←S. Goto TH-24	
			<i>Saccharomycopsis crataegensis</i>	
			1700 <sup>T</sup> ←NRRL Y-5902	
			1701 ←NRRL Y-5904	
			7614 <sup>T</sup> ←S. Goto TH-18	
			7615 ←S. Goto TH-19	
			<i>Saccharomycopsis fibuligera</i>	
			3558 ←M. Suzuki T-66-1	
			3584 ←M. Suzuki T-93	
			7609 <sup>T</sup> ←S. Goto TH-14	
			7610 ←S. Goto TH-15	
			7611 ←S. Goto TH-16	
			7612 ←S. Goto TH-17	
			<i>Saccharomycopsis javanensis</i>	
			3707 <sup>T</sup> ←AJ 5603	
			<i>Saccharomycopsis malanga</i>	
			7620 <sup>T</sup> ←S. Goto TH-25	
			<i>Saccharomycopsis selenospora</i>	
			7616 <sup>T</sup> ←S. Goto TH-21	
			<i>Saccharomycopsis synnaedendra</i>	
			7607 <sup>T</sup> ←S. Goto TH-11	
			<i>Saccharomycopsis vini</i>	
			7623 <sup>T</sup> ←S. Goto TH-20	
			<i>Sagenoma viride</i>	
			23168 ←IAM 14797	
			<i>Sagenomella alba</i>	
			23159 ←IAM 14788	
			<i>Sagenomella bohemica</i>	
			23160 ←IAM 14789	
			<i>Sagenomella diversispora</i>	
			23119 ←IAM 14695	
			23161 ←IAM 14790	
			23162 ←IAM 14791	
			<i>Sagenomella griseoviridis</i>	
			23120 ←IAM 14696	
			23163 ←IAM 14792	
			23174 ←IAM 14811	
			<i>Sagenomella humicola</i>	
			23164 ←IAM 14793	
			<i>Sagenomella oligospora</i>	
			23152 ←IAM 14764	
			23153 ←IAM 14765	
			23154 ←IAM 14766	
			<i>Sagenomella sclerotialis</i>	

23165 ←IAM 14794	<i>Schwanniomyces capriottii</i>	8445 ←Y. Kitani 9 (g8)
<i>Sagenomella striatispora</i>	1629 <sup>T</sup> ←IAM 04977	8446 ←Y. Kitani 10 (g9)
23166 ←IAM 14795	6177 <sup>T</sup> ←CBS 2923	8447 ←Y. Kitani 11 (g10)
<i>Sagenomella verticillata</i>	<i>Schwanniomyces etchellsii</i>	8448 ←Y. Kitani 12 (g11)
23167 ←IAM 14796	3656 <sup>T</sup> ←AJ 5083	8449 ←Y. Kitani 13 (g12)
<i>Saitoella complicata</i>	<i>Schwanniomyces occidentalis</i>	var. 8450 ←Y. Kitani 14 (g13)
7358 <sup>T</sup> ←IAM 12963	<i>occidentalis</i>	8451 ←Y. Kitani 15 (g14)
7359 ←IAM 12964	8123 <sup>T</sup> ←CBS 819	8452 ←Y. Kitani 16 (g15)
<i>Sakaguchia dacryoidea</i>	<i>Schwanniomyces occidentalis</i>	var. 8453 ←Y. Kitani 23a (g16)
3795 <sup>T</sup> ←S. Goto YK 231	<i>persoonii</i>	8454 ←Y. Kitani 23b (g20)
3796 ←S. Goto YK 232	8127 <sup>T</sup> ←CBS 2169	8455 ←Y. Kitani 24 (g24)
10312 ←CBS 6355	<i>Schwanniomyces polymorphus</i>	var. 8456 ←Y. Kitani 25 (g25)
10313 ←CBS 6356	<i>africanus</i>	8457 ←Y. Kitani 26 (g28)
10314 ←CBS 6357	7443 <sup>T</sup> ←J. P. van der Walt H-13	8458 ←Y. Kitani 27 (g31)
10315 ←CBS 7142	<i>Schwanniomyces polymorphus</i>	var. 8459 ←Y. Kitani 28 (g17)
10316 ←CBS 7999	<i>polymorphus</i>	8460 ←Y. Kitani 29 (g21)
<i>Sakaguchia dacryoidea</i>	3647 ←AJ 5071	8461 ←Y. Kitani 30 (g32)
22176 ←IAM 13562	<i>Schwanniomyces pseudopolymorphus</i>	8462 ←Y. Kitani 31a (g18)
<i>Saprochaete ingens</i>	3652 <sup>T</sup> ←AJ 5081	8463 ←Y. Kitani 31b (g19)
9471 <sup>T</sup> ←IFO 10057	<i>Schwanniomyces vanrijiae</i>	8464 ←Y. Kitani 32a (g22)
9617 <sup>T</sup> ←CBS 4603	3657 <sup>T</sup> ←AJ 5545	8465 ←Y. Kitani 32b (g23)
<i>Saprochaete japonica</i>	<i>Schwanniomyces vanrijiae</i> var. <i>yarrowii</i>	8466 ←Y. Kitani 33 (g27)
2451 <sup>T</sup> ←AJ 4895	6190 <sup>T</sup> ←CBS 6246	8467 ←Y. Kitani 34a (g29)
<i>Saprochaete suaveolens</i>	<i>Schwanniomyces yamadae</i>	8468 ←Y. Kitani 34b (g30)
2450 ←AJ 4888	6191 <sup>T</sup> ←CBS 7035	8469 ←Y. Kitani 35a (g35)
<i>Sarocladium oryzae</i>	<i>Sclerographium fuligineum</i>	8470 ←Y. Kitani 35b (g36)
12450 ←S. Ōmura	13424 ←G. Okada OFC 5323	8471 ←Y. Kitani 36a (g37)
<i>Sarophorum palmicola</i>	14517 ←G. Okada OFC 5350	8472 ←Y. Kitani 36b (g38)
13644 ←G. Okada OFC 5331	<i>Scopulariopsis brevicaulis</i>	8473 ←Y. Kitani 37b (g40)
<i>Saturnispora ahearnii</i>	2619 ←Y. Sugiyama 82-49	8474 ←Y. Kitani 38a (g41)
10726 <sup>T</sup> ←NRRL Y-7555	3893 ←Y. Sugiyama 82-50	8475 ←Y. Kitani 38b (g41)
<i>Saturnispora dispora</i>	3894 ←Y. Sugiyama 82-51	8476 ←Y. Kitani 39 (g33)
1795 <sup>T</sup> ←AJ 5304	3895 ←Y. Sugiyama 82-52	8477 ←Y. Kitani 40 (g34)
<i>Saturnispora saitoi</i>	3896 ←Y. Sugiyama 82-53	8478 ←Y. Kitani 50
