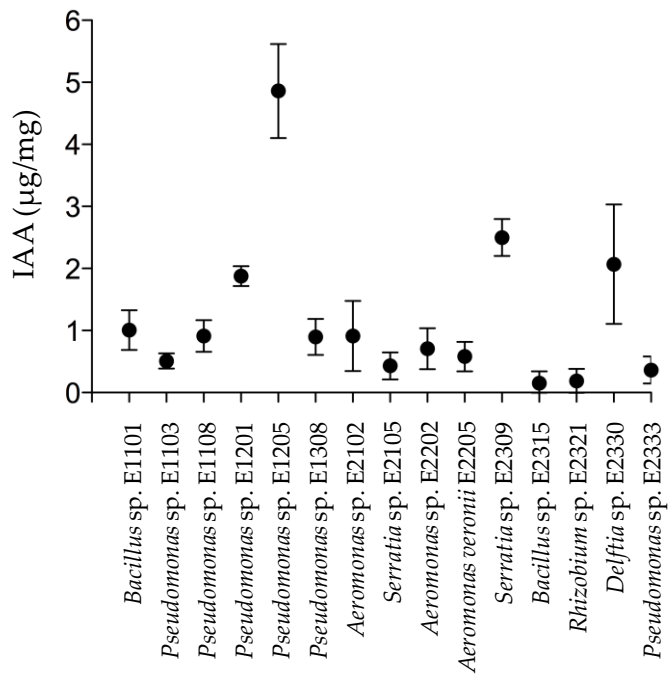
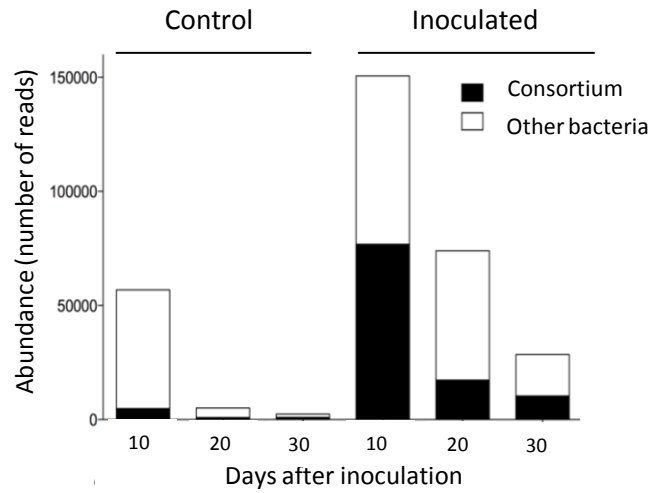


Supplementary Figure 1. Rarefaction curve. Representation of the observed number of OTUs as a function of sequences sampled.



Supplementary Figure 2. Production of indole acetic acid (IAA) by the selected isolates. The 5 days old supernatant of each bacterial culture was spectrophotometrically analyzed after the Salvkoski reaction for the presence of IAA and the parallel construction of a calibration curve. Each dot represent de average reading of three replicates and the vertical bars the standard deviation. The values correspond to micrograms of IAA by milligram of dry bacterial biomass.

B



Supplementary Figure 3. 16S library sequencing in the simplified community assay. Distribution of the bacterial reads within the samples. The total bacterial reads is plotted for every group of samples and differentiated among those sequences matched with the 10 strains used as the inoculum (consortium) and those with no match with the consortium (other bacteria). The total numbers of reads were: for control plants 10 days n=177505; 20 days n=116321; 30 days n=155680. For inoculated plants 10 days n=154155; 20 days n=174015; 30 days n=329368 reads. Control plants refer to non-inoculated plants.

Supplementary Table 1. Oligonucleotide. In red, UNITAIL 1. In green, UNITAIL 2. A C3 phosphoramidite spacer was incorporated in the 3'-end (/3SpC3/) of the blocking primers. The 10 bp barcodes are underlined.

Name	Sequence 5' – 3'	Reference
<i>First PCR round</i>		
V4 515F	CAGGACCAGGGTACGGTGTGCCAGCMGCCGCGTAA	[71]
802R	CGCAGAGAGGCTCCGTGTACNVGGGTATCTAATCC	[72]
806R	CGCAGAGAGGCTCCGTGGACTACHVGGGTWTCTAAT	[71]
MitoBlk_515F	TCCCCATGCTTTGACACCCA/ 3SpC3/	This work
ChloBlk_806R	GTCTCTAATCCCATTGCTCC/ 3SpC3/	This work
<i>Second PCR round</i>		
ION_UNI1_A_1	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>CTAAGGTAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_2	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TAAGGAGAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_3	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>AAGAGGATTCC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_4	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TACCAAGATCC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_5	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>CAGAAGGAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_6	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>CTGCAAGTTC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_7	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TTTCGTGATTCC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_8	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TTCCGATAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_9	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TGAGCGGAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_10	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>CTGACCGAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_11	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCCCTCGAATCC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_12	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TAGGTGGTTC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_13	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCTAACGGAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_14	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TTGGAGTGTC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_15	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCTAGAGGTC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_16	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCTGGATGAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_17	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCTATTCGTC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_18	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>AGGCAATTGC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_19	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TTAGTCCGAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_20	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>CAGATCCATC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_21	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TCCGAATTAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_22	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TTCCGAGACGC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_23	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>TGCCACGAAC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI1_A_24	CCATCTCATCCCTGCGTGTCTCCGACTCAG <u>AACCTCATTCC</u> CAGGACCAGGGTACGGTG	This work
ION_UNI_trP1 Rev	CCTCTATATGGGCAGTCGGTGATCGCAGAGAGGCTCCGTG	This work
<i>For 16S sequencing</i>		
fD1	AGAGTTTGATCCTGGCTCAG	Universal
rP2	ACGGCTACCTTGTACGACTT	Universal
518F	CCAGCAGCCGCGTAATACG	Universal
800R	TACCAGGGTATCTAATCC	Universal

Supplementary table 2. List of bacterial genera identified. For the rhizospheres (R) of Pionero 2010 FL (Pionero) and DANAC SD20A (SD20A) had 175530 and 49374 reads respectively. The endorhizospheres (E) had 81171 and 49374 reads, respectively.

