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1	Amoebozoa_F0YFB9_AURAN/158-223	401	Metazoa_Q6DKC4_ENLA/110-175
2	fungi_A1C4F1_ASPCL/231-296	402	Metazoa_H3BCF7_LATCH/91-156
3	plant_A5AJ78_VITVI/169-235	403	Metazoa_A5LHA5_LITCT/250-315
4	plant_A9RZF7_PHYPA/169-235	404	Stramenopiles_G4Z1N4_PHYSP/272-336
5	plant_A5BTZ8_VITVI/163-228	405	plant_B9HVR2_POPTR/170-236
6	plant_E0ZCA8_PICSI/63-126	406	fungi_F7W8H2_SORMK/327-394
7	Metazoa_H2NOL3_ORYLA/7-72	407	Metazoa_C1BIH9_OSMMO/89-154
8	Metazoa_Q5U369_DANRE/269-334	408	fungi_E7A392_SPORE/127-191
9	Metazoa_F6T207_ORNAN/118-183	409	Stramenopiles_H3H2V8_PHYRM/97-163
11	Metazoa_Q6GNT0_ENLA/253-318	410	plant_D3GC08_9ROSI/14-79
12	fungi_A1DHU3_NEOF/301-367	412	fungi_B6GYL8_PENCW/333-388
13	Metazoa_C1BW6_ESOLU/193-259	413	Metazoa_G4VI63_SCHMA/343-409
14	Stramenopiles_B8CCQ1_THAPS/96-161	414	Metazoa_E0VHI3_PEDHC/70-135
15	Metazoa_A6RL81_BOTFB/388-444	415	Metazoa_Q7QG24_ANOGA/252-317
16	Metazoa_G1KMZ9_ANOCA/171-237	416	plant_E5GCK3_CUCME/87-152
17	plant_F2E4W7_HORVD/15-75	417	Metazoa_G6D7C8_DANPL/176-241
18	Metazoa_G3WNV2_SARHA/20-85	418	fungi_H1VE74_COLHI/316-381
19	Metazoa_F6UBG2_CALJA/196-264	419	Stramenopiles_B5Y5D2_PHATC/262-324
20	plant_A5B479_VITVI/245-310	420	Metazoa_E9J8L4_SOLIN/97-162
21	Metazoa_A7T6G0_NEMVE/1-57	421	Other_O_A9V2E0_MONBE/829-895
22	plant_C1E164_MICSR/438-503	422	Metazoa_D6WZQ2_TRICA/164-229
23	Metazoa_G3N8C5_GASAC/269-334	423	Metazoa_F1L2C7_ASCSU/92-157
24	Other_O_F2UJT2_SALS5/272-337	424	Metazoa_C1BK84_OSMMO/37-102
25	Metazoa_A8NZK8_BRUMA/155-207	425	Metazoa_G0MCK6_CAEBE/248-313
26	Metazoa_C3ZV5_BRAFL/820-872	426	fungi_Q0CEU8_ASPTN/288-354
27	plant_B9GM28_POPTR/15-80	427	plant_Q9ZR53_MEDSA/87-151
28	Metazoa_H3EJ11_PRIPA/81-142	428	Metazoa_G5EEA8_CAEEL/248-313
29	Metazoa_E1GHD6_LOALO/1-55	429	Other_O_A9UP20_MONBE/252-317
30	Metazoa_F4W699_ACREC/97-162	430	Metazoa_H3B470_LATCH/256-321
31	Metazoa_E9G1C8_DAPPU/27-92	431	plant_B9I4U4_POPTR/89-152
32	plant_I1I762_BRADI/15-77	432	Metazoa_D6WZQ1_TRICA/83-148
33	Metazoa_E1GHD6_LOALO/73-139	433	Amoebozoa_ANA7_DICDI/319-386
34	plant_P93158_GOSHI/13-79	434	Metazoa_Q5DH15_SCHJA/195-262
35	Stramenopiles_B8CCQ1_THAPS/23-89	435	Metazoa_Q17A50_AEDAE/93-158
36	Metazoa_C1BMC5_OSMMO/173-239	436	Metazoa_Q5D8M0_SCHJA/102-168
37	Metazoa_C1BZS7_ESOLU/94-159	437	plant_I1HJW8_BRADI/225-289
38	Metazoa_B4L73_DROMO/19-84	438	fungi_A2QCQ7_ASPNC/148-213
39	plant_B3TLY9_ELAGV/170-235	439	Other_O_A9VC1_MONBE/664-730
40	plant_B4FJC1_MAIZE/170-240	440	plant_A5B7L0_VITVI/176-221
41	Other_O_E9C3C5_CAPO3/984-1050	441	plant_I1JWG5_SOYBN/221-286
42	Metazoa_B51W5_SALSA/408-474	442	fungi_B2VUR2_PYRTR/397-464
43	Metazoa_H2LY47_ORYLA/111-176	443	Metazoa_F6WI47_ORNAN/91-156
44	Metazoa_H0YRC2_TAEGU/358-423	444	Stramenopiles_DONJ65_PHYIT/184-250
45	Metazoa_A2BHN0_DANRE/111-176	445	Metazoa_F6T207_ORNAN/277-342
46	Metazoa_A7SW86_NEMVE/184-250	446	Stramenopiles_F0WGW3_9STRA/514-580
47	fungi_F7W8H2_SORMK/405-471	447	Stramenopiles_DONUM8_PHYIT/183-249
48	Metazoa_E2RCI8_CANFA/254-319	448	plant_G1ETN3_NELNU/244-309
