

TableS9. Host predictions

Table S9-1. VLP_prediction_STD+MAGs

Virus	AAI to closest RaFAH reference	Host genus
S10_vf_120738	22.73	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S10_vf_120738	22.73	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S10_vf_18671	91.64	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S10_vf_24791	46.17	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S10_vf_43964	91.64	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vf_43964	91.64	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vf_46328	63.06	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_UBA9502
S10_vf_62230	25.76	d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium
S10_vf_64371	86.67	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S10_vf_80712	98.13	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S10_vf_80712	98.13	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia
S10_vs_106834	44.85	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_120489	7.64	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_Borfiakaceae;g_QALS01
S10_vs_120541	14.85	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-110
S10_vs_120570	98.22	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S10_vs_14557	99.66	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_2538	31.92	d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales;f_Anaerovoracaceae;g_CAG-145
S10_vs_35854	48.73	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_35854	48.73	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vs_36407	8.93	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1691
S10_vs_36598	93.41	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_36598	93.41	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vs_37379	75.26	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S10_vs_37694	99.94	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S10_vs_46819	98.03	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S10_vs_58014	85.85	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_58014	85.85	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vs_62776	44.54	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_62776	44.54	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vs_67471	98.13	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S10_vs_67471	98.13	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S10_vs_71900	97	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S10_vs_71900	97	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S10_vs_71900	97	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_OM05-12
S10_vs_77004	10.42	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Pseudoruminococcus
S11_vf_104033	40.07	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S11_vf_104034	21.95	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S11_vf_104035	37.57	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
S11_vf_104035	37.57	d_Bacteria;p_Spirochaetota;c_Spirochaetia;o_Sphaerochaetiales;f_Sphaerochaetaceae;g_UBA9732
S11_vf_104052	38.91	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-180
S11_vf_104071	20.29	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S11_vf_10907	87.86	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus
S11_vf_27845	53.78	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S11_vf_27845	53.78	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Flavobacteriales;f_Flavobacteriaceae;g_Capnocytophaga
S11_vf_28515	95.85	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S11_vf_28515	95.85	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia
S11_vf_28645	6.84	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S11_vf_33117	96.79	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
S11_vf_33117	96.79	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S11_vf_33117	96.79	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S11_vf_34008	44.72	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_
S11_vf_34008	44.72	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_UC5-1-2E3
S11_vf_43997	15.72	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S11_vf_58587	11.86	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S11_vf_66522	97.65	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Pauljensenia
S11_vf_66522	97.65	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomycetes
S11_vf_68693	78.63	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S11_vf_70015	50.35	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S11_vf_92391	5.33	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ
S11_vf_95067	39.9	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S11_vf_99751	8.04	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
S11_vs_104041	16.5	d_Bacteria;p_Cyanobacteria;c_Vampirovibronia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_CAG-306
S11_vs_104042	75.46	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_I
S11_vs_104064	99.03	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus
S11_vs_11994	21.97	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S11_vs_13652	57.92	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Massilioclostridium
S11_vs_14882	11.87	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania
S11_vs_1937	99.04	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S11_vs_1937	99.04	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S11_vs_19892	45.95	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter
S11_vs_23188	66.52	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S11_vs_26767	40.78	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ventrimonas

Confidence score	List of methods
95	blast;96.50 iPhoP-RF;71.90
93.5	blast;95.40 iPhoP-RF;64.00
91	blast;93.40 iPhoP-RF;79.00
93.8	blast;95.60 CRISPR;94.10 iPhoP-RF;82.20
100	RaFAH;99.20 CRISPR;97.80 iPhoP-RF;97.10 blast;77.70
98.2	CRISPR;98.70 iPhoP-RF;97.10 blast;92.80
91.4	CRISPR;93.70 blast;91.80 iPhoP-RF;89.50
90.6	blast;93.00 iPhoP-RF;61.40
98.8	RaFAH;98.90 iPhoP-RF;59.80
100	RaFAH;99.20 blast;91.30 iPhoP-RF;86.30
99	RaFAH;99.20
92.3	RaFAH;87.20 iPhoP-RF;78.70
90.3	blast;92.80 iPhoP-RF;56.50
94.7	blast;96.30 iPhoP-RF;95.70 CRISPR;74.70
99.7	blast;98.90 iPhoP-RF;96.70 CRISPR;87.50 RaFAH;87.40
100	RaFAH;98.20 iPhoP-RF;97.10 blast;96.90 CRISPR;90.30
94.3	blast;96.00 iPhoP-RF;76.40
99.3	iPhoP-RF;97.10 blast;96.00 RaFAH;90.40
91.4	iPhoP-RF;93.70
94.5	blast;96.70 CRISPR;90.70 iPhoP-RF;73.00
100	RaFAH;99.40 iPhoP-RF;96.70
95.9	iPhoP-RF;97.10 blast;95.40
100	CRISPR;98.90 RaFAH;98.30 iPhoP-RF;97.10 blast;94.80
99.1	iPhoP-RF;97.10 blast;96.80 RaFAH;87.90 CRISPR;55.60
99.4	blast;96.80 RaFAH;92.90 iPhoP-RF;79.00
100	RaFAH;99.50 blast;91.80 iPhoP-RF;64.00
94.6	blast;96.20 iPhoP-RF;76.40
99	iPhoP-RF;96.70 blast;93.60 RaFAH;88.20
92.6	iPhoP-RF;94.70 blast;84.90
99.9	RaFAH;97.30 blast;95.30 iPhoP-RF;52.20
96.2	RaFAH;97.30
100	RaFAH;99.30 iPhoP-RF;97.10 blast;90.90
95.9	iPhoP-RF;97.10 blast;96.20 CRISPR;95.50
91	iPhoP-RF;93.40
95.3	blast;96.70 CRISPR;89.20 iPhoP-RF;87.60
90.6	RaFAH;93.00
90.3	blast;92.80 iPhoP-RF;81.10
91.7	RaFAH;94.00
90	blast;92.50 iPhoP-RF;70.20
91.5	blast;93.80 iPhoP-RF;55.40
98.5	CRISPR;98.90 iPhoP-RF;92.80
91.6	blast;93.90 iPhoP-RF;82.80
100	CRISPR;98.80 RaFAH;97.70 iPhoP-RF;85.70
91	blast;93.40 iPhoP-RF;51.20
100	RaFAH;98.80 blast;94.40 iPhoP-RF;90.50 CRISPR;68.00
98.4	RaFAH;98.80
92.5	blast;94.60 iPhoP-RF;51.70
97.3	RaFAH;98.10
97.3	RaFAH;98.10
93.8	blast;95.60 iPhoP-RF;71.50
93.1	iPhoP-RF;95.10 blast;93.90
91.6	blast;93.90 iPhoP-RF;93.10
91.4	blast;93.70 iPhoP-RF;78.70
90.4	blast;92.90 iPhoP-RF;65.60
100	RaFAH;99.20 CRISPR;99.10 blast;93.90 iPhoP-RF;90.50
99	RaFAH;99.20
99.3	CRISPR;97.70 blast;97.30 iPhoP-RF;91.80 RaFAH;87.20
97.8	blast;96.10 RaFAH;79.90
91	CRISPR;93.40
93.4	blast;95.30 iPhoP-RF;58.20
94.9	blast;96.40 iPhoP-RF;57.10
97.2	blast;98.00 iPhoP-RF;56.00
98.1	blast;98.60 iPhoP-RF;84.80
92.1	blast;94.30
91.7	RaFAH;94.00
92.9	blast;94.90 iPhoP-RF;66.50
93.1	blast;95.10 CRISPR;54.60
100	blast;98.60 RaFAH;96.60 iPhoP-RF;83.30
95.2	RaFAH;96.60
90.6	blast;93.00 iPhoP-RF;67.50
99.9	iPhoP-RF;97.10 RaFAH;95.80 blast;93.80 CRISPR;83.30
90.8	blast;93.20 iPhoP-RF;72.20

S11_vs_3006
S11_vs_3277
S11_vs_34137
S11_vs_36748
S11_vs_38860
S11_vs_41107
S11_vs_41107
S11_vs_41107
S11_vs_45658
S11_vs_45658
S11_vs_48109
S11_vs_5077
S11_vs_5077
S11_vs_5077
S11_vs_52577
S11_vs_55144
S11_vs_58930
S11_vs_58930
S11_vs_6458
S11_vs_67573
S11_vs_68151
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S11_vs_68348
S11_vs_6878
S11_vs_76784
S11_vs_79831
S11_vs_81775
S11_vs_82331
S11_vs_82368
S11_vs_83666
S11_vs_84627
S11_vs_84848
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S11_vs_98193
S12_vf_105542
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S12_vf_145044
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S12_vf_170614
S12_vf_173208
S12_vf_173666
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S12_vf_174374
S12_vf_174374
S12_vf_176437
S12_vf_181024
S12_vf_181024
S12_vf_188846
S12_vf_18902
S12_vf_60224
S12_vf_60224
S12_vf_61299
S12_vf_69136
S12_vf_69136
S12_vf_79666
S12_vs_111286
S12_vs_121913
S12_vs_123620
S12_vs_133070
S12_vs_138261
S12_vs_141337
S12_vs_142625
S12_vs_151292
S12_vs_151292
S12_vs_153780
S12_vs_163990
S12_vs_163990
S12_vs_163990
S12_vs_164056

44.36 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS263
99.63 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
17.51 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaustia_A
49.79 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
39.67 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
98.96 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium
98.96 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_F
98.96 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_P
40.35 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
40.35 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_UBA11471;g_UBA11471
63.66 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_An172
84.31 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Salmonella
84.31 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia
84.31 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Enterobacter
78.49 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
12.8 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Massiliomicrobiota
93.75 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
93.75 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Paraprevotella
15.38 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
11.32 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
99.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter
99.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella
49.51 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium
72.71 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_
41.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
17.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_UBA11471;g_UBA11471
24.35 d_Bacteria;p_Firmicutes;c_Clostridia;o_Eubacteriales;f_Eubacteriaceae;g_Eubacterium
98.94 d_Bacteria;p_Cyanobacteria;c_Vampirovibrionia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_QAM101
62.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Blaustia_A
35.28 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
6.74 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_51-20
95.91 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
95.91 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
80.02 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
13.83 d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-460
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Glaesserella
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Bibersteinia
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Nicoletella
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Muribacter
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Actinobacillus
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Actinobacillus_C
7.67 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Pasteurellaceae;g_Mannheimia
32.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
7.03 d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella
10.29 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
36.83 d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Eggerthellaceae;g_Adlercreutzia
36.83 d_Bacteria;p_Actinobacteriota;c_Coriobacteriia;o_Coriobacteriales;f_Coriobacteriaceae;g_Collinsella
94.2 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
94.2 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
10.68 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_OF09-33XD
98.48 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
98.48 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
80.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
82.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
82.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Paraprevotella
11.99 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes
51.25 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotellamassilia
51.25 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Paraprevotella
99.55 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1417
44.45 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Muribaculaceae;g_UBA7173
82.73 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
10.35 d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-302
14.52 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_CAG-353
70.17 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
98.55 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
31.03 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
99.81 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.81 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
97.5 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-495
99.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea
99.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
99.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
11.8 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83

93.6 blast;95.50 iPhoP-RF;67.00
99.9 RaFAH;98.80 iPhoP-RF;83.60 blast;80.70
91.4 blast;93.70 iPhoP-RF;83.10
98.5 CRISPR;98.90 blast;96.70 iPhoP-RF;91.80
95.2 CRISPR;96.60 blast;95.90 iPhoP-RF;89.80
93.6 RaFAH;95.50
93.6 RaFAH;95.50
93.6 RaFAH;95.50
95 RaFAH;96.20 iPhoP-RF;53.60
90 blast;92.50 iPhoP-RF;77.50
93.4 blast;95.30 iPhoP-RF;74.60
95.3 blast;96.70
94.6 blast;96.20
93.9 blast;95.70 iPhoP-RF;60.10
91 blast;88.40 iPhoP-RF;73.50 RaFAH;71.60
90.3 blast;92.80
98.1 blast;92.60 RaFAH;90.60 iPhoP-RF;89.80
90 blast;92.50
90.1 blast;92.60 iPhoP-RF;81.90
92.9 CRISPR;94.90 blast;92.10 iPhoP-RF;92.10
95.3 blast;96.70
94.7 blast;87.90 RaFAH;84.60 iPhoP-RF;53.30
95.2 blast;96.60 iPhoP-RF;64.50
91 blast;93.40 iPhoP-RF;73.00
93 blast;95.00 iPhoP-RF;77.30
90 blast;92.50 iPhoP-RF;73.20
95 CRISPR;96.50 blast;93.70 iPhoP-RF;81.40
93.1 blast;95.10
98.1 blast;92.60 RaFAH;90.70 iPhoP-RF;86.00
90.9 blast;93.30 iPhoP-RF;67.70
95.6 blast;96.90 iPhoP-RF;89.50 CRISPR;76.50
95.9 blast;91.20 RaFAH;83.50 iPhoP-RF;57.90
93.2 blast;92.10 CRISPR;86.70 iPhoP-RF;83.10 RaFAH;69.90
96.2 iPhoP-RF;92.10 blast;92.00 RaFAH;82.70
94.6 blast;96.20 iPhoP-RF;73.70
94.5 iPhoP-RF;96.10 CRISPR;91.90
93.9 iPhoP-RF;95.70
93.9 iPhoP-RF;95.70
93.5 iPhoP-RF;95.40
92.2 iPhoP-RF;94.40
92.2 iPhoP-RF;94.40
91.8 iPhoP-RF;94.10
91.6 blast;93.90 iPhoP-RF;77.10
100 RaFAH;99.10 iPhoP-RF;97.10 blast;94.80
92.9 blast;94.90
96.4 CRISPR;97.50 iPhoP-RF;95.10
93 blast;95.00 iPhoP-RF;81.40
93.1 blast;95.10 iPhoP-RF;76.40
92.6 CRISPR;94.70
96.2 CRISPR;97.30 iPhoP-RF;97.10 blast;96.60
91.6 RaFAH;93.90
95.3 CRISPR;96.70 iPhoP-RF;82.20
99.9 CRISPR;97.30 RaFAH;97.20 blast;96.90 iPhoP-RF;95.70
96 RaFAH;97.20
94.5 blast;96.10 iPhoP-RF;68.60
90.6 blast;93.00 iPhoP-RF;67.00
100 RaFAH;97.10 iPhoP-RF;96.70 blast;80.90
91.2 blast;93.60
96.9 CRISPR;97.80 iPhoP-RF;59.20
98.4 CRISPR;98.80 blast;82.30 iPhoP-RF;78.30
90.8 blast;93.20 iPhoP-RF;67.50
91.7 blast;94.00 iPhoP-RF;58.20
91.6 blast;93.90 iPhoP-RF;62.50
98.5 blast;96.70 RaFAH;83.70
95.4 blast;96.80 iPhoP-RF;64.80
91.1 blast;93.50 iPhoP-RF;79.80
98.4 blast;98.80 CRISPR;97.40 iPhoP-RF;96.10
100 RaFAH;99.40 blast;92.10 iPhoP-RF;57.90
95.9 iPhoP-RF;97.10 blast;96.90
100 RaFAH;98.90 iPhoP-RF;97.10 blast;95.90 CRISPR;68.40
95.9 iPhoP-RF;97.10 blast;93.30 CRISPR;74.50
90.9 blast;93.30 iPhoP-RF;81.60
99.3 RaFAH;99.40
99.3 RaFAH;99.40
95 blast;96.50 iPhoP-RF;60.30
95.9 blast;97.10 iPhoP-RF;72.60

S12_vs_172379
S12_vs_188820
S12_vs_188828
S12_vs_1980
S12_vs_1980
S12_vs_23796
S12_vs_26336
S12_vs_26336
S12_vs_26847
S12_vs_32669
S12_vs_48045
S12_vs_48045
S12_vs_6836
S12_vs_71525
S12_vs_71525
S12_vs_74280
S12_vs_81729
S12_vs_86928
S12_vs_87088
S12_vs_92868
S12_vs_93357
S12_vs_94042
S12_vs_94042
S12_vs_98175
S12_vs_99092
S12_vs_99219
S12_vs_99219
S13_vf_109235
S13_vf_11246
S13_vf_143422
S13_vf_147589
S13_vf_150407
S13_vf_151045
S13_vf_28309
S13_vf_54201
S13_vf_54201
S13_vf_56074
S13_vf_56074
S13_vf_56074
S13_vf_66508
S13_vf_7670
S13_vf_87873
S13_vs_113593
S13_vs_121307
S13_vs_13129
S13_vs_148294
S13_vs_148294
S13_vs_148294
S13_vs_149860
S13_vs_15645
S13_vs_26756
S13_vs_30101
S13_vs_35816
S13_vs_35816
S13_vs_45488
S13_vs_45488
S13_vs_57267
S13_vs_67429
S13_vs_83447
S13_vs_83447
S13_vs_90967
S13_vs_9438
S14_vf_106156
S14_vf_106156
S14_vf_106156
S14_vf_106156
S14_vf_109545
S14_vf_115736
S14_vf_115736
S14_vf_117147
S14_vf_117150
S14_vf_117150
S14_vf_117155
S14_vf_117155
S14_vf_117157
S14_vf_117157
S14_vf_117162
18.46 d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-877
7.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_CAG-272;g_QALR01
8.93 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_UMGS1783g_UMGS1783
94.44 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
94.44 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
72.14 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
68.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
3.93 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-917;g_CAG-475
24.79 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
24.79 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
43.21 d_Bacteria;p_Firmicutes;c_Clostridia;o_TANB77;f_CAG-508;g_CAG-269
30.6 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyricimonas
30.6 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
14.1 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyricimonas
10.77 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
18.68 d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
36.55 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
65.38 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
40.56 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Parasutterella
10.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
10.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
95.22 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariaticus
78.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
99.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
72.39 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
46.73 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
75.96 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
6.46 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
98.31 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia
12.14 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
17.62 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
17.62 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Acidaminococcales;f_Acidaminococcaceae;g_Phascoractobacterium
91.56 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
91.56 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
91.56 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_UBA6398
88.17 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
6.84 d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
97.58 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Marseille-P3160
40.01 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
11.04 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
16.24 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
57.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_
57.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_HGM12998
57.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
61.18 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
92 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
9.7 d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-460
54.46 d_Bacteria;p_Firmicutes;c_Bacilli;o_ML615J-28;f_CAG-313;g_CAG-313
99.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
99.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
22.02 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_51-20
22.02 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
38.42 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
14.26 d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-460
97.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
97.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
7.33 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
21.19 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactobacillus
21.19 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lacticaeibacillus
21.19 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Ligilactobacillus
21.19 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Limosilactobacillus
12.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
85.01 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
85.01 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
30.35 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
99.65 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
99.65 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_G
63.17 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Pauljensenia
63.17 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomycetes
S14_vf_117157
S14_vf_117157
23.32 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides

90.80 blast;93.20
93 blast;95.00 iPhoP-RF;87.00
92.3 blast;94.50
99.1 iPhoP-RF;97.10 blast;93.60 RaFAH;87.80 CRISPR;58.50
94.5 iPhoP-RF;96.10 blast;70.90
99.1 iPhoP-RF;96.70 blast;96.60 RaFAH;89.00
99.6 RaFAH;99.60
95.6 blast;96.90 iPhoP-RF;96.70
99.3 CRISPR;98.90 iPhoP-RF;95.70 blast;94.10 RaFAH;74.50
94.7 blast;96.30 iPhoP-RF;68.60
94.9 blast;96.40 iPhoP-RF;53.80
92.7 blast;94.80 iPhoP-RF;56.00
92.7 blast;94.80 iPhoP-RF;65.30
93.8 blast;95.60 iPhoP-RF;67.30
92.1 RaFAH;94.30
94.3 blast;96.00 iPhoP-RF;58.40
97.3 CRISPR;98.10 iPhoP-RF;93.40 blast;92.10
100 CRISPR;98.80 RaFAH;98.60 blast;96.90 iPhoP-RF;82.50
97.5 blast;96.60 iPhoP-RF;92.40 RaFAH;73.80 CRISPR;53.50
93 blast;95.00 iPhoP-RF;58.70
97 CRISPR;97.90 blast;96.90 iPhoP-RF;93.10
95.6 blast;96.90 iPhoP-RF;91.80
95.6 blast;96.90 CRISPR;96.60 iPhoP-RF;91.80
90.3 iPhoP-RF;89.50 blast;81.30 RaFAH;65.60
99.6 CRISPR;98.80 blast;98.80 iPhoP-RF;94.40 RaFAH;84.60
100 RaFAH;98.90 iPhoP-RF;96.70 blast;91.60
92.1 blast;94.30 iPhoP-RF;94.10
90.1 blast;92.60 iPhoP-RF;68.90
91.8 RaFAH;94.10
98.1 blast;98.60 iPhoP-RF;83.30
91.5 blast;93.80 iPhoP-RF;78.50
93.5 CRISPR;95.40
95.7 RaFAH;97.00
90.1 blast;92.60
98.7 RaFAH;93.20 blast;89.90 iPhoP-RF;62.20
93.1 blast;95.10 iPhoP-RF;68.20
98.1 RaFAH;98.60
98.1 RaFAH;98.60
91.6 blast;93.90 iPhoP-RF;74.30
99.4 iPhoP-RF;97.10 blast;96.60 RaFAH;91.90
100 CRISPR;99.60 RaFAH;96.00 blast;93.60 iPhoP-RF;72.60
98.4 CRISPR;98.80 iPhoP-RF;72.60
91.5 blast;93.80 iPhoP-RF;88.20 CRISPR;56.60
95.9 CRISPR;89.80 RaFAH;85.80 iPhoP-RF;84.50
98.5 CRISPR;98.90 blast;95.20 iPhoP-RF;87.90
92.3 blast;94.50 iPhoP-RF;80.60
91 blast;93.40 iPhoP-RF;71.30
90 blast;92.50 iPhoP-RF;67.70
99.7 CRISPR;99.70 iPhoP-RF;92.40 blast;92.00
99.9 CRISPR;99.20 iPhoP-RF;95.10 blast;93.30 RaFAH;90.50
94 blast;95.80 iPhoP-RF;53.30
95.6 blast;96.90 iPhoP-RF;81.60
99.7 RaFAH;99.00 blast;82.80
98.7 RaFAH;99.00
97.9 CRISPR;98.50 blast;79.90 iPhoP-RF;74.60
95 blast;96.50 iPhoP-RF;72.20
90.6 RaFAH;93.00
94.7 blast;96.30 iPhoP-RF;53.80
99.9 blast;96.80 RaFAH;96.50 iPhoP-RF;82.80 CRISPR;82.60
95 RaFAH;96.50
90.3 blast;92.80 iPhoP-RF;81.90
91.6 blast;93.90 iPhoP-RF;83.30
100 RaFAH;98.90 CRISPR;96.80 iPhoP-RF;96.10 blast;95.50
98.5 RaFAH;98.90
98.5 RaFAH;98.90
98.5 RaFAH;98.90
90.8 blast;93.20 iPhoP-RF;79.50
91.2 blast;93.60 iPhoP-RF;89.80 CRISPR;61.00
91.2 blast;93.60
95.3 blast;96.70 CRISPR;94.60 iPhoP-RF;86.30
99.9 CRISPR;98.90 RaFAH;91.00 blast;87.20 iPhoP-RF;83.10
91.8 RaFAH;91.00 blast;67.20
98.4 RaFAH;94.80 CRISPR;83.10 iPhoP-RF;64.80
92.7 RaFAH;94.80
100 RaFAH;99.40 CRISPR;98.80 iPhoP-RF;94.40 blast;93.60
94 RaFAH;90.00 iPhoP-RF;70.90 CRISPR;63.50

S14_vf_37500
S14_vf_51134
S14_vf_56130
S14_vf_56130
S14_vf_56130
S14_vf_57689
S14_vf_57689
S14_vf_58919
S14_vf_58919
S14_vf_58919
S14_vf_72335
S14_vf_72953
S14_vf_72953
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S14_vf_72953
S14_vf_72953
S14_vf_78139
S14_vf_78139
S14_vf_78139
S14_vf_78139
S14_vf_85122
S14_vf_92240
S14_vf_93134
S14_vf_99344
S14_vf_100227
S14_vf_100227
S14_vf_101482
S14_vf_102698
S14_vf_112068
S14_vf_112345
S14_vf_112345
S14_vf_11510
S14_vf_115377
S14_vf_115377
S14_vf_115455
S14_vf_117153
S14_vf_117153
S14_vf_117166
S14_vf_14737
S14_vf_15228
S14_vf_25852
S14_vf_25852
S14_vf_26320
S14_vf_2870
S14_vf_30108
S14_vf_32499
S14_vf_3251
S14_vf_38905
S14_vf_39266
S14_vf_39797
S14_vf_56251
S14_vf_56410
S14_vf_59347
S14_vf_59347
S14_vf_61530
S14_vf_632
S14_vf_632
S14_vf_632
S14_vf_66139
S14_vf_66208
S14_vf_66841
S14_vf_67094
S14_vf_70985
S14_vf_73301
S14_vf_74067
S14_vf_78164
S14_vf_88666
S14_vf_88666
S14_vf_90934
S14_vf_96286
S14_vf_96286
S14_vf_96286
S14_vf_9676
S14_vf_97835
S15_vf_2032
S15_vf_2032

5.58 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
47.7 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D
100 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium
100 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_F
100 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_P
94.04 d_Bacteria.p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Actinomycetes
94.04 d_Bacteria.p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Pauljensenia
74.74 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Roseburia
74.74 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Agathobacter
74.74 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__COE1
11.73 d_Bacteria.p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemania
32.12 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lacticaeibacillus
32.12 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus
32.12 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Ligilactobacillus
32.12 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Limosilactobacillus
32.12 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Pediococcus
74.71 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus
74.71 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lacticaeibacillus
74.71 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Ligilactobacillus
74.71 d_Bacteria.p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Limosilactobacillus
16.16 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium
99.79 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Coproccoccus
12.04 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Muricomes
10.5 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eubacterium_F
81.21 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster
81.21 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Hungatella_A
6.74 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__QAMM01
99.62 d_Bacteria.p__Firmicutes;c__Clostridia;o__Acetivibrionales;f__Acetivibrionaceae;g__Ruminiclostridium
27.86 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Butyrivibrionaceae;g__Agathobaculum
71.03 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
71.03 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
39.46 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
76.83 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia
76.83 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Hespellia
25.58 d_Bacteria.p__Firmicutes;c__Clostridia;o__Eubacteriales;f__Eubacteriaceae;g__Eubacterium
96.78 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea_A
96.78 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea
22.09 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Eveptia
33.52 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium
86.47 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides
26.78 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
26.78 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
65.93 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Ruminococcus_B
56.13 d_Bacteria.p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Sutterella
19.83 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster
51.73 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
82.87 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor
9.01 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium
15.51 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Ruminococcus_E
47.42 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Anaerostipes
20.56 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Muricomes
80.58 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor
29.43 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Muricomes
29.43 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Ruminococcus_B
22.32 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__UBA1417
78.66 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium
78.66 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_F
78.66 d_Bacteria.p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_P
83.75 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Ruminococcus_E
100 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
15.26 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Agathobacter
10 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Lawsonibacter
21.93 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
15.25 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massilimalliae
100 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
61.84 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Odoribacter
32.05 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Fimivivinus
32.05 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__UBA1691
62.33 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
99.54 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia
99.54 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A
99.54 d_Bacteria.p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter
24.59 d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Lawsonibacter
d_Bacteria.p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__CAG-83
83.93 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
83.93 d_Bacteria.p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola

94.3 CRISPR;96.00 iPhoP-RF;67.00
97.2 blast;97.90 iPhoP-RF;92.80 RaFAH;52.60
98.8 RaFAH;99.10
98.8 RaFAH;99.10
98.8 RaFAH;99.10
99 blast;94.00 RaFAH;93.30 CRISPR;80.00 iPhoP-RF;75.40
90.9 RaFAH;93.30
95.3 blast;90.40 iPhoP-RF;87.90 RaFAH;82.70
95.2 blast;90.20 RaFAH;82.70 iPhoP-RF;78.30
90.4 blast;92.90 iPhoP-RF;81.40
92.1 CRISPR;94.30
96.7 RaFAH;97.70
96.7 RaFAH;97.70
96.7 RaFAH;97.70
96.7 RaFAH;97.70
91.8 blast;94.10 iPhoP-RF;93.40 CRISPR;56.30
100 RaFAH;99.10 blast;96.80 CRISPR;96.50 iPhoP-RF;92.80
98.8 RaFAH;99.10
98.8 RaFAH;99.10
98.8 RaFAH;99.10
95 blast;92.30 iPhoP-RF;86.00 RaFAH;77.50
93.2 CRISPR;95.20
96.7 CRISPR;97.70
96.9 CRISPR;97.80
94.2 CRISPR;95.90 blast;94.00 iPhoP-RF;86.30
91 iPhoP-RF;93.40
92 blast;94.20 iPhoP-RF;69.10
90.1 RaFAH;92.60
97.5 blast;98.20 iPhoP-RF;66.00
99.1 iPhoP-RF;96.70 RaFAH;88.90 blast;75.90
95.6 blast;96.90 iPhoP-RF;95.70
96.9 blast;91.70 RaFAH;87.00 iPhoP-RF;81.40
98.8 CRISPR;97.10 RaFAH;83.90 iPhoP-RF;60.90
94 blast;95.80 iPhoP-RF;66.80
93 blast;95.00 CRISPR;89.70 iPhoP-RF;84.50
94.2 blast;95.90 iPhoP-RF;94.70 CRISPR;58.40
90.6 blast;93.00 iPhoP-RF;68.60
94.2 blast;95.90 iPhoP-RF;66.30
93.1 blast;95.10 iPhoP-RF;68.40
100 CRISPR;99.00 blast;98.60 RaFAH;97.90 iPhoP-RF;96.10
97.8 blast;96.60 iPhoP-RF;95.10 CRISPR;93.00 RaFAH;77.10
90.1 blast;92.60 CRISPR;86.70
95.2 blast;96.60 iPhoP-RF;82.20
99 blast;96.90 RaFAH;87.10 CRISPR;78.30 iPhoP-RF;69.50
92.3 blast;94.50 CRISPR;82.40 iPhoP-RF;78.30
99.1 blast;98.10 iPhoP-RF;96.70 RaFAH;82.60
95.6 blast;96.90 iPhoP-RF;65.60
93.8 blast;95.60 iPhoP-RF;81.60 CRISPR;54.30
98.7 CRISPR;99.00 blast;96.80 iPhoP-RF;93.70
93.8 blast;95.60 iPhoP-RF;67.00
95.3 iPhoP-RF;96.70 blast;93.30 CRISPR;68.70
95.2 blast;96.60 iPhoP-RF;95.40 CRISPR;94.00
93.1 iPhoP-RF;95.10
90.7 iPhoP-RF;93.10
92 blast;94.20 iPhoP-RF;82.80
91 RaFAH;93.40
91 RaFAH;93.40
91 RaFAH;93.40
95.6 blast;96.90 iPhoP-RF;85.70
100 RaFAH;98.30 iPhoP-RF;96.40 blast;93.70
90.4 blast;92.90 iPhoP-RF;78.00
90.7 blast;93.10
99 iPhoP-RF;96.70 blast;92.60 RaFAH;88.40
94.2 blast;95.90 iPhoP-RF;64.80
99.6 RaFAH;93.20 blast;92.00 iPhoP-RF;82.20
95.4 blast;96.80 iPhoP-RF;84.80 CRISPR;56.80
95.4 blast;96.80 iPhoP-RF;86.70
95.4 blast;96.80 CRISPR;90.80 iPhoP-RF;86.70
99.1 blast;96.70 RaFAH;89.00 iPhoP-RF;81.10
96.3 RaFAH;97.40
96.3 RaFAH;97.40
95.6 blast;96.90 iPhoP-RF;55.70
90.7 blast;93.10 iPhoP-RF;77.50
90.6 blast;93.00 iPhoP-RF;84.20
99.3 iPhoP-RF;97.10 blast;96.20 CRISPR;91.10 RaFAH;89.30
95.9 iPhoP-RF;97.10 blast;89.90 CRISPR;76.20

S15_vf_20644
S15_vf_20644
S15_vf_2513
S15_vf_75924
S15_vs_18274
S15_vs_27510
S15_vs_27510
S15_vs_35445
S15_vs_3868
S15_vs_3868
S15_vs_42043
S15_vs_42043
S15_vs_43913
S15_vs_71968
S15_vs_71968
S16_vf_100473
S16_vf_1037
S16_vf_108554
S16_vf_16182
S16_vf_16182
S16_vf_169895
S16_vf_172897
S16_vf_173099
S16_vf_173109
S16_vf_36146
S16_vf_36146
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S16_vf_5809
S16_vf_6102
S16_vf_84462
S16_vf_87190
S16_vf_90328
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S16_vf_9270
S16_vf_96483
S16_vf_97279
S16_vs_101072
S16_vs_103726
S16_vs_107235
S16_vs_116956
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S16_vs_120149
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S16_vs_140709
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S16_vs_140709
S16_vs_140709
S16_vs_141218
S16_vs_142561
S16_vs_142561
S16_vs_15093
S16_vs_165662
S16_vs_173079
S16_vs_173096
S16_vs_173141
S16_vs_17493
S16_vs_18440
S16_vs_19968
S16_vs_20060
S16_vs_32764
S16_vs_33281
S16_vs_33281
S16_vs_34021
S16_vs_38863
S16_vs_4662
S16_vs_48714
S16_vs_51901
S16_vs_75108
S16_vs_76823
83.74 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
83.74 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes_A
25.17 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Lachnospira
99.22 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
75.03 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Coproacteraceae;g__Coproacter
51.41 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
51.41 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
27.45 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
100 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
100 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides
51.36 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
51.36 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
99.8 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
100 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
100 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes_A
8.42 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium
73.36 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Lachnospira
18.88 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
64.12 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Pauljensenia
64.12 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Actinomycetes
11.84 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium
32.49 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium
55.52 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor
7.33 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium
99.74 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium
99.74 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_F
99.74 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_P
87.43 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Lachnospira
38.14 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4
31.67 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerotignaceae;g__Anaerotignum
34.33 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
16.6 d_Bacteria;p__Firmicutes;c__Clostridia;o__TAN877;f__CAG-508;g__CAG-269
8.58 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
8.58 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
29.87 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A
52.37 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4
26.56 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__CAG-127
26.95 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium
98.85 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D
43.56 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Acetatifactor
43.23 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eubacterium_G
12.05 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Eubacterium_R
63.91 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Parasutterella
99.82 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
99.82 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
55.65 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
55.65 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
31.86 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
99.58 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
99.58 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola
84.15 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__CAG-317
84.15 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Bariatricus
84.15 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea_B
84.15 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Lachnoclostridium_B
10.25 d_Bacteria;p__Firmicutes;c__Bacilli;o__ML615J-28;f__CAG-313;g__CAG-313
99.95 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes_A
99.95 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
19.11 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__UBA11524
11.88 d_Bacteria;p__Firmicutes;c__Bacilli;o__RF39;f__UBA660;g__CAG-302
99.1 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Coproccoccus
74.56 d_Bacteria;p__Verrucomicrobiota;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Akkermansiaceae;g__Akkermansia
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
18.24 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massilibacteriae
67.51 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
93.01 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
33.58 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UMGS1766
17.71 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
7.09 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
7.09 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides
99.81 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D
26.24 d_Bacteria;p__Firmicutes;c__Clostridia;o__Monoglobales;f__Monoglobaceae;g__Monoglobus
13.68 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-138;g__UBAS394
5.9 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D
16.94 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes
32.65 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBAS446
20.02 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Gemmiger

94.3 RaFAH;96.00
94.3 RaFAH;96.00
94.5 CRISPR;96.10
99.6 RaFAH;93.20 blast;91.90 iPhoP-RF;82.50
98.7 CRISPR;99.00 blast;93.10 iPhoP-RF;64.00 RaFAH;50.00
99.1 iPhoP-RF;96.10 blast;93.90 RaFAH;90.50
94.9 iPhoP-RF;96.40 blast;68.30
98.8 iPhoP-RF;96.70 blast;93.90 RaFAH;86.60
100 RaFAH;99.10 blast;96.50 iPhoP-RF;61.40
93 blast;95.00 iPhoP-RF;70.60 CRISPR;68.20
97.6 blast;96.80 iPhoP-RF;95.10 RaFAH;72.80
94.9 iPhoP-RF;96.40 blast;88.20
100 RaFAH;99.30 iPhoP-RF;97.10 blast;96.70
100 RaFAH;98.90 blast;98.40 iPhoP-RF;95.40
98.5 RaFAH;98.90
90.3 blast;92.80
99.7 CRISPR;99.70 iPhoP-RF;94.40 blast;93.60
97.9 CRISPR;98.50 blast;93.10 iPhoP-RF;92.10
96.9 RaFAH;95.10 CRISPR;68.30 iPhoP-RF;64.80
93.1 RaFAH;95.10
92.7 CRISPR;94.80
98.4 CRISPR;98.80 iPhoP-RF;97.10 blast;93.30
98.3 blast;92.00 iPhoP-RF;86.00 RaFAH;72.50
97 CRISPR;97.90 iPhoP-RF;81.60
96.2 RaFAH;97.30
96.2 RaFAH;97.30
96.2 RaFAH;97.30
99.9 CRISPR;99.00 iPhoP-RF;95.40 blast;93.40 RaFAH;91.70
91.1 blast;93.50 iPhoP-RF;66.80
94.2 blast;95.90 iPhoP-RF;79.50
95 RaFAH;87.80 iPhoP-RF;77.80 CRISPR;68.10
91.4 blast;93.70 iPhoP-RF;53.00
98.4 CRISPR;98.80 iPhoP-RF;95.10
95.9 RaFAH;97.10
97.6 iPhoP-RF;93.40 blast;93.30 RaFAH;87.30
91 blast;93.40 iPhoP-RF;60.30
95 blast;96.50 iPhoP-RF;87.30
94 blast;95.80 CRISPR;80.80 iPhoP-RF;79.80
99.7 blast;99.00 iPhoP-RF;97.10 CRISPR;94.60 RaFAH;84.50
91.6 blast;93.90 iPhoP-RF;75.20
94.6 blast;96.20 iPhoP-RF;85.70
94.5 iPhoP-RF;96.10 blast;93.90
97.2 CRISPR;98.00 blast;96.90 iPhoP-RF;93.10
100 RaFAH;99.00 CRISPR;97.60 iPhoP-RF;97.10 blast;90.90
96.6 CRISPR;97.60 iPhoP-RF;97.10 blast;94.60
99.4 iPhoP-RF;97.10 blast;95.20 RaFAH;91.80 CRISPR;60.90
95.9 iPhoP-RF;97.10 blast;81.50
94.3 blast;96.00 iPhoP-RF;93.10
100 RaFAH;98.20 iPhoP-RF;96.70 blast;89.50
97.6 CRISPR;98.30 blast;96.20 iPhoP-RF;95.70
94.5 iPhoP-RF;96.10
93.5 iPhoP-RF;95.40 blast;93.80
93.5 iPhoP-RF;95.40
92.6 iPhoP-RF;94.70
98.7 CRISPR;99.00 blast;96.10
97.8 blast;98.20 RaFAH;56.20 iPhoP-RF;53.30
96 blast;96.80 RaFAH;56.20 iPhoP-RF;50.90
99.6 CRISPR;99.60 blast;96.60 iPhoP-RF;85.70
92.7 blast;94.80
94 blast;95.80 iPhoP-RF;71.70
100 RaFAH;99.70 CRISPR;99.60 blast;96.80 iPhoP-RF;81.10
96 CRISPR;97.20 iPhoP-RF;82.80
93 blast;95.00 iPhoP-RF;58.40
100 RaFAH;99.30 CRISPR;98.90 blast;93.60 iPhoP-RF;85.70
98.4 iPhoP-RF;97.10 blast;96.90 RaFAH;79.60
91 blast;93.40
95.9 iPhoP-RF;97.10 blast;96.90
95.9 iPhoP-RF;97.10 blast;96.90
92.9 RaFAH;94.90
99 blast;96.90 iPhoP-RF;90.50 RaFAH;86.90
95 blast;96.50 iPhoP-RF;64.50
92.6 CRISPR;94.70 blast;92.60 iPhoP-RF;74.30
97 blast;97.90 iPhoP-RF;97.10 CRISPR;96.60
97.6 blast;93.90 iPhoP-RF;90.10 RaFAH;85.80
95 blast;96.50 CRISPR;82.40 iPhoP-RF;65.30
98.5 CRISPR;98.90 blast;98.30 iPhoP-RF;94.40