1793 <sup>T</sup> ←K. Kodama LKB 060	3897 ←Y. Sugiyama 82-55	8479 ←Y. Kitani 90-1 (i2)
1794 ←AJ 14088	3898 ←Y. Sugiyama 83-160	8480 ←Y. Kitani 90-2 (i3)
<i>Saturnispora zaruensis</i>	11063 ←G. Okada OFC 5262	8481 ←Y. Kitani 90-3 (i4)
1515 <sup>T</sup> ←AJ 4142	<i>Scytalidium flavobrunneum</i>	8482 ←Y. Kitani 90-4 (i5)
<i>Scedosporium prolificans</i>	6268 ←CBS 244.59	8483 ←Y. Kitani 90-5 (i6)
9000 ←MUCL 18141	<i>Seimatosporium botan</i>	8484 ←Y. Kitani 90-6 (i7)
<i>Scheffersomyces segobiensis</i>	12837 ←Y. Harada SH 4619	8485 ←Y. Kitani 90-7 (i8)
10740 <sup>T</sup> ←IFO 10546	<i>Sepedonium chlorinum</i>	8486 ←Y. Kitani 90-8 (i9)
<i>Scheffersomyces spartinae</i>	15812 ←T. Tokiwa KS 98020	8487 ←Y. Kitani 90-9 (i10)
10741 <sup>T</sup> ←IFO 1827	15813 ←T. Tokiwa KS 99086	8488 ←Y. Kitani 90-10 (i11)
<i>Scheffersomyces stipitis</i>	15814 ←T. Tokiwa KS 08177	8489 ←Y. Kitani 91a (i12)
10742 <sup>T</sup> ←IFO 1687	<i>Septofusidium herbarum</i>	8490 ←Y. Kitani 91b (i13)
<i>Schizoblastosporion starkeyi-henricii</i>	23121 ←IAM 14698	8491 ←Y. Kitani 91c (i14)
11408 <sup>T</sup> ←IFO 10842	<i>Sesquicillium canderabrum</i>	8492 ←Y. Kitani 92a (i15)
11409 ←IFO 10843	9871 ←Y. Takamura Y48	8493 ←Y. Kitani 92b (i16)
<i>Schizosaccharomyces japonicus</i>	<i>Shiraia bambusicola</i>	8494 ←Y. Kitani 92c (i17 =i7)
6803 ←Y. Yamada	1879 ←J. Sugiyama #82-176	8495 ←Y. Kitani 92d (i18)
6804 ←Y. Yamada	<i>Simplicillium lamellicolle</i>	8496 ←Y. Kitani 93a (i19)
6805 ←Y. Yamada	23124 ←IAM 14701	8497 ←Y. Kitani 94 (i21)
8263 <sup>T</sup> ←IFO 1607	<i>Sirobasidium magnum</i>	8498 ←Y. Kitani 95a (i22)
8264 <sup>T</sup> ←IFO 1609	6876 ←CBS 6803	8499 ←Y. Kitani 95b (i23)
<i>Schizosaccharomyces octosporus</i>	6877 ←CBS 6804	8500 ←Y. Kitani 95c (i24)
1801 ←AJ 14272	6878 ←CBS 6805	<i>Sorosporium formosanum</i>
5919 ←K. Tokuoka 37-CB	6879 ←CBS 6806	1764 ←J. Sugiyama #83-073
8261 <sup>T</sup> ←IFO 10373	6880 ←CBS 6964	<i>Speiropsis hyalospora</i>
<i>Schizosaccharomyces pombe</i>	<i>Sordaria fimicola</i>	9757 ←IFO 9081
1846 ←AJ 14275	8439 ←Y. Kitani 1 (A <sub>1</sub> isolate)	<i>Speiropsis pedatospora</i>
5920 ←K. Tokuoka 57-50B	8440 ←Y. Kitani 2 (g2)	9758 ←IFO 6802
8262 ←IFO 1608	8441 ←Y. Kitani 4 (g4)	9759 ←IFO 8859
8274 <sup>T</sup> ←CBS 356	8442 ←Y. Kitani 5	9864 ←Y. Takamura Y6
21876 ←IAM 04863	8443 ←Y. Kitani 6 (g26)	<i>Sphacelotheca pamparam</i>
21877 ←IAM 04879	8444 ←Y. Kitani 8 (g7)	2007 ←J. Sugiyama #83-087

<i>Sphaerulina myriadea</i>	8773 <sup>T</sup> ←T. Nakase NZ-105
15565 ←K. Tanaka KTC 2243	
<i>Spicellum roseum</i>	5354 <sup>T</sup> ←CBS 8080
10014 ←DAOM 209012	
<i>Spicellum</i> sp.	<i>Sporobolomyces falcatus</i>
8964 ←K. Yamanaka MLH-O	6838 <sup>T</sup> ←T. Nakase NB-264
8965 ←G. Okada OFC 4254	
10407 ←S. Tsunoda	<i>Sporobolomyces foliicola</i>
<i>Spiromastix</i> sp.	5355 <sup>T</sup> ←CBS 8075
11276 ←M. Sugiyama FS51	
<i>Spirosphaera floriformis</i>	<i>Sporobolomyces fushanensis</i>
8982 ←G. Okada OFC 4261	12422 <sup>T</sup> ←M. Takashima
8983 ←G. Okada OFC 4263	
9272 ←Y. Tsurumi rkt92	<i>Sporobolomyces gracilis</i>
9273 ←Y. Tsurumi rkt257	2963 <sup>T</sup> ←CBS 71
<i>Splanchnonema argus</i>	8771 ←T. Nakase NZ-46
12847 ←Y. Harada YO-03-26	
13152 ←Y. Harada KTC 1753a	<i>Sporobolomyces griseoflavus</i>
13153 ←Y. Harada KTC 1756	5653 <sup>T</sup> ←T. Nakase NB-176
<i>Splanchnonema mori</i>	7259 ←T. Nakase NB-210
12846 ←Y. Harada KTC 1724-1	7260 ←T. Nakase NB-232
<i>Sporidiobolus johnsonii</i>	7499 ←T. Nakase TA-71
1840 <sup>T</sup> ←UCD 68-29	<i>Sporobolomyces inositophilus</i>
5296 ←IFO 1034	5654 <sup>T</sup> ←T. Nakase NB-172
6142 ←M. Yoshizawa 13	7261 ←R. J. Bandoni 7584-B-2
6147 ←M. Yoshizawa 26	7262 ←R. J. Bandoni 7584-B-5
<i>Sporidiobolus microsporus</i>	7263 ←R. J. Bandoni 7585-8
6882 <sup>T</sup> ←CBS 7041	7264 ←R. J. Bandoni 7582-2
<i>Sporidiobolus pararoseus</i>	<i>Sporobolomyces kluuyveriniellii</i>
3765 ←H. Fujii	6356 <sup>T</sup> ←CBS 7168
5350 ←CBS 484	
5351 ←CBS 499	<i>Sporobolomyces koalae</i>
