

SUPPLEMENTARY TABLE 1. Scientific names of free-living organisms sampled in this study along with taxonomic classification and GO coverage.

#	Organism	Taxonomy	Superkingdom	GO coverage (%)
1	<i>Aeropyrum pernix K1</i>	Crenarchaeota-Desulfurococcales	Archaea	56
2	<i>Sulfolobus solfataricus P2</i>	Crenarchaeota- Sulfolobales	Archaea	52
3	<i>Sulfolobus acidocaldarius DSM 639</i>	Crenarchaeota-Sulfolobales	Archaea	54
4	<i>Thermofilum pendens Hrk 5</i>	Crenarchaeota-Thermoproteales	Archaea	53
5	<i>Pyrobaculum islandicum DSM 4184</i>	Crenarchaeota- Thermoproteales	Archaea	52
6	<i>Caldivirga maquilingensis IC-167</i>	Crenarchaeota- Thermoproteales	Archaea	58
7	<i>Metallosphaera sedula DSM 5348</i>	Crenarchaeota- Sulfolobales	Archaea	55
8	<i>Staphylothermus marinus F1</i>	Crenarchaeota- Desulfurococcales	Archaea	55
9	<i>Pyrobaculum calidifontis JCM 11548</i>	Crenarchaeota- Thermoproteales	Archaea	52
10	<i>Hyperthermus butylicus DSM 5456</i>	Crenarchaeota- Desulfurococcales	Archaea	54
11	<i>Sulfolobus islandicus L.S.2.15</i>	Crenarchaeota- Sulfolobales	Archaea	54
12	<i>Thermoproteus neutrophilus V24Sta</i>	Crenarchaeota- Thermoproteales	Archaea	51
13	<i>Desulfurococcus kamchatkensis 1221n</i>	Crenarchaeota- Desulfurococcales	Archaea	55
14	<i>Methanosphaerula palustris E1-9c</i>	Euryarchaeota- Methanomicrobia	Archaea	57
15	<i>Archaeoglobus fulgidus DSM 4304</i>	Euryarchaeota-Archaeoglobi	Archaea	56
16	<i>Natronomonas pharaonis DSM 2160</i>	Euryarchaeota-Halobacteria	Archaea	52
17	<i>Haloquadratum walsbyi DSM 16790</i>	Euryarchaeota-Halobacteria	Archaea	51
18	<i>Halobacterium salinarum R1</i>	Euryarchaeota-Halobacteria	Archaea	51
19	<i>Methanobacterium thermoautotrophicum</i>	Euryarchaeota-Methanobacteria	Archaea	58
20	<i>Methanosphaera stadtmanae DSM 3091</i>	Euryarchaeota-Methanobacteria	Archaea	61
21	<i>Methanobrevibacter smithii PS</i>	Euryarchaeota-Methanobacteria	Archaea	59
22	<i>Methanocaldococcus jannaschii DSM 2661</i>	Euryarchaeota-Methanococci	Archaea	58
23	<i>Methanococcus vanniellii SB</i>	Euryarchaeota-Methanococci	Archaea	63
24	<i>Methanococcus aeolicus Nankai-3</i>	Euryarchaeota-Methanococci	Archaea	65
25	<i>Methanococcus maripaludis C7</i>	Euryarchaeota-Methanococci	Archaea	61
26	<i>Methanosarcina mazei Go1</i>	Euryarchaeota-Methanomicrobia	Archaea	53
27	<i>Methanococcoides burtonii DSM 6242</i>	Euryarchaeota-Methanomicrobia	Archaea	58
28	<i>Methanosarcina barkeri</i>	Euryarchaeota-Methanomicrobia	Archaea	52
29	<i>Methanospirillum hungatei JF-1</i>	Euryarchaeota-Methanomicrobia	Archaea	57