S16_vs_78361 75.01 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S16_vs_78429 22.27 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S16_vs_80244 99.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S16_vs_80244 99.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S16_vs_81805 99.42 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
S16_vs_82116 98.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S17_vf_128147 3.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vf_128147 3.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides_G
S17_vf_128147 3.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S17_vf_140653 90.58 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vf_174033 68.79 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S17_vf_174033 68.79 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S17_vf_35138 84.47 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
S17_vf_36452 12 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes
S17_vf_46388 50.05 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S17_vf_81232 50.04 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S17_vf_97671 81.31 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter
S17_vs_103009 22.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S17_vs_110666 98.39 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S17_vs_116640 83.12 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vs_117507 40.08 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vs_127519 61.22 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S17_vs_157209 25.09 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S17_vs_160502 60.44 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vs_160502 60.44 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S17_vs_177196 18.1 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S17_vs_177203 71.95 d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Bilophila
S17_vs_2079 67.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vs_31654 36.85 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Faecalibacillus
S17_vs_39515 82.52 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S17_vs_39515 82.52 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S17_vs_43307 72.14 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S17_vs_8690 6.78 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-495
S17_vs_8690 6.78 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_Scatocola
S1_vf_136526 33.32 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S1_vf_158961 9.7 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
S1_vf_159951 22.14 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S1_vf_22149 43.65 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S1_vf_28398 12.4 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S1_vf_6272 25.47 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S1_vs_117317 21.23 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S1_vs_133577 37.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S1_vs_143929 42.31 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S1_vs_145792 13.59 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotrignaceae;g_Anaerotrignum
S1_vs_155183 31.14 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S1_vs_23682 33.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S2_vf_16829 81.02 d_Bacteria;p_Actinobacteriota;c_Coribacteriales;o_Coribacteriales;f_Eggerthellaceae;g_Eggerthella
S2_vf_17850 11.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes
S2_vf_20910 5.26 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ
S2_vs_10289 67.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S2_vs_7306 96.01 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S2_vs_7306 96.01 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Odoribacter
S3_vs_100440 98.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium
S3_vf_100440 98.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_F
S3_vf_100440 98.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_P
S3_vf_101611 23.54 d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus
S3_vf_106401 12.56 d_Bacteria;p_Firmicutes;c_Bacilli;o_Haloplasmatales;f_Turicibacteraceae;g_Turicibacter
S3_vf_108959 42.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S3_vf_111893 41.65 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S3_vf_11428 94.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S3_vf_11428 94.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia
S3_vf_115304 34.34 d_Bacteria;p_Spirochaetota;c_Spirochaetia;o_Sphaerochaetales;f_Sphaerochaetaceae;g_UBA9732
S3_vf_127392 52.43 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_CAG-272;g_CAG-272
S3_vf_127399 23.09 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_127400 54.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S3_vf_127405 98.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S3_vf_127405 98.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_G
S3_vf_127406 89.48 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_127406 89.48 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S3_vf_127406 89.48 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_UBA6398
S3_vf_127408 6.08 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S3_vf_127409 96.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S3_vf_127450 8.34 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
S3_vf_18080 96.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_18080 96.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_18829 63.94 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides

98.5 CRISPR;98.90 iPhoP-RF;97.10 blast;96.90
91.5 blast;93.80 iPhoP-RF;52.80
99.7 iPhoP-RF;97.10 RaFAH;95.20 blast;89.20
92.2 iPhoP-RF;94.40 blast;93.80
94.7 blast;96.30 iPhoP-RF;89.50 CRISPR;57.90
99.6 CRISPR;98.90 blast;96.90 iPhoP-RF;94.10 RaFAH;81.90
95.9 blast;97.10 iPhoP-RF;97.10 CRISPR;89.30
94.5 iPhoP-RF;96.10
91 iPhoP-RF;93.40 blast;85.40
99.7 blast;96.70 RaFAH;95.30 iPhoP-RF;85.70
99.7 blast;97.00 iPhoP-RF;95.40 RaFAH;94.60 CRISPR;72.00
92.5 RaFAH;94.60
99.1 blast;96.80 RaFAH;88.80 CRISPR;59.60
97.8 CRISPR;98.40 iPhoP-RF;90.80
99.4 CRISPR;97.10 blast;94.50 iPhoP-RF;93.70 RaFAH;91.90
97.8 blast;98.40 iPhoP-RF;95.10 CRISPR;83.70
90.2 blast;92.70 iPhoP-RF;73.20
96.7 blast;97.70 iPhoP-RF;65.10
100 RaFAH;99.70 blast;96.80 iPhoP-RF;93.40 CRISPR;67.80
91 RaFAH;93.40
97.5 blast;97.40 iPhoP-RF;96.40 RaFAH;66.20
91.2 blast;93.60 iPhoP-RF;86.70
97.6 CRISPR;98.30 blast;95.20 iPhoP-RF;92.80
99.9 iPhoP-RF;97.10 RaFAH;96.60 blast;92.60 CRISPR;56.20
95.9 iPhoP-RF;97.10 blast;84.10
96.4 blast;91.90 iPhoP-RF;88.50 RaFAH;84.30
93.9 blast;95.70 iPhoP-RF;90.10
100 RaFAH;98.90 iPhoP-RF;94.40 blast;92.60
94.6 blast;96.20 iPhoP-RF;81.60 CRISPR;54.30
100 RaFAH;99.30 iPhoP-RF;97.10 blast;92.90
95.3 iPhoP-RF;96.70
95.4 blast;96.80 CRISPR;96.70 iPhoP-RF;93.40
95.2 blast;96.60
94.9 blast;96.40 iPhoP-RF;59.50
91.6 blast;93.90 iPhoP-RF;88.50
95 blast;96.50 iPhoP-RF;77.30
95.4 CRISPR;96.80 iPhoP-RF;72.20
90.8 blast;93.20 iPhoP-RF;88.90
91.6 blast;93.90 iPhoP-RF;75.40
92 CRISPR;94.20 blast;90.80 iPhoP-RF;78.00
93.4 blast;95.30 iPhoP-RF;89.50 CRISPR;71.10
96 blast;97.20 CRISPR;95.40 iPhoP-RF;94.40
91.6 blast;93.90 iPhoP-RF;75.00
94.6 blast;96.20 iPhoP-RF;72.60
95.9 CRISPR;97.10 blast;96.20 iPhoP-RF;89.20
98.8 CRISPR;99.10 blast;96.20 iPhoP-RF;83.30
94.9 CRISPR;96.40 iPhoP-RF;53.80 RaFAH;50.20
92.7 CRISPR;94.80 iPhoP-RF;78.70
97.2 CRISPR;98.00
100 RaFAH;98.90 blast;96.80 iPhoP-RF;87.90
93 blast;95.00 iPhoP-RF;73.70
90 RaFAH;89.40 CRISPR;64.40
94.7 RaFAH;96.30
94.7 RaFAH;96.30
94.7 RaFAH;96.30
95.2 blast;96.60
92 blast;94.20 iPhoP-RF;66.30
99.3 CRISPR;99.30 blast;91.90 iPhoP-RF;88.90 RaFAH;55.00
95.4 blast;96.80 CRISPR;96.10 iPhoP-RF;94.10
100 RaFAH;98.90 CRISPR;97.00 iPhoP-RF;93.40 blast;91.70
98.5 RaFAH;98.90
91.2 blast;93.60 iPhoP-RF;81.90
92.1 blast;94.30 iPhoP-RF;52.20
90.4 RaFAH;92.90
95 blast;96.50 iPhoP-RF;76.40 CRISPR;67.10
99.9 CRISPR;98.90 RaFAH;91.60 iPhoP-RF;90.80 blast;80.40
96.9 RaFAH;91.60 blast;87.20
97.8 RaFAH;98.40
97.8 RaFAH;98.40
91.6 blast;93.90 iPhoP-RF;84.80
98.5 blast;98.90 CRISPR;97.60 iPhoP-RF;96.70
95.9 CRISPR;97.00 blast;95.70 iPhoP-RF;81.10 RaFAH;51.90
92.3 RaFAH;94.50
99.7 iPhoP-RF;97.10 blast;96.10 RaFAH;94.50 CRISPR;81.40
91.8 iPhoP-RF;94.10 CRISPR;80.00 blast;78.90
91.8 iPhoP-RF;94.10 CRISPR;73.10

S3_vf_23042 83.69 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus
S3_vf_44405 96.43 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomyces
S3_vf_44405 96.43 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Pauljensenia
S3_vf_54353 46.9 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomyces
S3_vf_54353 46.9 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Pauljensenia
S3_vf_5525 41.37 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomyces
S3_vf_56363 23.06 d_Bacteria;p_Firmicutes;c_Clostridia;o_Peptostreptococcales;f_Peptostreptococcaceae;g_GCA-900066495
S3_vf_67333 76.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S3_vf_67333 76.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S3_vf_67333 76.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115
S3_vf_67333 76.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S3_vf_67333 76.26 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_F
S3_vf_67828 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_70746 87.64 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S3_vf_7137 5.31 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S3_vf_73597 55.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_73597 55.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_80287 52.73 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_D5
S3_vf_8058 98.11 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S3_vf_8164 10.61 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S3_vf_82571 21.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S3_vf_99626 26.68 d_Bacteria;p_Actinobacteriota;c_Coribacteriota;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella
S3_vf_99734 99.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S3_vf_99734 99.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
S3_vf_99734 99.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S3_vf_114271 19.01 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteriaceae;g_Acutalibacter
S3_vf_117894 81.25 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Odoribacter
S3_vf_119660 91.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_119660 91.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_CAG-462
S3_vf_119660 91.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_119771 27.39 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S3_vf_122706 89.75 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteriaceae;g_CAG-217
S3_vf_123834 73.11 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S3_vf_127391 18.32 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S3_vf_127401 45.54 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S3_vf_127411 9.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
S3_vf_127413 23.82 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_127421 95.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S3_vf_127421 95.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S3_vf_127421 95.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115
S3_vf_127421 95.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-45
S3_vf_127442 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_P3;g_Phil12
S3_vf_15450 21.5 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S3_vf_16825 80.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S3_vf_16825 80.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S3_vf_16825 80.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115
S3_vf_17168 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_18858 82.07 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteriaceae;g_CAG-217
S3_vf_23194 42.15 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_23194 42.15 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_25896 11.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
S3_vf_29077 34.15 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_C
S3_vf_39774 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_39940 5.41 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S3_vf_40939 23.65 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_40939 23.65 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_42569 73.75 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S3_vf_45147 90.75 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_45147 90.75 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_49835 13.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteriaceae;g_Ruminococcus_E
S3_vf_50557 23.06 d_Bacteria;p_Actinobacteriota;c_Coribacteriota;o_Coribacteriales;f_Eggerthellaceae;g_Gordonibacter
S3_vf_50924 12.69 d_Bacteria;p_Cyanobacteria;c_Vampirovibrionia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_QAM101
S3_vf_51931 21.18 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Sutterella
S3_vf_54303 46.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_
S3_vf_56292 99.95 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_56292 99.95 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S3_vf_64424 98.41 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_64424 98.41 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S3_vf_6604 75.2 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyrimonas
S3_vf_68031 27.92 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S3_vf_70508 99.66 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S3_vf_73361 17.97 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_SFEL01
S3_vf_77156 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S3_vf_80151 97.75 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S3_vf_82895 92.58 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S3_vf_87728 5.42 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium

99.7 blast;98.70 iPhoP-RF;90.10 RaFAH;89.50
100 RaFAH;97.30 CRISPR;92.40 blast;92.10 iPhoP-RF;55.70
96.2 RaFAH;97.30
97.8 RaFAH;97.30 iPhoP-RF;70.60
96.2 RaFAH;97.30
92.6 RaFAH;85.90 iPhoP-RF;81.10
91.4 iPhoP-RF;93.70
99.9 CRISPR;98.90 RaFAH;90.80 blast;85.70 iPhoP-RF;81.90
99.1 iPhoP-RF;96.10 RaFAH;90.80 blast;90.50
99 RaFAH;90.80 blast;90.70 iPhoP-RF;77.50
98.7 CRISPR;99.00 blast;90.70 iPhoP-RF;89.80
90.4 blast;92.90
91.5 blast;93.80 iPhoP-RF;64.50
95.3 iPhoP-RF;96.70 blast;95.90 CRISPR;78.50
99.7 CRISPR;99.70 iPhoP-RF;77.30
99.7 CRISPR;97.20 iPhoP-RF;97.10 RaFAH;93.80 blast;93.80
95.3 iPhoP-RF;96.70
97.2 CRISPR;98.00 iPhoP-RF;52.20
98.1 CRISPR;98.60 iPhoP-RF;81.60
98.2 CRISPR;98.70 blast;96.80 iPhoP-RF;95.10
93.1 blast;95.10 iPhoP-RF;73.20
98.7 CRISPR;99.00 iPhoP-RF;97.10 blast;92.10
95.2 CRISPR;96.60 iPhoP-RF;64.80 blast;60.50
92 RaFAH;94.20
92 RaFAH;94.20
92.1 blast;94.30 iPhoP-RF;56.80
99.9 blast;98.40 iPhoP-RF;93.10 RaFAH;92.30 CRISPR;53.10
100 RaFAH;98.50 CRISPR;95.40 iPhoP-RF;95.40 blast;93.90
96.9 CRISPR;97.80
90.6 CRISPR;93.00 blast;88.70 iPhoP-RF;75.70
95.9 blast;97.10 iPhoP-RF;81.40 CRISPR;55.60
95.3 blast;96.70 iPhoP-RF;79.30
98.4 CRISPR;98.40 blast;96.90 iPhoP-RF;96.70 RaFAH;61.70
95.6 blast;96.90 CRISPR;96.30 iPhoP-RF;91.80
90.4 blast;92.90 iPhoP-RF;70.60
95.2 blast;96.60 iPhoP-RF;73.20
97.9 CRISPR;98.50 iPhoP-RF;80.00
100 CRISPR;98.90 RaFAH;94.40 iPhoP-RF;92.10
99.9 CRISPR;98.50 iPhoP-RF;96.40 blast;95.20 RaFAH;94.40
98.2 RaFAH;94.40 iPhoP-RF;88.50
90.7 iPhoP-RF;93.10
90.7 iPhoP-RF;93.10
95.4 blast;96.80 iPhoP-RF;83.90 CRISPR;68.80
99.7 CRISPR;98.90 iPhoP-RF;96.10 blast;92.80 RaFAH;88.00
99.4 CRISPR;98.10 iPhoP-RF;93.40 RaFAH;88.00
97.2 iPhoP-RF;91.80 blast;90.60 RaFAH;88.00
97.5 blast;96.90 iPhoP-RF;93.10 RaFAH;71.20
97.9 blast;98.50 iPhoP-RF;86.30 CRISPR;68.10
100 RaFAH;98.70 iPhoP-RF;97.10
95.3 iPhoP-RF;96.70 blast;93.10 CRISPR;75.20
91.4 blast;93.70 iPhoP-RF;78.30
94.9 blast;96.40 iPhoP-RF;80.00 CRISPR;51.40
100 RaFAH;99.00 blast;92.00 iPhoP-RF;53.80
95.9 iPhoP-RF;97.10 blast;96.90 CRISPR;84.00
99.3 iPhoP-RF;97.10 blast;96.60 RaFAH;89.70
93.9 iPhoP-RF;95.70 blast;86.80
99.7 CRISPR;98.30 blast;96.90 RaFAH;90.40 iPhoP-RF;73.70
99.4 iPhoP-RF;97.10 RaFAH;91.20
95.9 iPhoP-RF;97.10 CRISPR;60.90
99 CRISPR;99.20 blast;98.60 iPhoP-RF;93.10
93.4 CRISPR;95.30 blast;93.90 iPhoP-RF;93.10
90.4 blast;92.90 iPhoP-RF;57.10
94.6 CRISPR;96.20 iPhoP-RF;79.00
91.6 blast;93.90 iPhoP-RF;80.30
99.9 blast;96.90 RaFAH;96.10 iPhoP-RF;83.60
94.5 RaFAH;96.10
100 RaFAH;99.60 iPhoP-RF;97.10 blast;92.20 CRISPR;69.50
95.4 blast;96.80 iPhoP-RF;96.40 CRISPR;92.60
95.4 blast;96.80 iPhoP-RF;65.60
95.6 blast;96.90 iPhoP-RF;73.20 CRISPR;56.90
100 RaFAH;99.70 iPhoP-RF;93.10 blast;92.70
96.6 CRISPR;97.60 blast;96.40 iPhoP-RF;91.10
96.7 CRISPR;97.70 iPhoP-RF;58.40
100 RaFAH;99.60 iPhoP-RF;94.40 blast;93.80 CRISPR;92.60
100 CRISPR;99.00 RaFAH;98.20 blast;93.90 iPhoP-RF;93.70
95.3 blast;96.70 iPhoP-RF;67.00