	Genus	R	R	E	E
		Pionero	SD20A	Pionero	SD20A
1	g__s__	0.018	0.000	0.000	0.000
2	g__4-29_s__	0.009	0.057	0.000	0.000
3	g__A17_s__	0.003	0.000	0.000	0.000
4	g__Abiotrophia_s__	0.000	0.001	0.000	0.000
5	g__Achromobacter_s__	0.003	0.000	0.084	0.009
6	g__Acidovorax_Other	0.002	0.000	0.003	0.000
7	g__Acidovorax_s__	0.256	0.033	0.165	0.000
8	g__Acidovorax_s__delafieldii	0.004	0.000	0.002	0.000
9	g__Acidovorax_s__facilis	0.000	0.000	0.001	0.000
10	g__Acinetobacter_s__	0.036	0.002	0.122	0.087
11	g__Acinetobacter_s__johnsonii	0.000	0.002	0.000	0.000
12	g__Acinetobacter_s__lwoffii	0.004	0.000	0.030	0.103
13	g__Acinetobacter_s__rhizosphaerae	0.015	0.000	0.000	0.000
14	g__Actinobacillus_Other	0.001	0.003	0.000	0.000
15	g__Actinotalea_s__	0.000	0.000	0.000	0.005
16	g__Adhaeribacter_s__	0.002	0.026	0.000	0.000
17	g__Aeromonas_Other	0.000	0.000	0.000	0.000
18	g__Aeromonas_s__caviae	0.001	0.000	0.011	0.002
19	g__Aggregatibacter_s__	0.000	0.002	0.000	0.031
20	g__Agrobacterium_Other	0.000	0.000	0.002	0.000
21	g__Agrobacterium_s__	0.179	0.077	2.459	0.472
22	g__Agrobacterium_s__undicola	0.000	0.000	0.239	0.000
23	g__Agrobacterium_s__vitis	0.000	0.000	0.001	0.000
24	g__Alcanivorax_s__	0.000	0.001	0.000	0.000
25	g__Algoriphagus_s__terrigena	0.000	0.079	0.000	0.221
26	g__Amaricoccus_s__	0.002	0.000	0.000	0.003
27	g__Aminobacter_s__	0.000	0.007	0.000	0.000
28	g__Amorphomonas_s__oryzae	0.000	0.001	0.000	0.000
29	g__Anaerococcus_s__	0.000	0.004	0.000	0.000
30	g__Anaerolinea_s__	0.005	0.006	0.000	0.000
31	g__Anaeromyxobacter_s__	0.080	0.094	0.000	0.000
32	g__Anaerovorax_s__	0.000	0.000	0.000	0.001
33	g__Ancylobacter_s__	0.033	0.000	0.000	0.007
34	g__Antarctobacter_s__	0.000	0.000	0.000	0.005
35	g__Aquaspirillum_s__putridiconchylium	0.000	0.031	0.000	0.000
36	g__Aquicella_s__	0.005	0.002	0.000	0.000
37	g__Aquimarina_s__	0.000	0.000	0.000	0.020
38	g__Aquimonas_s__	0.000	0.001	0.000	0.000
39	g__Arenimonas_s__	0.047	0.381	0.000	0.000
40	g__Arthrobacter_Other	0.005	0.000	0.000	0.000
41	g__Arthrobacter_s__psychrolactophilus	0.029	0.000	0.000	0.000
42	g__Arthronema_s__	0.000	0.004	0.000	0.000
43	g__Aspromonas_s__composti	0.000	0.001	0.000	0.000
44	g__Asticcacaulis_Other	0.000	0.000	0.001	0.000
45	g__Asticcacaulis_s__	0.000	0.007	0.515	0.477
46	g__Azospira_s__	0.000	0.001	0.000	0.000
47	g__Azospirillum_s__	0.000	0.001	0.205	0.008
48	g__Azospirillum_s__massiliensis	0.000	0.000	0.326	0.119

49	g__Bacillus_Other	0.000	0.000	0.018	0.000
50	g__Bacillus_s__	0.002	0.001	0.000	0.001
51	g__Bacillus_s__cereus	0.009	0.001	0.000	0.000
52	g__Bacteroides_s__	0.000	0.004	0.000	0.000
53	g__Bdellovibrio_s__	0.012	0.005	0.000	0.000
54	g__Bdellovibrio_s__bacteriovorus	0.000	0.001	0.000	0.000
55	g__Blastomonas_s__	0.014	0.002	0.000	0.000
56	g__Blvii28_s__	0.000	0.001	0.000	0.000
57	g__Bosea_s__genosp.	0.000	0.000	0.045	0.002
58	g__Bradyrhizobium_s__	0.001	0.000	0.001	0.000
59	g__Brevibacillus_s__	0.000	0.000	0.015	0.000
60	g__Brevibacterium_s__aureum	0.002	0.000	0.000	0.001
61	g__Brevundimonas_Other	0.000	0.000	0.000	0.000
62	g__Brevundimonas_s__diminuta	0.000	0.004	0.047	0.000
63	g__Bulleidia_s__moorei	0.000	0.000	0.000	0.006
64	g__Burkholderia_s__	0.000	0.000	0.000	0.000
65	g__Candidatus Endobugula_s__	0.000	0.000	0.000	0.003
66	g__Candidatus Koribacter_s__	0.076	0.022	0.000	0.000
67	g__Candidatus Nitrososphaera_s__SCA1170	0.027	0.005	0.000	0.000
68	g__Candidatus Rhabdochlamydia_s__	0.001	0.000	0.030	0.000
69	g__Candidatus Solibacter_s__	0.026	0.010	0.000	0.000
70	g__Candidatus Xiphinematobacter_s__	0.020	0.001	0.050	0.000
71	g__Capnocytophaga_s__	0.000	0.000	0.000	0.003
72	g__Capnocytophaga_s__ochracea	0.000	0.001	0.000	0.000
73	g__Catonella_s__	0.000	0.000	0.000	0.002
74	g__Caulobacter_Other	0.000	0.000	0.033	0.000
75	g__Caulobacter_s__	0.000	0.001	1.224	0.923
76	g__Cellulomonas_s__	0.000	0.000	0.000	0.002
77	g__Cellvibrio_s__	0.013	0.042	14.755	5.257
78	g__Chelativorans_s__	0.001	0.000	0.000	0.000
79	g__Chryseobacterium_s__	0.023	0.002	1.093	0.000
80	g__Citrobacter_s__	0.000	0.000	0.000	0.072
81	g__Cloacibacterium_s__	0.075	0.031	0.013	0.000
82	g__Clostridium_Other	0.000	0.001	0.000	0.000
83	g__Clostridium_s__	0.000	0.002	0.000	0.000
84	g__Clostridium_s__acetobutylicum	0.000	0.002	0.000	0.000
85	g__Clostridium_s__butyricum	0.004	0.000	0.000	0.000
86	g__Clostridium_s__hungatei	0.000	0.002	0.000	0.000
87	g__Clostridium_s__intestinale	0.005	0.000	0.000	0.000
88	g__Coccinimonas_s__marina	0.014	0.000	0.000	0.000
89	g__Cohnella_s__	0.000	0.000	0.000	0.009
90	g__Comamonas_s__	0.024	0.000	0.000	0.000
91	g__Constrictibacter_s__antarcticus	0.000	0.002	0.000	0.000
92	g__Coproccoccus_s__	0.000	0.000	0.000	0.002
93	g__Corynebacterium_s__	0.021	0.003	0.002	0.037
94	g__Corynebacterium_s__kroppenstedtii	0.001	0.001	0.000	0.000
95	g__Crenothrix_s__	0.000	0.001	0.000	0.000
96	g__Crocinitomix_s__	0.000	0.000	0.052	0.000
97	g__Cryocola_s__	0.000	0.000	0.010	0.000
98	g__Cylindrospermopsis_s__	0.000	0.002	0.000	0.000