30	<i>Methanosaeta thermophila PT</i>	Euryarchaeota-Methanomicrobia	Archaea	62
31	<i>Methanoculleus marisnigri JRI</i>	Euryarchaeota-Methanomicrobia	Archaea	56
32	<i>Methanocorpusculum labreanum Z</i>	Euryarchaeota-Methanomicrobia	Archaea	61
33	<i>Methanoregula boonei 6A8</i>	Euryarchaeota-Methanomicrobia	Archaea	58
34	<i>Methanopyrus kandleri AV19</i>	Euryarchaeota-Methanopyri	Archaea	56
35	<i>Pyrococcus kodakaraensis KOD1</i>	Euryarchaeota-Thermococci	Archaea	52
36	<i>Pyrococcus furiosus</i>	Euryarchaeota-Thermococci	Archaea	58
37	<i>Pyrococcus abyssi Orsay</i>	Euryarchaeota-Thermococci	Archaea	63
38	<i>Thermococcus onnurineus NA1</i>	Euryarchaeota-Thermococci	Archaea	59

39	<i>Thermococcus gammatolerans</i> EJ3	Euryarchaeota-Thermococci	Archaea	56
40	<i>Thermococcus sibiricus</i> MM 739	Euryarchaeota-Thermococci	Archaea	57
41	<i>Picrophilus torridus</i> DSM 9790	Euryarchaeota-Thermoplasmata	Archaea	66
42	<i>Thermoplasma acidophilum</i> DSM 1728	Euryarchaeota-Thermoplasmata	Archaea	61
43	<i>Thermoplasma volcanium</i> GSS1	Euryarchaeota-Thermoplasmata	Archaea	60
44	<i>Korarchaeum cryptofilum</i> OPF8	Korarchaeota	Archaea	61
45	<i>Nitrosopumilus maritimus</i> SCM1	Thaumarchaeota	Archaea	53
46	<i>Acidobacteria bacterium</i>	Acidobacteria	Bacteria	54
47	<i>Solibacter usitatus</i> Ellin6076	Acidobacteria	Bacteria	54
48	<i>Acidobacterium capsulatum</i> ATCC 51196	Acidobacteria	Bacteria	57
49	<i>Nocardioides</i> sp.	Actinobacteria	Bacteria	60
50	<i>Corynebacterium efficiens</i> TS-314	Actinobacteria	Bacteria	56
51	<i>Streptomyces avermitilis</i> MA-4680	Actinobacteria	Bacteria	57
52	<i>Rhodococcus erythropolis</i> PR4	Actinobacteria	Bacteria	59
53	<i>Mycobacterium avium</i> 104	Actinobacteria	Bacteria	59
54	<i>Nocardia farcinica</i> IFM 10152	Actinobacteria	Bacteria	54
55	<i>Rubrobacter xylanophilus</i> DSM 9941	Actinobacteria	Bacteria	68
56	<i>Kineococcus radiotolerans</i> SRS30216	Actinobacteria	Bacteria	57
57	<i>Thermobifida fusca</i> YX	Actinobacteria	Bacteria	60
58	<i>Arthrobacter aurescens</i> TC1	Actinobacteria	Bacteria	61
59	<i>Acidothermus cellulolyticus</i> 11B	Actinobacteria	Bacteria	65
60	<i>Kocuria rhizophila</i>	Actinobacteria	Bacteria	65
61	<i>Salinispora arenicola</i> CNS-205	Actinobacteria	Bacteria	58
62	<i>Saccharopolyspora erythraea</i> NRRL 2338	Actinobacteria	Bacteria	61
63	<i>Micrococcus luteus</i> NCTC 2665	Actinobacteria	Bacteria	64
64	<i>Beutenbergia cavernae</i> DSM 12333	Actinobacteria	Bacteria	64
65	<i>Gordonia bronchialis</i> DSM 43247	Actinobacteria	Bacteria	55