<i>Sporidiobolus ruineniae</i>	15063 <sup>T</sup> ←K. Makimura strain lum
1839 <sup>T</sup> ←UCD 67-67	15098 ←K. Makimura strain mary
8097 ←CBS 5811	15099 ←K. Makimura strain sanae
14528 ←H. S. Vishniac LoBar95 Y5	<i>Sporobolomyces lactophilus</i>
<i>Sporidiobolus salmonicolor</i>	7594 ←R. J. Bandoni 7586-SS-8
1841 <sup>T</sup> ←UCD 68-371	7595 <sup>T</sup> ←R. J. Bandoni 7586-SS-1
8246 ←IAM 12249	7596 ←R. J. Bandoni 7586-SS-3
10905 ←T. Nagahama SY-71	7597 ←R. J. Bandoni 7586-SS-4
21990 ←IAM 12258	<i>Sporobolomyces lactosus</i>
22149 ←IAM 13473	8510 <sup>T</sup> ←CCY 19-21-1
22150 ←IAM 13474	<i>Sporobolomyces linderae</i>
<i>Sporobolomyces alborubescens</i>	8856 <sup>T</sup> ←T. Nakase NB-214
5352 <sup>T</sup> ←CBS 482	<i>Sporobolomyces lophatheri</i>
<i>Sporobolomyces bischofiae</i>	12158 <sup>T</sup> ←M. Takashima
10338 <sup>T</sup> ←T. Nakase OK-257	<i>Sporobolomyces magnisporus</i>
<i>Sporobolomyces blumeae</i>	11898 <sup>T</sup> ←M. Takashima
10212 <sup>T</sup> ←T. Nakase and B. Fungsin	11899 ←M. Takashima
K-230	<i>Sporobolomyces marcilliae</i>
<i>Sporobolomyces carnicolor</i>	6883 <sup>T</sup> ←CBS 4217
3766 <sup>T</sup> ←H. Fujii	<i>Sporobolomyces novazealandicus</i>
<i>Sporobolomyces coprosmae</i>	8756 <sup>T</sup> ←T. Nakase NZ-41
8772 <sup>T</sup> ←T. Nakase NZ-47	8757 ←T. Nakase NZ-56
<i>Sporobolomyces coprosmicola</i>	8758 ←T. Nakase NZ-59
8767 <sup>T</sup> ←T. Nakase NZ-57	8759 ←T. Nakase NZ-60
8768 ←T. Nakase NZ-58	8760 ←T. Nakase NZ-91
<i>Sporobolomyces dimmenae</i>	8761 ←T. Nakase NZ-97
8762 <sup>T</sup> ←T. Nakase NZ-68	<i>Sporobolomyces nylandii</i>
8763 ←T. Nakase NZ-78	10213 <sup>T</sup> ←T. Nakase and B. Fungsin K-77
8764 ←T. Nakase NZ-79	10214 ←T. Nakase and B. Fungsin
8765 ←T. Nakase NZ-82	K-81
8766 ←T. Nakase NZ-111	10215 ←T. Nakase and B. Fungsin
<i>Sporobolomyces diospyroris</i>	K-105
12157 <sup>T</sup> ←M. Takashima	<i>Sporobolomyces odoratus</i>
<i>Sporobolomyces dracophyllus</i>	11641 <sup>T</sup> ←PYCC 5694
	11642 ←PYCC 5695
	11643 ←PYCC 5696
	11644 ←PYCC 5697
	11645 ←PYCC 5698
	<i>Sporobolomyces ogasawarensis</i>
	10325 ←T. Nakase OK-1
	10326 <sup>T</sup> ←T. Nakase OK-14
	10327 ←T. Nakase OK-19
	10328 ←T. Nakase OK-21
	10329 ←T. Nakase OK-38
	10330 ←T. Nakase OK-39
	10331 ←T. Nakase OK-166
	10332 ←T. Nakase OK-198
	<i>Sporobolomyces oryzicola</i>
	5299 <sup>T</sup> ←T. Nakase NO-12
	<i>Sporobolomyces phaffii</i>
	11491 <sup>T</sup> ←F.-Y. Bai CH2.052
	11492 ←F.-Y. Bai CH2.304
	<i>Sporobolomyces phyllocladis</i>
	7549 <sup>T</sup> ←CBS 7198
	<i>Sporobolomyces poonsookiae</i>
	10206 ←T. Nakase and B. Fungsin
	K-316
	10207 <sup>T</sup> ←T. Nakase and B. Fungsin
	K-335
	10208 ←T. Nakase and B. Fungsin
	K-344
	10209 ←T. Nakase and B. Fungsin
	K-346
	10210 ←T. Nakase and B. Fungsin
	K-353
	10211 ←T. Nakase and B. Fungsin
	K-362
	11514 ←T. Nakase TY-265
	11515 ←T. Nakase TY-360
	<i>Sporobolomyces pyrrosiae</i>
	12159 <sup>T</sup> ←M. Takashima
	<i>Sporobolomyces roseus</i>
	1825 ←T. Nakase NK-1
	5264 ←T. Nakase NO-3
	5265 ←T. Nakase NO-16
	5266 ←T. Nakase NO-95
	5284 ←T. Nakase NO-80
	5726 ←T. Nakase NB-175
	5727 ←T. Nakase NB-2
	5728 ←T. Nakase NB-38
	5877 ←T. Nakase B-367
	7481 ←T. Nakase NB-208
	7484 ←T. Nakase NB-235
	7488 ←T. Nakase NZ-9
	7498 ←T. Nakase TA-6
	8241 ←IAM 13479
	8242 ←IAM 13481
	8243 ←IAM 13482
	8244 ←IAM 13483
	8245 ←IAM 13490
	8317 ←IAM 13480
	<i>Sporobolomyces ruber</i>
	6884 <sup>T</sup> ←T. Nakase NB-258
	<i>Sporobolomyces salicinus</i>
	2959 ←CBS 6983
	<i>Sporobolomyces salmonicolor</i>
	5729 ←T. Nakase NB-83
	5730 ←T. Nakase NB-125
	6136 ←M. Yoshizawa 89
	<i>Sporobolomyces sasicola</i>
	5979 <sup>T</sup> ←T. Nakase NB-189
	7492 ←T. Nakase NZ-35
	<i>Sporobolomyces shibatanus</i>
	5282 ←T. Nakase NO-63
	5283 ←T. Nakase NO-174
	5731 ←T. Nakase NB-86

5732	←T. Nakase NB-106	10223	←T. Nakase and B. Fungsin	<i>Stilbella annulata</i>
7487	←T. Nakase NZ-8	K-109		9305 ←CBS 185.70
8247	←IAM 13486	10224 <sup>T</sup>	←T. Nakase and B. Fungsin	9306 ←CBS 545.84