99	g_Cytophaga_s__	0.023	0.000	0.000	0.000
100	g_DA101_s__	0.010	0.000	0.000	0.000
101	g_DCE29_s__	0.003	0.000	0.000	0.000
102	g_Dechloromonas_s__	0.026	0.000	0.000	0.000
103	g_Defluviitalea_s__saccharophila	0.012	0.000	0.000	0.000
104	g_Delftia_s__	0.002	0.013	0.000	0.010
105	g_Demequina_s__	0.000	0.000	0.000	0.001
106	g_Desulfobacca_s__	0.000	0.017	0.000	0.000
107	g_Desulfobulbus_s__	0.013	0.012	0.000	0.000
108	g_Desulfococcus_s__	0.000	0.010	0.000	0.000
109	g_Desulfomicrobium_s__	0.000	0.001	0.000	0.000
110	g_Desulfomonile_s__	0.000	0.004	0.000	0.000
111	g_Desulforhabdus_s__amnigena	0.001	0.000	0.000	0.000
112	g_Desulfotalea_s__	0.000	0.002	0.000	0.000
113	g_Desulfovibrio_s__	0.002	0.006	0.000	0.000
114	g_Desulfovibrio_s__mexicanus	0.000	0.002	0.000	0.000
115	g_Desulfovibrio_s__putealis	0.010	0.002	0.000	0.000
116	g_Desulfovira_s__adipica	0.004	0.006	0.000	0.000
117	g_Devosia_s__	0.241	0.057	1.504	0.117
118	g_Dok59_s__	0.007	0.005	0.000	0.000
119	g_Dokdonella_s__	0.011	0.002	0.009	0.000
120	g_Dyadobacter_s__	0.162	0.002	0.012	0.000
121	g_Eikenella_s__	0.000	0.001	0.000	0.008
122	g_Endozoicomonas_s__montiporae	0.000	0.000	0.001	0.000
123	g_Enhydrobacter_s__	0.018	0.008	0.070	0.180
124	g_Enterobacter_s__	0.000	0.000	0.001	0.000
125	g_Epulopiscium_s__	0.012	0.000	0.000	0.000
126	g_Erythrobacter_Other	0.001	0.000	0.000	0.000
127	g_Erythrobacter_s__	0.058	0.000	0.000	0.000
128	g_Escherichia_s__coli	0.026	0.000	0.033	0.005
129	g_Euptelea_s__polyandra	0.000	0.000	0.000	0.000
130	g_Exiguobacterium_s__	0.005	0.000	0.031	0.000
131	g_Fimbriimonas_s__	0.010	0.003	0.000	0.000
132	g_Flavisolibacter_s__	0.421	0.070	0.000	0.000
133	g_Flavobacterium_Other	0.002	0.000	0.026	0.000
134	g_Flavobacterium_s__	1.669	0.039	1.483	0.585
135	g_Flavobacterium_s__frigidarium	0.000	0.000	0.000	0.001
136	g_Flavobacterium_s__gelidilacus	0.000	0.069	0.097	0.365
137	g_Flavobacterium_s__succinicans	0.012	0.021	0.179	0.181
138	g_Flectobacillus_s__	0.000	0.001	0.000	0.000
139	g_Fluviicola_s__	0.021	0.012	0.559	0.214
140	g_Francisella_s__	0.001	0.000	0.000	0.000
141	g_Fritschea_s__eriococci	0.001	0.000	0.000	0.000
142	g_Fusibacter_s__	0.010	0.003	0.000	0.000
143	g_Fusobacterium_s__	0.000	0.000	0.005	0.024
144	g_Gallionella_s__	0.020	0.067	0.000	0.000
145	g_Gemmatimonas_s__	0.000	0.002	0.000	0.000
146	g_Geobacter_s__	0.146	0.050	0.000	0.000
147	g_GOUTA19_s__	0.096	0.059	0.000	0.000
148	g_Granulicatella_s__	0.000	0.003	0.000	0.002