66	<i>Persephonella marina</i> L2TR	Aquificae	Bacteria	59
67	<i>Sulfurihydrogenibium azorense</i> Az-Fu1	Aquificae	Bacteria	64
68	<i>Aquifex aeolicus</i> VF5	Aquificae	Bacteria	67
69	<i>Cytophaga hutchinsonii</i> ATCC 33406	Bacteroidetes	Bacteria	50
70	<i>Salinibacter ruber</i> DSM 13855	Bacteroidetes	Bacteria	59
71	<i>Flavobacterium johnsoniae</i>	Bacteroidetes	Bacteria	52
72	<i>Gramella forsetii</i> KT0803	Bacteroidetes	Bacteria	52
73	<i>Pedobacter heparinus</i> DSM 2366	Bacteroidetes	Bacteria	52
74	<i>Flavobacteriaceae bacterium</i> 3519-10	Bacteroidetes	Bacteria	50
75	<i>Chlorobium limicola</i> DSM 245	Chlorobi	Bacteria	60
76	<i>Prosthecochloris aestuarii</i> DSM 271	Chlorobi	Bacteria	61
77	<i>Pelodictyon luteolum</i> DSM 273	Chlorobi	Bacteria	65
78	<i>Chlorobaculum parvum thiosulfatophilum</i>	Chlorobi	Bacteria	64
79	<i>Chloroherpeton thalassium</i>	Chlorobi	Bacteria	60
80	<i>Thermomicrobium roseum</i> DSM 5159	Chloroflexi	Bacteria	56

81	<i>Herpetosiphon aurantiacus</i> ATCC 23779	Chloroflexi	Bacteria	55
82	<i>Chloroflexus aurantiacus</i> ATCC 29366	Chloroflexi	Bacteria	62
83	<i>Roseiflexus castenholzii</i> DSM 13941	Chloroflexi	Bacteria	59
84	<i>Synechococcus elongatus</i> PCC 7942	Cyanobacteria	Bacteria	57
85	<i>Synechocystis</i> sp.	Cyanobacteria	Bacteria	52
86	<i>Prochlorococcus marinus</i> MIT 9211	Cyanobacteria	Bacteria	57
87	<i>Trichodesmium erythraeum</i> ISM101	Cyanobacteria	Bacteria	51
88	<i>Anabaena variabilis</i> ATCC 29413	Cyanobacteria	Bacteria	52
89	<i>Cyanothece</i> sp. PCC 7425	Cyanobacteria	Bacteria	50
90	<i>Deinococcus radiodurans</i> R1	Deinococcus-Thermus	Bacteria	54
91	<i>Thermus aquaticus</i> Y51MC23	Deinococcus-Thermus	Bacteria	56
92	<i>Dictyoglomus thermophilum</i> H-6-12	Dictyoglomi	Bacteria	66
93	<i>Leuconostoc mesenteroides</i> ATCC 8293	Firmicutes	Bacteria	65
94	<i>Oenococcus oeni</i> PSU-1	Firmicutes	Bacteria	66
95	<i>Oceanobacillus iheyensis</i> HTE831	Firmicutes	Bacteria	61
96	<i>Bacillus subtilis</i>	Firmicutes	Bacteria	60
97	<i>Geobacillus kaustophilus</i> HTA426	Firmicutes	Bacteria	57
98	<i>Carboxydotherrmus hydrogenoformans</i> Z-2901	Firmicutes	Bacteria	57
99	<i>Exiguobacterium sibiricum</i> 255-15	Firmicutes	Bacteria	61
100	<i>Streptococcus thermophilus</i> ATCC BAA-250	Firmicutes	Bacteria	63
101	<i>Moorella thermoacetica</i> ATCC 39073	Firmicutes	Bacteria	63
102	<i>Clostridium acetobutylicum</i> ATCC 824	Firmicutes	Bacteria	59
103	<i>Desulfotobacterium hafniense</i> DCB-2	Firmicutes	Bacteria	58
104	<i>Lactococcus lactis</i> SK11	Firmicutes	Bacteria	61
105	<i>Listeria innocua</i> Clip11262	Firmicutes	Bacteria	60