49	Metazoa_Q803A1_DANRE/89-154	449	Metazoa_G5DZW5_9PIPI/170-236
50	plant_B9ISV5_POPTR/248-314	450	Metazoa_G1Q8S6_MYOLU/402-450
51	Stramenopiles_G4Z1N4_PHYSP/25-91	451	Metazoa_G1P7U7_MYOLU/60-126
52	Metazoa_G4VI66_SCHMA/401-467	452	Metazoa_B7QCG4_IOSCI/101-146
53	Metazoa_C1BZR8_ESOLU/20-85	453	plant_A5B479_VITVI/87-152
54	Metazoa_G1MU27_MELGA/16-82	454	plant_A9TFB3_PHYPA/245-310
57	Metazoa_Q7ZW0_ENLA/266-331	455	plant_AND7_ARATH/245-310
58	Metazoa_H3FTB2_PRIPA/227-281	456	Metazoa_F7HMN3_CALJA/21-80
59	Metazoa_F6W0Q1_MONDO/245-310	457	Metazoa_D6WZQ1_TRICA/777-842
60	plant_O82090_GOSHI/170-235	458	fungi_B8M4F7_TALSN/405-470
61	Metazoa_E1BW1_CHICK/437-502	459	Metazoa_F7BN50_ENTR/178-244
62	fungi_G9NH54_HYPAI/148-213	460	Metazoa_E3MY10_CAERE/102-167
63	plants_D8LG01_ECTSI/443-507	461	Metazoa_H3B3V1_LATCH/202-268
64	Metazoa_Q3US43_MOUSE/46-111	462	fungi_C5FNC5_ARTOC/403-470
65	Metazoa_A5LHA3_LITCT/270-335	463	Metazoa_H3CR25_TETNG/18-83
66	fungi_F0PB2_GROCL/165-230	464	Metazoa_E3MY10_CAERE/32-95
67	Metazoa_ANA5_CHICK/174-240	465	Metazoa_Q6P603_DANRE/107-172
68	plant_C0PQS6_PICSI/171-228	466	Metazoa_B4M9Y2_DROVI/251-316
70	plant_B9HVR2_POPTR/87-152	467	Metazoa_COHA2_SALSA/301-366
72	plant_D2D2Z9_GOSHI/86-151	468	Other_O_A9VD41_MONBE/154-190
73	fungi_C0ND81_AJECG/181-246	469	Metazoa_E39D4_ANODA/102-167

74	Metazoa_C3ZI54_BRAFL/47-92	470	Stramenopiles_Q0ZNW4_SAPMO/259-323
75	Stramenopiles_G5AHT5_PHYSP/899-965	471	Metazoa_E1GLF4_LOALO/38-103
77	Metazoa_H3HWP9_STRPU/160-225	472	Metazoa_Q4W6D6_9METZ/176-242
78	Metazoa_H2S105_TAKRU/275-340	473	plants_D8LG01_ECTSI/96-162
79	plant_C5NL1_SORBI/252-319	474	Metazoa_Q4T4Q3_TETNG/240-305
80	Metazoa_G3VWR3_SARHA/89-154	475	Amoebozoa_Q54PW0_DICDI/335-395
81	plant_AN4_FRAAN/169-234	477	Metazoa_B7QCG4_IOSC/29-94
82	Metazoa_E1FYF7_LOALO/253-318	478	plant_D6Q29_SOYBN/298-365
83	plant_B7U9S0_CARAS/185-250	479	Metazoa_Q4SJ99_TETNG/224-289
84	Metazoa_G3WNV2_SARHA/251-316	480	Metazoa_G3H29_CRIGR/242-307
85	plant_I1LLB8_SOYBN/274-330	481	Metazoa_F1N650_BOVIN/46-111
86	fungi_H1VDA4_COLHI/658-694	482	Metazoa_E1G226_LOALO/185-250
87	Metazoa_G3PY92_GASAC/254-319	483	Metazoa_G2HJV7_PANTR/167-232
88	plant_A2YVD9_ORYSI/171-237	484	Metazoa_G7P536_MACFA/253-318
89	Other_O_F2UBR9_SALS5/86-152	485	plant_A9RBN7_PHYPA/86-155
90	Metazoa_H2RYZ9_TAKRU/47-112	486	Other_O_E9C3C5_CAPO3/615-681
91	Metazoa_Q640T3_ENTR/93-158	487	Metazoa_F6YVM0_MONDO/45-110
92	Metazoa_A3KN40_BOVIN/97-163	488	Metazoa_H2URI3_TAKRU/248-313
93	Metazoa_A7T6G0_NEMVE/64-129	489	plant_A2YAT3_ORYSI/15-80
94	Metazoa_D5KU33_BOMM/270-335	490	plant_C6TK93_SOYBN/15-80
95	plant_A5AJ78_VITVI/241-308	491	Metazoa_E9G1C8_DAPPU/99-164
96	Metazoa_G3Q341_GASAC/248-313	492	Metazoa_G3PCE2_GASAC/38-103
98	fungi_A6R2M2_AJECN/413-480	494	Metazoa_ANA1_RAT/118-183
99	Metazoa_G5BQN3_HETGA/192-258	495	Ecavates_E2RTS4_GIAIC/226-283
100	Metazoa_D3ZSA0_RAT/117-182	496	Metazoa_A2BHN0_DANRE/270-335
101	Metazoa_Q66KY7_ENLA/135-200	498	Metazoa_Q5U362_RAT/18-83
102	Metazoa_H2VQB3_CAEJA/266-331	499	Other_O_F2UPY8_SALS5/412-478
104	Metazoa_B2L3Y3_ENBO/1-28	500	plant_Q8W4Z7_GOSHI/57-122
