Microbial Gene Sequences submitted to NCBI, USA: 133

Molecular characterized indigenous (native) Agriculturally Beneficial Microorganisms using partial 16S/18S *rRNA* gene/ITS sequences, deposited and published online during 2010-23 at National Center for Biotechnology Information (NCBI) Gene Bank, USA.

Sr. No.	Name	Accession No.	PGPB traits
01	*Azotobacter chroococcum* ABA 1	KF494187	Nitrogen fixers
02	*Azospirillum lipoferum* ASA 1	KR706179	
03	*Azotobacter vinelandii* AAU 11	KF494186	
04	*Azotobacter chroococcum* AAU 10 13	KF494188	
05	*Rhizobium selenitireducens* AAU M1	KF850625	
06	*Rhizobium subbaraonis* R 12	KJ598074	
07	*Rhizobium cellulosilyticum* PP16	KC787581	Nitrogen fixer cum Iron and zinc mobilizer
08	*Rhizobium pusense* AAU P16	KF888659	
09	*Rhizobium daejeonense* AAU P19	KJ 577633	
10	*Chryseobacterium indologenes* AM2	KF758545	Non rhizobial nitrogen fixing root nodule endophytes
11	*Enterobacter cloacae* ACP3	KF758546	
12	*Enterobacter cloacae* AS1	KF758544	
13	*Enterobacter ludwigii* ABG	KF758549	
14	*Klebsiella pneumonia* AG4	KF758547	
15	*Klebsiella variicola* ABG7	KF758550	
16	*Pseudomonas aeruginosa* ABG5	KF758548	
17	*Bacillus coagulans* PBA 16	KF933349	Phosphate solubilizers
18	*Bacillus tequilensis* AAU PSB 09	JX403935	
19	*Bacillus circulans* P 23	JX133239	
20	*Burkholderia cepacia* P 37	JQ322558	
21	*Burkholderia metallica* P 19	JX133238	
22	*Pseudomonas otitidis* P 8	JX133237	
23	*Pseudomonas gessardii* SSB 7	KF481916	Potash mobilizers
24	*Enterobacter cloacae* KMBC1	KF481917	
25	*Enterobacter cloacae* KMBM1	KF481918	
26	*Enterobacter cloacae* KMBB1	KF481919	
27	*Enterobacter* sp. KMBW1	KF481920	
28	*Enterobacter asburiae* AAU KMB wheat1	KJ 577634	
29	*Bacillus aerius* AAU M8	KC787582	Methane degraders
30	*Rhizobium* sp. AAU M10	KC787583	
31	*Bacillus amyloliquefaciens* AAU M14	KC855269	
32	*Bacillus subtilis* AAU M17	KC787584	
33	*Bacillus megaterium* AAU M29	KC787585	
34	*Paenibacillus illinoisensis* AAU M 17	KJ 577634	
35	*Pseudomonas aeruginosa* KPSE3	KC787580	Biocontrol agents
36	*Bacillus thuringiensis* Abt 10	KF279356	
37	*Pseudomonas fluorescens* fp 68	KJ013327	
38	*Pseudomonas aeruginosa* fp 183	KF647773	
39	*Providencia vermicola* AAU PR1	KJ161325	

40	*Pseudomonas putida* AAU PR2	KJ161326	Biocontrol agents
41	*Pseudomonas fluorescens* AAU PR3	KJ161327	
42	*Enterococcus faecium* AAU L7	KJ396073	Lactic acid bacteria, Compost, Biodegraders
43	*Lactobacillus plantarum* AAU L2	KJ396071	
44	*Bacillus coagulans* AAU L3	KJ396072	
45	*Azotobacter chroococcum* AAU A 5	KR361757	Nitrogen fixers from rice rhizosphere
46	*Rhizobium* sp. AAU A 7	KR361758	
47	*Rhizobium sphaerophysae* AAU A9	KR361759	
48	*Azotobacter* sp. AAU A 10	KR361760	
49	*Azospirillum* sp. AAU A 1	KR706177	
50	*Azospirillum oryzae* AAU A 4	KR706178	
51	*Sphingomonas aqualitis* MPR1	KX110354	PGPR & Biodegraders
52	*Bacillus endophyticus* MPR3	KX110356	
53	*Streptomyces violaceorabidus* MPR2	KX110355	
54	*Pseudomonas stutzeri* AAU PG1	KX358066	PGPR/ Biodegraders from Panchgavya
55	*Bacillus pumilus* AAU PG 2	KX358067	
56	*Acinetobacter calcoaceticus* AAU PG 3	KX358068	
57	*Acinetobacter guillouiae* AAU PG 4	KX358069	
58	*Rhizobium* sp. COA 1	KU836508	Nitrogen fixer – groundnut
59	*Rhizobium* sp. COA 2	KU836509	
60	*Bacillus tequilensis* AAU K1	MF034733	Endophytes of MAP viz. ginger, musli, turmeric, guduchi, ashwagandha
61	*Bacillus endophyticus* AAU K2	MF034734	
62	*Beijerinckia fluminensis* AAU K3	MF034735	
63	*Bacillus safensis* AAU K4	MF034736	
64	*Pseudomonas aeruginosa* AAU K5	MF034737	
65	*Staphylococcus saprophyticus* M 3	KY090784	Phyllospheric Methylotrophs from paddy
66	*Bacillus subtilis subsp. Spizizenii* M 10	KY090785	
67	*Bacillus methylotrophicus* M 15	KY090786	
68	*Acinetobacter pittii* KMB-1	MF614918	Potash mobilizers
69	*Acinetobacter oleivorans* KMB 2	MF614919	
70	*Acinetobacter baumannii* KMB 3	MF614920	
71	*Acinetobacter calcoaceticus* KMB 4	MF614921	
72	*Acinetobacter junii* KMB 5	MF614922	
73	*Rhodococcus equi AAU J1*	MH591220	Lignocellulose of rice agro waste degrading bacteria from *Beejamrut* and *Jeevamrut*
74	*Pseudomonas aeruginosa AAU J2*	MH591221	
75	*Rhodococcus pyridinivorans AAU J3*	MH591222	
76	*Bacillus cereus AAU J4*	MH591223	
77	*Bacillus safensis AAU J5*	MH591224	
78	*Bacillus safensis AAU J6*	MH591225	
79	*Bacillus australimaris AAU B1*	MH591226	
80	*Bacillus tequilensis AAU B2*	MH591227	
81	*Bacillus subtilis AAU B3*	MH591228	
82	*Pseudomonas punonensis AAU B4*	MH591229	
83	*Bacillus zhangzhouensis AAU B5*	MH591230	
84	*Methylobacterium radiotolerans* AAU PPFM B 2	MH586819	Phyllospheric methylotrophs from