8248	←IAM 13487	K-383		
<i>Sporobolomyces singularis</i>				<i>Stilbella clavulata</i>
5356 <sup>T</sup>	←CBS 5109			7943 ←G. Okada OFC 3664
<i>Sporobolomyces</i> sp.				<i>Stilbella jaapii</i>
13678	←L. T. Dao VY-6	6885 <sup>T</sup>	←T. Nakase NB-206	8831 ←G. Okada OFC 4029
13679	←L. T. Dao VY-7			<i>Stilbum rhoidis</i>
13686	←L. T. Dao VY-14	6887 <sup>T</sup>	←F.-Y. Bai CH2.141	8390 ←G. Okada OFC 3911
13687	←L. T. Dao VY-15	9480 <sup>T</sup>	←IFO 10013	8391 ←G. Okada OFC 3912
13688	←L. T. Dao VY-16	9481	←IFO 10188	8392 ←G. Okada OFC 3913
13689	←L. T. Dao VY-17			8393 ←G. Okada OFC 3914
13690	←L. T. Dao VY-18	9482	←IFO 1867	8394 ←G. Okada OFC 3915
13691	←L. T. Dao VY-19	9483	←IFO 10189	8395 ←G. Okada OFC 3916
13698	←L. T. Dao VY-26	9484	←IFO 10190	8419 ←G. Okada OFC 3935
13699	←L. T. Dao VY-28	9485	←IFO 10565	8420 ←G. Okada OFC 3936
13700	←L. T. Dao VY-29			9545 ←K. A. Seifert
13702	←L. T. Dao VY-31	9486 <sup>T</sup>	←IFO 10117	<i>Strossmayeria bakeriana</i>
13724	←L. T. Dao VY-53	2921	←CBS 215.79	12913 ←T. Hosoya FC-1034
13730	←L. T. Dao VY-59			<i>Symbiotaphrina buchneri</i>
13734	←L. T. Dao VY-64	2922	←CBS 959.73	9740 ←SANK 50595
13741	←L. T. Dao VY-73			<i>Symbiotaphrina kochii</i>
13742	←L. T. Dao VY-74	2916	←CBS 326.37	9739 ←SANK 50495
13749	←L. T. Dao VY-81			<i>Sympodiomyces parvus</i>
13750	←L. T. Dao VY-82	2924	←CBS 259.70	9487 <sup>T</sup> ←IFO 10132
13751	←L. T. Dao VY-83			<i>Sympodiomyces paphiopedili</i>
13756	←L. T. Dao VY-88	2925	←CBS 755.73	8318 <sup>T</sup> ←IAM 13459
13761	←L. T. Dao VY-93			<i>Synnemapestaloides rhododendri</i>
13762	←L. T. Dao VY-94	2919	←CBS 437.76	12838 ←Y. Harada TH 4556
13764	←L. T. Dao VY-96			<i>Talaromyces byssochlamydoides</i>
13765	←L. T. Dao VY-97	2920	←CBS 239.68	12801 ←NBRC 31900
13766	←L. T. Dao VY-98			12813 ←CBS 413.71
13767	←L. T. Dao VY-99	2918	←CBS 756.73	22723 ←IAM 13445
13768	←L. T. Dao VY-100			<i>Talaromyces eburneus</i>
13775	←L. T. Dao VY-107	2917	←CBS 119.81	22987 ←IAM 14455
13778	←L. T. Dao VY-110			<i>Talaromyces emersonii</i>
13779	←L. T. Dao VY-111	2915	←CBS 359.36	23024 ←IAM 14566
13781	←L. T. Dao VY-115			<i>Talaromyces flavus</i> var. <i>flavus</i>
13786	←L. T. Dao VY-121	2913	←CBS 312.77	22817 ←IAM 13768
13787	←L. T. Dao VY-123			23044 ←IAM 14614
13788	←L. T. Dao VY-124	2918	←CBS 559.73	<i>Talaromyces leycettanus</i>
13791	←L. T. Dao VY-129			12802 ←NBRC 31193
13792	←L. T. Dao VY-130	2919	←CBS 437.76	12814 ←CBS 398.68
13796	←L. T. Dao VY-134			<i>Talaromyces luteus</i>
13797	←L. T. Dao VY-135	2920	←CBS 239.68	23133 ←IAM 14714
13806	←L. T. Dao VY-146			23134 ←IAM 14715
13807	←L. T. Dao VY-147	2921	←CBS 239.68	<i>Talaromyces macrosporus</i>
13809	←L. T. Dao VY-150			22818 ←IAM 13769
13810	←L. T. Dao VY-151	2922	←CBS 239.68	22819 ←IAM 13770
<i>Sporobolomyces subbrunneus</i>				<i>Talaromyces spectabilis</i>
5278 <sup>T</sup>	←T. Nakase NO-14			12815 ←CBS 101075
<i>Sporobolomyces syzygii</i>				<i>Talaromyces stipitatus</i>
10337 <sup>T</sup>	←T. Nakase OK-227			22820 ←IAM 13772
<i>Sporobolomyces taupoensis</i>				<i>Talaromyces wortmannii</i>
8770 <sup>T</sup>	←T. Nakase NZ-42			22821 ←IAM 13773
<i>Sporobolomyces tsugae</i>				22822 ←IAM 13774
2960 <sup>T</sup>	←CBS 5038			<i>Taphrina amentorum</i>
6848	←R. J. Bandoni UBC 8016	10760	←T. Tokiwa KS 98152	9770 ←VIAM HA 872
6881	←CBS 7096			<i>Taphrina betulina</i>
7535	←CBS 7096	1822 <sup>T</sup>	←AJ 14199	9771 ←VIAM HA 835
<i>Sporobolomyces vermiculatus</i>				<i>Taphrina carnea</i>
10221	←T. Nakase and B. Fungsin	1823 <sup>T</sup>	←AJ 14199	9772 ←VIAM HA 862
K-17				<i>Taphrina cerasi</i>
10222	←T. Nakase and B. Fungsin	1824 <sup>T</sup>	←AJ 14199	9773 ←VIAM HA 863
K-90				<i>Taphrina coerulescens</i>
		6904	←IFO 10123	22206 ←IAM 14517

- 22215 ←IAM 14910  
***Taphrina communis***  
 9774 ←VIAM HA 836  
 9775 ←VIAM HA 837  
***Taphrina dearnessii***  
 9776 ←VIAM HA 838  
***Taphrina deformans***  
 9777 ←VIAM HA 839  
 9778 ←VIAM HA 855  