105	plant_F6KLJ6_ARAHY/168-235	501	bacteria_Aa_402495696.11
107	Metazoa_Q6DKC4_ENLA/269-334	502	Metazoa_H3BDR7_LATCH/192-258
108	plant_B9SNI5_RICCO/8-74	503	plant_B9I4U4_POPTR/15-80
109	Metazoa_D6WDY4_TRICA/25-90	504	Metazoa_A8KBY8_DANRE/91-156
110	plant_B6U6E7_MAIZE/170-227	505	Metazoa_E2ROS6_CANFA/25-90
111	plant_A9SPZ1_PHYPA/272-337	506	Metazoa_C3VEV0_SCHMA/195-262
112	plant_B4FSS8_MAIZE/174-243	507	human_Q5VTM3_HUMAN/162-200
113	Metazoa_F6TPA0_MONDO/165-202	508	fungi_F9QC8_MYCGM/541-590
114	fungi_E3QNG4_COLGM/236-301	509	Stramenopiles_G5AHT5_PHYSP/977-1040
116	plant_A9NNL2_PICSI/15-80	510	fungi_C1GIN4_PARBD/330-395
117	Stramenopiles_D0NJ65_PHYIT/99-164	511	Metazoa_ANA1_BOVIN/118-183
118	Metazoa_Q804G4_DANRE/297-362	512	Metazoa_Q4SNZ4_TETNG/83-148
119	Metazoa_F6W0Q1_MONDO/14-79	513	Metazoa_Q6Y223_PAGMA/45-111
120	fungi_F974_MYCGM/376-442	514	Metazoa_G1KKD7_ANOCA/367-432
121	bacteria_Cg_228472152.30	515	Metazoa_E0VHI3_PEDHC/301-350
122	Metazoa_F6VNG2_CIOIN/356-423	516	Metazoa_E4VU6_OIKDI/184-250
123	Metazoa_B0V2N5_MOUSE/46-107	517	Metazoa_F7A0T0_HORSE/47-112
124	Metazoa_A6RW25_BOTFB/235-300	518	plant_A2YAT3_ORYSI/87-154
125	plant_D8R2M8_SELML/87-152	519	plant_A5AQM9_VITVI/164-217
126	Metazoa_E9H188_DAPPU/188-256	520	plant_A5BLT1_VITVI/169-236
127	Metazoa_H2NOL3_ORYLA/164-229	521	Metazoa_E9GWA4_DAPPU/73-137
128	Metazoa_G3MG82_9ACAR/15-80	522	Metazoa_H3APK8_LATCH/277-342
129	fungi_C1GNP1_PARBA/263-328	523	fungi_G2WZD9_VERDV/305-370
130	Metazoa_H2ZUH7_LATCH/177-243	524	Metazoa_F7FNN0_ORNAN/109-174
131	plant_A2YVD9_ORYSI/15-80	525	Metazoa_F1QRPO_DANRE/90-155
132	Metazoa_G1SKA9_RABIT/39-102	526	Metazoa_ANA8_MOUSE/181-247
133	plant_A9SB32_PHYPA/212-279	528	Metazoa_G4VI63_SCHMA/187-252
134	Metazoa_B4GM07_DROPE/256-321	529	Metazoa_O93447_ORYLA/362-428
135	Metazoa_F6M44_CIOIN/22-90	530	plant_A9SB32_PHYPA/58-114
136	plant_B9RGC8_RICCO/244-309	531	Metazoa_B2L3Y8_ENBO/1-27
137	Metazoa_F7DNG2_HORSE/117-182	532	fungi_G1WYE9_ARTOA/267-332
138	Metazoa_H2RWB9_TAKRU/22-91	533	Ecavates_C6LZB5_GIAIB/86-146
139	plant_C6TK93_SOYBN/172-237	534	Metazoa_H9G957_ANOCA/290-356
140	Metazoa_Q66ID8_DANRE/39-104	535	plant_A5BTZ8_VITVI/8-73
141	Metazoa_H2MEL1_ORYLA/278-343	537	Metazoa_ANA1_RODSP/118-183
142	fungi_B2WAQ5_PYRTR/601-654	538	Metazoa_A8ZC3_CAEBR/18-81
143	plant_O65848_MEDTR/86-150	539	fungi_Q5KH35_CRYNJ/333-397
144	Metazoa_C3ZND4_BRAFL/94-159	540	plant_I1HFK2_BRADI/171-231
145	Metazoa_F1C6Z5_PERFV/1-53	541	Metazoa_B5FE8_TAEGU/14-79
147	Metazoa_O93446_ORYLA/110-175	542	fungi_C1G8V6_PARBD/420-489

148	plant_A5B479_VITVI/15-80	543	Metazoa_O93447_ORYLA/279-344
149	fungi_B2B343_PODAN/248-312	544	bacteria_FI_392964889.19
150	plants_D7FJE4_ECTSI/267-332	545	Metazoa_H2LTW7_ORYLA/266-331
152	Metazoa_F6PT14_HORSE/59-124	546	Metazoa_C1C3N0_LITCT/45-110
153	plant_G7LF84_MEDTR/86-151	548	Metazoa_E9H189_DAPPU/266-331
154	bacteria_Ho_227398614.7	549	fungi_G1WYE9_ARTOA/427-494
155	Metazoa_B1B561_SOLSE/162-227	550	plant_D7MT72_ARALL/87-152
156	Metazoa_H3IJQ8_STRPU/22-86	551	Metazoa_G3USL9_MELGA/1-43
157	plant_E4MEO_THEHA/1-46	552	plant_F2DQP5_HORVD/87-152