85	*Methylobacterium populi* AAU PPFM C 7	MH578621	*Solanaceae* (vegetable) crops
86	*Methylobacterium radiotolerans* AAU PPFM C 17	MH578622	
87	*Methylobacterium populi* AAU PPFM C 19	MH578623	
88	*Methylobacterium populi* AAU PPFM T 2	MH578624	
89	*Pseudomonas stutzeri* AAU BDCT 1	MK801245	Biodecomposer for cotton waste
90	*Bacillus velezensis* AAU BDCT 2	MK801267	
91	*Streptomyces* sp strain AAUBC I 14	MN577354	Biocontrol of fungal disease
92	*Streptomyces asenjonii* AAUBC M 1	MN577357	
93	*Streptomyces cavourensis* AAUBC M 14	MN577358	
94	*Rhizobium phaseoli* AAU B3	MH701891	Green gram N fixer
95	*Bacillus cereus* AAU B6	MH701892	Non *Rhizobium* endophyte of green gram root nodule
96	*Bacillus tequilensis* AAU B12	MH701893	
97	*Streptomyces sp.* AAUBD M 2	MN581484	Biodecomposition of water hyacinth
98	*Streptomyces rochei* AAUBD M 10	MN581673	
99	*Streptomyces chartreusis* AAUBD M 16	MN582992	
100	*Trichoderma aggressivum* AAU PGPF 2021	MW888453	Plant Growth Promoting Fungi
101	*Aspergillus flavipes* AAU PGPF 2021	MW888450	
102	*Paenarthrobacter ureafaciens* AAUATZ 2	MZ636701	Atrazine degrading bacteria
103	*Pseudomonas taiwanensis* AAUATZ 4	MZ636704	
104	*Pseudomonas nitroreducens* AAUCP 1	MZ636705	Chlorpyrifos degrading bacteria
105	*Pseudomonas alcaligenes* AAUCP 3	MZ636709	
106	*Pseudomonas stutzeri* strain AAUPF 2	MZ636708	Profenofos degrading bacteria
107	*Pseudomonas aeruginosa* AAUPF 3	MZ636711	
108	*Brevundimonas diminuta* AAUFP 2	MZ636712	Fluopyram degrading bacteria
109	*Brevundimonas faecalis* AAUFP 4	MZ636714	
110	*Rhizobium pusense* AAUGR 421	MZ636757	Groundnut N fixer
111	*Cedecea lapagei* AAUBD SR 2	OK036957	Rice waste lignocellulolytic bacteria
112	*Bacillus cereus* AAUBD SR 5	MZ645948	
113	*Paenibacillus polymyxa* AAUBD SR 8	MZ645947	
114	*Lichtheimia ramosa* AAUBD SRF 13	MZ645944	Rice waste lignocellulolytic fungi
115	*Trichoderma amazonicum* AAUBD SRF 17	MZ645945	
116	*Talaromyces leycettanus* AAUBD SRF 20	MZ645946	
117	*Beijerinckia fluminensis* AAUZSB A6	ON080839	Zinc Solubilizing Bacteria
118	*Pseudomonas taiwanensis* AAUZSB AF2	ON080840	
119	*Pseudomonas aeruginosa* AAUZSB A2	ON080844	
120	*Bacillus spizizenii* AAUZSB B	ON080845	
121	*Bacillus tropicus* AAU SOB 1	ON127698	Sulphur Oxidizing Bacteria
122	*Beijerinckia fluminensis* AAU SOB 2	ON127700	
123	*Klebsiella variicola* AAU SOB 3	ON127847	
124	*Priestia sp.* strain AAU V1	OR287447	Native Salt tolerant PGPB
125	*Cupriavidus sp.* strain AAU V2	OR287481	
126	*Lysobacter sp.* strain AAU V8	OR287436	
127	*Chlorella sp.* strain AAUBR A	OR457668	Native heavy metal bioremediator algae
128	*Coelastrella sp.* strain AAUBR I	OR453335	

129	*Bacillus licheniformis* AAU BCM 1	OR002034	Native Biocontrol PGPR
130	*Bacillus stratosphericus* AAU BCM 2	OQ998804	
131	*Pseudomonas aeruginosa* AAU BCM 3	OQ998805	
132	*Pseudomonas azotoformans* AAU BCM 4	OQ998897	
133	*Stenotrophomonas* sp. AAU BCM 5	OQ998899	