149	<i>g_Haemophilus_s__parainfluenzae</i>	0.002	0.016	0.000	0.002
150	<i>g_Halomonas_s__</i>	0.000	0.024	0.000	0.053
151	<i>g_Halothiobacillus_s__</i>	0.000	0.675	0.000	0.000
152	<i>g_Herbaspirillum_s__</i>	0.000	0.000	0.024	0.001
153	<i>g_HTCC_s__</i>	0.000	0.012	0.000	0.000
154	<i>g_Hydrogenophaga_s__</i>	0.085	0.033	0.012	0.009
155	<i>g_Hylemonella_s__</i>	0.002	0.000	0.000	0.000
156	<i>g_Hymenobacter_s__</i>	0.002	0.000	0.000	0.000
157	<i>g_Hyphomicrobium_Other</i>	0.000	0.001	0.000	0.000
158	<i>g_Hyphomicrobium_s__</i>	0.017	0.008	0.000	0.000
159	<i>g_Hyphomonas_s__</i>	0.000	0.003	0.000	0.000
160	<i>g_Iamia_s__</i>	0.000	0.002	0.000	0.000
161	<i>g_Janthinobacterium_s__</i>	0.007	0.000	0.003	0.005
162	<i>g_Janthinobacterium_s__lividum</i>	0.024	0.000	0.030	0.000
163	<i>g_K82_s__</i>	0.000	0.001	0.000	0.000
164	<i>g_Kaistia_s__</i>	0.000	0.002	0.000	0.002
165	<i>g_Kaistobacter_s__</i>	0.327	0.117	0.000	0.000
166	<i>g_Klebsiella_s__</i>	0.000	0.002	0.021	0.000
167	<i>g_Kocuria_s__rhizophila</i>	0.000	0.000	0.000	0.002
168	<i>g_Lacibacter_s__cauensis</i>	0.104	0.041	0.000	0.018
169	<i>g_Lactobacillus_s__zeae</i>	0.000	0.000	0.006	0.000
170	<i>g_LCP-6_s__</i>	0.015	0.036	0.000	0.000
171	<i>g_Leadbetterella_s__</i>	0.018	0.028	0.000	0.000
172	<i>g_Leptolyngbya_s__</i>	0.000	0.003	0.000	0.000
173	<i>g_Leptonema_s__</i>	0.000	0.002	0.000	0.000
174	<i>g_Leptospira_s__</i>	0.004	0.003	0.000	0.000
175	<i>g_Leptotrichia_s__</i>	0.000	0.000	0.010	0.000
176	<i>g_Leuconostoc_s__</i>	0.000	0.000	0.000	0.001
177	<i>g_Limnobacter_s__</i>	5.641	0.319	0.263	0.000
178	<i>g_Limnohabitans_s__</i>	0.001	0.001	0.006	0.000
179	<i>g_Loktanela_s__</i>	0.000	0.000	0.010	0.002
180	<i>g_Luteimonas_s__</i>	0.012	0.003	0.000	0.000
181	<i>g_Luteolibacter_s__</i>	0.006	0.002	0.168	0.001
182	<i>g_Lutibacterium_s__</i>	0.000	0.000	0.241	0.000
183	<i>g_Lutimonas_s__</i>	0.000	0.001	0.000	0.007
184	<i>g_Lysobacter_s__</i>	0.003	0.005	0.058	0.011
185	<i>g_Magnetospirillum_s__</i>	0.000	0.000	0.000	0.003
186	<i>g_Maribacter_s__</i>	0.001	0.000	0.000	0.000
187	<i>g_Marinobacter_s__</i>	0.215	0.000	0.000	0.000
188	<i>g_Marinobacter_s__bryozoorum</i>	0.001	0.000	0.000	0.000
189	<i>g_Massilia_s__haematophila</i>	0.001	0.000	0.000	0.000
190	<i>g_Mesorhizobium_s__</i>	0.000	0.004	0.000	0.000
191	<i>g_Methylibium_s__</i>	0.006	0.005	0.000	0.000
192	<i>g_Methylobacterium_s__</i>	0.006	0.001	0.000	0.000
193	<i>g_Methylomicrobium_s__</i>	0.000	0.002	0.000	0.000
194	<i>g_Methylomicrobium_s__agile</i>	0.000	0.011	0.000	0.000
195	<i>g_Methylophaga_s__</i>	0.000	0.511	0.000	0.000
196	<i>g_Methylotenera_s__mobilis</i>	2.872	0.028	0.150	0.000
197	<i>g_Methyloversatilis_s__</i>	0.039	0.053	0.002	0.006
198	<i>g_Methylovorus_s__glucosotrophus</i>	0.000	0.000	0.047	0.000

199	g_Micrococcus_s__	0.000	0.000	0.000	0.001
200	g_Microvirgula_s_aerodenitrificans	0.000	0.001	2.514	0.000
201	g_Muricola_s_jejuensis	0.000	0.000	0.013	0.000
202	g_Mycoplana_s__	0.227	0.241	0.889	0.229
203	g_Mycoplasma_s__	0.000	0.001	0.000	0.000
204	g_Myxococcus_s__	0.000	0.006	0.000	0.000
205	g_Nautella_s__	0.000	0.000	0.005	0.000
206	g_Neisseria_s__	0.017	0.004	0.000	0.011
207	g_Neisseria_s_oralis	0.000	0.001	0.000	0.000
208	g_Neisseria_s_subflava	0.000	0.015	0.000	0.007
209	g_Nevskia_s_ramosa	0.069	0.012	0.261	0.026
210	g_Niabella_s__	0.002	0.000	0.000	0.000
211	g_Niastella_s__	0.001	0.000	0.000	0.000
212	g_Nitrosomonas_s_nitrosa	0.000	0.018	0.000	0.000
213	g_Nitrosopumilus_s__	0.000	0.002	0.000	0.000
214	g_Nitrospira_s__	0.039	0.006	0.000	0.000
215	g_Novosphingobium_s__	0.066	0.007	0.166	0.019
216	g_Novosphingobium_s_capsulatum	0.006	0.000	0.000	0.000
217	g_Oceanibaculum_s_indicum	0.000	0.130	0.000	0.013
218	g_Ochrobactrum_s__	0.000	0.000	0.064	0.000
219	g-Octadecabacter_s__	0.002	0.002	0.016	0.000
220	g-Octadecabacter_s_antarcticus	0.000	0.000	0.014	0.000
221	g_Opitutus_s__	0.032	0.031	3.250	0.611
222	g_Oribacterium_s__	0.000	0.000	0.000	0.001
223	g_Paenibacillus_s__	0.000	0.000	0.000	0.002
224	g_Paludibacter_s__	0.000	0.008	0.000	0.000
225	g_Pantoea_Other	0.002	0.000	0.000	0.000
226	g_Paracoccus_s__	0.000	0.000	0.000	0.003
227	g_Paracoccus_s_marcusii	0.025	0.013	0.000	0.005
228	g_Parapedobacter_Other	0.001	0.000	0.000	0.000
229	g_Parapedobacter_s__	0.010	0.000	0.000	0.000
230	g_Parasegibacter_s_luojiensis	0.051	0.030	0.000	0.000
231	g_Pedobacter_s__	0.038	0.001	2.249	0.043
232	g_Pedobacter_s_terricola	0.000	0.000	0.023	0.000
233	g_Pedomicrobium_s__	0.000	0.005	0.000	0.000
234	g_Pedosphaera_s__	0.001	0.000	0.000	0.000
235	g_Peptostreptococcus_s__	0.000	0.000	0.002	0.005
236	g_Peredibacter_s_starrii	0.001	0.004	0.000	0.000
237	g_Phaeobacter_Other	0.000	0.001	0.000	0.000
238	g_Phaeobacter_s__	0.000	0.002	0.001	0.002
239	g_Phaeospirillum_s_fulvum	0.000	0.003	0.000	0.000
240	g_Phenylobacterium_s__	0.002	0.017	0.060	0.014
241	g_Phormidium_s__	0.000	0.001	0.047	0.008
242	g_Phycococcus_s__	0.002	0.000	0.000	0.000
243	g_Pigmentiphaga_s__	0.003	0.000	0.000	0.000
244	g_Pirellula_s__	0.011	0.017	0.000	0.000
245	g_Planctomyces_s__	0.122	0.010	0.000	0.012
246	g_Planctomyce_s_LF1	0.001	0.000	0.000	0.000
247	g_Planifilum_s__	0.000	0.001	0.000	0.000
248	g_Planktothrix_s__	0.000	0.007	0.000	0.000