158	fungi_Q5MAH1_PENCH/48-112	553	plant_A9NMW6_PICSI/171-237
159	Metazoa_F67L6_CALJA/214-280	554	Metazoa_Q7QM48_ANOGA/19-84
160	Metazoa_B7U3W3_CTEID/92-157	555	fungi_B2B343_PODAN/433-500
161	Metazoa_F6WVJ1_ORNAN/248-312	556	Metazoa_F6U5G3_ORNAN/184-250
162	Metazoa_B5RI22_SALSA/434-499	557	Metazoa_G4VI62_SCHMA/30-95
163	Metazoa_Q6B344_CHICK/253-318	558	Metazoa_B2LU0_SCHBO/110-183
164	Metazoa_Q66JF6_ENTR/36-100	559	Metazoa_Q641H0_ENLA/432-497
165	fungi_Q5BC4_EMENI/197-262	560	Metazoa_H2SEN2_TAKRU/247-307
166	Metazoa_H2ZUH7_LATCH/253-318	561	Metazoa_B5FE8_TAEGU/169-235
167	plant_AN4_FRAAN/86-151	562	Metazoa_F6VPS5_MONDO/444-509
168	Metazoa_H0ZZ00_TAEGU/95-160	563	Metazoa_HOYUM4_TAEGU/86-151
169	plant_C6TNJ9_SOYBN/87-151	564	Metazoa_C4WSW4_ACYPI/22-87
170	plant_A4S542_OSTLU/73-140	565	plant_I1IQN4_BRADI/81-149
171	plant_B9T8F3_RICCO/1-34	566	Metazoa_H2VK4_CAEJA/19-81
172	plant_B6TT93_MAIZE/170-236	567	Metazoa_H9GFN4_ANOCA/22-88
173	Stramenopiles_G4RU0_9STRA/1-37	569	plant_Q56D10_TOBAC/247-312
174	plant_C54R1_SORBI/181-238	570	Metazoa_H2Y7G3_CIOSA/347-413
175	plant_AN4_FRAAN/244-309	571	Metazoa_B51G1_SALSA/90-155
176	Metazoa_B3RPM7_TRIAD/173-239	572	fungi_G2Y61_BOTF4/170-235
177	Metazoa_G4VI64_SCHMA/200-265	573	Metazoa_F7B9R9_MONDO/87-152
178	Metazoa_E1ZYA7_CAMFO/25-90	574	fungi_E5ADB2_LEPMJ/200-265
179	Stramenopiles_H3HB96_PHYRM/183-247	575	fungi_Q5B3S2_EMENI/1315-1369
180	human_E5RK69_HUMAN/71-113	576	Other_O_F2UCQ3_SALS5/545-610
182	Metazoa_H3CF99_TETNG/91-156	577	fungi_F9G7F4_FUSOF/343-407
183	fungi_C5FNCS_ARTOC/171-236	578	Metazoa_O93444_ORYLA/20-85
184	Metazoa_H2KP47_CLOSI/500-566	579	Metazoa_A4QNM7_ENTR/251-316
185	Metazoa_E3TCL0_9TELE/251-316	580	Metazoa_F7B20_ENTR/285-350
186	plant_G8E493_ORYSI/85-152	581	plant_Q2TE7_SOLTU/245-310
187	Metazoa_F7GDF3_MONDO/248-313	582	plant_B9RGC8_RICCO/86-150
188	Metazoa_H2Y7G3_CIOSA/423-488	583	plant_Q6L4C5_ORYSI/136-207
189	Metazoa_G1T8F2_RABIT/118-180	584	Metazoa_B2D0I4_ARTSF/330-396
190	Metazoa_F1QKN3_DANRE/246-311	585	fungi_A8N3U1_COPC7/356-431
191	plant_AND4_ARATH/245-314	586	Amoebozoa_F0YFK0_AURAN/76-141
192	Amoebozoa_F0ZZ05_DICPU/67-135	587	Amoebozoa_F4Q2W8_DICFS/480-547
193	Metazoa_E9GWB8_DAPPU/33-97	588	Metazoa_G1N2K9_MELGA/229-264
194	Metazoa_A7RW1_NEMVE/1-58	589	fungi_G0RCF8_HYPJQ/387-454
195	Metazoa_B51G1_SALSA/249-314	590	Metazoa_A0F047_PSEM/114-165
196	Metazoa_E1FLW0_LOALO/344-409	591	Metazoa_G3N8C9_GASAC/54-119
197	plant_A5B479_VITVI/170-235	592	Metazoa_G6CV8_DANPL/25-90
198	plant_A5CB60_VITVI/289-332	593	Metazoa_HOP88_OTOGA/90-155
199	Other_O_F2UI00_SALS5/434-500	594	Metazoa_G3Q1P5_GASAC/46-111
200	Metazoa_E4KK2_OIKDI/81-144	595	Metazoa_H3APK8_LATCH/117-182
201	plant_C0L7E4_ANNCH/246-311	596	Metazoa_D3TLB6_GLOMM/91-156
202	Metazoa_G4VL68_SCHMA/20-85	597	Metazoa_F1NNR3_CHICK/252-317
203	Metazoa_H0ZQC9_TAEGU/20-85	598	Metazoa_G1KLU8_ANOCA/272-337
204	Metazoa_G7Y5I1_CLOSI/626-692	599	plant_A5AIA0_VITVI/17-82
205	Metazoa_G1MRM3_MELGA/443-483	600	bacteria_Mst_442322805.1
206	Metazoa_B5RI22_SALSA/362-427	601	plant_Q1RUA5_MEDTR/173-238