 22205 ←IAM 14516  
***Taphrina flavorubra***  
 22207 ←IAM 14518  
***Taphrina johansonii***  
 9779 ←VIAM HA 842  
***Taphrina letifera***  
 22193 ←IAM 14494  
***Taphrina nana***  
 9780 ←VIAM HA 867  
***Taphrina polystichi***  
 9781 ←VIAM HA 844  
***Taphrina populina***  
 9782 ←VIAM HA 846  
 22190 ←IAM 14485  
***Taphrina pruni***  
 22196 ←IAM 14498  
***Taphrina pruni-subcordatae***  
 22197 ←IAM 14502  
***Taphrina purpurascens***  
 9783 ←VIAM HA 849  
***Taphrina robinsoniana***  
 22198 ←IAM 14503  
***Taphrina tosquinetii***  
 9784 ←VIAM HA 851  
***Taphrina ulmi***  
 22199 ←IAM 14505  
***Taphrina virginica***  
 22210 ←IAM 14532  
***Taphrina wiesneri***  
 22204 ←IAM 14515  
***Tausonia pamirica***  
 10408<sup>T</sup> ←CBS 8428  
***Termitomyces* sp.**  
 11084 ←M. Ohkuma KU 408  
 11086 ←M. Ohkuma KU 410  
 11091 ←M. Ohkuma KU 423  
 11092 ←M. Ohkuma KU 424  
 11093 ←M. Ohkuma KU 425  
 11094 ←M. Ohkuma KU 426  
 11095 ←M. Ohkuma KU 427  
 11096 ←M. Ohkuma KU 428  
 11097 ←M. Ohkuma KU 429  
 11110 ←M. Ohkuma KU 444  
 11154 ←M. Ohkuma KU 420  
 11155 ←M. Ohkuma KU 422  
 11157 ←M. Ohkuma KU 434  
 11158 ←M. Ohkuma KU 454  
 11159 ←M. Ohkuma KU 455  
 11161 ←M. Ohkuma KU 457  
 11162 ←M. Ohkuma KU 458  
 11163 ←M. Ohkuma KU 460  
 11164 ←M. Ohkuma KU 461  
 13351 ←M. Ohkuma NS/Mg  
***Tetrapisispora arboricola***  
 10813<sup>T</sup> ←IFO 10925  
 10814 ←IFO 10926  
 10815 ←IFO 10927  
 10816 ←IFO 10928  
***Tetrapisispora iriomotensis***  
 10810<sup>T</sup> ←IFO 10929  
***Tetrapisispora namnacaoensis***  
 12664<sup>T</sup> ←T. Sumpradit TN1-01  
 12665 ←T. Sumpradit TN1-11  
 12666 ←T. Sumpradit TN1-16  
***Tetrapisispora nanseiensis***  
 10811<sup>T</sup> ←IFO 10899  
 10812 ←IFO 1883  
***Tetraploa* sp.**  
 14424 ←K. Tanaka KTC 1684  
***Tetraplosphaeria nagasakiensis***  
 13168 ←Y. Harada KTC 1682  
***Tetraplosphaeria sasicola***  
 13167 ←Y. Harada KTC 563  
***Thermoascus aurantiacus***  
 12816 ←CBS 396.78  
***Thermoascus crustaceus***  
 12803 ←NBRC 32239  
 12817 ←CBS 181.67  
 22724 ←IAM 13447  
***Thermoascus thermophilus***  
 12818 ←CBS 855.96  
***Thielavia terrestris***  
 23093 ←IAM 14666  
***Thielaviopsis basicola***  
 23186 ←IAM 14958  
***Tilletia barclayana***  
 2008 ←J. Sugiyama #83-088  
***Tilletia caries***  
 1761 ←J. Sugiyama #83-070  
***Tilletiopsis albescens***  
 5182<sup>T</sup> ←M. Yamazaki YK 801  
 5183 ←M. Yamazaki YK 802  
***Tilletiopsis cremea***  
 5184 ←M. Yamazaki YK 804  
***Tilletiopsis derxii***  
 10217<sup>T</sup> ←T. Nakase and B. Fungsin  
 K-125  
***Tilletiopsis flava***  
 5186 ←M. Yamazaki YK 808  
***Tilletiopsis fulvescens***  
 5187<sup>T</sup> ←M. Yamazaki YK 809  
 8705 ←T. Nakase NB-243  
 8706 ←T. Nakase NB-244  
***Tilletiopsis lilacina***  
 5188<sup>T</sup> ←M. Yamazaki YK 811  
 5189 ←M. Yamazaki YK 812  
 5190 ←M. Yamazaki YK 816  
 5289 ←T. Nakase NO-42  
 5736 ←T. Nakase NB-144  
 8501 ←CBS 358.86  
 8502 ←CBS 359.86  
***Tilletiopsis minor***  
 5185 ←M. Yamazaki YK 806  
 5229 ←M. Yamazaki YK 807  
 8361<sup>T</sup> ←CBS 543.50  
 8707 ←T. Nakase NB-248  
 8708 ←T. Nakase NB-254  
 8709 ←T. Nakase NB-256  
***Tilletiopsis oryzicola***  
 10218<sup>T</sup> ←T. Nakase and B. Fungsin  
 K-132  
***Tilletiopsis pallescens***  
 5230<sup>T</sup> ←M. Yamazaki YK 810  
 8710 ←T. Nakase NB-201  
 8711 ←T. Nakase NB-220  
***Tilletiopsis penniseti***  
 10216<sup>T</sup> ←T. Nakase and B. Fungsin  
 K-139  
***Tilletiopsis* sp.**  
 13752 ←L. T. Dao VY-84  
***Tilletiopsis washingtonensis***  
 7482 ←T. Nakase NB-209  
 7494 ←T. Nakase NZ-53  
 8362<sup>T</sup> ←CBS 544.50  
***Tingoldiago graminicola***  
 16485 ←K. Tanaka KH 68  
 16486 ←K. Tanaka KH155  
***Tolyocladium inflatum***  
 23122 ←IAM 14699  
***Tolyposporium bullatum***  
 2006 ←J. Sugiyama #83-086  
***Torulaspora delbrueckii***  
 2191 ←IAM 12833  
 2204 ←IAM 04991  
 2205 ←IAM 12236  
 5487 ←T. Nakase NK-24  