S3_vs_89485 73.42 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes 95 blast;96.50 iPhoP-RF;93.40
S3_vs_90331 99.17 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium 100 RaFAH;98.70 CRISPR;97.70 blast;92.00 iPhoP-RF;85.70
S3_vs_90341 11.42 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__UBA11524 95.2 blast;96.60 CRISPR;94.50 iPhoP-RF;85.70
S3_vs_90341 11.42 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__UBA11524 94.9 blast;96.40 iPhoP-RF;85.10
S3_vs_9158 99.96 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides 100 RaFAH;99.60 iPhoP-RF;97.10 blast;96.90
S3_vs_9158 99.96 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola 95.3 iPhoP-RF;96.70 blast;90.50
S3_vs_94577 45.75 d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Faecalibacillus 97.8 blast;98.40
S3_vs_95574 22.37 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__UBA737 90.4 blast;92.90 iPhoP-RF;70.60
S3_vs_97827 10.17 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Odoribacter 97.9 blast;98.50 iPhoP-RF;90.10 CRISPR;71.50
S3_vs_98675 8.18 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium 98.5 blast;96.40 RaFAH;85.10 iPhoP-RF;79.00
S4_vf_10506 17.1 d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemanella 90.7 blast;93.10
S4_vf_11308 96.94 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Ruminococcus_E 100 CRISPR;98.90 blast;98.50 RaFAH;97.10 iPhoP-RF;93.70
S4_vf_11308 96.94 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D 95.9 RaFAH;97.10
S4_vf_12614 80.07 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Barnesiellaceae;g__Barnesiella 98.7 blast;99.00 iPhoP-RF;76.10 CRISPR;67.90
S4_vf_12624 24.52 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium 97.5 CRISPR;98.20 blast;96.50 iPhoP-RF;91.80
S4_vf_13353 93.68 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A 99.9 CRISPR;97.90 RaFAH;95.20 blast;90.90 iPhoP-RF;89.20
S4_vf_13353 93.68 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A 93.2 RaFAH;95.20
S4_vf_18803 47.59 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella 98.5 CRISPR;98.90 iPhoP-RF;74.10
S4_vf_20440 44.47 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella 97.8 blast;98.40 iPhoP-RF;84.20
S4_vf_30103 5.83 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium 99.7 CRISPR;99.70 iPhoP-RF;92.10
S4_vf_31973 23.92 d_Bacteria;p__Patescibacteria;c__Paceibacteria;o__UBA9983_A;f__UBA1006;g__O1-FULL-36-10b 92.2 iPhoP-RF;94.40
S4_vf_31978 62.52 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Lachnospira 99.6 CRISPR;99.60 blast;93.90 iPhoP-RF;92.40
S4_vf_31979 24.1 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Ventricola 92 blast;94.20
S4_vf_31979 24.1 d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__SFFH01 91.5 blast;93.80
S4_vf_31981 29.33 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella 97.3 RaFAH;98.10
S4_vf_4838 76.93 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides 97.6 blast;98.30 iPhoP-RF;96.10 CRISPR;71.50
S4_vf_4891 28.59 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella 94.6 blast;96.20 CRISPR;93.50 iPhoP-RF;92.10
S4_vs_VIRSorter_12831-c 21.81 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A 91.6 blast;93.90 iPhoP-RF;85.10 CRISPR;58.50
S4_vs_VIRSorter_13190-c 96.31 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides 100 RaFAH;99.80 iPhoP-RF;94.40 blast;91.20 CRISPR;66.50
S4_vs_VIRSorter_15112-c 16.47 d_Bacteria;p__Firmicutes;c__Clostridia;o__Peptostreptococcales;f__Peptostreptococcaceae;g__GCA-900066495 91.6 blast;93.90 iPhoP-RF;75.70
S4_vs_VIRSorter_15837-c 96.3 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor 97.2 blast;98.00 CRISPR;89.70 iPhoP-RF;84.80
S4_vs_VIRSorter_16493-c 85.89 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium 97.9 CRISPR;98.50 iPhoP-RF;96.40 blast;92.50
S4_vs_VIRSorter_19324-c 25.86 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter 91.4 blast;93.70 iPhoP-RF;76.40
S4_vs_VIRSorter_19324-c 25.86 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Faecalimonas 91 blast;93.40 iPhoP-RF;75.20
S4_vs_VIRSorter_27316-c 74.11 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium 95.4 blast;96.80 iPhoP-RF;75.00 CRISPR;67.80
S4_vs_VIRSorter_2744-ca 9.58 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium 96 CRISPR;97.20 iPhoP-RF;97.10 blast;96.70
S4_vs_VIRSorter_3006-ca 99.88 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter 91.6 blast;93.90
S4_vs_VIRSorter_30222-c 65.61 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Intestinimonas 91.5 blast;93.80
S4_vs_VIRSorter_31171-c 46.28 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__QAMM01 90.2 blast;92.70 iPhoP-RF;54.90
S4_vs_VIRSorter_31196-c 93.39 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor 99.4 CRISPR;97.90 blast;96.20 iPhoP-RF;88.90 RaFAH;87.70
S4_vs_VIRSorter_31560-c 59.79 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor 90.3 blast;92.80 iPhoP-RF;86.30 CRISPR;64.80
S4_vs_VIRSorter_31916-c 39.89 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter 90.7 blast;93.10 iPhoP-RF;68.20
S4_vs_VIRSorter_31972-c 26.41 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_C 97.3 blast;98.10 CRISPR;93.20 iPhoP-RF;90.50
S4_vs_VIRSorter_31975-c 88.33 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides 99.6 iPhoP-RF;97.10 blast;96.60 CRISPR;94.50 RaFAH;92.70
S4_vs_VIRSorter_31975-c 88.33 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola 95.9 iPhoP-RF;97.10 blast;90.60 CRISPR;74.40
S4_vs_VIRSorter_31976-c 17.17 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Gemmiger 97.2 CRISPR;98.00 blast;96.20 iPhoP-RF;93.70
S4_vs_VIRSorter_31980-c 13.26 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Duodenibacillus 96.7 blast;97.70 CRISPR;83.90 iPhoP-RF;70.60
S4_vs_VIRSorter_4746-ca 5.45 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Roseburia 90.3 iPhoP-RF;92.80
S4_vs_VIRSorter_4839-ca 69.64 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massilimalliae 91.4 blast;93.70 iPhoP-RF;75.70
S4_vs_VIRSorter_4959-ca 50.34 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4 94.2 blast;95.90 iPhoP-RF;82.50
S4_vs_VIRSorter_5698-ca 87.05 d_Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium 99 CRISPR;98.50 blast;96.80 iPhoP-RF;96.10 RaFAH;71.90
S4_vs_VIRSorter_6022-cir 97.71 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Marseille-P3160 98.4 CRISPR;98.80 iPhoP-RF;65.30
S4_vs_VIRSorter_6022-cir 97.71 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Odoribacter 97.3 RaFAH;98.10
S4_vs_VIRSorter_9913-ca 98.3 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Odoribacter 99.7 CRISPR;97.90 RaFAH;92.60
S5_vf_103206 3.75 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Lawsonibacter 90 blast;92.50
S5_vf_105728 44.2 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__ 94.5 iPhoP-RF;96.10 blast;93.40
S5_vf_105728 44.2 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__UCS-1-2E3 93.1 iPhoP-RF;95.10 blast;91.90
S5_vf_116300 13.55 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Anaerostipes 95.2 blast;96.60 iPhoP-RF;90.50 CRISPR;69.90
S5_vf_134040 100 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium 100 RaFAH;98.80 blast;96.50 iPhoP-RF;69.10
S5_vf_136076 43.14 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4 93 blast;95.00 iPhoP-RF;69.80
S5_vf_137260 6.74 d_Bacteria;p__Actinobacteriota;c__Coriobacteriales;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella 92.9 CRISPR;94.90
S5_vf_145579 44.59 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella 94.6 RaFAH;96.20
S5_vf_145583 10.99 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium 95.2 blast;93.60 iPhoP-RF;80.80 RaFAH;73.30 CRISPR;62.00
S5_vf_145585 9.85 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster 91.2 blast;93.60 iPhoP-RF;91.40 CRISPR;53.80
S5_vf_145588 34.8 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea_A 97.2 CRISPR;98.00 iPhoP-RF;64.30
S5_vf_145604 87.41 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A 99.6 CRISPR;97.30 RaFAH;93.30 blast;92.90 iPhoP-RF;91.80
S5_vf_145604 87.41 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia 90.9 RaFAH;93.30
S5_vf_18461 99.96 d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes 92.7 RaFAH;92.00 blast;67.20
S5_vf_21869 31.69 d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor 93.1 blast;95.10 iPhoP-RF;73.90
S5_vf_25423 81 d_Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Lactococcus 100 RaFAH;98.80 blast;98.50 iPhoP-RF;91.40
S5_vf_28061 20.02 d_Bacteria;p__Firmicutes;c__Bacilli;o__Haloplasmatales;f__Turicibacteraceae;g__Turicibacter 91.5 blast;93.80 iPhoP-RF;68.60
S5_vf_29332 12.73 d_Bacteria;p__Actinobacteriota;c__Coriobacteriales;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella 97.3 CRISPR;98.10 blast;94.60 iPhoP-RF;79.50
S5_vf_35687 91.19 d_Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Lactococcus 90.2 RaFAH;92.70
S5_vf_60597 35.7 d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerotiaceae;g__Anaerotignum 93.9 blast;95.70 iPhoP-RF;84.20
S5_vf_6506 20.08 d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_J 90.3 blast;92.80 iPhoP-RF;70.90
S5_vf_74661 91.73 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Escherichia 100 RaFAH;99.40 iPhoP-RF;97.10 blast;96.80 CRISPR;85.00

S5_vf_8808 97.29 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Veillonellaceae;g_Veillonella
S5_vf_8808 97.29 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Veillonellaceae;g_F0422
S5_vf_8808 97.29 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Veillonellaceae;g_Veillonella_A
S5_vf_8965 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S5_vf_8965 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S5_vs_10428 10.64 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Alectryocaccamicrobium
S5_vs_107105 21.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-110
S5_vs_107105 21.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Faecosia
S5_vs_109527 23.09 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S5_vs_109527 23.09 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S5_vs_117319 51.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S5_vs_117417 13.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Entereneus
S5_vs_118168 30.01 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus
S5_vs_120079 88.37 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S5_vs_120079 88.37 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_VUN101
S5_vs_120584 98.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S5_vs_121411 100 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
S5_vs_122344 26.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S5_vs_122344 26.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S5_vs_122618 17.7 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ
S5_vs_123256 98.81 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S5_vs_123256 98.81 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S5_vs_124035 7.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S5_vs_124677 26.54 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S5_vs_128398 22.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus
S5_vs_129970 93.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S5_vs_130032 98.82 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacterales;f_Enterobacteriaceae;g_Escherichia
S5_vs_130294 55.97 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S5_vs_130958 18.11 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus
S5_vs_131510 95 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S5_vs_13254 8.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
S5_vs_1338 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S5_vs_1338 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S5_vs_137154 10.76 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium
S5_vs_139401 12.88 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes
S5_vs_140946 9.68 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS856
S5_vs_141621 97.16 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes
S5_vs_142195 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S5_vs_142195 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S5_vs_145578 39.67 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S5_vs_145581 9.66 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_Christensenellaceae;g_Christensenella
S5_vs_145590 39.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Clostridium_AP
S5_vs_145590 39.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium_B
S5_vs_145597 20.03 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_NSI-53;g_NSI-53
S5_vs_145598 95.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S5_vs_145598 95.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S5_vs_145602 37.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutyrium
S5_vs_145605 17.51 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_SFTH01
S5_vs_145611 45.88 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Phocae
S5_vs_1572 97.34 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S5_vs_17520 39.12 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella
S5_vs_17520 39.12 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lacrimispora
S5_vs_20268 22.4 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S5_vs_20500 99.42 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S5_vs_21778 11.27 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S5_vs_28263 16.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter
S5_vs_30490 42.23 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S5_vs_32885 19.8 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Anaerotruncus
S5_vs_3501 32.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1691
S5_vs_3501 32.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Fimivincinus
S5_vs_40848 58.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S5_vs_43207 30.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricococcaceae;g_Agathobaculum
S5_vs_46394 8.87 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_QAND01;g_UMGS1975
S5_vs_4737 20.64 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Limiplasma
S5_vs_4737 20.64 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Firm-11
S5_vs_51416 11.18 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania
S5_vs_58766 24.99 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Frisingicoccus
S5_vs_59798 40.34 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Faecalimonas
S5_vs_60507 96.47 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S5_vs_63924 98.89 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S5_vs_6478 66.33 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactobacillus
S5_vs_6478 66.33 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lacticaiseibacillus
S5_vs_6478 66.33 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Ligilactobacillus
S5_vs_6478 66.33 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Limosilactobacillus
S5_vs_65490 3.66 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S5_vs_68254 58.14 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A

100 CRISPR;98.80 RaFAH;98.60 blast;93.70 iPhoP-RF;78.30
98.1 RaFAH;98.60
98.1 RaFAH;98.60
100 RaFAH;99.60 iPhoP-RF;97.10 blast;96.30
95.9 iPhoP-RF;97.10
91.4 blast;93.70
94.7 blast;96.30 iPhoP-RF;67.00
90.8 blast;93.20 iPhoP-RF;64.50
99 iPhoP-RF;96.40 blast;92.90 RaFAH;89.10
92.6 iPhoP-RF;94.70 blast;89.10
98.4 blast;95.50 RaFAH;86.90 CRISPR;78.90 iPhoP-RF;76.80
90.7 blast;93.10 iPhoP-RF;70.90
91 blast;93.40 iPhoP-RF;57.30
95.3 blast;96.70 iPhoP-RF;96.40 CRISPR;84.10
91 iPhoP-RF;93.40 blast;89.80
97.5 CRISPR;98.20 blast;93.50 iPhoP-RF;88.90
95.3 blast;96.70 iPhoP-RF;87.60 CRISPR;68.40
97.6 CRISPR;98.30 blast;95.70 iPhoP-RF;93.10
94 CRISPR;95.80 iPhoP-RF;73.90
95.4 blast;96.80 iPhoP-RF;71.10 CRISPR;66.50
100 RaFAH;97.10 blast;96.90 iPhoP-RF;96.10
95.9 RaFAH;97.10
91.2 blast;93.60 iPhoP-RF;53.30
97 CRISPR;97.90 blast;96.90 iPhoP-RF;90.80
93.6 blast;95.50 iPhoP-RF;82.20
100 RaFAH;99.60 blast;92.90 iPhoP-RF;92.80
100 RaFAH;99.70 blast;96.90 iPhoP-RF;91.40 CRISPR;72.80
95.6 blast;96.90 iPhoP-RF;81.60
94.2 blast;95.90 iPhoP-RF;70.40
100 RaFAH;97.50 blast;96.90 iPhoP-RF;96.40
95 blast;96.50 iPhoP-RF;85.40
100 RaFAH;97.80 blast;97.50 iPhoP-RF;76.10
99 RaFAH;97.80 blast;81.20
91.7 blast;94.00 iPhoP-RF;67.30
90.9 blast;93.30 CRISPR;68.40 iPhoP-RF;67.50
93.9 blast;95.70 iPhoP-RF;76.80
96.4 blast;95.60 CRISPR;90.90 iPhoP-RF;88.90 RaFAH;72.10
99.9 RaFAH;99.80
95.6 blast;96.90 iPhoP-RF;94.10
95.2 blast;96.60 iPhoP-RF;76.10 CRISPR;54.30
90.4 blast;92.90 iPhoP-RF;86.30
91.4 iPhoP-RF;93.70
91 iPhoP-RF;93.40 blast;92.10
94 blast;95.80 iPhoP-RF;60.10
92.1 blast;94.30 iPhoP-RF;91.80
91 iPhoP-RF;93.40 blast;91.60 CRISPR;61.60
90.7 blast;93.10 iPhoP-RF;65.30
90.3 blast;92.80 iPhoP-RF;68.20
90.7 blast;93.10 iPhoP-RF;78.00
91.6 blast;93.90 iPhoP-RF;61.70
95.9 iPhoP-RF;97.10 CRISPR;88.40
91.4 iPhoP-RF;93.70
98.5 CRISPR;98.90 blast;96.50 iPhoP-RF;89.50
95.6 blast;96.90 iPhoP-RF;96.70
90.4 blast;92.90 iPhoP-RF;59.20
91.6 blast;93.90 iPhoP-RF;86.30 CRISPR;58.00
99.3 blast;97.10 RaFAH;90.30 iPhoP-RF;87.30 CRISPR;71.60
92.3 blast;94.50 CRISPR;93.00 iPhoP-RF;81.90
95.6 blast;96.90 iPhoP-RF;90.10 CRISPR;85.90
94.5 blast;96.10 iPhoP-RF;85.40
95.6 blast;96.90 iPhoP-RF;92.80
91.1 blast;93.50 iPhoP-RF;70.60
90.3 blast;92.80 iPhoP-RF;62.70
93.9 blast;95.70 iPhoP-RF;68.40
91.5 blast;93.80 iPhoP-RF;73.00
90.3 blast;92.80 CRISPR;73.80 iPhoP-RF;66.50
93.8 blast;95.60 iPhoP-RF;76.60
91.4 blast;93.70 iPhoP-RF;91.10 CRISPR;78.90
100 RaFAH;99.70 blast;92.80 iPhoP-RF;91.10 CRISPR;52.30
99 CRISPR;97.70 iPhoP-RF;96.70 blast;95.40 RaFAH;82.40
100 RaFAH;99.60 iPhoP-RF;96.70 blast;95.40 CRISPR;68.80
99.6 RaFAH;99.60
99.6 RaFAH;99.60
99.6 RaFAH;99.60
91.2 blast;93.60 iPhoP-RF;56.20
93.8 blast;93.80 iPhoP-RF;81.90 RaFAH;64.30

S5_vs_69980 76.63 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
 S5_vs_72532 82.39 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S5_vs_74199 13.11 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
 S5_vs_76500 80.28 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
 S5_vs_77593 41.43 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103
 S5_vs_79992 99.98 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
 S5_vs_79992 99.98 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
 S5_vs_80496 99.85 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S5_vs_80496 33.04 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes
 S5_vs_8125 19.38 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_G
 S5_vs_84574 8.38 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Agathobaculum
 S5_vs_84946 94.46 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
 S5_vs_84946 94.46 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea
 S5_vs_850 18.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_UBA1212;f_UBA1255;g_Egeriisoma
 S5_vs_850 18.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_UBA1212;f_UBA1255;g_UMGS1537
 S5_vs_85065 67.47 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
 S5_vs_86562 44.1 d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
 S5_vs_89540 26.84 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Limosilactobacillus
 S5_vs_93839 98.83 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
 S5_vs_93839 98.83 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
 S5_vs_95307 57.8 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaulia
 S5_vs_9747 6.96 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
 S5_vs_97574 99.69 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaulia_A
 S5_vs_97574 99.69 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaulia
 S6_vf_25710 89.8 d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
 S6_vf_56486 65.79 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S6_vs_1146 50.09 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
 S6_vs_12945 99.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
 S6_vs_12945 99.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
 S6_vs_12945 99.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115
 S6_vs_12945 99.74 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-81
 S6_vs_15390 33.39 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
 S6_vs_15813 90.87 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
 S6_vs_29152 23.31 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Acetatifactor
 S6_vs_32886 6.93 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
 S6_vs_33711 86.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
 S6_vs_34453 77 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
 S6_vs_38250 15.25 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_UBA3818
 S6_vs_39025 99.25 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
 S6_vs_39065 83.64 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
 S6_vs_44070 14.4 d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_51-20
 S6_vs_46039 24.66 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S6_vs_46091 25.96 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus
 S6_vs_53966 51.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
 S6_vs_54606 99.52 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaulia
 S6_vs_54606 99.52 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_B
 S6_vs_56485 14.92 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania
 S6_vs_56490 26.23 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1071
 S6_vs_56491 92.92 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas
 S6_vs_56492 27.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Agathobaculum
 S6_vs_56496 61.48 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Marvinbryantia
 S6_vs_56498 78.58 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes
 S6_vs_9784 91.55 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S6_vs_9784 91.55 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
 S7_vf_114476 27.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anarobutyricum
 S7_vf_117697 98.64 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
 S7_vf_134023 98.64 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S7_vf_13614 12.46 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
 S7_vf_138019 39.23 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
 S7_vf_138069 8.23 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter
 S7_vf_27309 78.93 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
 S7_vf_28429 18.88 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S7_vf_29941 86.01 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
 S7_vf_37279 79.47 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus
 S7_vf_37279 64.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S7_vf_37279 64.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
 S7_vf_37293 98.54 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
 S7_vf_37293 98.54 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
 S7_vf_38697 61.28 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Massiliomicrobiota
 S7_vf_39724 99.39 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
 S7_vf_49007 85 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
 S7_vf_49485 64.81 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes
 S7_vf_5801 93.48 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
 S7_vf_5801 93.48 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
 S7_vf_5843 19.99 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
 S7_vf_60968 71.38 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_B

95.3 blast;96.70 iPhoP-RF;96.40 CRISPR;95.20
 99.4 blast;96.90 iPhoP-RF;96.70 RaFAH;92.20
 90.4 blast;92.90 iPhoP-RF;92.10
 99 blast;96.90 iPhoP-RF;94.40 RaFAH;87.40
 90.6 blast;93.00 iPhoP-RF;71.70
 100 RaFAH;98.20 blast;97.10 iPhoP-RF;96.70
 97.5 RaFAH;98.20
 99.7 blast;96.90 iPhoP-RF;96.10 RaFAH;95.90
 93.2 blast;95.20 iPhoP-RF;90.50
 90.6 blast;93.00 iPhoP-RF;53.30
 91.6 blast;93.90 iPhoP-RF;81.10
 90.2 blast;92.70 iPhoP-RF;83.60
 90.1 blast;92.60 iPhoP-RF;75.20
 92.7 blast;94.80 iPhoP-RF;85.10
 92.7 blast;94.80 CRISPR;80.00 iPhoP-RF;78.30
 95.3 blast;96.70
 100 RaFAH;99.10 CRISPR;98.80 blast;96.90 iPhoP-RF;89.20
 94.2 blast;93.40 iPhoP-RF;81.90 RaFAH;68.80
 100 RaFAH;98.90 iPhoP-RF;96.70 blast;95.50
 98.5 RaFAH;98.90
 92 blast;91.60 iPhoP-RF;73.20 RaFAH;65.20
 93 blast;95.00 iPhoP-RF;69.80
 100 RaFAH;99.30 CRISPR;95.90 blast;93.60 iPhoP-RF;92.10
 99.1 RaFAH;99.30
 99.7 CRISPR;97.30 RaFAH;94.60 blast;93.60 iPhoP-RF;72.60
 99.6 iPhoP-RF;96.10 RaFAH;94.70
 98.4 blast;96.90 iPhoP-RF;86.00 RaFAH;81.40
 99.3 RaFAH;94.70 blast;88.50 iPhoP-RF;74.80
 97.9 RaFAH;94.70 blast;86.00
 96.4 RaFAH;94.70 blast;76.10
 90.9 blast;93.30
 90.8 blast;93.20 iPhoP-RF;92.10
 99.3 blast;98.10 RaFAH;85.50 iPhoP-RF;85.10 CRISPR;56.80
 91.2 blast;93.60
 94.2 blast;95.90 iPhoP-RF;66.30
 94 blast;95.80 iPhoP-RF;85.40 CRISPR;69.40
 93.6 blast;95.50 iPhoP-RF;64.30
 94.3 blast;96.00 iPhoP-RF;76.10
 91.6 blast;93.90
 94.6 blast;96.20 iPhoP-RF;75.20
 94.7 blast;96.30 iPhoP-RF;72.60
 93 CRISPR;93.00 blast;89.60 iPhoP-RF;82.50 RaFAH;64.10
 96.6 blast;97.60 iPhoP-RF;83.30 CRISPR;69.80
 98.7 blast;96.30 iPhoP-RF;90.50 RaFAH;86.50
 97 RaFAH;91.10 blast;88.40
 91.2 blast;93.60 iPhoP-RF;61.70
 94.7 CRISPR;96.30 blast;94.30 iPhoP-RF;79.80
 95.9 blast;97.10 iPhoP-RF;83.90 CRISPR;68.20
 97.5 blast;98.20 iPhoP-RF;75.20
 98.2 blast;98.70 iPhoP-RF;66.80
 91.2 blast;93.60 iPhoP-RF;65.10
 91 blast;93.40 iPhoP-RF;69.80
 100 RaFAH;97.10 iPhoP-RF;96.70 blast;93.90
 94.9 iPhoP-RF;96.40
 94.3 blast;96.00 iPhoP-RF;74.30
 96.9 CRISPR;97.80 iPhoP-RF;97.10 blast;96.80
 92.6 RaFAH;94.70
 95 blast;96.50 iPhoP-RF;54.40
 95.4 blast;96.80 iPhoP-RF;95.40 CRISPR;50.20
 91.1 blast;93.50 iPhoP-RF;50.40
 99.6 RaFAH;99.40 iPhoP-RF;67.30
 96.3 CRISPR;97.40 iPhoP-RF;93.70
 100 CRISPR;99.00 RaFAH;98.30 iPhoP-RF;94.10 blast;93.90
 99.4 blast;97.20 RaFAH;91.90 iPhoP-RF;73.90
 99.7 CRISPR;98.80 iPhoP-RF;97.10 blast;90.80 RaFAH;87.70
 98.2 CRISPR;98.70 iPhoP-RF;95.10 blast;91.00
 100 RaFAH;99.60 CRISPR;99.00 iPhoP-RF;54.10
 90.1 blast;92.60
 94.2 blast;95.90 iPhoP-RF;74.30
 99.4 RaFAH;99.50
 100 CRISPR;98.70 RaFAH;97.80 iPhoP-RF;68.00
 98.5 CRISPR;98.90 iPhoP-RF;56.20
 100 RaFAH;96.60 iPhoP-RF;96.40 blast;91.00
 95 blast;96.50 iPhoP-RF;95.70 CRISPR;71.30
 96.3 blast;97.40 CRISPR;97.30 iPhoP-RF;93.40
 97.8 blast;98.40 iPhoP-RF;81.40 CRISPR;66.90