106	<i>Pediococcus pentosaceus</i> ATCC 25745	Firmicutes	Bacteria	65
107	<i>Alkaliphilus metalliredigens</i> QYMF	Firmicutes	Bacteria	56
108	<i>Coprothermobacter proteolyticus</i> DSM 5265	Firmicutes	Bacteria	64
109	<i>Syntrophomonas wolfei</i>	Firmicutes	Bacteria	59
110	<i>Thermoanaerobacter pseudethanolicus</i> ATCC 33223	Firmicutes	Bacteria	65
111	<i>Desulfotomaculum reducens</i> MI-1	Firmicutes	Bacteria	60
112	<i>Caldicellulosiruptor saccharolyticus</i> DSM 8903	Firmicutes	Bacteria	61
113	<i>Brevibacillus brevis</i> NBRC 100599	Firmicutes	Bacteria	55
114	<i>Haloferoxylum orenii</i> H 168	Firmicutes	Bacteria	65
115	<i>Lactobacillus delbrueckii</i> ATCC 11842	Firmicutes	Bacteria	62
116	<i>Staphylococcus carnosus</i>	Firmicutes	Bacteria	64
117	<i>Natranaerobius thermophilus</i> JW/NM-WN-LF	Firmicutes	Bacteria	60
118	<i>Macrococcus caseolyticus</i> JCSC5402	Firmicutes	Bacteria	64
119	<i>Blautia hydrogenotrophica</i> DSM 10507	Firmicutes	Bacteria	52
120	<i>Desulforudis audaxviator</i> MP104C	Firmicutes	Bacteria	60
121	<i>Anoxybacillus flavithermus</i> WK1	Firmicutes	Bacteria	61

122	<i>Heliobacterium modesticaldum</i> Ice1	Firmicutes	Bacteria	54
123	<i>Eubacterium bifforme</i> DSM 3989	Firmicutes	Bacteria	51
124	<i>Anaerocellum thermophilum</i> DSM 6725	Firmicutes	Bacteria	56
125	<i>Anaerococcus hydrogenalis</i> DSM 7454	Firmicutes	Bacteria	57
126	<i>Gemmatimonas aurantiaca</i>	Gemmatimonadetes	Bacteria	55
127	<i>Thermodesulfovibrio yellowstonii</i> DSM 11347	Nitrospirae	Bacteria	65
128	<i>Xanthobacter autotrophicus</i> Py2	Proteobacteria-Alpha	Bacteria	60
129	<i>Hyphomonas neptunium</i> ATCC 15444	Proteobacteria-Alpha	Bacteria	60
130	<i>Silicibacter pomeroyi</i> DSS-3	Proteobacteria-Alpha	Bacteria	63
131	<i>Rhodospseudomonas palustris</i> ATCC BAA-98	Proteobacteria-Alpha	Bacteria	62
132	<i>Zymomonas mobilis</i>	Proteobacteria-Alpha	Bacteria	58
133	<i>Rhodospirillum rubrum</i> ATCC 11170	Proteobacteria-Alpha	Bacteria	64
134	<i>Novosphingobium aromaticivorans</i> DSM 12444	Proteobacteria-Alpha	Bacteria	62
135	<i>Jannaschia</i> sp.	Proteobacteria-Alpha	Bacteria	58
136	<i>Gluconobacter oxydans</i> 621H	Proteobacteria-Alpha	Bacteria	60
137	<i>Erythrobacter litoralis</i> HTCC2584	Proteobacteria-Alpha	Bacteria	55
138	<i>Sphingopyxis alaskensis</i> RB2256	Proteobacteria-Alpha	Bacteria	61
139	<i>Paracoccus denitrificans</i> PD1222	Proteobacteria-Alpha	Bacteria	61
140	<i>Nitrobacter winogradskyi</i> Nb-255	Proteobacteria-Alpha	Bacteria	56
141	<i>Pelagibacter ubique</i> HTCC1062	Proteobacteria-Alpha	Bacteria	71