249	g_Pleomorphomonas_Other	0.000	0.000	0.000	0.002
250	g_Pleomorphomonas_s__	0.000	0.000	0.568	0.027
251	g_Pleomorphomonas_s__oryzae	0.000	0.000	0.001	0.000
252	g_Plesiocystis_s__	0.000	0.002	0.000	0.000
253	g_Polaribacter_s__	0.000	0.000	0.010	0.000
254	g_Polaromonas_s__	0.000	0.001	0.000	0.000
255	g_Porphyrmonas_s__	0.000	0.003	0.000	0.012
256	g_Prevotella_s__melaninogenica	0.000	0.000	0.000	0.017
257	g_Propionivibrio_s__	0.002	0.000	0.000	0.028
258	g_Prostheco bacter_s__	0.000	0.004	0.000	0.000
259	g_Prostheco bacter_s__debontii	0.003	0.000	0.188	0.000
260	g_PSB-M-3_s__	0.000	0.002	0.000	0.000
261	g_Pseudoalteromonas_s__	0.000	0.000	0.000	0.005
262	g_Pseudomonas_Other	0.118	0.302	0.504	1.423
263	g_Pseudomonas_s__	6.566	0.224	0.139	0.124
264	g_Pseudomonas_s__alcaligenes	0.003	0.000	0.000	0.000
265	g_Pseudomonas_s__mendocina	0.001	0.000	0.006	0.000
266	g_Pseudomonas_s__nitroreducens	0.000	0.002	0.000	0.000
267	g_Pseudomonas_s__pseudoalcaligenes	0.602	0.099	10.196	0.707
268	g_Pseudomonas_s__stutzeri	0.237	0.013	0.002	0.024
269	g_Pseudomonas_s__umsongensis	0.000	0.002	0.002	0.006
270	g_Pseudomonas_s__veronii	1.395	0.386	0.115	0.293
271	g_Pseudomonas_s__viridiflava	0.013	0.000	0.190	0.000
272	g_Pseudonocardia_s__	0.015	0.000	0.000	0.000
273	g_Pseudoxanthomonas_s__	0.000	0.000	0.061	0.000
274	g_Pseudoxanthomonas_s__mexicana	0.041	0.006	0.196	0.013
275	g_Ralstonia_s__	0.000	0.000	0.036	0.000
276	g_Rheinheimera_s__	0.213	0.129	0.719	0.065
277	g_Rhodanobacter_s__lindaniclasticus	0.000	0.003	0.000	0.000
278	g_Rhodobacter_s__	0.032	0.013	0.000	0.006
279	g_Rhodococcus_s__fascians	0.160	0.000	0.000	0.000
280	g_Rhodoferax_s__	0.001	0.008	0.116	0.843
281	g_Rhodoplanes_s__	0.210	0.117	0.009	0.044
282	g_Rhodoplanes_s__elegans	0.000	0.001	0.000	0.000
283	g_Roseivivax_s__	0.000	0.000	0.067	0.000
284	g_Roseobacter_s__denitrificans	0.000	0.000	0.040	0.000
285	g_Roseomonas_s__	0.000	0.004	0.000	0.000
286	g_Rothia_s__aeria	0.000	0.001	0.000	0.000
287	g_Rothia_s__dentocariosa	0.000	0.000	0.000	0.002
288	g_Rothia_s__mucilaginoso	0.000	0.002	0.000	0.000
289	g_Rubrivivax_s__	0.010	0.003	0.000	0.000
290	g_Sandaracinobacter_s__sibiricus	0.008	0.017	0.000	0.000
291	g_Sediminibacterium_s__	0.013	0.000	0.000	0.008
292	g_Sedimicola_s__	0.004	0.000	0.000	0.000
293	g_Serratia_s__marcescens	0.003	0.000	0.000	0.000
294	g_Shewanella_Other	0.001	0.000	0.000	0.000
295	g_Shewanella_s__	0.016	0.002	1.405	0.287
296	g_Silanimonas_s__mangrovi	0.000	0.020	0.000	0.000
297	g_Sinorhizobium_s__	0.011	0.000	0.000	0.000
298	g_Sphingobacterium_s__	0.008	0.000	0.000	0.005

Supplementary table 3. Number of bacterial-derived reads for the rhizospheres (R) and endorhizospheres (E) of the two rice varieties.