207	Metazoa_C1BKB4_OSMMO/192-258	602	Metazoa_C1C3N0_LITCT/117-182
208	Metazoa_C1BZ57_ESOLU/22-87	603	fungi_B2VUR2_PYRTR/165-230
209	plant_C1E164_MICSR/592-654	604	plant_B6SW41_MAIZE/26-60
210	Metazoa_F6ZVA4_ORNAN/1-32	605	plant_ESGCK5_CUCME/51-116
211	Metazoa_AN13_CANFA/249-314	607	Metazoa_A8WG37_DANRE/170-236
212	Metazoa_I1G0P6_AMPQE/238-303	609	Metazoa_H3IAM2_STRPU/18-83
213	plant_D7MT72_ARALL/15-80	610	Metazoa_Q6QAZ9_CHICK/272-337
214	Metazoa_B2L3Y5_ENBO/1-36	611	plant_B9ISV5_POPTR/17-64
215	plant_G7LF83_MEDTR/87-152	612	fungi_C7YGO_NECH7/373-440
216	Metazoa_G1PG64_MYOLU/117-182	613	Metazoa_G5ATS2_HETGA/148-214
217	plant_A9RBN7_PHYPA/14-79	614	plant_D3B4Z8_POLPA/387-454

218	fungi_C5GDZ2_AJEDR/316-380	615	Metazoa_B3GQS3_9PLAT/285-350
219	Metazoa_COH815_SALSA/17-82	616	Metazoa_A5LHA3_LITCT/39-104
220	Metazoa_F6WFFY8_ORNAN/437-502	617	fungi_F2T3D2_AJEDA/230-295
221	plant_I1IQN4_BRADI/167-234	618	plant_D7M4J0_ARALL/14-79
222	Other_O_A9VD41_MONBE/1-64	619	plant_C5YL20_SORBI/87-152
224	Metazoa_H2M2M0_ORYLA/108-173	620	Other_O_E9C3C5_CAPO3/901-966
226	plant_I1HFK2_BRADI/15-80	621	Metazoa_C1C3N0_LITCT/276-341
227	fungi_G0SAF7_CHATD/405-453	622	fungi_Q0CY55_ASPTN/218-280
228	Metazoa_E9J326_SOLIN/370-436	623	Metazoa_D1M7K2 ICTPU/91-156
229	Metazoa_Q8WPH0_BOMMO/417-482	624	Other_O_A9V2E0_MONBE/624-688
230	fungi_A2QCY7_ASPNC/380-447	625	Metazoa_B2L46_ENBO/1-51
231	Metazoa_ANB9_DROME/256-321	626	fungi_F2Q3M6_TRIEC/228-291
232	Metazoa_F6Y46_MONDO/599-664	627	Metazoa_C1BIH9_OSMMO/17-82
233	Metazoa_G3Q341_GASAC/89-154	628	fungi_D5G497_TUBMM/224-289
234	Metazoa_H0UWN6_CAVPO/45-110	629	Metazoa_H9HRA6_ATTCE/256-321
235	Metazoa_B3P220_DROER/97-162	630	plant_Q9ZRU7_CAPAN/87-152
236	Metazoa_D6WZQ0_TRICA/186-252	631	fungi_D5G497_TUBMM/152-217
237	Metazoa_F7EBA7_ENTR/380-445	632	Metazoa_E9GSS2_DAPPU/265-330
238	fungi_G0RVR1_HYPJQ/209-273	633	Metazoa_D6WZQ5_TRICA/248-313
239	fungi_G2R268_THITE/416-483	634	Amoebozoa_F4PN43_DICFS/385-452
240	plant_F2D6P4_HORVD/36-101	635	fungi_E3RN47_PYRRT/650-687
241	plant_F2E2N7_HORVD/143-209	636	Metazoa_F1L8I2_ASCSU/123-188
242	fungi_B8M4F7_TALSN/637-704	637	Stramenopiles_D0P3M8_PHYIT/154-220
243	plant_B9N394_POPTR/170-236	638	Metazoa_E3TFU8 ICTPU/36-101
244	Metazoa_D3TME1_GLOMM/91-156	639	plant_B8BCI7_ORYSI/246-312
245	Metazoa_C3ZND3_BRAFL/71-137	640	bacteria_SI_284035615.20
246	Metazoa_F1P2N4_CHICK/93-158	641	Metazoa_G3WWE4_SARHA/20-85
247	Ecavates_GIA1_GIAIN/5-69	642	Metazoa_H2ZUH7_LATCH/94-159
248	fungi_G2WWB5_VERDV/637-706	643	Metazoa_B3S9E5_TRIAD/1-57
249	fungi_G3JNQ8_CORMM/214-279	644	Metazoa_F6WVJ1_ORNAN/20-84
250	plant_G7LEK9_MEDTR/51-118	645	Metazoa_Q4VSV4_MONAL/268-333
251	plant_D8RJM2_SELML/28-66	646	Metazoa_E1GJQ8_LOALO/95-160
252	fungi_E9DZQ0_METAQ/291-363	647	Stramenopiles_B5Y5D2_PHATC/27-92
253	plant_B9SIA1_RICCO/85-151	649	plant_Q9FUG5_CERRI/170-235
254	plant_A9TFB3_PHYPA/14-79	650	Other_O_A9V4C6_MONBE/179-245
255	Metazoa_O57570_DANRE/112-177	651	Metazoa_E9H187_DAPPU/26-91
256	plant_B8AS2_ORYSI/94-145	652	Metazoa_E2RQ29_CANFA/201-268
257	Metazoa_ANA5_CHICK/19-84	653	Stramenopiles_G5A7E6_PHYSP/26-91