S7_vf_63894 77.84 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Leuconostoc
S7_vf_67910 11.86 d_Bacteria;p_Actinobacteriota;c_Coribacteriales;o_Coribacteriales;f_Eggerthellaceae;g_Eggerthella
S7_vf_68239 31.22 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus
S7_vf_68546 29.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Faecalimonas
S7_vf_68546 29.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus
S7_vf_71527 3.4 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S7_vf_72493 13.24 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerostigaceae;g_UMGS1670
S7_vf_76463 42.93 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103
S7_vf_8332 10.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
S7_vf_84974 91.7 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S7_vf_89197 89.48 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus
S7_vs_101751 99.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S7_vs_101751 99.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia
S7_vs_103530 35.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Agathobaculum
S7_vs_11081 95.36 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S7_vs_111831 38.83 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S7_vs_118295 43.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S7_vs_118295 43.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S7_vs_119679 99.98 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S7_vs_119679 99.98 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S7_vs_129271 12.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1691
S7_vs_129271 12.57 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Fimivincinus
S7_vs_129858 10.46 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Firm-11
S7_vs_13041 17.74 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium
S7_vs_13370 8.9 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S7_vs_134391 17.86 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_UMGS1783;g_UMGS1783
S7_vs_134784 77.29 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Dialisteraceae;g_Dialister
S7_vs_135322 34.72 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S7_vs_135679 23.81 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S7_vs_135679 23.81 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia
S7_vs_135828 3.2 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S7_vs_137611 29.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutyricum
S7_vs_137915 55.05 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S7_vs_13799 38.3 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
S7_vs_137998 42.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S7_vs_138109 31.21 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutyricum
S7_vs_138116 5.66 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter
S7_vs_138173 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S7_vs_138173 100 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S7_vs_16344 12.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S7_vs_21521 35.28 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminiclostridium_E
S7_vs_2599 89.5 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S7_vs_26757 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S7_vs_28150 12.25 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S7_vs_28733 56.54 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Hydrogeniclostridium
S7_vs_29595 82.91 d_Bacteria;p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
S7_vs_30640 25.04 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_G
S7_vs_30665 8.94 d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524
S7_vs_38113 17.89 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Hydrogeniclostridium
S7_vs_38834 25.72 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115
S7_vs_38834 25.72 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
S7_vs_41098 97.6 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter
S7_vs_42563 93.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
S7_vs_47050 16.97 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-180
S7_vs_47050 16.97 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Fimeneus
S7_vs_48523 66.97 d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Sutterella
S7_vs_48708 42.25 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S7_vs_49426 18.87 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
S7_vs_4956 54.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_
S7_vs_50194 18.68 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S7_vs_50194 18.68 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S7_vs_51332 13.21 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Coprobacteraceae;g_Coprobacter
S7_vs_5236 93.85 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103
S7_vs_54322 65.6 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S7_vs_55031 23.56 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides
S7_vs_55526 22.37 d_Bacteria;p_Actinobacteriota;c_Coribacteriales;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella
S7_vs_557 66.78 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S7_vs_557 66.78 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaicola
S7_vs_60775 62.59 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_F
S7_vs_65719 47.93 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S7_vs_69630 35.61 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S7_vs_72737 3.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S7_vs_73280 86.44 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
S7_vs_78507 36.34 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S7_vs_83100 97.77 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S7_vs_83474 31.73 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor

96.2 iPhoP-RF;93.70 RaFAH;78.60
94.5 blast;96.10
93.1 RaFAH;95.10
94.5 CRISPR;96.10 iPhoP-RF;76.10
94 CRISPR;95.80 iPhoP-RF;84.80
93.1 iPhoP-RF;95.10 blast;94.30 CRISPR;92.20
92.5 blast;94.60 iPhoP-RF;65.10
95.3 CRISPR;96.70
98.5 CRISPR;98.90 blast;96.20 iPhoP-RF;94.70
99.9 RaFAH;98.40 blast;92.10 iPhoP-RF;63.30 CRISPR;56.10
96.6 RaFAH;95.80 iPhoP-RF;71.50
99.7 RaFAH;94.40 blast;93.60 iPhoP-RF;76.80
94.5 RaFAH;94.40 iPhoP-RF;64.80
94.2 blast;95.90 iPhoP-RF;60.30
100 RaFAH;98.70 iPhoP-RF;94.70 blast;91.00
97.2 blast;98.00 iPhoP-RF;88.90 CRISPR;82.40
91.7 blast;94.00 iPhoP-RF;75.40
91.4 blast;93.70 iPhoP-RF;80.80
100 blast;98.70 RaFAH;98.60 iPhoP-RF;97.10
98.1 RaFAH;98.60
98.5 CRISPR;98.90 blast;97.30 iPhoP-RF;82.80
93.9 blast;95.70 iPhoP-RF;80.30
91.4 blast;93.70 iPhoP-RF;85.40 CRISPR;50.00
94.5 blast;96.10 iPhoP-RF;74.60 CRISPR;54.40
97 blast;97.90 iPhoP-RF;90.10 CRISPR;77.30
94.9 blast;96.40 iPhoP-RF;84.80 CRISPR;79.10
97.3 CRISPR;97.40 blast;96.60 iPhoP-RF;92.80 RaFAH;63.90
99.7 CRISPR;98.30 blast;91.90 RaFAH;90.70 iPhoP-RF;90.50
99.6 blast;96.50 RaFAH;94.00 iPhoP-RF;90.10
91.7 RaFAH;94.00
93 blast;95.00 iPhoP-RF;86.00
95 blast;96.50 iPhoP-RF;87.60
98.1 CRISPR;98.30 blast;90.90 iPhoP-RF;85.40 RaFAH;59.50
93 blast;95.00 iPhoP-RF;94.70 CRISPR;72.50
93.4 blast;95.30 iPhoP-RF;78.00
91 blast;93.40 iPhoP-RF;75.90
91.5 blast;93.80 iPhoP-RF;89.50
100 RaFAH;98.50 blast;94.70 iPhoP-RF;74.10
97.9 RaFAH;98.50
98.8 CRISPR;99.10 blast;96.90 iPhoP-RF;95.70
90 blast;92.50 iPhoP-RF;74.80
100 RaFAH;99.30 iPhoP-RF;94.40 blast;93.90
94.6 blast;96.20 iPhoP-RF;85.10
94.2 blast;95.90 iPhoP-RF;74.10
95.2 blast;96.60 iPhoP-RF;62.20
99.4 CRISPR;99.50 iPhoP-RF;57.30
94.3 blast;96.00 iPhoP-RF;75.20
93.8 CRISPR;95.60 blast;92.80 iPhoP-RF;92.40
91.7 blast;94.00 iPhoP-RF;64.50
91.5 blast;93.80
90.1 blast;92.60 iPhoP-RF;69.50
95.4 blast;96.80
96.3 blast;96.80 iPhoP-RF;75.40 RaFAH;59.00
98.7 CRISPR;99.00 blast;96.60 iPhoP-RF;92.40
97.5 blast;98.20 iPhoP-RF;92.10
91.6 blast;93.90
90.9 blast;93.30 iPhoP-RF;69.50
91.5 blast;93.80 iPhoP-RF;71.30
91.6 blast;93.90 iPhoP-RF;83.30
96.9 blast;90.90 RaFAH;87.90 iPhoP-RF;85.70
96.6 blast;89.90 RaFAH;87.90
94.5 blast;96.10 iPhoP-RF;53.30
93.5 CRISPR;95.40
98.7 blast;96.80 CRISPR;95.60 iPhoP-RF;87.30 RaFAH;84.00
98.1 blast;98.60 CRISPR;97.70 iPhoP-RF;89.20
98.7 CRISPR;99.00 blast;93.80 iPhoP-RF;84.50
99.3 iPhoP-RF;97.10 blast;93.70 RaFAH;89.50
94.9 iPhoP-RF;96.40 blast;82.80
91.6 blast;93.90
95.7 CRISPR;97.00 blast;94.90 iPhoP-RF;88.90
94.7 blast;96.30 iPhoP-RF;65.10
97.9 blast;98.50 iPhoP-RF;96.40
99.1 CRISPR;99.30 iPhoP-RF;97.10 blast;96.90
90.8 blast;93.20 iPhoP-RF;70.90
97.8 blast;98.40 iPhoP-RF;85.10 CRISPR;74.00
93.9 blast;95.70 iPhoP-RF;90.80

S7_vs_86377 91.04 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricos 92 blast;94.20 iPhoP-RF;79.50
 S7_vs_86377 91.04 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium_B 91.2 blast;93.60 iPhoP-RF;74.80
 S7_vs_87279 66.77 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium 95.2 blast;96.60 iPhoP-RF;62.50
 S7_vs_87439 31.68 d_Bacteria;p_Verrucomicrobiota;c_Lentisphaeria;o_Victivallaeae;f_Victivallaceae;g_Victivallis 90.2 blast;92.70 iPhoP-RF;71.10
 S7_vs_944 66.43 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides 100 RaFAH;98.90 iPhoP-RF;96.70 blast;91.80
 S7_vs_94738 58.62 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavinifractor 91.2 blast;93.60 iPhoP-RF;71.30
 S7_vs_97737 56.07 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium 95.6 blast;96.90 iPhoP-RF;91.80
 S8_vs_101283 99.72 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium 100 RaFAH;99.60 CRISPR;98.20 blast;95.50 iPhoP-RF;84.80
 S8_vs_102058 92.39 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Micrococcaceae;g_Rothia 100 RaFAH;99.40 CRISPR;98.40 iPhoP-RF;80.80
 S8_vs_111790 20.45 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavinifractor 91.6 blast;93.90 iPhoP-RF;81.10
 S8_vs_117796 71.62 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella 91.1 blast;93.50 iPhoP-RF;88.50
 S8_vs_117796 71.62 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides 90.9 RaFAH;93.30
 S8_vs_122206 16.65 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella 94.7 blast;96.30 iPhoP-RF;90.50
 S8_vs_129423 27.49 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Leuconostoc 97.5 iPhoP-RF;93.70 RaFAH;86.10
 S8_vs_131009 84.39 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_F 97.2 CRISPR;98.00 blast;96.80 iPhoP-RF;95.40
 S8_vs_132697 84.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter 99.9 CRISPR;98.90 RaFAH;92.10 blast;90.20 iPhoP-RF;86.30
 S8_vs_132697 84.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia 99.3 RaFAH;92.10 blast;87.10 iPhoP-RF;85.70
 S8_vs_132697 84.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira 98.7 CRISPR;99.00 blast;78.00
 S8_vs_132697 84.84 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115 96.6 RaFAH;92.10 blast;85.00
 S8_vs_134943 81.72 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus 99.7 RaFAH;99.40 iPhoP-RF;72.60
 S8_vs_13709 11.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_TANB77;f_CAG-508;g_CAG-354 90.2 blast;92.70 iPhoP-RF;70.60
 S8_vs_13758 11.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_TANB77;f_CAG-508;g_CAG-354 93.9 blast;95.70 iPhoP-RF;71.70
 S8_vs_142700 5.82 d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella 99.4 CRISPR;99.50 iPhoP-RF;93.40 blast;91.90
 S8_vs_151384 47.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger 96.3 CRISPR;97.40 blast;92.00 iPhoP-RF;89.80
 S8_vs_153696 11.92 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium 91.2 blast;93.60
 S8_vs_158225 14.69 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides 94.7 blast;96.80
 S8_vs_161703 49.06 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D 99.1 CRISPR;97.90 blast;96.80 iPhoP-RF;96.40 RaFAH;83.30
 S8_vs_16172 45.4 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides 95.9 iPhoP-RF;97.10 blast;96.90 CRISPR;92.40
 S8_vs_16172 45.4 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides 94.9 RaFAH;96.40
 S8_vs_166403 69.48 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavinifractor 95.2 blast;96.60 iPhoP-RF;72.20
 S8_vs_166677 20.94 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella 99.9 blast;98.70 CRISPR;96.60 iPhoP-RF;93.10 RaFAH;90.50
 S8_vs_170878 39.36 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83 91.2 blast;93.60 iPhoP-RF;65.00
 S8_vs_183045 35.16 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella 98.5 CRISPR;98.90 blast;93.00 iPhoP-RF;90.50
 S8_vs_187742 91.82 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium 99.6 blast;96.20 RaFAH;95.10 CRISPR;86.20 iPhoP-RF;65.30
 S8_vs_187742 91.82 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus 94.6 blast;96.20
 S8_vs_195032 5.64 d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Gordonibacter 94.9 CRISPR;96.40 iPhoP-RF;75.70
 S8_vs_195032 5.64 d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Eggerthella 91.6 blast;93.90 iPhoP-RF;69.30
 S8_vs_197061 60.03 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium 98.8 CRISPR;99.00 iPhoP-RF;97.10 blast;96.80 RaFAH;52.60
 S8_vs_201695 30.61 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotruncaceae;g_Anaerotruncum 94.2 blast;95.90 iPhoP-RF;76.40
 S8_vs_208110 79.16 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas 92 blast;94.20 iPhoP-RF;50.20
 S8_vs_208111 81.6 d_Bacteria;p_Desulfobacteriota;c_Desulfobacteriales;f_Desulfobacteriaceae;g_Bilophila 90.8 CRISPR;93.20 iPhoP-RF;60.30
 S8_vs_208115 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella 94.2 blast;95.90 iPhoP-RF;72.80
 S8_vs_208119 18.24 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium 97.2 CRISPR;97.90 RaFAH;52.10
 S8_vs_208120 99.62 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides 98.2 RaFAH;93.90 blast;88.30 iPhoP-RF;53.80
 S8_vs_208120 99.62 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides 91.6 blast;96.80 iPhoP-RF;57.90
 S8_vs_208126 48.51 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger 95.4 blast;93.90 iPhoP-RF;60.90
 S8_vs_208146 25.58 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Acidaminococcales;f_Acidaminococcaceae;g_Phascolartobacterium 93.1 CRISPR;95.10
 S8_vs_28956 91.89 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides 99.6 iPhoP-RF;96.40 RaFAH;94.20 blast;93.80
 S8_vs_28956 91.89 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola 94.9 iPhoP-RF;96.40 blast;92.70
 S8_vs_45776 88.6 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus 100 RaFAH;99.20 blast;98.30 iPhoP-RF;73.90
 S8_vs_55476 64.72 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas 91.6 blast;93.90 iPhoP-RF;82.20

S8_vs_206526 81.78 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
S8_vs_208114 9.13 d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Mailhella
S8_vs_28311 99.02 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S8_vs_40014 80.96 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S8_vs_4153 5.07 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
S8_vs_50431 20.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S8_vs_51368 31.95 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S8_vs_5211 70.75 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Massilistercora
S8_vs_54183 20.38 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170
S8_vs_59736 26.65 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Catenibacterium
S8_vs_63277 75.64 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
S8_vs_72117 19.43 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S8_vs_9114 28.26 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
S8_vs_99362 99.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S8_vs_99362 99.97 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Paraprevotella
S8_vs_9987 99.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S8_vs_9987 99.87 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S9_vf_13507 66.3 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
S9_vf_15012 97.67 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S9_vf_19284 15.56 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S9_vf_4115 96.62 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S9_vf_51656 29.36 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
S9_vf_64844 89.68 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
S9_vf_64844 89.68 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S9_vf_73311 18.82 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_CAG-274;g_CAG-274
S9_vf_76769 53.32 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
S9_vf_90856 94.47 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S9_vf_90866 15.47 d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus
S9_vf_934 17.76 d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Mycobacteriales;f_Mycobacteriaceae;g_Mycobacterium
S9_vs_14235 12.73 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_An92
S9_vs_14235 12.73 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S9_vs_1966 61.19 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus
S9_vs_19689 9.42 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricicoccaceae;g_Agathobaculum
S9_vs_21850 63.18 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
S9_vs_26179 48.62 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1071
S9_vs_2799 10.92 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S9_vs_28197 87.18 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S9_vs_28197 87.18 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S9_vs_32588 67.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea
S9_vs_32588 67.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
S9_vs_32588 67.17 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S9_vs_34898 91.82 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas
S9_vs_37437 14.86 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania
S9_vs_41371 44.35 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S9_vs_4343 24.4 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S9_vs_44331 98.52 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_B
S9_vs_4558 65.18 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S9_vs_46498 26.43 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium
S9_vs_48240 63.98 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella
S9_vs_48347 25.89 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus
S9_vs_48424 86.27 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
S9_vs_50439 93.5 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
S9_vs_55738 76 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S9_vs_5676 19.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas
S9_vs_58086 53.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A
S9_vs_58086 53.1 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea
S9_vs_62803 39.71 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas
S9_vs_62803 39.71 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospirillum_B
S9_vs_66877 29.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium
S9_vs_67792 30.5 d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Dialisteraceae;g_Dialister
S9_vs_69322 20.79 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter
S9_vs_75050 26.71 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-127
S9_vs_83108 82.91 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
S9_vs_83108 82.91 d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
S9_vs_84046 20.91 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_An92
S9_vs_88286 10.88 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella
S9_vs_90727 57.49 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
S9_vs_90846 37.71 d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ
S9_vs_90848 51.41 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
S9_vs_90849 70.89 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotrignaceae;g_Anaerotrignum
S9_vs_90851 89.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium
S9_vs_90851 89.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_F
S9_vs_90851 89.56 d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_P
S9_vs_90859 43.06 d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
S9_vs_90860 20.66 d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1591

