Table S2 Summary of dataset-II

Source	Strain ID (accession number)	References
Amedibacterium intestinale JCM 30884 DNA, complete genome	AP019695.1	[1]
Acaryochloris marina MBIC11017, complete genome	CP000828.1	[2]
Acetobacter aceti JCM20276 DNA, complete genome	AP023326.1	[3]
Acetobacter aceti NBRC 14818 DNA, complete genome	AP023410.1	[4]
Acetobacter pasteurianus subsp. paradoxus strain LMG 1591 plasmid unnamed1, complete sequence	CP015169.1	[5]
Acetobacter orientalis FAN1 DNA, complete genome	AP018515.1	[6]
Acetobacter oryzifermentans strain dm chromosome, complete genome	CP022374.1	[7]
Acetobacter sp. SLV-7, complete genome	CP011120.1	[8]
Acetobacter oryzoeni strain B6 chromosome, complete genome	CP042808.1	[9]
Acetobacter pasteurianus strain CICC 22518 plasmid pAP22518-1, complete sequence	CP039845.1	[10]
Acetobacter pasteurianus IFO 3283-01 plasmid pAPA01-011 DNA, complete genome	AP011122.1	[11]
Acetobacter pomorum strain BDGP5 chromosome, complete genome	CP023657.1	[12]
Acetobacter sp. JWB chromosome, complete genome	CP030871.1	[13]
Acetobacter tropicalis strain BDGP1 chromosome, complete genome	CP022699.1	[14]
Complete chromosome Acholeplasma palmae	FO681347.1	[15]
Achromobacter denitrificans strain FDAARGOS_786 chromosome, complete genome	CP053987.1	[16]
Achromobacter sp. AONIH1 chromosome, complete genome	CP026124.1	[17]
Acidaminococcus fermentans DSM 20731, complete genome	CP001859.1	[18]

Acidianus ambivalens strain LEI 10 chromosome**,** complete genome	CP045482.1	[19]
Acidiphilium cryptum JF-5 plasmid pACRY02, complete sequence	CP000690.1	[20]
Acidipropionibacterium virtanenii strain JS278 chromosome**,** complete genome	CP025198.1	[21]
Acidithiobacillus caldus ATCC 51756**,** complete genome	CP005986.1	[22]
Acidobacteria bacterium Mor1 sequence	CP011806.1	[23]
Acidovorax avenae subsp. avenae strain INDB2 chromosome	CP028292.1	[24]
Acidovorax cattleyae strain CAT98_1 chromosome	CP028290.1	[24]
Acidovorax sp. JS42**,** complete genome	CP000539.1	[25]
Aciduliprofundum boonei T469**,** complete genome	CP001941.1	[26]
Acinetobacter baumannii genome assembly R2091, chromosome: I	LN997846.1	[27]
Acinetobacter baumannii strain 11W359501 chromosome	CP041035.1	[28]
Acinetobacter sp. ADP1 complete genome	CR543861.1	[29]
Acinetobacter bereziniae strain GD0320 chromosome, complete genome	CP066121.1	[30]
Acinetobacter chinensis strain WCHAc010005 chromosome, complete genome	CP032134.1	[31]
Acinetobacter guillouiae DNA, complete geonome, strain: NBRC 110550	AP014630.1	[32]
Acinetobacter haemolyticus strain 2126ch chromosome, complete genome	CP031991.1	[33]
Acinetobacter indicus strain FS42-2 chromosome, complete genome	CP046595.1	[34]
Acinetobacter johnsonii strain E10B chromosome, complete genome	CP059080.1	[35]
Acinetobacter larvae strain BRTC-1 chromosome, complete genome	CP016895.1	[36]
Acinetobacter piscicola strain YH12207_T chromosome, complete genome	CP048659.1	[37]
Acinetobacter radioresistens strain DD78 chromosome, complete genome	CP038022.1	[38]
Acinetobacter seifertii strain AS11 chromosome, complete genome	CP061678.1	[39]

Acinetobacter soli strain GFJ2, complete genome	CP016896.1	[40]
Acinetobacter sp. 10FS3-1 chromosome, complete genome	CP039143.1	[41]
Acinetobacter ursingii M3 DNA, chromosome 1, complete genome	AP018824.1	[42]
Acinetobacter venetianus strain TUST-DM21 chromosome, complete genome	CP060161.1	[43]
Acinetobacter wuhouensis strain WCHA60 chromosome, complete genome	CP031716.1	[44]
Actinobacillus equuli strain NCTC9435 genome assembly, chromosome: 1	LR134486.1	[45]
Actinobacillus indolicus strain AIFJ1607 chromosome, complete genome	CP038145.1	[46]
Actinobacillus lignieresii strain NCTC10568 genome assembly, chromosome: 1	LR134169.1	[47]
Actinobacillus pleuropneumoniae strain KL 16 chromosome, complete genome	CP022715.1	[48]
Actinomyces gaoshouyii strain pika_114 chromosome, complete genome	CP020468.1	[49]
Actinomyces israelii strain NCTC12972 genome assembly, chromosome: 1	LR134357.1	[50]
Actinomyces naeslundii DNA, complete genome	AP017894.1	[51]
Actinomyces oris strain FDAARGOS_1051 chromosome, complete genome	CP066060.1	[52]
Actinomyces sp. Marseille-P2985 strain Marseille-P2985T genome assembly, chromosome: contig00001	LT635457.1	[53]
Actinomyces sp. Chiba101 DNA, complete genome	AP017896.1	[54]
Actinotignum schaalii strain CCUG 27420 chromosome, complete genome	CP008802.1	[55]
Adhaeribacter swui strain KCTC 52873 chromosome, complete genome	CP055156.1	[56]
Advenella mimigardefordensis DPN7, complete genome	CP003915.1	[57]
Aerococcaceae bacterium zg-1292 chromosome, complete genome	CP065955.1	[58]