142	<i>Rhodoferax ferrireducens</i> T118	Proteobacteria-Alpha	Bacteria	63
143	<i>Magnetospirillum magneticum</i> AMB-1	Proteobacteria-Alpha	Bacteria	56
144	<i>Rhodobacter sphaeroides</i> ATCC 17029	Proteobacteria-Alpha	Bacteria	62
145	<i>Acidiphilium cryptum</i> JF-5	Proteobacteria-Alpha	Bacteria	65
146	<i>Roseobacter denitrificans</i> OCh 114	Proteobacteria-Alpha	Bacteria	59
147	<i>Granulibacter bethesdensis</i> CGDNIH1	Proteobacteria-Alpha	Bacteria	66
148	<i>Sphingomonas wittichii</i> RW1	Proteobacteria-Alpha	Bacteria	65
149	<i>Maricaulis maris</i> MCS10	Proteobacteria-Alpha	Bacteria	59
150	<i>Beijerinckia indica</i>	Proteobacteria-Alpha	Bacteria	60
151	<i>Methylocella silvestris</i> BL2	Proteobacteria-Alpha	Bacteria	58
152	<i>Dinoroseobacter shibae</i> DFL 12	Proteobacteria-Alpha	Bacteria	60
153	<i>Parvibaculum lavamentivorans</i> DS-1	Proteobacteria-Alpha	Bacteria	62
154	<i>Ochrobactrum anthropi</i> ATCC 49188	Proteobacteria-Alpha	Bacteria	62
155	<i>Methylobacterium chloromethanicum</i> CM4	Proteobacteria-Alpha	Bacteria	53
156	<i>Oligotropha carboxidovorans</i> OM5	Proteobacteria-Alpha	Bacteria	53
157	<i>Caulobacter crescentus</i> NA1000	Proteobacteria-Alpha	Bacteria	61
158	<i>Hirschia baltica</i> ATCC 49814	Proteobacteria-Alpha	Bacteria	57
159	<i>Dechloromonas aromatica</i> RCB	Proteobacteria-Beta	Bacteria	60
160	<i>Hermiimonas arsenicoxydans</i>	Proteobacteria-Beta	Bacteria	59
161	<i>Burkholderia cepacia</i> J2315	Proteobacteria-Beta	Bacteria	62
162	<i>Nitrosomonas europaea</i> ATCC 19718	Proteobacteria-Beta	Bacteria	62
163	<i>Acidovorax</i> sp.	Proteobacteria-Beta	Bacteria	59

164	<i>Chromobacterium violaceum</i> ATCC 12472	Proteobacteria-Beta	Bacteria	58
165	<i>Methylobacillus flagellatus</i> KT	Proteobacteria-Beta	Bacteria	63
166	<i>Thiobacillus denitrificans</i> ATCC 25259	Proteobacteria-Beta	Bacteria	60
167	<i>Polynucleobacter</i> sp.	Proteobacteria-Beta	Bacteria	65
168	<i>Nitrospira multififormis</i> ATCC 25196	Proteobacteria-Beta	Bacteria	60
169	<i>Polaromonas naphthalenivorans</i> CJ2	Proteobacteria-Beta	Bacteria	56
170	<i>Janthinobacterium</i> sp.	Proteobacteria-Beta	Bacteria	61
171	<i>Ralstonia eutropha</i> ATCC 17699	Proteobacteria-Beta	Bacteria	66
172	<i>Leptothrix cholodnii</i> SP-6	Proteobacteria-Beta	Bacteria	63
173	<i>Delftia acidovorans</i> SPH-1	Proteobacteria-Beta	Bacteria	59
174	<i>Methylibium petroleiphilum</i> PM1	Proteobacteria-Beta	Bacteria	57
175	<i>Variovorax paradoxus</i> S110	Proteobacteria-Beta	Bacteria	62
176	<i>Methylotenera mobilis</i> JLW8	Proteobacteria-Beta	Bacteria	62