95 blast;96.50 iPhoP-RF;50.70
90.1 blast;92.60 iPhoP-RF;81.40
100 RaFAH;97.40 blast;97.40 iPhoP-RF;96.70 CRISPR;54.10
94.6 blast;96.20 iPhoP-RF;95.70
97.9 blast;98.50 iPhoP-RF;96.40 CRISPR;53.40
91.5 blast;93.80 iPhoP-RF;50.70
91.5 blast;93.80 iPhoP-RF;85.70
90.2 blast;92.70 iPhoP-RF;58.40
91.8 CRISPR;94.10 blast;90.90 iPhoP-RF;81.90
95.6 blast;96.90
97.8 blast;98.40 iPhoP-RF;88.20
95.4 iPhoP-RF;94.40 RaFAH;71.80
91.1 blast;93.50 iPhoP-RF;82.80 CRISPR;64.80
100 RaFAH;98.30 blast;96.50 iPhoP-RF;93.40
90.2 blast;92.70
100 blast;97.60 RaFAH;97.40 iPhoP-RF;93.40
96.3 RaFAH;97.40
95.6 blast;96.90 iPhoP-RF;94.70
100 RaFAH;99.70 CRISPR;98.30 blast;94.40 iPhoP-RF;92.80
93 CRISPR;95.00
100 RaFAH;99.70 CRISPR;99.00 blast;96.80 iPhoP-RF;96.70
99 CRISPR;99.00 blast;96.30 iPhoP-RF;96.10 RaFAH;59.50
93.4 RaFAH;95.30 blast;50.00
93.4 RaFAH;95.30
97.2 CRISPR;98.00 blast;96.80 iPhoP-RF;78.70
92.6 RaFAH;94.70
100 RaFAH;99.80 CRISPR;99.00 blast;95.80 iPhoP-RF;94.40
99.3 iPhoP-RF;97.10 blast;95.70 RaFAH;90.00
92.2 iPhoP-RF;94.40
91 blast;93.40 iPhoP-RF;87.00 CRISPR;73.90
90.4 blast;92.90 iPhoP-RF;79.00 CRISPR;60.90
91.6 blast;93.90 iPhoP-RF;77.30
91.6 blast;93.90 iPhoP-RF;68.60
97.2 blast;96.90 iPhoP-RF;85.10 CRISPR;84.10 RaFAH;68.00
95.7 blast;97.00 iPhoP-RF;83.30 CRISPR;81.20
95.9 iPhoP-RF;97.10 blast;96.90
100 RaFAH;99.40 iPhoP-RF;97.10 blast;96.30
95.3 iPhoP-RF;96.70
95 RaFAH;96.50
95 RaFAH;96.50
91.6 blast;93.90 iPhoP-RF;73.70
93.9 blast;95.70 iPhoP-RF;89.50
91.6 blast;93.90 CRISPR;91.60 iPhoP-RF;75.40
94 blast;95.80 iPhoP-RF;85.10
96.6 blast;97.60 CRISPR;96.60 iPhoP-RF;90.50
98.1 blast;98.60 iPhoP-RF;94.40 CRISPR;87.70
90.2 blast;92.70 iPhoP-RF;79.00
96.7 blast;97.70 iPhoP-RF;74.10
92.5 blast;94.60 iPhoP-RF;94.40
94.2 blast;95.90 iPhoP-RF;85.40 CRISPR;59.60
99.3 blast;96.80 RaFAH;90.20 iPhoP-RF;54.90
98.1 blast;98.60 iPhoP-RF;74.30
94.6 blast;96.20 iPhoP-RF;87.00 CRISPR;69.00
92.6 blast;94.70 iPhoP-RF;74.60
94.3 blast;96.00 iPhoP-RF;80.60
91.5 blast;93.80 iPhoP-RF;83.60
94.9 blast;96.40 iPhoP-RF;84.50
92.6 iPhoP-RF;94.70
95.3 blast;96.70 CRISPR;95.50 iPhoP-RF;92.10
96.6 blast;97.60 iPhoP-RF;86.00 CRISPR;60.90
90.7 blast;93.10 iPhoP-RF;82.20
96.4 CRISPR;97.50 blast;96.80 iPhoP-RF;86.00
99.4 iPhoP-RF;97.10 blast;93.90 RaFAH;91.80
98.1 CRISPR;98.60 iPhoP-RF;97.10 blast;91.90
90.7 blast;93.10 iPhoP-RF;70.60
98.1 CRISPR;98.60 blast;95.70 iPhoP-RF;95.40
95.6 blast;96.90 iPhoP-RF;88.20
97.5 blast;98.20 iPhoP-RF;62.70
98.7 CRISPR;99.00 blast;93.90 iPhoP-RF;91.40
95 CRISPR;96.50 blast;93.70 iPhoP-RF;92.10
95.6 RaFAH;96.90
95.6 RaFAH;96.90
95.6 RaFAH;96.90
95.3 blast;93.90 iPhoP-RF;75.90 RaFAH;73.20
93.4 blast;95.30 iPhoP-RF;67.60

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S2-wms-combined_207000
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S4-wms-combined_22012
S4-wms-combined_24659
S4-wms-combined_41490
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S4-wms_62635
S4-wms_73990
S5-wms-combined_106597
S5-wms-combined_106597
S5-wms-combined_108794
S5-wms-combined_117095

6.16 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospirillum_A
92.52 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Agathobacter
92.52 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
10.84 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_g_Alistipes
37.52 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
99.73 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
99.73 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_RUG115
99.73 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Agathobacter
7.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Agathobacter
7.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
87.71 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Acutalibacteraceae_g_CAG-217
100 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
17.21 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_CAG-170
17.49 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Intestinimonas
21.03 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Christensenellales_f_CAG-74_g_Ventriicola
21.03 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Christensenellales_f_CAG-74_g_SFFH01
11.82 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Ruminococcus_D
22.49 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Acetivibrio_A
11.3 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Anaerostipes
12.66 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_F23-802
78.69 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium
89.76 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Agathobacter
89.76 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
89.76 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Eisenbergella
21.08 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
21.08 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Phocaicola
88.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Clostridiales_f_Clostridiaceae_g_Clostridium
88.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Clostridiales_f_Clostridiaceae_g_Clostridium_F
88.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Clostridiales_f_Clostridiaceae_g_Clostridium_P
88.99 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_F23-802
32.39 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Gemmiger
24.76 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_
24.76 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor
7.53 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor
19.31 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Intestinimonas
3.55 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Faecalimonas
38.64 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospirillum_A
9.77 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Parabacteroides
9.67 d_Bacteria.p_Verrucomicrobiales_c_Verrucomicrobiales_g_Verrucomicrobiales_f_Akkermansiaceae_g_Akkermansia
21.12 d_Bacteria.p_Proteobacteria_c_Gammaproteobacteria_g_Burkholderiales_f_Burkholderiaceae_g_Sutterella
45.07 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_CAG-81
99.44 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_ER4
99.44 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_F23-802
99.44 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor
3.24 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospirillum_A
99.32 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium
98.35 d_Bacteria.p_Proteobacteria_c_Gammaproteobacteria_g_Enterobacteriales_f_Enterobacteriaceae_g_Escherichia
98.35 d_Bacteria.p_Patesibacteria_c_Patesibacteria_o_Patesibacteriales_f_UBA5633_g_MW001
46.73 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
95.89 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Acutalibacteraceae_g_Ruminococcus_E
43.87 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Blaulatia_A
96.43 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
99.14 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospira
99.14 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Eubacterium_G
13.43 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Eubacterium_J
98.04 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
98.04 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_RUG115
98.04 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Agathobacter
8.31 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
81.02 d_Bacteria.p_Actinobacteriota_c_Coribacteriales_g_Coribacteriales_f_Eggerthellaceae_g_Eggerthella
11.75 d_Bacteria.p_Actinobacteriota_c_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_g_Bifidobacterium
27.39 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Gemmiger
99.96 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
99.21 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium
99.21 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_CAG-83
99.21 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_Dysosmobacter
21.78 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Oscillospiraceae_g_CAG-170
94.44 d_Bacteria.p_Actinobacteriota_c_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_g_Bifidobacterium
88.87 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Parabacteroides
6.49 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Ruminococcaceae_g_Gemmiger
66.42 d_Bacteria.p_Firmicutes_c_Negativibacteriales_o_Acidaminococcales_f_Acidaminococcales_g_Phascocartobacterium_A
66.42 d_Bacteria.p_Firmicutes_c_Negativibacteriales_o_Acidaminococcales_f_Acidaminococcales_g_Phascocartobacterium
87.01 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Mediterraneibacter
97.82 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Marseille-P3160
97.82 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Marinifilaceae_g_Odoribacter
85.97 d_Bacteria.p_Actinobacteriota_c_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_g_Bifidobacterium
25.83 d_Bacteria.p_Actinobacteriota_c_Coribacteriales_o_Coribacteriales_f_Coribacteriaceae_g_Collinella
6.25 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia
99.65 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_g_Alistipes
63.73 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium
81.36 d_Bacteria.p_Firmicutes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
88.31 d_Bacteria.p_Actinobacteriota_c_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_g_Bifidobacterium
13.17 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
74.8 d_Bacteria.p_Firmicutes_c_Negativibacteriales_o_Acidaminococcales_f_Acidaminococcales_g_Phascocartobacterium_A
43.29 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Dorea_A
43.29 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospirillum_B
86.97 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides
86.97 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Parabacteroides
86.97 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Phocaicola
7.59 d_Bacteria.p_Actinobacteriota_c_Coribacteriales_o_Coribacteriales_f_Eggerthellaceae_g_CAG-1427
37.81 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
5.84 d_Bacteria.p_Actinobacteriota_c_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_g_Bifidobacterium
28.59 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
70.49 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella
93.28 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Blaulatia_A
93.28 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Lachnospirales_f_Lachnospiraceae_g_Blaulatia_A
76.93 d_Bacteria.p_Bacteroidetes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Parabacteroides
25.93 d_Bacteria.p_Campylobacterota_c_Campylobacteriales_f_Campylobacteriaceae_g_Campylobacter_D
25.93 d_Bacteria.p_Campylobacterota_c_Campylobacteriales_f_Campylobacteriaceae_g_Campylobacter_B
58.74 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Acutalibacteraceae_g_Ruminococcus_F
10.16 d_Bacteria.p_Firmicutes_c_Ostroidia_o_Oscillospirales_f_Acutalibacteraceae_g_UBA1417

91.6 blast:93.90 IPHoP-RF:79.30
93.4 blast:95.30 IPHoP-RF:93.70
93.7 IPHoP-RF:93.10 blast:92.00
95.6 blast:96.90 IPHoP-RF:96.70
91.8 IPHoP-RF:89.50 blast:81.20 RaFAH:71.80
99.9 blast:98.50 IPHoP-RF:92.40 RaFAH:92.30
99.3 RaFAH:92.30 blast:87.70 IPHoP-RF:83.10
99 RaFAH:92.30 blast:89.90 IPHoP-RF:73.00
92.1 blast:94.30 IPHoP-RF:92.10
90.7 IPHoP-RF:93.10 blast:91.00
95.6 blast:96.90 CRISPR:93.30 IPHoP-RF:79.00
99.9 blast:96.90 IPHoP-RF:96.70 RaFAH:96.10
91.4 blast:93.70 IPHoP-RF:78.30
90.9 blast:93.30
94.7 blast:96.30 IPHoP-RF:74.60
94.7 blast:96.30 IPHoP-RF:71.90
95.6 blast:96.90 IPHoP-RF:82.50
90 blast:92.50 IPHoP-RF:69.10
90.8 blast:93.20 IPHoP-RF:77.30
92.3 blast:94.50 IPHoP-RF:80.30
95.7 blast:96.90 IPHoP-RF:88.90 RaFAH:51.90
92.1 CRISPR:94.30
91 CRISPR:93.40
90.8 blast:93.20
95.9 IPHoP-RF:97.10 blast:91.00
95.2 blast:96.60 IPHoP-RF:81.90
95.4 RaFAH:96.80
95.4 RaFAH:96.80
94.4 RaFAH:96.80
94.6 blast:96.20 IPHoP-RF:73.70
97.6 blast:98.30 IPHoP-RF:87.30 CRISPR:73.60
90.8 blast:93.20 IPHoP-RF:85.40
90.4 blast:92.90 IPHoP-RF:82.20 CRISPR:53.30
91.4 blast:93.70 IPHoP-RF:82.50
91.4 blast:93.70 IPHoP-RF:80.40
91.6 blast:93.90 IPHoP-RF:73.50
94.3 blast:96.00 IPHoP-RF:82.50
95.4 blast:96.80 IPHoP-RF:95.10
96.9 blast:96.70 IPHoP-RF:91.10 CRISPR:86.00 RaFAH:66.20
95.6 blast:96.90 IPHoP-RF:90.80 CRISPR:79.90
93.8 blast:95.60 IPHoP-RF:80.60
98.7 CRISPR:99.00 blast:91.30 IPHoP-RF:81.90
95.4 blast:96.80
90.8 RaFAH:96.20
92.2 blast:95.20 IPHoP-RF:84.50
100 RaFAH:99.60 blast:96.10 IPHoP-RF:79.30 CRISPR:55.70
95.6 RaFAH:96.90
92.3 blast:94.50 IPHoP-RF:66.30
91.8 RaFAH:94.10
99.7 CRISPR:99.00 blast:96.90 IPHoP-RF:92.40 RaFAH:85.50
93.8 blast:90.60 RaFAH:76.60 IPHoP-RF:62.50
100 RaFAH:99.60 blast:96.80 IPHoP-RF:95.70
99.9 CRISPR:98.80 RaFAH:92.10 blast:84.30 IPHoP-RF:67.70
91 RaFAH:92.10 blast:58.10
91.6 blast:93.80 IPHoP-RF:62.20
100 CRISPR:98.90 blast:94.40 RaFAH:93.70 IPHoP-RF:92.80
99.9 CRISPR:98.20 RaFAH:93.70 blast:90.80 IPHoP-RF:84.80
93.6 RaFAH:93.70 IPHoP-RF:64.00
93.6 RaFAH:95.50
94.9 CRISPR:96.40 RaFAH:50.20
95.3 blast:96.70 IPHoP-RF:96.40 CRISPR:94.80
94.2 blast:95.90 IPHoP-RF:76.60 CRISPR:55.10
100 RaFAH:99.80 blast:93.60 IPHoP-RF:79.80 CRISPR:67.80
97.2 CRISPR:98.00 blast:60.70 IPHoP-RF:52.00
91.8 RaFAH:94.10
91.8 RaFAH:94.10
94.2 blast:95.90 IPHoP-RF:58.70
99.3 blast:98.30 IPHoP-RF:97.10 CRISPR:83.00 RaFAH:81.50
100 RaFAH:99.50 blast:89.70 IPHoP-RF:87.00
95.6 blast:96.90 IPHoP-RF:92.80 CRISPR:57.80
98.2 CRISPR:98.70 blast:96.80 IPHoP-RF:92.40
90.7 blast:93.10 IPHoP-RF:84.20
95 blast:96.50 IPHoP-RF:79.50
98.4 CRISPR:98.80 IPHoP-RF:68.90
97.5 RaFAH:96.20
94.9 IPHoP-RF:96.70 CRISPR:96.00 blast:95.40
98.7 CRISPR:99.00 blast:96.80 IPHoP-RF:89.20
92.6 IPHoP-RF:94.70
95.6 blast:96.90 IPHoP-RF:96.10
95.7 blast:97.00 IPHoP-RF:78.00 CRISPR:67.90
96.2 blast:97.30 IPHoP-RF:90.80
99.9 CRISPR:99.60 IPHoP-RF:97.10 blast:96.80 RaFAH:71.10
95.6 blast:96.90 IPHoP-RF:73.50
95.6 blast:96.90 IPHoP-RF:64.80
97.6 CRISPR:98.30 IPHoP-RF:95.40 blast:92.00
91.4 IPHoP-RF:93.70 blast:82.20
95.6 blast:89.90 IPHoP-RF:86.30 RaFAH:84.50
93.9 blast:95.70 IPHoP-RF:85.70
91.5 blast:93.80 IPHoP-RF:74.60
96.9 blast:97.80
98.4 CRISPR:98.80 blast:96.40 IPHoP-RF:79.00
99.6 CRISPR:99.60 IPHoP-RF:78.00
94.7 blast:96.30 CRISPR:93.50 IPHoP-RF:91.40
97.3 blast:96.90 IPHoP-RF:94.40 RaFAH:69.20 CRISPR:50.60
100 CRISPR:98.90 RaFAH:95.20 IPHoP-RF:93.70 blast:90.40
93.2 RaFAH:95.20
97.6 CRISPR:98.30 IPHoP-RF:82.80
98.8 RaFAH:99.10
91.6 blast:93.90
95.6 blast:96.90 IPHoP-RF:89.50
91 blast:93.40 IPHoP-RF:64.50

55-wms-combined, 117213	97.01	Bacteria_Firmicutes_Actinobacteria_C__Actinomycetales_Actinomycetales_Bifidobacteriaceae_Bifidobacterium	98.4	CRISPR_97.10 blast:96.50 RafAH.98.70
55-wms-combined, 134381	97.01	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_CAG-83	98.4	RafAH.98.30 blast:76.40
55-wms-combined, 134381	97.01	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Dysmorphobacter	97.6	RafAH.98.30
55-wms-combined, 134381	97.01	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_CAG-110	90.3	blast:92.80
55-wms-combined, 145057	82.3	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Flavivibrator	95.6	blast:96.30 PPHF-RF.95.70 CRISPR.53.80
55-wms-combined, 145057	82.3	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Intestimonas	93.1	1 PPHF-RF.95.10
55-wms-combined, 145057	82.3	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae	92.2	2 PPHF-RF.94.40
55-wms-combined, 145057	82.3	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Pseudoflavivibrator	92.2	2 PPHF-RF.94.40
55-wms-combined, 156329	75.2	Bacteria_Firmicutes_Bacilli_Erysipelotrichales_Erysipelotrichaceae_Clostridium_AQ	95.6	blast:97.10 CRISPR.90.20 PPHF-RF.75.20
55-wms-combined, 161515	3.66	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Flavivibrator	91.2	blast:93.60 PPHF-RF.95.80
55-wms-combined, 179431	11.6	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae	91.9	blast:97.10 blast:96.10 CRISPR.84.60
55-wms-combined, 179431	13.11	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_CAG-83	91	blast:93.30 PPHF-RF.86.70
55-wms-combined, 181331	11.29	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	97	blast:97.90 PPHF-RF.94.70
55-wms-combined, 183536	90.68	Bacteria_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Escherichia	98.8	PHF-RF.97.10 blast:95.60 RafAH.85.20 CRISPR.70.30
55-wms-combined, 183536	90.68	Bacteria_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Salmonella	90.4	blast:93.20
55-wms-combined, 183536	3.6	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Flavivibrator	91.2	blast:96.30 PPHF-RF.73.70
55-wms-combined, 193135	16.23	Bacteria_Cyanobacteria_Vampirovibrionia_Gastreaerophiales_Gastreaerophiliaceae_QAM01	90.3	blast:92.80
55-wms-combined, 204782	6.93	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	92.1	blast:94.30 PPHF-RF.69.10
55-wms-combined, 205046	4.59	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Oscillospiraceae_Dysmorphobacter	92.6	PHF-RF.94.70 blast:93.60
55-wms-combined, 207291	100	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides	99.4	blast:99.80 PPHF-RF.95.70 blast:91.90
55-wms-combined, 210559	81.3	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae	96.7	blast:92.80 RafAH.94.50
55-wms-combined, 26061	99.77	Bacteria_Firmicutes_Ostrioidea_Lachnospirales_Lachnospiraceae_Blastia_A	90.7	blast:92.80 PPHF-RF.88.50
55-wms-combined, 3201	23.69	Bacteria_Proteobacteria_Gammaproteobacteria_Burkholderiales_Burkholderiaceae_Daibacter	90.9	blast:93.30 PPHF-RF.69.80
55-wms-combined, 39793	82.3	Bacteria_Actinobacteria_Actinomycetales_Actinomycetales_Bifidobacteriaceae_Bifidobacterium	91.6	blast:93.30 PPHF-RF.53.40 CRISPR.76.80
55-wms-combined, 52741	50.99	Bacteria_Verrucomicrobiales_Verrucomicrobiales_Verrucomicrobiaceae_Akkermansia	100	RafAH.99.50 CRISPR.98.80 blast:96.90 PPHF-RF.81.60
55-wms-combined, 59864	95	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides	99.4	blast:99.80 PPHF-RF.96.10
55-wms-combined, 66662	96.6	Bacteria_Firmicutes_Ostrioidea_Christensenellales_Christensenellaceae_Christensenella	90.7	blast:93.10 PPHF-RF.82.20
55-wms-combined, 66662	100	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Ruminococcaceae_Ruthenibacterium	97.2	blast:98.00 PPHF-RF.88.50
55-wms-combined, 67650	98.81	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	100	RafAH.97.10 blast:96.90 PPHF-RF.93.70
55-wms-combined, 67650	98.81	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	95.6	9.5 RafAH.97.10
55-wms-combined, 72410	60.27	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Ruminococcaceae_Ruthenibacterium	90.4	blast:93.30 PPHF-RF.72.60
55-wms-combined, 7292	22.4	Bacteria_Firmicutes_Ostrioidea_Oscillospirales_Accuhalibacteriaceae_Ruminococcus_E	91.5	CRISPR.98.20 blast:95.60 PPHF-RF.89.80
55-wms-combined, 73301	96.75	Bacteria_Firmicutes_Ostrioidea_Lachnospirales_Lachnospiraceae_Dorea_A	94.6	blast:96.20 PPHF-RF.93.10 CRISPR.58.60
55-wms-combined, 73301	96.75	Bacteria_Firmicutes_Ostrioidea_Lachnospirales_Lachnospiraceae_Lachnospiraceae_B	90.8	blast:93.30 PPHF-RF.77.80
55-wms-combined, 83470	82.36	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides	99.4	blast:96.30 PPHF-RF.96.70 RafAH.91.90
55-wms-combined, 83470	25.58	Bacteria_Firmicutes_Ostrioidea_Eubacteriales_Eubacteriaceae_Eubacterium	92.6	blast:94.70 PPHF-RF.76.80 CRISPR.77.00
55-wms-combined, 90115	99.97	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	94.6	RafAH.96.10 blast:88.90
55-wms-combined, 90115	99.97	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	94.5	RafAH.96.10
55-wms-combined, 94482	15.25	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Tannerellaceae_Parabacteroides	94.9	PHF-RF.96.40 blast:91.70
55-wms-combined, 94482	15.25	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Tannerellaceae_Macellibacteroides	91.8	PHF-RF.94.10 blast:81.60
55-wms-combined, 98202	100	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides	99.4	RafAH.99.50
55-wms-combined, 98202	100	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_A	99.4	blast:99.80 PPHF-RF.77.50
55-wms_10				