 5921 ←K. Tokuoka 89-40EA  
 5922 ←K. Tokuoka 154-CA  
 21859 ←IAM 04188  
 21888 ←IAM 04952  
 21889 ←IAM 04953  
 21975 ←IAM 12241  
***Torulaspora globosa***  
 3661 ←AJ 5461  
 5923 ←K. Tokuoka 26-40A  
***Torulaspora pretoriensis***  
 3662 ←AJ 5059  
***Trematosphaeria biappendiculata***  
 12849 ←Y. Harada KTC 1124-1  
 12850 ←Y. Harada KTC 975-1  
***Trematosphaeria crassiseptata***  
 12848 ←Y. Harada KTC 474-7  
***Tremella aurantia***  
 11327 ←IFO 9287  
***Tremella brasiliensis***  
 11328 ←IFO 9289  
***Tremella encephala***  
 11329 ←IFO 9293  
***Tremella foliacea***  
 11330 ←IFO 9297  
***Tremella fuciformis***  
 11331 ←IFO 8990  
***Tremella mesenterica***  
 11333 ←IFO 9301  
***Tremella samoensis***  
 11334 ←IFO 9319  
***Tremella* sp.**  
 11332 ←IFO 32520  
***Tremella subanomala***  
 11335 ←IFO 9308  
***Tretopileus sphaerophorus***  
 10092 ←G. Okada OFC 5172  
 13641 ←G. Okada OFC 5329  
***Trichocoma paradoxa***  
 23032 ←IAM 14601  
 23033 ←IAM 14602  
***Trichoderma aureoviride***  
 23184 ←IAM 14953  
***Trichoderma crassum***

Animal  
Plant  
Cell  
DNA  
JCM  
Info

9900 ←T. Aoki TA AR0255	16639 ←M. Kawasaki KMU6748	10690 <sup>T</sup> ←W. J. Middelhoven 6DG-301
<i>Trichoderma ghanense</i>	16640 ←M. Kawasaki KMU6749	<i>Trichosporon inkin</i>
22678 ←IAM 13109	16641 ←M. Kawasaki KMU6750	9195 <sup>T</sup> ←CBS 5585
<i>Trichoderma hamatum</i>	16642 ←M. Kawasaki KMU6751	9197 ←ATCC 34899
1875 ←Y. Doi D.5309c	16643 ←M. Kawasaki KMU6752	9198 ←ATCC 36450
<i>Trichoderma harzianum</i>	16644 ←M. Kawasaki KMU6753	<i>Trichosporon japonicum</i>
1876 ←Y. Doi D.5309e	16645 ←M. Kawasaki KMU6754	8357 <sup>T</sup> ←AJ 14673
9410 ←T. Okuda NR5502	16646 ←M. Kawasaki KMU6755	<i>Trichosporon jirovecii</i>
9411 ←T. Okuda NR6884	<i>Trichosporiella cerebriformis</i>	9935 <sup>T</sup> ←CBS 6864
9412 ←T. Okuda NR6890	2912 ←CBS 344.53	9936 ←CBS 6950
9413 ←T. Okuda NR6921	<i>Trichosporiella flavificans</i>	<i>Trichosporon laibachii</i>
<i>Trichoderma koningii</i>	1506 <sup>T</sup> ←AJ 4997	2947 <sup>T</sup> ←CBS 5790
1883 ←J. Sugiyama #82-201	<i>Trichosporiella ornithopoda</i>	9934 ←CBS 2495
<i>Trichoderma longibrachiatum</i>	2911 ←CBS 152.76	<i>Trichosporon loubieri</i>
9901 ←T. Aoki IKPS-6	<i>Trichosporiella paludigena</i>	3939 <sup>T</sup> ←CBS 7065
22677 ←IAM 13107	2910 ←CBS 212.83	<i>Trichosporon moniliiforme</i>
<i>Trichoderma polysporum</i>	<i>Trichosporon aquatile</i>	2389 <sup>T</sup> ←CBS 2467
9902 ←T. Aoki TA AR0251	3936 <sup>T</sup> ←CBS 5973	14224 ←H. S. Vishniac Col812-HSR
23182 ←IAM 14951	3937 ←CBS 5988	150
<i>Trichoderma pseudokoningii</i>	<i>Trichosporon asahii</i>	14225 ←H. S. Vishniac Col812-K 163
23183 ←IAM 14952	1809 ←AJ 5121	<i>Trichosporon montevideense</i>
<i>Trichoderma reesei</i>	1810 ←AJ 5153	9937 <sup>T</sup> ←CBS 6721
22676 ←IAM 13106	2466 <sup>T</sup> ←CBS 2479	9938 ←CBS 8261
<i>Trichoderma saturnisporum</i>	2939 ←CBS 2497	<i>Trichosporon mucoides</i>
1884 ←J. Sugiyama #82-202	2943 ←CBS 5286	9939 <sup>T</sup> ←CBS 7625
<i>Trichoderma</i> sp.	<i>Trichosporon asteroides</i>	<i>Trichosporon ovoides</i>
15366 ←J. Sugiyama TBK-6	2394 ←CBS 6183	9940 <sup>T</sup> ←CBS 7556
15367 ←J. Sugiyama K5225-1-1	2937 <sup>T</sup> ←CBS 2481	<i>Trichosporon porosum</i>
15368 ←J. Sugiyama K5225-3-1	9196 ←ATCC 22432	1458 <sup>T</sup> ←CBS 2040
15369 ←J. Sugiyama K5225-3-2	10016 ←CBS 7623	<i>Trichosporon scarabaeorum</i>
15370 ←J. Sugiyama K5225-6-6	<i>Trichosporon beigelii</i>	12198 <sup>T</sup> ←W. J. Middelhoven (CBS 5601)
15371 ←J. Sugiyama K5225-17-3	2942 ←CBS 4829	<i>Trichosporon siamense</i>
15372 ←J. Sugiyama K5225-18-3	2944 ←CBS 5581	12478 <sup>T</sup> ←S. Jindamorakot and T. Nakase ST-318
15373 ←J. Sugiyama T4519-2-6	<i>Trichosporon brassicace</i>	<i>Trichosporon smithiae</i>
15374 ←J. Sugiyama T4519-2-7	1599 <sup>T</sup> ←AJ 4833	12195 <sup>T</sup> ←W. J. Middelhoven (CBS 8370)
15375 ←J. Sugiyama T4519-2-8	<i>Trichosporon coremiiforme</i>	<i>Trichosporon</i> sp.