Aerococcus christensenii strain CCUG28831, complete genome	CP014159.1	[59]
Aerococcus sanguinicola strain CCUG43001, complete genome	CP014160.1	[59]
Aerococcus urinae strain CCUG36881, complete genome	CP014161.1	[59]
Aerococcus viridans strain FDAARGOS_672 chromosome, complete genome	CP046334.1	[60]
Aeromicrobium choanae strain 9H-4 genome assembly, chromosome: 1	LT796768.1	[61]
Aeromonas caviae strain 1607-10029 chromosome, complete genome	CP047981.1	[62]
Aeromonas media strain MC64 plasmid pMC64A, complete sequence	CP047963.1	[63]
Aeromonas simiae strain A6 chromosome, complete genome	CP040449.1	[64]
Aeromonas veronii strain 17ISAe chromosome, complete genome	CP028133.1	[65]
Aeropyrum camini SY1 = JCM 12091 DNA, complete genome	AP012489.1	[66]
Aeropyrum pernix K1 DNA, complete genome	BA000002.3	[67]
Aerosticca soli DNA, complete genome	AP018560.1	[68]
Afipia sp. GAS231 genome assembly, chromosome: I	LT629703.1	[69]
Agarilytica rhodophyticola strain 017 chromosome, complete genome	CP020038.1	[70]
Agarivorans gilvus strain WH0801, complete genome	CP013021.1	[71]
Aggregatibacter actinomycetemcomitans strain 624, complete genome	CP012959.1	[72]
Aggregatibacter aphrophilus strain NCTC5906 genome assembly, chromosome: I	LR134327.1	[73]
Aggregatibacter segnis strain FDAARGOS_987 chromosome, complete genome	CP065983.1	[52]
Agrobacterium rhizogenes strain K599 chromosome 1, complete genome	CP019701.2	[74]

Agrobacterium tumefaciens strain CFBP6625 chromosome circular, complete genome	CP039910.1	[75]
Agrococcus sp. SGAir0287 chromosome, complete genome	CP027942.1	[76]
Agromyces aureus strain AR33, complete genome	CP013979.1	[77]
Akkermansia glycaniphila isolate APytT genome assembly, chromosome: I	LT629973.1	[78]
Akkermansia muciniphila isolate MGYG-HGUT-02454 genome assembly, chromosome: I	LR699001.1	[79]
Alcaligenaceae bacterium SJ-26 chromosome, complete genome	CP041732.1	[80]
Alcaligenes aquatilis strain BU33N genome	CP022390.1	[81]
Alcaligenes aquatilis strain BU33N genome, complete genome	CP032521.1	[82]
Alcanivorax dieselolei B5, complete genome	CP003466.1	[83]
Alcanivorax pacificus W11-5, complete genome	CP004387.1	[84]
Alcanivorax xenomutans strain P40, complete genome	CP012331.1	[85]
Algibacter alginicilyticus strain HZ22, complete genome	CP012898.1	[86]
Algoriphagus sp. Y33 chromosome, complete genome	CP061947.1	[86]
Alicycliphilus denitrificans strain DP3 chromosome, complete genome	CP051298.1	[87]
Alicyclobacillus acidocaldarius subsp. acidocaldarius DSM 446, complete genome	CP001727.1	[87]
Alienimonas californiensis strain CA12 chromosome	CP036265.1	[88]
Aliarcobacter faecis strain CCUG 66484 chromosome, complete genome	CP053837.1	[89]
Aliivibrio wodanis genome assembly AWOD1, chromosome : 2	LN554847.1	[90]
Alistipes sp. Marseille-P5997 genome assembly, chromosome: contig00001	LR027382.1	[90]
Alistipes onderdonkii subsp. vulgaris 3BBH6 DNA, complete genome	AP019734.1	[91]

Allochromatium vinosum DSM 180 plasmid pALVIN01, complete sequence	CP001897.1	[92]
Allokutzneria albata strain DSM 44149 genome assembly, chromosome: I	LT629701.1	[93]

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