258	plant_B9SM17_RICCO/86-151	654	Metazoa_G3QPT3_GORGO/277-342
259	Metazoa_H2TYU9_TAKRU/268-333	655	Metazoa_F1LOA1_ASCSU/347-413
260	Other_O_E9C3C5_CAPO3/829-894	656	Metazoa_Q4SM21_TETNG/267-332
261	plant_G7IW11_MEDTR/86-151	658	fungi_E9DZQ0_METAQ/374-441
262	plant_Q24132_TOBAC/87-152	659	Metazoa_F1LOA1_ASCSU/192-257
263	Other_O_E9CFN1_CAPO3/387-453	660	fungi_B6GYL8_PENCW/398-465
264	Metazoa_F1L0T9_ASCSU/20-85	661	plant_B8BF46_ORYSI/280-345
265	Stramenopiles_D0NJ67_PHYIT/259-323	662	fungi_G0SAF7_CHATD/227-295
266	plant_A6NOR1_ORYSI/37-102	663	plant_C7EQ1_ORYSI/2-50
267	fungi_E7A392_SPORE/283-348	664	fungi_G3JNQ8_CORMM/373-441
268	Metazoa_C1K7M5 ICTPU/336-402	665	fungi_Q2UFJ4_ASPOR/312-376
270	Metazoa_G7PF12_MACFA/421-486	667	Metazoa_F6IA10_DANRE/515-581
271	Metazoa_B0WWMU9_CULQU/252-317	668	Metazoa_G1KLU8_ANOCA/41-106
272	Metazoa_F1SS97_PIG/48-113	669	Metazoa_G3USL9_MELGA/50-90
273	Metazoa_E9H188_DAPPU/266-331	670	Metazoa_G1KFA2_ANOCA/172-238
274	Metazoa_H2M051_ORYLA/90-155	671	Metazoa_F1L2C7_ASCSU/175-241
275	bacteria_Cc_380728269.21	672	Metazoa_F6WFFY8_ORNAN/365-430
276	Metazoa_B511_SALSA/18-83	673	plant_A9NNL2_PICSI/170-234
277	Metazoa_A0SZ5_PERPL/1-29	674	plant_B9ISV5_POPTR/86-152
278	fungi_A1C7G9_ASPCL/298-364	676	Metazoa_Q9GNG6_BOMMO/256-321
279	Metazoa_D3TME1_GLOMM/250-315	677	Metazoa_D3TM26_GLOMM/250-315
280	Metazoa_E1JJR8_DROME/91-156	678	plant_I1HJW7_BRADI/104-153
281	plant_AND3_ARATH/15-80	679	plant_Q22341_9ROSI/15-80
282	Metazoa_C3ZND5_BRAFL/6-39	680	Metazoa_G3ISL3_CRIGR/201-267
283	Metazoa_Q56J74_ONCTS/39-103	681	Metazoa_G7Y5I1_CLOSI/542-608
284	Metazoa_F6TS8_MONDO/91-156	682	Metazoa_H3BDR7_LATCH/108-174
285	fungi_Q6C9U3_YARLI/144-209	683	Metazoa_A7RW3_NEMVE/88-153
286	Metazoa_F6V1V9_ORNAN/257-322	684	Metazoa_H3BGL6_LATCH/437-502
287	Metazoa_HOLG9_OTOGA/267-332	685	plant_D7KVS1_ARALL/87-152
288	plant_C6TD05_SOYBN/171-219	686	Metazoa_H2TGM1_TAKRU/173-239

289	fungi_Q2UFJ4_ASPOR/154-219	687	plant_B7FY0_MEDTR/14-79
290	bacteria_Fb_363580181.14	688	Metazoa_F7H9W2_CALJA/119-179
291	plant_Q6S9D8_WHEAT/170-236	689	plant_F2DV98_HORVD/256-321
292	Stramenopiles_G4Z1N8_PHYSP/27-92	690	Metazoa_A5LHA5_LITCT/174-240
293	fungi_A8N3U4_COPC7/271-335	691	Metazoa_B3RPM7_TRIAD/90-155
294	plant_F2DIL8_HORVD/207-272	692	plant_D7T2Q7_VITVI/15-80
295	Metazoa_D6WZQ1_TRICA/316-370	694	Metazoa_E9H189_DAPPU/188-256
296	human_AA2L_HUMAN/37-102	695	Stramenopiles_F0WGW1_9STRA/185-251
297	Metazoa_H3IAM2_STRPU/175-241	697	plant_A5BTZ8_VITVI/238-303
298	Metazoa_F6ZL59_CALJA/433-495	698	Metazoa_G1N762_MELGA/62-118
299	Metazoa_G3NNR3_GASAC/90-155	699	plant_P93157_GOSHI/86-151
300	fungi_Q4P8I3_USTMA/196-261	700	Metazoa_E2BIN4_HARSA/25-90
301	Metazoa_Q6P603_DANRE/267-332	701	Metazoa_A87I3_CAEBR/266-331
302	plant_G7IW12_MEDTR/115-180	702	fungi_C7YGO_NECH7/213-278
303	Metazoa_H2LS05_ORYLA/17-82	703	Metazoa_Q4ZGZ6_TAESO/243-308
304	Metazoa_H3ETP9_PRIPA/172-238	704	fungi_F974_MYCGM/144-209
305	Metazoa_D3PI40_9MAI/267-331	705	Metazoa_E0V9K1_PEDHC/207-272
306	plants_D7FJE4_ECTSI/607-672	706	Metazoa_A8E7L2_DANRE/1-38