177	<i>Syntrophus aciditrophicus</i> SB	Proteobacteria-Delta	Bacteria	55
178	<i>Desulfococcus oleovorans</i> Hxd3	Proteobacteria-Delta	Bacteria	59
179	<i>Desulfobacterium autotrophicum</i> HRM2	Proteobacteria-Delta	Bacteria	61
180	<i>Desulfotalea psychrophila</i> LSv54	Proteobacteria-Delta	Bacteria	54
181	<i>Geobacter metallireducens</i> GS-15	Proteobacteria-Delta	Bacteria	63
182	<i>Anaeromyxobacter dehalogenans</i> 2CP-C	Proteobacteria-Delta	Bacteria	59
183	<i>Syntrophobacter fumaroxidans</i> MPOB	Proteobacteria-Delta	Bacteria	58
184	<i>Pelobacter carbinolicus</i> DSM 2380	Proteobacteria-Delta	Bacteria	60
185	<i>Desulfatibacillum alkenivorans</i> AK-01	Proteobacteria-Delta	Bacteria	58
186	<i>Haliangium ochraceum</i> DSM 14365	Proteobacteria-Delta	Bacteria	50
187	<i>Desulfovibrio desulfuricans</i> ATCC 27774	Proteobacteria-Delta	Bacteria	63
188	<i>Sulfurimonas denitrificans</i> ATCC 33889	Proteobacteria-Epsilon	Bacteria	64
189	<i>Arcobacter butzleri</i> RM4018	Proteobacteria-Epsilon	Bacteria	62
190	<i>Nitratiruptor</i> sp.	Proteobacteria-Epsilon	Bacteria	65
191	<i>Sulfurovum</i> sp.	Proteobacteria-Epsilon	Bacteria	58
192	<i>Colwellia psychrerythraea</i> 34H	Proteobacteria-Gamma	Bacteria	53
193	<i>Alkalilimnicola ehrlichei</i> MLHE-1	Proteobacteria-Gamma	Bacteria	63
194	<i>Saccharophagus degradans</i> ATCC 204508	Proteobacteria-Gamma	Bacteria	57
195	<i>Pseudomonas aeruginosa</i> LMG 12228	Proteobacteria-Gamma	Bacteria	63
196	<i>Methylococcus capsulatus</i>	Proteobacteria-Gamma	Bacteria	60
197	<i>Psychrobacter arcticus</i> 273-4	Proteobacteria-Gamma	Bacteria	63
198	<i>Idiomarina loihiensis</i> ATCC 15444	Proteobacteria-Gamma	Bacteria	66
199	<i>Citrobacter koseri</i> ATCC BAA-895	Proteobacteria-Gamma	Bacteria	55
200	<i>Enterobacter sakazakii</i> ATCC BAA-894	Proteobacteria-Gamma	Bacteria	55
201	<i>Chromohalobacter salexigens</i> DSM 3043	Proteobacteria-Gamma	Bacteria	66
202	<i>Alteromonas macleodii</i>	Proteobacteria-Gamma	Bacteria	56
203	<i>Thiomicrospira crunogena</i> XCL-2	Proteobacteria-Gamma	Bacteria	64
204	<i>Shewanella putrefaciens</i> CN-32	Proteobacteria-Gamma	Bacteria	60

205	<i>Azotobacter vinelandii</i> DJ	Proteobacteria-Gamma	Bacteria	57
206	<i>Nitrosococcus oceani</i> ATCC 19707	Proteobacteria-Gamma	Bacteria	58
207	<i>Pseudoalteromonas haloplanktis</i> TAC125	Proteobacteria-Gamma	Bacteria	59
208	<i>Halorhodospira halophila</i> SL1	Proteobacteria-Gamma	Bacteria	66
209	<i>Hahella chejuensis</i> KCTC 2396	Proteobacteria-Gamma	Bacteria	50
210	<i>Marinobacter aquaeolei</i> VT8	Proteobacteria-Gamma	Bacteria	59