57-wms-combined, 135154
57-wms-combined, 136642
57-wms-combined, 137858
57-wms-combined, 139683
57-wms-combined, 14267
57-wms-combined, 143218
57-wms-combined, 14529
57-wms-combined, 14529
57-wms-combined, 147158
57-wms-combined, 156351
57-wms-combined, 157260
57-wms-combined, 157434
57-wms-combined, 163980
57-wms-combined, 167867
57-wms-combined, 169375
57-wms-combined, 169375
57-wms-combined, 174935
57-wms-combined, 185016
57-wms-combined, 189250
57-wms-combined, 190281
57-wms-combined, 20921
57-wms-combined, 217226
57-wms-combined, 218379
57-wms-combined, 218379
57-wms-combined, 224523
57-wms-combined, 235165
57-wms-combined, 238231
57-wms-combined, 239784
57-wms-combined, 239784
57-wms-combined, 26217
57-wms-combined, 26217
57-wms-combined, 28138
57-wms-combined, 31068
57-wms-combined, 3669
57-wms-combined, 3697
57-wms-combined, 43950
57-wms-combined, 43950
57-wms-combined, 62119
57-wms-combined, 62119
57-wms-combined, 69024
57-wms-combined, 71592
57-wms-combined, 72070
57-wms-combined, 74829
57-wms-combined, 84688
57-wms-combined, 90393
57-wms-combined, 90728
57-wms, 113137
57-wms, 123954
57-wms, 127801
57-wms, 151112
57-wms, 157264
57-wms, 244866
57-wms, 80255
58-wms-combined, 134098
58-wms-combined, 146562
58-wms-combined, 164289
58-wms-combined, 169835
58-wms-combined, 180957
58-wms-combined, 185611
58-wms-combined, 185611
58-wms-combined, 211119
58-wms-combined, 215102
58-wms-combined, 215102
58-wms-combined, 217866
58-wms-combined, 217866
58-wms-combined, 217866
58-wms-combined, 217866
58-wms-combined, 219796
58-wms-combined, 225114
58-wms-combined, 23583
58-wms-combined, 239791
58-wms-combined, 246185
58-wms-combined, 246389
58-wms-combined, 25607
58-wms-combined, 26087
58-wms-combined, 264711
58-wms-combined, 270362
58-wms-combined, 270362
58-wms-combined, 40666
58-wms-combined, 49369
58-wms-combined, 68780
58-wms-combined, 74275
58-wms-combined, 81597
58-wms-combined, 97848
58-wms, 152831
58-wms, 200781
58-wms, 20528
58-wms, 270
58-wms, 30498
58-wms, 48935
58-wms, 57121
58-wms, 58515
58-wms, 82880
58-wms, 82880
59-wms-combined, 105462
59-wms-combined, 105822
59-wms-combined, 10990
59-wms-combined, 122742
59-wms-combined, 124857
59-wms-combined, 2042
59-wms-combined, 20485

99.98 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
81.83 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
55.93 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_Ruminococcaceae;g_Faecalibacterium
93.85 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103
96.95 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
6.41 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
25.87 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_UBA11524
25.87 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_UBA11524
86.44 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
22 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
99.48 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
16.06 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter
78.4 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
10.54 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
10.64 d_Bacteria.p_Firmicutes;c_Bacilloi;f_Erysipelotrichales;f_Erysipelotrichotridaceae;g_Erysipelotrichotridium
10.64 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Faecalimonas
34.84 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
95.96 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
21.37 d_Bacteria.p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella
13.36 d_Bacteria.p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella
29.3 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutylicum
97.48 d_Bacteria.p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
16.97 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Actinobacteriaceae;g_CAG-180
16.97 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Actinobacteriaceae;g_Fimicoccus
99.68 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
18.87 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
39.27 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus
67.8 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
67.8 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
100 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
100 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
12.56 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Actinobacteriaceae;g_Ruminococcus_E
9.44 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsontobacter
8.7 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
72.05 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
99.99 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.99 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
95.36 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
99.99 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.99 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
58.17 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus
39.23 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D
35.71 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
77.29 d_Bacteria.p_Firmicutes;g_Negativibacillus;f_Yelloniellales;f_Dialisteraceae;g_Dialister
29.6 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_Marseille_P3106
32.36 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
66.45 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.39 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
100 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tamerrallaceae;g_Parabacteroides
10.6 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
20.08 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutylicum
5.31 d_Bacteria.p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium
18.88 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
74.19 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminoclostridium_E
81.54 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
66.24 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_UBA1685
21.14 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_SFEL01
17.94 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
99.92 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Tamerrallaceae;g_Parabacteroides
9.67 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_Limnismia
9.67 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_Firm-11
22.48 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_UBA1685
12.51 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_UBA11524
12.51 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-74g_UBA11524
98.95 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia
98.95 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter
98.95 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_F
14.07 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_UBA1685
99.67 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
28.29 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
19.46 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
33.37 d_Bacteria.p_Verrucomicrobiota;c_Verrucomicrobiae;o_Verrucomicrobiales;f_Akkermansiaceae;g_Akkermansia
21.76 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_ER4
54.47 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_UBA9475
100 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
10.73 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_SFEL01
99.95 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
99.95 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A
26.57 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103
96.98 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Ruminococcaceae;g_Gemmiger
51.97 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_T23-802
54.68 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
99.93 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
75.58 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides
99.72 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
91.06 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium
48.51 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger
d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella
86.77 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
39.33 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
9.54 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Christensenellales;f_CAG-138g_UBA1685
74.23 d_Bacteria.p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes
30.76 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_An92
30.76 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
98 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes
44.89 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster
10.09 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
8.62 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
79.58 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
10.88 d_Bacteria.p_Firmicutes;c_Ostroidia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella
94.46 d_Bacteria.p_Firmicutes;c_Bacilloi;f_Lactobacillales;f_Streptococcaceae;g_Streptococcus

93.9 iPhOP-RF;95.70 blast;83.30
99.7 CRISPR;99.40 iPhOP-RF;97.10 blast;96.80 RaFAH;72.30
95.6 blast;96.90 iPhOP-RF;88.20
93.5 CRISPR;95.40
97.5 CRISPR;98.20 blast;98.10 iPhOP-RF;97.10
95.2 blast;96.60 CRISPR;91.70 iPhOP-RF;81.90
95.6 blast;96.90 iPhOP-RF;93.40
95.6 blast;96.90 iPhOP-RF;92.80 CRISPR;76.00
99 CRISPR;99.20 blast;96.90 iPhOP-RF;95.70 RaFAH;50.40
94.5 blast;96.10 iPhOP-RF;94.10
98.7 CRISPR;99.00
91.4 blast;93.70 iPhOP-RF;86.30
95.2 blast;96.60 iPhOP-RF;93.70
97.9 CRISPR;98.50 iPhOP-RF;97.10 blast;96.70
94.7 blast;96.30
94.5 blast;96.10 iPhOP-RF;79.00
96.3 CRISPR;97.40 blast;97.30 iPhOP-RF;97.10
100 RaFAH;99.70 blast;95.30 iPhOP-RF;95.10
98.7 CRISPR;99.00 blast;91.90 iPhOP-RF;80.00
96.2 CRISPR;97.30 blast;96.90 iPhOP-RF;86.30
95 blast;96.50 iPhOP-RF;77.50
100 CRISPR;99.50 RaFAH;97.70 iPhOP-RF;58.20
98.7 CRISPR;99.00 blast;96.60 iPhOP-RF;86.30
1.7 blast;94.00 iPhOP-RF;91.80
99.4 blast;96.80 iPhOP-RF;93.70 RaFAH;91.90
90.2 blast;92.70
95.6 blast;96.90 iPhOP-RF;77.50 CRISPR;68.00
99.3 iPhOP-RF;97.10 RaFAH;89.00 blast;88.60
91.5 blast;95.40 iPhOP-RF;84.80
100 RaFAH;98.00 blast;96.90 iPhOP-RF;88.90
97.2 RaFAH;98.00
98.7 CRISPR;99.00 blast;96.80 iPhOP-RF;91.10
91.5 blast;93.80 iPhOP-RF;81.90
91.5 blast;93.80 iPhOP-RF;87.60
98.8 iPhOP-RF;97.10 blast;96.90 CRISPR;95.90 RaFAH;84.30
100 RaFAH;99.70 iPhOP-RF;95.10 blast;93.90
92.9 blast;94.90 iPhOP-RF;93.10
100 RaFAH;98.60 iPhOP-RF;97.10 blast;96.90
98.8 blast;96.90 iPhOP-RF;96.40 CRISPR;93.30 RaFAH;84.80
95.7 CRISPR;97.00 iPhOP-RF;86.70
91.6 blast;93.90 iPhOP-RF;75.90
98.1 blast;98.60 iPhOP-RF;92.40 CRISPR;61.00
96.2 iPhOP-RF;97.10 blast;96.90 CRISPR;55.90 RaFAH;52.60
97.3 CRISPR;97.40 blast;96.80 iPhOP-RF;94.70 RaFAH;63.90
91.6 blast;93.90 iPhOP-RF;86.70
99.4 iPhOP-RF;97.10 blast;91.80 RaFAH;91.30
100 RaFAH;98.90 iPhOP-RF;96.70 blast;91.80
99.4 RaFAH;99.50
98.4 blast;96.40 RaFAH;82.90 iPhOP-RF;60.30
97.2 CRISPR;99.00 blast;97.40 iPhOP-RF;93.70
90.3 blast;92.80 iPhOP-RF;86.00
99.7 CRISPR;99.70 iPhOP-RF;73.50
97.6 CRISPR;98.30 iPhOP-RF;92.40
91.5 blast;93.80 iPhOP-RF;67.00 CRISPR;57.40
95.2 blast;96.60 iPhOP-RF;76.10
93 blast;95.00 iPhOP-RF;82.80 CRISPR;70.40
94.5 blast;96.10 iPhOP-RF;79.00 CRISPR;71.90
95.6 blast;96.90 iPhOP-RF;64.30
99.7 blast;96.70 RaFAH;95.30 iPhOP-RF;84.50 CRISPR;59.70
94.2 blast;95.80 iPhOP-RF;76.60
92 blast;94.20 iPhOP-RF;85.10
95.9 blast;97.10 iPhOP-RF;77.50 CRISPR;68.50
95.6 blast;96.90 iPhOP-RF;94.70
95.6 blast;96.90 iPhOP-RF;93.40 CRISPR;77.10
96.3 CRISPR;97.40 blast;68.80
95.7 CRISPR;97.00 blast;61.30
91.6 blast;93.90
93.5 blast;95.40 CRISPR;93.90 iPhOP-RF;88.20
100 CRISPR;98.40 RaFAH;98.00 blast;92.30 iPhOP-RF;88.50
90.3 blast;92.80 iPhOP-RF;81.60 CRISPR;68.00
96.3 iPhOP-RF;95.10 RaFAH;71.50
98.4 CRISPR;98.80 blast;96.90 iPhOP-RF;81.10
91.6 blast;93.90 iPhOP-RF;64.50
91.2 blast;93.60 iPhOP-RF;68.90
98.7 blast;96.90 iPhOP-RF;91.40 RaFAH;83.40
91.9 blast;93.30 iPhOP-RF;74.80
100 RaFAH;97.30 blast;96.90 iPhOP-RF;90.10
96.2 RaFAH;97.30
97.2 CRISPR;98.00 blast;94.30 iPhOP-RF;83.60
94 blast;95.20 iPhOP-RF;61.70 RaFAH;56.00
94.6 blast;96.20 iPhOP-RF;58.40
99.3 blast;96.90 iPhOP-RF;91.40 RaFAH;90.60
100 RaFAH;99.50 blast;95.10 iPhOP-RF;85.40
98.8 RaFAH;92.20 blast;92.00 iPhOP-RF;62.20
100 RaFAH;99.50 CRISPR;97.80 blast;95.40 iPhOP-RF;77.30
92 CRISPR;99.20 blast;94.00 iPhOP-RF;83.30
91.6 blast;93.90 iPhOP-RF;84.50
94.6 blast;96.20 iPhOP-RF;68.20
92.7 blast;86.00 RaFAH;81.50 iPhOP-RF;63.00
90.9 blast;93.30 iPhOP-RF;77.30
97.3 blast;98.10 iPhOP-RF;76.60 CRISPR;55.40
96.3 iPhOP-RF;97.10 blast;96.70 CRISPR;91.70 RaFAH;55.50
93 blast;95.00 iPhOP-RF;60.10
91 blast;93.40 iPhOP-RF;75.90
95.4 blast;96.80 CRISPR;91.30 iPhOP-RF;91.10
95 blast;96.50 iPhOP-RF;87.60 CRISPR;52.20
91.4 blast;97.00 iPhOP-RF;80.00
90.3 blast;92.80 iPhOP-RF;72.80
90.7 iPhOP-RF;93.10 blast;92.10 CRISPR;71.70
95.2 CRISPR;96.60 blast;95.10 iPhOP-RF;93.40
100 RaFAH;99.70 CRISPR;99.00 iPhOP-RF;97.10 blast;96.90

59-wms-combined_26410	99.06 d_Bacteria;p_Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter	95.4 blast;96.80
59-wms-combined_26410	99.06 d_Bacteria;p_Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Hungatella	95.2 blast;88.20 RaFAH;85.60
59-wms-combined_27311	4.98 d_Bacteria;p_Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Acutalibacter	91.4 blast;93.70 IPHoP-RF;76.10
59-wms-combined_28805	94.95 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes	99 blast;96.10 RaFAH;89.50 IPHoP-RF;68.40
59-wms-combined_31456	63.18 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Barnesiellaceae;g__Barnesiella	97.6 CRISPR;97.40 blast;96.90 IPHoP-RF;83.60 RaFAH;68.00
59-wms-combined_33229	87.21 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	99.1 IPHoP-RF;97.10 blast;96.10 RaFAH;87.90
59-wms-combined_33229	87.21 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola	94.5 IPHoP-RF;96.10
59-wms-combined_33230	93.11 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	100 RaFAH;99.10 IPHoP-RF;96.40 blast;92.10
59-wms-combined_3461	69.22 d_Bacteria;p_Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerostipes;g__Anaerostipes	95 CRISPR;96.50 blast;91.10 IPHoP-RF;88.90
59-wms-combined_36459	25.89 d_Bacteria;p_Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Negativibacillus	96.2 blast;97.30 IPHoP-RF;85.10 CRISPR;59.60
59-wms-combined_37587	92.98 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	99.4 blast;96.80 IPHoP-RF;96.40 RaFAH;92.80
59-wms-combined_37587	92.98 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Phocaeicola	93.1 IPHoP-RF;95.10 blast;90.70
59-wms-combined_44402	80.74 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	100 RaFAH;97.80 blast;96.50 IPHoP-RF;96.40
59-wms-combined_53991	30.5 d_Bacteria;p_Firmicutes;c__Negativicutes;o__Veillonellales;f__Dialisteraceae;g__Dialister	95.4 blast;96.80 IPHoP-RF;91.80 CRISPR;60.90
59-wms-combined_53991	30.5 d_Bacteria;p_Firmicutes;c__Negativicutes;o__Veillonellales;f__Veillonellaceae;g__F0422	90.4 RaFAH;92.90
59-wms-combined_53991	30.5 d_Bacteria;p_Firmicutes;c__Negativicutes;o__Veillonellales;f__Veillonellaceae;g__Veillonella	90.4 RaFAH;92.90
59-wms-combined_53991	30.5 d_Bacteria;p_Firmicutes;c__Negativicutes;o__Veillonellales;f__Veillonellaceae;g__Veillonella_A	90.4 RaFAH;92.90
59-wms-combined_5526	86.27 d_Bacteria;p_Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes	99.3 blast;96.80 IPHoP-RF;93.10 RaFAH;90.40
59-wms-combined_64277	98.37 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Escherichia	100 RaFAH;97.50 blast;96.90 IPHoP-RF;74.30
59-wms-combined_64277	98.37 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Escherichia_C	93.8 blast;95.60
59-wms-combined_64277	98.37 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Kluyvera	93.5 blast;95.40
59-wms-combined_64277	98.37 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Pseudocitrobacter	91.7 blast;94.00
59-wms-combined_76274	91.87 d_Bacteria;p_Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium	99.4 CRISPR;98.60 IPHoP-RF;93.70 blast;92.70 RaFAH;81.60
59-wms-combined_93232	57.26 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Klebsiella	98.2 CRISPR;98.70 blast;96.90 IPHoP-RF;59.00
59-wms-combined_93232	57.26 d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Klebsiella_A	94.7 blast;96.30
59-wms-combined_97755	40.71 d_Bacteria;p_Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eisenbergiella	91 blast;93.40 IPHoP-RF;57.60
59-wms-combined_9931	57.49 d_Bacteria;p_Firmicutes;c__Clostridia;o__Oscillospirales;f__Acutalibacteraceae;g__Ruminococcus_E	95.4 blast;96.80 IPHoP-RF;92.10
59-wms_104169	d_Bacteria;p_Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium	91.6 blast;93.90 CRISPR;84.10 IPHoP-RF;79.50
59-wms_114971	60.7 d_Bacteria;p_Firmicutes;c__Negativicutes;o__Veillonellales;f__Veillonellaceae;g__Veillonella	98.4 blast;95.00 RaFAH;88.20 IPHoP-RF;73.50 CRISPR;55.70
59-wms_19025	87.64 d_Bacteria;p_Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Streptococcus	98.4 RaFAH;98.80
59-wms_64472	4.04 d_Bacteria;p_Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster	93.5 blast;95.40 IPHoP-RF;85.10