	SD20A		Pionero	
	R	E	R	E
Other_Other	33	9	215	0
g_4-29_s__	185	0	31	0
g_A17_s__	0	0	11	0
g_Abiotrophia_s__	2	0	0	0
g_Achromobacter_s__	0	31	11	274
g_Acidovorax_Other	0	0	7	11
g_Acidovorax_s__	109	0	835	538
g_Acidovorax_s__delafieldii	0	0	13	6
g_Acidovorax_s__facilis	0	0	0	2
g_Acinetobacter_s__	8	284	118	399
g_Acinetobacter_s__johnsonii	5	0	0	0
g_Acinetobacter_s__lwoffii	0	335	14	97
g_Acinetobacter_s__rhizosphaerae	0	0	49	0
g_Actinobacillus_Other	9	0	2	0
g_Actinotalea_s__	0	16	0	0
g_Adhaeribacter_s__	86	0	5	0
g_Aeromonas_Other	0	0	0	0
g_Aeromonas_s__caviae	0	6	3	36
g_Aggregatibacter_s__	6	101	0	0
g_Agrobacterium_Other	0	0	0	8
g_Agrobacterium_s__	252	1542	584	8029
g_Agrobacterium_s__undicola	0	0	0	779
g_Agrobacterium_s__vitis	0	0	0	2
g_Alcanivorax_s__	3	0	0	0
g_Algoriphagus_s__terrigena	259	723	0	0
g_Amaricoccus_s__	0	9	6	0
g_Aminobacter_s__	23	0	0	0
g_Amorphomonas_s__oryzae	2	0	0	0
g_Anaerococcus_s__	13	0	0	0
g_Anaerolinea_s__	20	0	17	0
g_Anaeromyxobacter_s__	308	0	262	0
g_Anaerovorax_s__	0	2	0	0
g_Ancylobacter_s__	0	24	108	0
g_Antarctobacter_s__	0	17	0	0
g_Aquaspirillum_s__putridiconchylum	101	0	0	0
g_Aquicella_s__	5	0	15	0
g_Aquimarina_s__	0	65	0	0
g_Aquimonas_s__	2	0	0	0
g_Arenimonas_s__	1243	0	152	0
g_Arthrobacter_Other	0	0	15	0
g_Arthrobacter_s__psychrolactophilus	0	0	96	0
g_Arthronema_s__	13	0	0	0
g_Aspromonas_s__composti	2	0	0	0
g_Asticcacaulis_Other	0	0	0	3
g_Asticcacaulis_s__	23	1559	0	1681
g_Azospira_s__	2	0	0	0
g_Azospirillum_s__	3	25	0	669
g_Azospirillum_s__massiliensis	0	390	0	1065
g_Bacillus_Other	0	0	0	59

g_Bacillus_s__	4	4	8	0
g_Bacillus_s_cereus	2	0	29	0
g_Bacteroides_s__	12	0	0	0
g_Bdellovibrio_s__	17	0	39	0
g_Bdellovibrio_s_bacteriovorus	2	0	0	0
g_Blastomonas_s__	6	0	45	0
g_Blvi28_s__	2	0	0	0
g_Bosea_s_genosp.	0	8	0	147
g_Bradyrhizobium_s__	0	0	4	4
g_Brevibacillus_s__	0	0	0	48
g_Brevibacterium_s_aureum	0	2	8	0
g_Brevundimonas_Other	1	1	0	0
g_Brevundimonas_s_diminuta	13	0	0	153
g_Bulleidia_s_moorei	0	18	0	0
g_Burkholderia_s__	0	0	0	0
g_Candidatus_Endobugula_s__	0	11	0	0
g_Candidatus_Koribacter_s__	71	0	247	0
g_Candidatus_Nitrososphaera_s_SC/	16	0	89	0
g_Candidatus_Rhabdochlamydia_s__	0	0	3	99
g_Candidatus_Solibacter_s__	33	0	85	0
g_Candidatus_Xiphinematobacter_s__	4	0	64	164
g_Capnocytophaga_s__	0	9	0	0
g_Capnocytophaga_s_ochracea	3	0	0	0
g_Catonella_s__	0	7	0	0
g_Caulobacter_Other	0	0	0	108
g_Caulobacter_s__	4	3013	0	3996
g_Cellulomonas_s__	0	6	0	0
g_Cellvibrio_s__	137	17167	44	48179
g_Chelativorans_s__	0	0	3	0
g_Chryseobacterium_s__	8	1	74	3568
g_Citrobacter_s__	0	235	0	0
g_Cloacibacterium_s__	100	0	246	42
g_Clostridium_Other	3	0	0	0
g_Clostridium_s__	6	0	0	0
g_Clostridium_s_acetobutylicum	5	0	0	0
g_Clostridium_s_butyricum	0	0	13	0
g_Clostridium_s_hungatei	6	0	0	0
g_Clostridium_s_intestinale	0	0	16	0
g_Coccinimonas_s_marina	0	0	47	0
g_Cohnella_s__	0	28	0	0
g_Comamonas_s__	0	0	79	0
g_Constrictibacter_s_antarcticus	7	0	0	0
g_Coprococcus_s__	0	7	0	0
g_Corynebacterium_s__	10	120	70	8
g_Corynebacterium_s_kroppenstedti	3	0	4	0
g_Crenothrix_s__	2	0	0	0
g_Crocinitomix_s__	0	0	0	170
g_Cryocola_s__	0	0	0	33
g_Cylindrospermopsis_s__	5	0	0	0
g_Cytophaga_s__	0	0	76	0