211	<i>Psychromonas ingrahamii</i> 37	Proteobacteria-Gamma	Bacteria	62
212	<i>Acidithiobacillus ferrooxidans</i> ATCC 53993	Proteobacteria-Gamma	Bacteria	59
213	<i>Aeromonas hydrophila</i>	Proteobacteria-Gamma	Bacteria	65
214	<i>Alcanivorax borkumensis</i> SK2	Proteobacteria-Gamma	Bacteria	64
215	<i>Marinomonas</i> sp.	Proteobacteria-Gamma	Bacteria	65
216	<i>Acinetobacter baumannii</i> AB307-0294	Proteobacteria-Gamma	Bacteria	59
217	<i>Vibrio cholerae</i> MJ-1236	Proteobacteria-Gamma	Bacteria	63
218	<i>Tolomonas auensis</i> DSM 9187	Proteobacteria-Gamma	Bacteria	66
219	<i>Leptospira biflexa</i> Ames	Spirochaetes	Bacteria	54
220	<i>Dethiosulfovibrio peptidovorans</i> DSM 11002	Synergistetes	Bacteria	62
221	<i>Thermanaerovibrio acidaminovorans</i> DSM 6589	Synergistetes	Bacteria	69
222	<i>Thermotoga maritima</i> MSB8	Thermotogae	Bacteria	65
223	<i>Fervidobacterium nodosum</i> UW101	Thermotogae	Bacteria	66
224	<i>Petrotoga mobilis</i> SJ95	Thermotogae	Bacteria	69
225	<i>Thermosipho africanus</i> TCF52B	Thermotogae	Bacteria	62
226	<i>Kosmotoga olearia</i> TBF 19.5.1	Thermotogae	Bacteria	65
227	<i>Opitutus terrae</i> PB90-1	Verrucomicrobia	Bacteria	56
228	<i>Methylacidiphilum infernorum</i> V4	Verrucomicrobia	Bacteria	52
229	<i>Aedes aegypti</i>	Arthropoda	Eukarya	56
230	<i>Drosophila melanogaster</i>	Arthropoda	Eukarya	65
231	<i>Anopheles gambiae</i>	Arthropoda	Eukarya	55
232	<i>Gallus gallus</i>	Chordata-Birds	Eukarya	78
233	<i>Danio rerio</i>	Chordata-Fish	Eukarya	64
234	<i>Bos taurus</i>	Chordata-Mammals	Eukarya	71
235	<i>Mus musculus</i>	Chordata-Mammals	Eukarya	67
236	<i>Rattus norvegicus</i>	Chordata-Mammals	Eukarya	78
237	<i>Homo sapiens</i>	Chordata-Primates	Eukarya	62
238	<i>Saccharomyces cerevisiae</i> ATCC 204508	Fungi-Ascomycota	Eukarya	82
239	<i>Emericella nidulans</i>	Fungi-Ascomycota	Eukarya	53
240	<i>Kluyveromyces lactis</i>	Fungi-Ascomycota	Eukarya	54
241	<i>Yarrowia lipolytica</i>	Fungi-Ascomycota	Eukarya	51
242	<i>Debaryomyces hansenii</i>	Fungi-Ascomycota	Eukarya	51
243	<i>Candida glabrata</i>	Fungi-Ascomycota	Eukarya	53
244	<i>Pichia stipitis</i>	Fungi-Ascomycota	Eukarya	55
245	<i>Aspergillus fumigatus</i> FGSC A1100	Fungi-Ascomycota	Eukarya	54
246	<i>Vanderwaltozyma polyspora</i> DSM	Fungi-Ascomycota	Eukarya	52

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247	<i>Cryptococcus neoformans JEC21</i>	Fungi-Basidiomycota	Eukarya	52
248	<i>Arabidopsis thaliana</i>	Plants-Streptophyta	Eukarya	51
249	<i>Vitis vinifera</i>	Plants-Streptophyta	Eukarya	53