15376 ←J. Sugiyama T4519-5-7	2938 <sup>T</sup> ←CBS 2482	1533 ←AJ 4815
15377 ←J. Sugiyama T4519-7-5	<i>Trichosporon cutaneum</i>	1534 ←AJ 4827
15378 ←J. Sugiyama T4519-10-5	1462 <sup>T</sup> ←CBS 2466	1549 ←IFO 0116
15379 ←J. Sugiyama T4519-10-6	2936 ←CBS 2480	1808 ←AJ 14072
15380 ←J. Sugiyama TBK-1	2940 ←CBS 2545	2390 ←CBS 2468
15381 ←J. Sugiyama TBK-3	14226 ←H. S. Vishniac Col812-K 123	2391 ←CBS 2469
15382 ←J. Sugiyama TBT-5	<i>Trichosporon debeurmannianum</i>	2392 ←CBS 2470
15383 ←J. Sugiyama TBT-7	11168 <sup>T</sup> ←T. Sugita	2393 ←CBS 2477
<i>Trichoderma virens</i>	11169 ←T. Sugita	<i>Trichosporon terricola</i>
22446 ←IAM 5061	<i>Trichosporon dehoogii</i>	11688 <sup>T</sup> ←T. Sugita M9900
23181 ←IAM 14950	12196 <sup>T</sup> ←W. J. Middelhoven (CBS 8686)	11689 ←T. Sugita M9952
<i>Trichophyton mentagrophytes</i>	<i>Trichosporon dermatis</i>	11690 ←T. Sugita M9953
15690 ←M. Kawasaki KMU6069	11170 <sup>T</sup> ←T. Sugita	<i>Trichosporon vadense</i>
15691 ←M. Kawasaki KMU6070	<i>Trichosporon domesticum</i>	12194 <sup>T</sup> ←W. J. Middelhoven (CBS 8901)
15692 ←M. Kawasaki KMU6071	9580 <sup>T</sup> ←T. Shinoda M 9401	<i>Trichosporon veenhuusii</i>
15693 ←M. Kawasaki KMU6072	<i>Trichosporon dulcitum</i>	10691 <sup>T</sup> ←W. J. Middelhoven Mint-301
15694 ←M. Kawasaki KMU6073	2945 ←CBS 5785	<i>Trichosporon wieringae</i>
16626 ←M. Kawasaki KMU6068	2946 ←CBS 5786	12201 <sup>T</sup> ←W. J. Middelhoven (CBS 8903)
16627 ←M. Kawasaki KMU6333	3938 ←CBS 5787	<i>Trichothecium roseum</i>
16628 ←M. Kawasaki KMU6334	10017 <sup>T</sup> ←CBS 8257	6037 ←G. Okada OFC 2017
16629 ←M. Kawasaki KMU6335	<i>Trichosporon faecale</i>	7951 ←G. Okada OFC 3546
16630 ←M. Kawasaki KMU6336	2941 <sup>T</sup> ←CBS 4828	7952 ←G. Okada OFC 3547
16631 ←M. Kawasaki KMU6339	<i>Trichosporon gamsii</i>	9870 ←F. Sugawara FURA f A 1-1
16632 ←M. Kawasaki KMU6340	9941 <sup>T</sup> ←CBS 8245	23185 ←IAM 14954
16633 ←M. Kawasaki KMU6343	12197 <sup>T</sup> ←W. J. Middelhoven (CBS 8245)	<i>Trigonopsis variabilis</i>
16634 ←M. Kawasaki KMU6345	<i>Trichosporon gracile</i>	1823 <sup>T</sup> ←AJ 4876
16635 ←M. Kawasaki KMU6744	3681 ←AJ 14197	<i>Trimorphomyces papilionaceus</i>
16636 ←M. Kawasaki KMU6745	3940 ←CBS 6861	9899 ←T. Aoki
16637 ←M. Kawasaki KMU6746	10018 <sup>T</sup> ←CBS 8189	11071 ←G. Okada OFC 5270
16638 ←M. Kawasaki KMU6747	<i>Trichosporon guehoeae</i>	

11072	←G. Okada OFC 5271		13747	←L. T. Dao VY-79		<i>leptobactrum)</i>
<i>Triplosphaeria acuta</i>			13748	←L. T. Dao VY-80		<i>Verticillium lecanii</i>
13171	←Y. Harada KTC	1170	13757	←L. T. Dao VY-89		23125 ←IAM 14702
( <i>Didymella yezoensis</i> )			13758	←L. T. Dao VY-90		<i>Verticillium leptobactrum</i>
<i>Triplosphaeria cylindrica</i>			13760	←L. T. Dao VY-92		23126 ←IAM 14703
13169	←Y. Harada KTC 1256		13777	←L. T. Dao VY-109		<i>Virgatospora echinofibrosa</i>
14425	←K. Tanaka KTC 1800		13780	←L. T. Dao VY-113		9128 ←G. Okada OFC 4351
<i>Triplosphaeria maxima</i>			13785	←L. T. Dao VY-119		<i>Volutella ciliata</i>
13172	←Y. Harada KTC 870		13789	←L. T. Dao VY-126		9201 ←K. Nagai FA161
<i>Trochophora simplex</i>			13793	←L. T. Dao VY-131		23130 ←IAM 14708
6038	←G. Okada OFC 1237		13795	←L. T. Dao VY-133		<i>Wallemia sebi</i>
6039	←G. Okada OFC 1238		13798	←L. T. Dao VY-136		8329 ←G. Okada OFC 3891
<i>Tsuchiyaea wingfieldii</i>			13808	←L. T. Dao VY-148		11230 ←IFO 9644
7368 <sup>T</sup>	←IFO 10204		14104	←H. S. Vishniac Ice99-3TxM		11231 ←UAMH 2757
<i>Tubercularia lateritia</i>		Y39				11323 ←IFO 4438
8183	←G. Okada OFC 3726					11324 ←IFO 5992
8211	←G. Okada OFC 3850					11325 ←IFO 6668
8212	←G. Okada OFC 3851					11326 ←IFO 32277
<i>Tubeufia helicoma</i>						11389 ←G. Okada OFC 5275
2739	←N. Amano #A-600					11453 ←CBS 196.56
<i>Tulasnella irregularis</i>						11506 ←G. Okada OFC 5276
9996	←CBS 574.83					11507 ←G. Okada OFC 5277
<i>Udeniomycetes megalosporus</i>						<i>Wallrothiella subiculosa</i>
5269 <sup>T</sup>	←T. Nakase NO-6					23118 ←IAM 14694
5270	←T. Nakase NO-20					<i>Warcupiella spinulosa</i>
5271	←T. Nakase NO-59					2270 ←S. Udagawa NHL 2824
5273	←T. Nakase NO-102					2358 ←ATCC 16919
5274	←T. Nakase NO-168					23046 ←IAM 14616
5711	←T. Nakase NB-1					<i>Wardomyces anomalous</i>
5712	←T. Nakase NB-85					1938 ←J. Sugiyama #83-056
5870	←T. Nakase NB-79					<i>Wardomyces pulvinatus</i>
<i>Udeniomycetes pannonicus</i>						1939 ←J. Sugiyama #83-057