g_DA101_s__	0	0	33	0
g_DCE29_s__	1	0	10	0
g_Dechloromonas_s__	0	0	84	0
g_Defluviitalea_s__saccharophila	0	0	39	0
g_Delftia_s__	43	34	6	0
g_Demequina_s__	0	3	0	0
g_Desulfobacca_s__	56	0	0	0
g_Desulfobulbus_s__	39	0	41	0
g_Desulfococcus_s__	34	0	0	0
g_Desulfomicrobium_s__	3	0	0	0
g_Desulfomonile_s__	12	0	0	0
g_Desulforhabdus_s__amnigena	0	0	4	0
g_Desulfotalea_s__	6	0	0	0
g_Desulfovibrio_s__	20	0	8	0
g_Desulfovibrio_s__mexicanus	6	0	0	0
g_Desulfovibrio_s__putealis	7	0	33	0
g_Desulfovirga_s__adipica	20	0	14	0
g_Devosia_s__	185	382	788	4912
g_Dok59_s__	16	0	23	0
g_Dokdonella_s__	7	0	36	31
g_Dyadobacter_s__	5	0	530	40
g_Eikenella_s__	3	26	0	0
g_Endozoicomonas_s__montiporae	0	0	0	4
g_Enhydrobacter_s__	25	588	60	227
g_Enterobacter_s__	0	0	0	2
g_Epulopiscium_s__	0	0	38	0
g_Erythrobacter_Other	0	0	2	0
g_Erythrobacter_s__	0	0	191	0
g_Escherichia_s__coli	0	15	86	108
g_Euptelea_s__polyandra	0	0	0	0
g_Exiguobacterium_s__	0	0	16	102
g_Fimbriimonas_s__	9	0	33	0
g_Flavisolibacter_s__	229	0	1373	0
g_Flavobacterium_Other	0	0	8	85
g_Flavobacterium_s__	128	1909	5450	4842
g_Flavobacterium_s__frigidarium	0	3	0	0
g_Flavobacterium_s__gelidilacus	225	1191	0	318
g_Flavobacterium_s__succinicans	68	592	40	585
g_Flectobacillus_s__	4	0	0	0
g_Fluviicola_s__	39	699	70	1824
g_Francisella_s__	0	0	2	0
g_Fritschea_s__eriococci	0	0	2	0
g_Fusibacter_s__	11	0	34	0
g_Fusobacterium_s__	0	80	0	16
g_GOUTA19_s__	194	0	313	0
g_Gallionella_s__	220	0	64	0
g_Gemmatimonas_s__	6	0	0	0
g_Geobacter_s__	162	0	478	0
g_Granulicatella_s__	10	7	0	0
g_HTCC_s__	38	0	0	0

g_Haemophilus_s__parainfluenzae	51	5	7	0
g_Halomonas_s__	78	173	0	0
g_Halothiobacillus_s__	2205	0	0	0
g_Herbaspirillum_s__	0	3	0	78
g_Hydrogenophaga_s__	108	30	276	39
g_Hylemonella_s__	0	0	8	0
g_Hymenobacter_s__	0	0	8	0
g_Hyphomicrobium_Other	2	0	0	0
g_Hyphomicrobium_s__	27	0	57	0
g_Hyphomonas_s__	10	0	0	0
g_lamia_s__	7	0	0	0
g_Janthinobacterium_s__	0	17	24	10
g_Janthinobacterium_s__lividum	0	0	78	98
g_K82_s__	4	0	0	0
g_Kaistia_s__	8	6	0	0
g_Kaistobacter_s__	381	0	1067	0
g_Klebsiella_s__	5	0	0	68
g_Kocuria_s__rhizophila	0	8	0	0
g_LCP-6_s__	116	0	50	0
g_Lacibacter_s__cauensis	134	59	341	0
g_Lactobacillus_s__zeae	0	0	0	18
g_Leadbetterella_s__	90	0	60	0
g_Leptolyngbya_s__	10	0	0	0
g_Leptonema_s__	6	0	0	0
g_Leptospira_s__	9	0	13	0
g_Leptotrichia_s__	0	0	0	34
g_Leuconostoc_s__	0	2	0	0
g_Limnobacter_s__	1042	0	18419	858
g_Limnohabitans_s__	3	0	2	18
g_Loktanelia_s__	0	7	0	34
g_Luteimonas_s__	11	0	40	0
g_Luteolibacter_s__	5	4	21	550
g_Lutibacterium_s__	0	0	0	787
g_Lutimonas_s__	3	23	0	0
g_Lysobacter_s__	16	36	10	191
g_Magnetospirillum_s__	0	10	0	0
g_Maribacter_s__	0	0	2	0
g_Marinobacter_s__	0	0	703	0
g_Marinobacter_s__bryozorum	0	0	4	0
g_Massilia_s__haematophila	0	0	2	0
g_Mesorhizobium_s__	13	0	0	0
g_Methylibium_s__	17	0	20	0
g_Methylobacterium_s__	4	0	20	0
g_Methylomicrobium_s__	8	0	0	0
g_Methylomicrobium_s__agile	37	0	0	0
g_Methylophaga_s__	1668	0	0	0
g_Methylotenera_s__mobilis	91	0	9376	490
g_Methyloversatilis_s__	174	21	127	6
g_Methylovorus_s__glucosotrophus	0	0	0	154
g_Micrococcus_s__	0	2	0	0

g_Microvirgula_s_aerodenitrificans	2	0	0	8210
g_Muricola_s_jejuensis	0	0	0	44
g_Mycoplana_s__	787	748	741	2903
g_Mycoplasma_s__	3	0	0	0
g_Myxococcus_s__	20	0	0	0
g_Nautella_s__	0	0	0	16
g_Neisseria_s__	12	37	54	0
g_Neisseria_s_oralis	3	0	0	0
g_Neisseria_s_subflava	50	24	0	0
g_Nevskia_s_ramosa	38	85	224	852
g_Niabella_s__	0	0	8	0
g_Niastella_s__	0	0	2	0
g_Nitrosomonas_s_nitrosa	59	0	0	0
g_Nitrosopumilus_s__	5	0	0	0
g_Nitrospira_s__	19	0	126	0
g_Novosphingobium_s__	23	63	215	543
g_Novosphingobium_s_capsulatum	0	0	19	0
g_Oceanibaculum_s_indicum	425	42	0	0
g_Ochrobactrum_s__	0	0	0	210
g-Octadecabacter_s__	5	0	5	52
g-Octadecabacter_s_antarcticus	0	0	0	46
g_Opitutus_s__	102	1997	105	10611
g_Oribacterium_s__	0	4	0	0
g_PSB-M-3_s__	7	0	0	0
g_Paenibacillus_s__	0	7	0	0
g_Paludibacter_s__	27	0	0	0
g_Pantoea_Other	0	0	7	0
g_Paracoccus_s__	0	9	0	0
g_Paracoccus_s_marcusii	41	16	80	0
g_Parapedobacter_Other	0	0	2	0
g_Parapedobacter_s__	0	0	34	0
g_Parasegittibacter_s_luojiensis	98	0	165	0
g_Pedobacter_s__	3	140	123	7345
g_Pedobacter_s_terricola	0	0	0	74
g_Pedomicrobium_s__	15	0	0	0
g_Pedosphaera_s__	0	0	2	0
g_Peptostreptococcus_s__	0	16	0	7
g_Peredibacter_s_starrii	12	0	2	0
g_Phaeobacter_Other	2	0	0	0
g_Phaeobacter_s__	7	5	0	4
g_Phaeospirillum_s_fulvum	9	0	0	0
g_Phenylobacterium_s__	54	45	6	196
g_Phormidium_s__	3	27	0	153
g_Phycococcus_s__	0	0	6	0
g_Pigmentiphaga_s__	0	0	11	0
g_Pirellula_s__	57	0	37	0
g_Planctomyces_s__	33	38	397	0
g_Planctomycete_s_LF1	0	0	3	0
g_Planifilum_s__	4	0	0	0
g_Planktothrix_s__	23	0	0	0