307	Metazoa_F8RBD9_SPIER/104-176	707	plant_F2D6P4_HORVD/197-261
308	bacteria_Cc_380729140.22	708	bacteria_Ms_409197576.31
309	Metazoa_C0H815_SALSA/89-154	709	plant_A9RZN4_PHYPA/199-264
310	Metazoa_H9GG64_ANOCA/318-384	710	Metazoa_Q6QAZ9_CHICK/196-262
311	Metazoa_A8SY2_CAEBR/170-235	711	fungi_Q0V6M8_PHANO/436-488
312	Stramenopiles_DONJ65_PHYIT/27-92	712	plants_D8LG01_ECTSI/11-77
313	plant_F6KLI6_ARAHY/14-79	713	plant_ESGCK3_CUCME/401-466
314	fungi_H1VE74_COLHI/160-225	714	Ecavates_ANE1_GIAIN/21-78
315	Metazoa_H2S105_TAKRU/118-183	715	Metazoa_G1SNT8_RABIT/24-89
316	Metazoa_F6QS6_MACMU/263-328	716	plant_B4FZ06_MAIZE/64-129
317	fungi_I1RBQ2_GIBZE/380-447	717	Metazoa_A7RW3_NEMVE/172-238
318	Metazoa_Q8ITJ0_HETGL/107-171	718	fungi_Q6PKY9_ASPFM/313-379
319	Metazoa_Q5F321_MANSE/256-321	719	Metazoa_C0H996_SALSA/250-315
320	Metazoa_F6YMO_MONDO/201-264	720	Metazoa_G7PCS1_MACFA/125-191
321	Metazoa_E3TDF3_9TELE/246-311	721	Metazoa_G3ST95_LOAF/93-158
322	Metazoa_H2KP47_CLOSI/344-409	722	Other_O_A9VC1_MONBE/442-508
323	Metazoa_H2PD2_CIOIN/60-125	723	fungi_G9NI54_HYPAL/146-213
324	Metazoa_B5CE7_SALSA/92-157	724	Metazoa_F6TU75_MONDO/15-80
325	Metazoa_G1KFA2_ANOCA/17-82	725	Metazoa_H2PD2_CIOIN/142-208
326	Metazoa_ANA9_MOUSE/205-264	726	Metazoa_G1NVK9_MYOLU/58-123
327	Metazoa_F1LDR9_ASCSU/99-164	727	Metazoa_H9H3J1_MACMU/108-171
328	Metazoa_H3IAM2_STRPU/90-157	728	plant_B3TLL7_ELAGV/246-311
329	Metazoa_Q9NGU7_TAESO/201-267	729	Metazoa_Q7ZM2_ENLA/270-335
330	bacteria_Cc_380729140.2	730	Metazoa_F5HJB2_ANOGA/97-162
331	bacteria_Cc_380728269.3	731	plant_Q4ABP7_BRARP/87-152
332	bacteria_Bb_375105645.4	732	Metazoa_G3MPT6_9ACAR/336-401
333	Metazoa_G1NJ32_MELGA/181-247	733	fungi_G9N6Y4_HYPVG/309-374
334	bacteria_Ho_262194969.5	734	plant_B9SM17_RICCO/14-79
335	bacteria_Ho_262194969.6	735	Metazoa_G3PWL0_GASAC/182-248
336	Metazoa_E1FYF7_LOALO/22-87	736	Metazoa_F6IA10_DANRE/433-498
337	plant_B9ISV5_POPTR/170-238	737	Metazoa_H2RYZ8_TAKRU/109-174
339	Metazoa_A1L514_BOVIN/90-132	738	Metazoa_Q641H0_ENLA/273-338
340	Metazoa_F6ZAK1_HORSE/22-87	739	Metazoa_E1ZYA7_CAMFO/256-319
341	Metazoa_Q17A53_AEDAE/93-158	740	Metazoa_B5BM7_SALSA/268-333
342	Metazoa_A5LHA6_LITCT/20-85	741	Metazoa_F1LOT9_ASCSU/92-157
343	Metazoa_G1KJG0_ANOCA/86-151	742	Metazoa_C3ZQF7_BRAFL/237-303
344	Metazoa_C3ZND4_BRAFL/177-219	743	Metazoa_D3Z0S1_MOUSE/75-133
345	Metazoa_G0MLG0_CAEBE/281-346	744	Metazoa_E1FYF7_LOALO/177-243
346	Amoebozoa_ANA7_DICDI/165-230	745	plant_A5B79_VITVI/250-316
347	Metazoa_H0ZCD8_TAEGU/257-322	747	fungi_E4URJ3_ARTGP/312-378
348	Metazoa_Q9ZL9_TAESO/278-343	748	plant_A9SP21_PHYPA/14-79
349	plant_D2D2Z9_GOSHI/244-309	749	bacteria_Mm_124003075.8
350	Metazoa_D3TRS6_GLOMM/180-246	750	Ecavates_Q8ITF7_GIAIN/154-220
351	Metazoa_A2BFV8_DANRE/113-178	751	Metazoa_H6BD08_OSTED/70-136
352	Metazoa_Q4VSV4_MONAL/192-258	752	Metazoa_G3STG5_LOAF/117-182
353	Metazoa_Q804G8_DANRE/267-332	753	plant_B9GWL9_POPTR/231-296
354	plant_A5BQ4_VITVI/96-155	754	Metazoa_E9H191_DAPPU/101-166
355	plant_A5BQ4_VITVI/176-240	756	Metazoa_B3GQS3_9PLAT/34-99
356	fungi_Q5BC4_EMENI/269-334	757	Other_O_F2TB8_SALSS/514-579