11145 <sup>T</sup>	←T. Nakase HY-16					<i>Wardomyces simplex</i>
11146	←T. Nakase HY-29					1937 ←J. Sugiyama #83-055
11148	←T. Nakase HY-111					<i>Wickerhamia fluorescens</i>
11149	←T. Nakase HY-186					1821 <sup>T</sup> ←AJ 4285
<i>Udeniomycetes piricola</i>						<i>Wickerhamiella domercqiae</i>
2958 <sup>T</sup>	←CBS 6754					9478 <sup>T</sup> ←IFO 1857
2962	←CBS 6982					<i>Wickerhamomyces chaumieriensis</i>
5268	←T. Nakase NO-108					17246 <sup>T</sup> ←M. Groenewald CBS 8565
5717	←T. Nakase NB-155					<i>Wickerhamomyces patagonicus</i>
7489	←T. Nakase NZ-10					16381 <sup>T</sup> ←D. Libkind CRUB 1724
7497	←T. Nakase TA-19					<i>Williopsis californica</i>
8249	←UBC 8076					3600 ←AJ 5033
<i>Udeniomycetes puniceus</i>						3605 ←AJ 5346
1535 <sup>T</sup>	←AJ 4764					3606 ←AJ 5347
<i>Ulocladium atrum</i>						<i>Williopsis mucosa</i>
6040	←G. Okada OFC 109					6808 <sup>T</sup> ←Y. Yamada
<i>Ulocladium consortiale</i>						6809 ←Y. Yamada
1940	←J. Sugiyama #83-074					6814 <sup>T</sup> ←Y. Yamada
1941	←J. Sugiyama #83-075					<i>Williopsis salicorniae</i>
<i>Uncinocarpus reesii</i>						10744 <sup>T</sup> ←IFO 10733
23141	←IAM 14751					<i>Williopsis saturnus</i> var. <i>mrakii</i>
<b>Unidentified fungus</b>						3614 <sup>T</sup> ←AJ 5041
12827	←G. Okada OFC 4343					<i>Williopsis saturnus</i> var. <i>saturnus</i>
13870	←A. Tonouchi RB-1					1826 ←T. Nakase NK-25
15384	←J. Sugiyama K5225-10-5					3594 ←AJ 5030
15385	←J. Sugiyama K5225-14-1					3595 ←AJ 5594
15386	←J. Sugiyama K5225-14-2					3596 ←AJ 5595
<b>Unidentified yeast</b>						3623 ←AJ 4176
13673	←L. T. Dao VY-1					3624 <sup>T</sup> ←AJ 5047
13684	←L. T. Dao VY-12					9398 ←T. Nakase
13685	←L. T. Dao VY-13					<i>Williopsis saturnus</i> var. <i>subsufficiens</i>
13701	←L. T. Dao VY-30					3625 <sup>T</sup> ←AJ 5229
13725	←L. T. Dao VY-54					3626 ←AJ 5230
13736	←L. T. Dao VY-66					<i>Xanthophyllomyces dendrorhous</i>
			23138	←IAM 14728	( <i>Verticillium</i>	

9042 ←IFO 10129	8056 ←S. Goto TH-39	22060 ←IAM 12879
9680 ←VKM Y-2274	8057 ←S. Goto TH-40	22061 ←IAM 12880
9681 <sup>T</sup> ←VKM Y-2786	8058 ←S. Goto TH-41	<b>Zygosaccharomyces siamensis</b>
9682 ←VKM Y-2788	8059 ←S. Goto TH-42	16825 <sup>T</sup> ←S. Saksinchai HB 61
9683 ←VKM Y-2790	8060 <sup>T</sup> ←S. Goto TH-43	16826 ←S. Saksinchai HB 67
9684 ←VKM Y-2793	8061 ←S. Goto TH-53	16827 ←S. Saksinchai HB 69
<b>Yamadazyma scolyti</b>	21884 ←IAM 04947	16828 ←S. Saksinchai HB 73
3654 <sup>T</sup> ←AJ 5073	21924 ←IAM 12188	16829 ←S. Saksinchai HB 137 <sup>T</sup>
8046 <sup>T</sup> ←S. Goto TH-30	<b>Zasmidium cellare</b>	16830 ←S. Saksinchai SB 140
8047 ←S. Goto TH-29	11499 ←IFO 4842	<b>Zygosporium chartarum</b>
<b>Yamadazyma triangularis</b>	11699 ←T. Mitsui C14	17056 ←CBS 384.53
2379 <sup>T</sup> ←AJ 4710	<b>Zygoascus hellenicus</b>	<b>Zygosporium echinosporum</b>
9449 <sup>T</sup> ←IFO 0836	1508 ←AJ 5000	11115 ←M. Ohkuma KU 416
<b>Yarrowia lipolytica</b>	1698 ←CBS 5839	11116 ←M. Ohkuma KU 417
1694 ←CBS 2071	9479 ←IFO 10246	17044 ←MUCL 9818
2304 ←AJ 14103	9625 ←CBS 4099	17057 ←CBS 550.93
2305 ←AJ 14102	<b>Zygosaccharomyces bisporus</b>	<b>Zygosporium masonii</b>
2320 <sup>T</sup> ←AJ 14101	2218 ←IAM 12235	9872 ←Y. Takamura Y14 <sup>'</sup>
8049 ←S. Goto TH-32	<b>Zygosaccharomyces florentinus</b>	17045 ←MUCL 41178
8050 ←S. Goto TH-33	2221 ←IAM 12493	17058 ←CBS 557.73
8051 ←S. Goto TH-34	<b>Zygosaccharomyces mrakii</b>	<b>Zygosporium mycophilum</b>
8052 ←S. Goto TH-35	1800 <sup>T</sup> ←AJ 14265	17047 ←MUCL 35014
8053 ←S. Goto TH-36	<b>Zygosaccharomyces rouxii</b>	<b>Zygosporium oscheoides</b>
8054 ←S. Goto TH-37	2325 ←S. Goto CK-1	17060 ←CBS 556.73
8055 ←S. Goto TH-38	5924 ←K. Tokuoka 38-40A	

#### (4) 酵母樣藻類 (YEAST-LIKE ALGAE)

<b>Prototheca cutis</b>	<b>Prototheca stagnora</b>
15793 <sup>T</sup> ←K. Makimura strain asahi57	9641 ←CBS 605.66
<b>Prototheca eriobotryae</b>	9642 ←CBS 606.66
8556 ←K. Tubaki PCNB 107	<b>Prototheca thermodurica</b>
<b>Prototheca moriformis</b>	8557 ←K. Tubaki PCNB 108
9345 ←IFO 6995	<b>Prototheca wickerhamii</b>
9640 ←CBS 480.71	9348 ←IFO 6997
9729 ←CBS 611.66	9643 ←CBS 157.74
<b>Prototheca portoricensis</b> var. <i>ciferrii</i>	9644 ←CBS 344.82
9346 ←IFO 6994	9645 ←CBS 608.66

<b>Prototheca zopfii</b>
9349 ←IFO 6998
9350 ←IFO 7532
9351 ←IFO 7533
9353 ←IFO 7535
9354 ←IFO 7536
9400 ←T. Nakase
9646 ←CBS 609.66