g_Pleomorphomonas_Other	0	5	0	0
g_Pleomorphomonas_s__	0	87	0	1855
g_Pleomorphomonas_s_oryzae	0	0	0	4
g_Plesiocystis_s__	5	0	0	0
g_Polaribacter_s__	0	0	0	32
g_Polaromonas_s__	4	0	0	0
g_Porphyromonas_s__	11	39	0	0
g_Prevotella_s_melaninogenica	0	55	0	0
g_Propionivbrio_s__	0	93	5	0
g_Prostheco bacter_s__	12	0	0	0
g_Prostheco bacter_s_debontii	0	0	9	615
g_Pseudoalteromonas_s__	0	15	0	0
g_Pseudomonas_Other	987	4646	385	1646
g_Pseudomonas_s__	733	406	21438	453
g_Pseudomonas_s_alcaligenes	0	0	9	0
g_Pseudomonas_s_mendocina	0	0	2	21
g_Pseudomonas_s_nitroreducens	7	0	0	0
g_Pseudomonas_s_pseudoalcaligen	322	2310	1965	33292
g_Pseudomonas_s_stutzeri	42	78	773	5
g_Pseudomonas_s_umsongensis	5	18	0	6
g_Pseudomonas_s_veronii	1262	957	4554	374
g_Pseudomonas_s_viridiflava	0	0	43	619
g_Pseudonocardia_s__	0	0	48	0
g_Pseudoxanthomonas_s__	0	0	0	200
g_Pseudoxanthomonas_s_mexicana	19	44	133	641
g_Ralstonia_s__	0	0	0	119
g_Rheinheimera_s__	421	212	696	2349
g_Rhodanobacter_s_lindaniclasticus	10	0	0	0
g_Rhodobacter_s__	42	18	104	0
g_Rhodococcus_s_fascians	0	0	524	0
g_Rhodoferax_s__	26	2754	3	379
g_Rhodoplanes_s__	381	143	686	31
g_Rhodoplanes_s_elegans	3	0	0	0
g_Roseivivax_s__	0	0	0	220
g_Roseobacter_s_denitrificans	0	0	0	129
g_Roseomonas_s__	13	0	0	0
g_Rothia_s_aeria	2	0	0	0
g_Rothia_s_dentocariosa	0	7	0	0
g_Rothia_s_mucilaginoso	7	0	0	0
g_Rubrivivax_s__	9	0	34	0
g_Sandaracinobacter_s_sibiricus	54	0	27	0
g_Sediminibacterium_s__	0	26	42	0
g_Sediminicola_s__	0	0	12	0
g_Serratia_s_marcescens	0	0	9	0
g_Shewanella_Other	0	0	3	0
g_Shewanella_s__	8	938	53	4588
g_Silanimonas_s_mangrovi	66	0	0	0
g_Sinorhizobium_s__	0	0	37	0
g_Sphingobacterium_s__	0	17	26	0
g_Sphingobacterium_s_multivorum	0	0	0	99

g_Sphingobium_s__	54	56	0	1356
g_Sphingobium_s_xenophagum	7	180	38	294
g_Sphingomonas_Other	3	0	8	0
g_Sphingomonas_s__	51	0	20	81
g_Sphingomonas_s_azotifigens	0	10	53	784
g_Sphingomonas_s_wittichii	0	34	0	0
g_Sphingomonas_s_yabuuchiae	0	0	22	0
g_Sphingopyxis_s__	0	10	26	0
g_Sphingopyxis_s_alaskensis	264	88	439	184
g_Sphingosinicella_s_microcystinivo	6	0	0	0
g_Staphylococcus_Other	0	4	0	0
g_Staphylococcus_s__	185	450	97	266
g_Staphylococcus_s_epidermidis	0	0	0	3
g_Stenotrophomonas_s__	0	10	102	167
g_Steroidobacter_s__	62	0	30	0
g_Streptococcus_s__	180	382	48	94
g_Streptococcus_s_infantis	0	0	0	2
g_Sulfuricurvum_s_kujiense	275	0	138	0
g_Sulfuritalea_s__	3	0	67	0
g_Synechococcus_s__	13	74	65	349
g_Syntrophobacter_s__	93	0	92	0
g_Syntrophomonas_s__	5	0	0	0
g_Tatlockia_s__	0	0	10	0
g_Tepidimonas_s__	32	0	0	138
g_Thermomonas_s__	58	0	566	0
g_Thiobacillus_s__	1206	0	673	0
g_Thiomonas_s__	3	0	0	0
g_Tolumonas_s__	6	0	17	0
g_Treponema_s__	4	0	0	0
g_Turneriella_s__	2	0	0	0
g_Ulvibacter_s__	0	0	0	131
g_Variovorax_s__	57	0	69	5424
g_Veillonella_s_dispar	0	23	0	0
g_Vibrio_Other	3	3	0	18
g_Vibrio_s__	31	10	6	217
g_Vogesella_s__	0	0	14	0
g_WAL_1855D_s__	3	0	0	0
g_Winogradskyella_s__	0	0	11	173
g_Winogradskyella_s_thalassocola	44	79	0	0
g_Xanthobacter_s__	0	15	0	0
g_Yersinia_s__	0	67	0	0
g_s__	0	0	60	0

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