357	Metazoa_B2L3Y2_ENBO/193-259	760	Metazoa_D3TME1_GLOMM/175-240

358	Metazoa_Q6DI3_ENTR/38-103	761	Metazoa_E9H189_DAPPU/28-93
359	fungi_B6Q7Z7_PENMQ/376-443	762	plant_B9SNI5_RICCO/84-149
360	plant_Q24132_TOBAC/243-308	763	plant_E5GCK3_CUCME/329-394
361	plant_Q42922_MEDSA/163-232	764	bacteria_Cc_380728269.10
362	plant_C6TFT8_SOYBN/15-80	765	Metazoa_ANA8_RAT/257-322
363	fungi_COND81_AJECG/253-317	766	fungi_E9QB9_ASPFU/229-294
364	Metazoa_B7QC21_IOSC/1-57	767	Metazoa_C1C3Z2_LITCT/177-243
365	Metazoa_F1P6B7_CANFA/201-267	768	Metazoa_G6D7C8_DANPL/331-397
366	Metazoa_B4L73_DROMO/251-316	769	Metazoa_A5LHA5_LITCT/19-84
367	Metazoa_Q70KQ6_CIOIN/504-569	770	Stramenopiles_F00L8_9STRA/185-251
368	Metazoa_Q8MJBS_RABIT/214-280	771	Metazoa_F6YNZ9_MACMU/18-83
369	Metazoa_A0F047_PSEM/38-104	772	plant_B9RGDO_RICCO/174-239
370	Metazoa_E9H189_DAPPU/100-165	773	Metazoa_H2PH43_PONAB/231-297
371	plant_Q69DC2_GOSHI/87-152	774	Metazoa_D3ZHD1_RAT/21-86
372	plant_G7LF84_MEDTR/14-79	775	plant_I1P4D4_ORYGL/15-80
373	fungi_A8N3U1_COPC7/203-257	778	fungi_A2QC77_ASPNC/304-370
374	plant_Q69DC2_GOSHI/170-235	779	plants_D8LG01_ECTSI/514-579
375	plant_B9RJJ1_RICCO/245-310	780	plant_D7M4J0_ARALL/244-309
376	Metazoa_F6YG66_CIOIN/323-388	781	Metazoa_AN10_MOUSE/93-158
377	plant_D7SPZ0_VITVI/13-77	782	Metazoa_G7MDI7_MACMU/201-264
378	Stramenopiles_G4Z1N4_PHYSP/128-176	783	fungi_G3JNQ8_CORMM/142-207
379	Metazoa_Q6DKC4_ENLA/38-103	784	plant_G7LE90_MEDTR/15-80
380	Other_O_A9VC1_MONBE/824-889	785	fungi_E9D857_COCP/373-440
381	plant_I1MIU3_SOYBN/87-152	786	plant_D7KL8_ARALL/246-311
382	Metazoa_B4JK98_DROGR/91-156	787	Metazoa_A4QNM7_ENTR/175-241
384	Stramenopiles_H3HB96_PHYRM/98-163	788	Metazoa_G5AJY3_HETGA/269-334
385	Metazoa_A7RW2_NEMVE/74-131	789	fungi_G2WZN6_VERDV/196-264
386	plant_C5YL20_SORBI/15-80	790	bacteria_Fb_363580180.12
387	Amoebozoa_F0ZZ7_DICPU/182-247	791	bacteria_Ka_163756662.13
388	Amoebozoa_F1A6F3_DICPU/84-146	792	Metazoa_G6D9T5_DANPL/93-158
389	Metazoa_ANA5_CYNPY/93-158	793	Metazoa_E9GPJ9_DAPPU/164-229
390	Metazoa_G1MU27_MELGA/92-157	794	bacteria_Aa_402495857.16
391	plant_D7U8J8_VITVI/163-230	795	bacteria_Ch_110637878.17
392	Metazoa_G3NNS5_GASAC/178-244	796	bacteria_Fi_441497853.18
393	Metazoa_F6YYM0_MONDO/117-182	797	Metazoa_G3PZS3_GASAC/179-245
394	Ecavates_C6LSD2_GIAIB/79-134	798	Stramenopiles_DONJ67_PHYIT/97-163
395	Stramenopiles_DONJ65_PHYIT/260-324	799	bacteria_Ka_163756728.15
396	Metazoa_A5LHA3_LITCT/194-260	800	Metazoa_F6TF12_MONDO/400-465
398	plant_D3BHS8_POLPA/253-317	801	bacteria_Bb_375105645.23
399	Metazoa_D6WZQ2_TRICA/319-385	802	bacteria_Cc_380729140.24
400	plant_I1M0U7_SOYBN/86-151	803	bacteria_Ri_384102706.25
		804	bacteria_Bb_375105645.26
		805	bacteria_Ga_226228830.27
		806	bacteria_Ga_226228830.28
		808	Other_O_F2UBS2_SALS5/236-301
		809	bacteria_Cc_380728269.29
		810	Metazoa_F7IN55_CALJA/97-139
		812	Metazoa_A7RW1_NEMVE/76-142
		813	Other_O_F2UJT2_SALS5/505-570
		814	Metazoa_F1MU06_BOVIN/201-264
		815	bacteria_Ri_384102706.32
		816	bacteria_Nm_258651831.33
		817	Metazoa_H3JCA7_STRPU/33-87