Accession	Strain	Real	King	Phy	Class	Order	Family	Subfamily	Genus	AAI to closest RaFI reference	Host
S10_v_13078	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	22.73	Bacteria_Firmicutes_Clostridia_Ocillospirales_Ocillospiraceae_Dysomobacter
S10_v_14071	Shared	n.a.	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	n.a.	Unclassified	Unclassified	91.64	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Tannerellaceae_Parabacteroides
S10_v_24791	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Eponavirus	46.17	Bacteria_Firmicutes_Clostridia_Ocillospirales_Ruminococcaceae_Faecalibacterium
S10_v_43964	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	91.64	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_64371	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	86.67	Bacteria_Firmicutes_Bacilli_Lactobacillales_Streptococcaceae_Streptococcus
S10_v_80712	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	98.13	Bacteria_Firmicutes_Clostridia_Lachnospirales_Lachnospiraceae_Blausta_A
S10_v_120489	SHVC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	7.64	Bacteria_Firmicutes_Clostridia_Chloriflexales_Lachnospirales_Blausta_A
S10_v_120541	SHVC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	14.85	Bacteria_Firmicutes_Clostridia_Ocillospirales_Ocillospiraceae_CAG-110
S10_v_14557	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Dunneviridae	O	O	99.66	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_46328	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	63.06	Bacteria_Firmicutes_Clostridia_Lachnospirales_Lachnospiraceae_UBA9502
S10_v_2538	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	31.92	Bacteria_Firmicutes_Clostridia_Negistoretococcales_Ananeroviraceae_CAG-145
S10_v_4854	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	48.73	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_6240	SHVC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8.93	Bacteria_Firmicutes_Clostridia_Ocillospirales_Actinobacteraceae_UBA1691
S10_v_62320	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	25.76	Bacteria_Firmicutes_Clostridia_Ocillospirales_Clostridium
S10_v_36598	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	93.41	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_37379	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	75.26	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Tannerellaceae_Parabacteroides
S10_v_58074	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	85.85	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_106834	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	44.85	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_67471	SHVC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	98.13	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes
S10_v_71900	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	97	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S11_v_140303	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	Crassvirales	Suiviridae	O	O	37.57	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Prevotella
S10_v_61776	SHVC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	44.54	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S10_v_120570	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	98.22	Bacteria_Firmicutes_Clostridia_Ocillospirales_Ruminococcaceae_Ruminococcus_D
S11_v_140052	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	38.91	Bacteria_Firmicutes_Clostridia_Ocillospirales_Actinobacteraceae_CAG-180
S10_v_77004	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10.42	Bacteria_Firmicutes_Clostridia_Ocillospirales_Actinobacteraceae_Pseudomonococcus
S11_v_140303	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	40.07	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S11_v_140471	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	20.29	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S11_v_150907	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	87.86	Bacteria_Firmicutes_Clostridia_Lachnospirales_Lachnospiraceae_Barturius
S11_v_27845	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	53.78	Bacteria_Firmicutes_Bacilli_Lactobacillales_Streptococcaceae_Streptococcus
S11_v_28515	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	95.85	Bacteria_Firmicutes_Clostridia_Lachnospirales_Lachnospiraceae_Blausta_A
S11_v_28845	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	6.84	Bacteria_Firmicutes_Clostridia_Lachnospirales_Lachnospiraceae_Blausta_A
S11_v_10997	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	Crassvirales	Unclassified	Unclassified	Unclassified	15	Bacteria_Bacteroidetes_Bacteroidia_Bacteroidales_Factoriaceae_Bacteroides
S11_v_66522	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	97.65	Bacteria_Actinobacteriota_Actinomycetia_Actinomycetales_Actinomycetaceae_Paulseniella
S10_v_37694											

Confidence score	List of methods
95	blast96.50 PhPp-RF71.90
97	blast93.53 PhPp-RF79.00
93.8	blast95.60 PhPp-RF94.90 PhPp-RF82.20
100	RafAH99.20 CRISPp-RF37.10 PhPp-RF22.77
98.8	RafAH98.90 PhPp-RF59.80
100	RafAH99.20 blast91.30 PhPp-RF86.30
90.3	blast92.80 PhPp-RF56.50
94.7	blast96.30 PhPp-RF57.10 PhPp-RF96.90
100	RafAH98.20 PhPp-RF57.10 PhPp-RF96.90 CRISPp30.3
91.4	CRISPp93.70 blast91.51 PhPp-RF89.50
94.3	blast96.00 PhPp-RF76.40
99.3	PhPp-RF37.10 blast96.00 RafAH94.00
94.7	blast96.10 CRISPp90.20 PhPp-RF73.00
90.6	blast93.30 PhPp-RF61.40
100	RafAH99.40 PhPp-RF96.70
100	CRISPp98.90 RafAH98.30 PhPp-RF57.10 blast94.8
100	RafAH99.50 blast91.80 PhPp-RF64.00
93.3	RafAH87.20 PhPp-RF55.40
99.9	RafAH97.30 blast95.80 PhPp-RF52.20
100	RafAH99.30 PhPp-RF37.10 PhPp-RF10.90
91.7	RafAH94.00
97	PhPp-RF96.70 blast93.90 RafAH98.20
97	blast98.00 PhPp-RF96.70 CRISPp87.50 RafAH87.4
91.5	blast93.80 PhPp-RF55.40
95.3	blast96.70 CRISPp89.20 PhPp-RF87.60
90.6	RafAH93.00
98.6	CRISPp98.90 PhPp-RF22.80
91.5	blast93.50 PhPp-RF82.80
100	CRISPp98.80 RafAH97.70 PhPp-RF35.70
100	RafAH98.80 blast94.04 PhPp-RF90.50 CRISPp68.0
92.5	blast94.60 PhPp-RF51.70
94.7	blast93.70 PhPp-RF76.40
100	RafAH99.20 CRISPp99.30 PhPp-RF90.50
91.3	PhPp-RF37.10 blast96.80 RafAH87.90 CRISPp55.6
99.3	CRISPp97.20 blast97.30 PhPp-RF91.80 RafAH87.2
93	CRISPp93.40
99.4	CRISPp98.90 RafAH92.90 PhPp-RF79.00
97.8	blast96.10 PhPp-RF79.90
93.4	blast95.30 PhPp-RF58.20
97.2	blast98.00 PhPp-RF56.70
92.1	blast94.30
91.7	RafAH94.00
93.1	blast95.60 PhPp-RF54.60
100	blast98.60 RafAH96.60 PhPp-RF83.30
90.3	blast92.80 PhPp-RF81.50
90.6	blast93.00 PhPp-RF67.50
97.3	PhPp-RF57.10 blast96.80 PhPp-RF93.80 CRISPp83.3
90.8	blast93.20 PhPp-RF77.20
99.9	RafAH98.80 PhPp-RF83.10 PhPp-RF57.90
91.4	blast93.70 PhPp-RF83.10
93.4	RafAH95.50
95	blast96.70
91	blast98.40 PhPp-RF73.50 RafAH91.60
98.1	blast92.60 RafAH90.60 PhPp-RF89.80
90.1	blast92.60 PhPp-RF81.90
95.3	blast96.70
93	blast95.00 PhPp-RF77.30
95	CRISPp96.50 blast93.70 PhPp-RF81.40
95.6	blast96.70 PhPp-RF89.50 CRISPp76.50
95.9	blast91.20 RafAH83.30 PhPp-RF57.90
97.3	RafAH98.10
96.2	PhPp-RF52.10 blast92.00 RafAH82.70
94.5	PhPp-RF96.10 CRISPp91.90
93.1	PhPp-RF95.10 blast93.90
94.3	blast95.00 PhPp-RF81.40
96.2	CRISPp97.30 PhPp-RF97.10 blast96.60
95.3	CRISPp96.70 PhPp-RF58.20
99.9	CRISPp98.30 RafAH97.30 blast96.90 PhPp-RF95.7
100	RafAH97.10 PhPp-RF96.70 blast98.90
90.4	blast92.90 PhPp-RF65.60
98.4	CRISPp98.80 blast92.30 PhPp-RF78.30
91.7	blast94.00 PhPp-RF58.30
98.5	blast96.70 RafAH83.70
95.1	blast96.80 PhPp-RF64.80
98.4	blast98.80 CRISPp92.10 PhPp-RF96.10
100	RafAH99.40 blast99.40 PhPp-RF57.90
100	RafAH98.90 PhPp-RF97.10 blast95.90 CRISPp68.4
99.3	RafAH99.40
94.9	blast96.40 PhPp-RF57.10
93	blast95.00 PhPp-RF87.00
92.1	blast94.50
99.3	PhPp-RF96.70 blast96.70 RafAH89.00
99.6	RafAH99.60
94.9	blast96.40 PhPp-RF53.80
92.7	blast94.80 PhPp-RF65.30
93.8	blast96.00 PhPp-RF67.30
98.1	blast98.60 PhPp-RF84.80
100	CRISPp98.80 RafAH98.60 blast96.90 PhPp-RF82.5
93	blast95.00 PhPp-RF58.70
97	CRISPp97.90 blast96.90 PhPp-RF93.10
99.6	CRISPp98.80 blast96.90 PhPp-RF94.40 RafAH84.6
90.1	blast92.90 PhPp-RF68.90
91.8	RafAH94.10
91.8	blast98.60 PhPp-RF83.30
93.3	CRISPp96.40
95.7	RafAH97.00
92.9	blast94.90 PhPp-RF66.50
90.1	blast92.60

S13_vf_56074	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	91.56_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_g_Alistipes
S13_vf_7670	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	6.84_d_Bacteria_p_Verrucomicrobiales_Verrucomicrobiales_Verrucomicrobiales_Akkermansia
S13_vf_87873	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	97.58_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_Marvella_P3160
S13_vf_113593	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	40.01_d_Bacteria_p_Actinobacteriota_Actinomycetia_o_Actinomycetales_Bifidobacteriaceae_Bifidobacterium
S13_vf_121307	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	11.04_d_Bacteria_p_Firmicutes_Clostridia_o_Clostridiales_f_Lachnospiraceae_Blaustia_A
S13_vf_148294	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	57.95_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g
S13_vf_15645	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	92_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_Parabacteroides
S13_vf_3006	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	44.36_d_Bacteria_p_Firmicutes_Clostridia_o_Clostridiales_f_Acutibacteriaceae_UMG5263
S13_vf_30101	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	54.46_d_Bacteria_p_Firmicutes_Bacillo_o_MU6151_261_CAG-313_CAG-313
S13_vf_26756	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	9.7_d_Bacteria_p_Firmicutes_Bacillo_RF39f_UBA60g_CAG-460
S13_vf_35816	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	99.57_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_CAG-83
S13_vf_56429	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	14.26_d_Bacteria_p_Firmicutes_Bacillo_RF39f_UBA60g_CAG-460
S13_vf_36748	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	49.79_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes
S13_vf_43447	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	97.87_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes
S13_vf_50967	Shared	Monodnaviria	Sangerivirae	Phiviricota	Malgrandaviricetes	Petitivirales	Microviridae	O	d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Barnesiellaceae_Barnesiella
S11_vf_38860	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	39.67_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Enterocloster
S13_vf_9438	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	7.33_d_Bacteria_p_Proteobacteria_o_Alphaproteobacteria_o_RF32_f_CAG-239g_CAG-267
S14_vf_100156	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	21.19_d_Bacteria_p_Firmicutes_Bacillo_Lactobacillales_f_Lactobacillaceae_Lactobacillus
S14_vf_109545	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	12.74_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Intestinimonas
S14_vf_117150	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.65_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Lachnospira
S11_vf_45558	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	40.35_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S14_vf_117157	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	99.57_d_Bacteria_p_Firmicutes_Bacillo_Lactobacillales_f_Streptococcaceae_Streptococcus
S11_vf_48109	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	63.66_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Acutibacteriaceae_An172
S14_vf_37350	ME	Monodnaviria	Sangerivirae	Phiviricota	Malgrandaviricetes	Petitivirales	Microviridae	Unclassified	5.58_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes
S14_vf_56130	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	100_d_Bacteria_p_Firmicutes_Clostridia_o_Clostridiales_f_Clostridiaceae_Clostridium
S14_vf_58919	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Mushvuria
S14_vf_72335	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	74.74_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Roseburia
S14_vf_72953	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	11.73_d_Bacteria_p_Firmicutes_Bacillo_Erysipelotrichales_f_Erysipelotrichaceae_Holdemania
S14_vf_55144	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	32.12_d_Bacteria_p_Firmicutes_Bacillo_Lactobacillales_f_Lactobacillaceae_Lactisacibacillus
S14_vf_78139	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	12.8_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Erysipelotrichaceae_Massilimicrobiota
S14_vf_78139	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	74.71_d_Bacteria_p_Firmicutes_Bacillo_Lactobacillales_f_Lactobacillaceae_Lactobacillus
S14_vf_92240	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.79_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Coprococcus
S14_vf_99344	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10.5_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Eubacterium_F
S14_vf_102698	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.62_d_Bacteria_p_Firmicutes_Clostridia_o_Actetivirionales_f_Actetivirionaceae_Ruminiclostridium
S14_vf_115150	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	39.46_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S14_vf_117166	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	22.09_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Estepia
S11_vf_67573	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	11.32_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Enterocloster
S14_vf_14737	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	33.52_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Ruminococcaceae_Ruthenbacterium
S14_vf_15228	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	86.47_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_Parabacteroides
S11_vf_68848	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	49.51_d_Bacteria_p_Firmicutes_Bacillo_Erysipelotrichales_f_Erysipelotrichaceae_Erysipelotrichodinium
S14_vf_215852	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	26.78_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S11_vf_6878	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	72.71_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_UBA11471f_UBA11471f
S14_vf_2870	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	56.13_d_Bacteria_p_Proteobacteria_o_Gammaproteobacteria_o_Burkholderiales_f_Burkholderiaceae_Sutterella
S14_vf_32499	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	51.73_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Acutibacteriaceae_Bacteroides
S14_vf_3251	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	82.87_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Flavonifractor
S14_vf_39797	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	47.42_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Anaerostipes
S11_vf_79831	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17.3_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_UBA11471f_UBA11471f
S14_vf_59347	ME	n.a.	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	29.43_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Muricomes
S14_vf_61530	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	22.32_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Acutibacteriaceae_UBA1417
S11_vf_82331	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	98.94_d_Bacteria_p_Cyanobacteria_o_Vampirovibrionia_o_Gastranaerophilales_f_Gastranaerophilaceae_QAM01
S14_vf_631	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	78.66_d_Bacteria_p_Firmicutes_Clostridia_o_Clostridiales_f_Clostridiaceae_Clostridium
S14_vf_82368	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	62.18_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Lachnospiraceae_Blaustia_A
S14_vf_66139	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	83.75_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Acutibacteriaceae_Ruminococcus_E
S11_vf_83666	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	35.28_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Dorea_A
S14_vf_66208	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	100_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S14_vf_66841	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	15.26_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Lachnospiraceae_Agarhobacter
S14_vf_67094	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Lawsonbacter
S14_vf_73031	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	15.25_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Ruminococcaceae_Massilimallae
S14_vf_78164	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	61.84_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Marinifillicaceae_Odoribacter
S14_vf_88666	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	32.05_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Acutibacteriaceae_Fimivivinus
S14_vf_9676	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	24.59_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Lawsonbacter
S14_vf_105542	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	13.83_d_Bacteria_p_Firmicutes_Bacillo_RF39f_UBA60g_CAG-460
S15_vf_2032	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	83.93_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S15_vf_20644	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	83.74_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes
S15_vf_2513	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	25.17_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Lachnospira
S15_vf_145044	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	32.93_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes_A
S14_vf_70985	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	21.93_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S12_vf_16374	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	100_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S15_vf_18274	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	75.03_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Coprobacteriaceae_Coprobacter
S14_vf_74067	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	100_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S12_vf_170614	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Salasmaviridae	O	7.03_d_Bacteria_p_Actinobacteriota_o_Coribacteriales_o_Coribacteriales_f_Coribacteriaceae_Collinsella
S15_vf_27510	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	51.41_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S15_vf_35445	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	27.45_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S12_vf_173666	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	36.83_d_Bacteria_p_Actinobacteriota_o_Coribacteriales_o_Coribacteriales_f_Eggerthellaceae_Adercreutzia
S15_vf_71968	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	100_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes
S16_vf_1037	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	73.36_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Alistipes
S15_vf_75744	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.22_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S16_vf_168955	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Salasmaviridae	O	11.84_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Ruminococcaceae_Ruthenbacterium
S16_vf_173109	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	7.33_d_Bacteria_p_Actinobacteriota_o_Actinomycetia_o_Actinomycetales_f_Bifidobacteriaceae_Bifidobacterium
S16_vf_36146	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.74_d_Bacteria_p_Firmicutes_Clostridia_o_Clostridiales_f_Clostridiaceae_Clostridium
S15_vf_42043	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	51.36_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S16_vf_5102	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	38.14_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_FH4
S16_vf_87190	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	34.33_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S16_vf_90328	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	16.6_d_Bacteria_p_Firmicutes_Clostridia_o_TANB77f_CAG-508g_CAG-269
S12_vf_97279	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	52.37_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_ER4
S12_vf_188846	SHHC	Monodnaviria	Sangerivirae	Phiviricota	Malgrandaviricetes	Petitivirales	Microviridae	O	d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Barnesiellaceae_Barnesiella
S15_vf_108554	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	18.28_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Lachnospiraceae_Faecalibacterium
S12_vf_18902	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	80.1_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_ER4
S16_vf_103726	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	26.95_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Ruminococcaceae_Ruthenbacterium
S16_vf_116956	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	43.56_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Acetatifactor
S16_vf_120622	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	61.91_d_Bacteria_p_Proteobacteria_o_Gammaproteobacteria_o_Burkholderiales_f_Burkholderiaceae_Parasutterella
S16_vf_123909	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	55.52_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Oscillospiraceae_Flavonifractor
S16_vf_127669	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	99.82_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S12_vf_61299	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Salasmaviridae	O	11.99_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Muricomes
S16_vf_127905	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	55.65_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S16_vf_136935	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	99.58_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_Bacteroides
S16_vf_142551	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.95_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_Alistipes_A
S16_vf_172079	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	99.1_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Lachnospiraceae_Coprococcus
S16_vf_173096	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	74.56_d_Bacteria_p_Verrucomicrobiales_Verrucomicrobiales_Verrucomicrobiales_Akkermansia
S16_vf_18440	SHHC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	67.51_d_Bacteria_p_Firmicutes_Clostridia_o_Oscillospirales_f_Ruminococcaceae_Faecalibacterium
S12_vf_111286	SHHC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	44.45_d_Bacteria_p_Bacteroidatac_Bacteroidia_o_Bacteroidales_f_Muribaculaceae_UBA7173
S16_vf_96483	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	29.87_d_Bacteria_p_Firmicutes_Clostridia_o_Lachnospirales_f_Lachnospiraceae_Blaustia_A

98.1	RafAH98.60
100	CRISPR.99.60 RafAH96.00 blast93.60 iPhoP-RF.72.60
98.4	CRISPR.96.80 iPhoP-RF.72.60
91.5	blast93.80 iPhoP-RF.86.20 CRISPR.56.60
95.9	CRISPR.89.80 RafAH85.80 iPhoP-RF.84.50
92.3	blast94.50 iPhoP-RF.80.60

S16_v6_19968	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	93.01_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	98.4_iPhoP-RF;97.10 blast;96.90 RaFAH;79.60
S16_v6_32764	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17.71_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	95.9_iPhoP-RF;97.10 blast;96.90
S16_v6_33781	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	7.09_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	95.9_iPhoP-RF;97.10 blast;96.90
S16_v6_4062	SHMC	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	13.68_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium	92.6_CRSR;94.70 blast;92.60 iPhoP-RF;74.30
S12_v6_133070	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	14.52_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_CAG-353	91.1_blast;93.50 iPhoP-RF;79.80
S16_v6_48714	SHMC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5.9_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D	97_blast;97.00 iPhoP-RF;97.10 CRSR;96.60
S16_v6_51901	SHMC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	16.94_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	97.6_blast;93.90 iPhoP-RF;90.10 RaFAH;85.80
S16_v6_75108	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	32.65_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UBA5446	95_blast;96.50 CRSR;82.40 iPhoP-RF;65.30
S16_v6_78361	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	75.01_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium	98.3_CRSR;98.50 iPhoP-RF;97.10 blast;96.90
S12_v6_12625	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	31.03_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	95.9_iPhoP-RF;97.10 blast;95.90
S16_v6_80244	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	99.97_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.7_iPhoP-RF;97.10 RaFAH;95.20 blast;89.20
S16_v6_15093	SHMC	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	19.11_d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74g_UBA11524	99.6_CRSR;99.60 blast;96.60 iPhoP-RF;85.70
S17_vf_174033	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	68.79_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D	99.7_iPhoP-RF;97.00 iPhoP-RF;95.40 RaFAH;94.60 CRSR;72.00
S17_vf_31318	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	84.47_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella	99.1_blast;96.90 RaFAH;88.80 CRSR;59.60
S17_vf_81232	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	Crossvirales	Suolviridae	Boorvirinae	50.04_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	97.8_blast;98.40 iPhoP-RF;95.10 CRSR;83.70
S12_v6_153780	SHMC	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	97.5_d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;p_RF321_f_CAG-239g_CAG-495	90.9_blast;93.30 iPhoP-RF;81.60
S17_vf_97671	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	81.31_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter	90.2_blast;92.70 iPhoP-RF;73.20
S17_v6_103009	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	22.09_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4	96.7_blast;97.00 iPhoP-RF;65.10
S12_v6_140456	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	11.8_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83	95.9_blast;97.10 iPhoP-RF;72.60
S17_v6_116640	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	83.12_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	91_RaFAH;93.40
S17_v6_127519	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	61.22_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter	91.2_blast;93.60 iPhoP-RF;86.70
S17_v6_160502	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	Crossvirales	Steigviridae	O	60.44_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.9_iPhoP-RF;97.10 RaFAH;96.60 blast;92.60 CRSR;56.20
S17_v6_177196	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	18.1_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	96.4_blast;95.90 iPhoP-RF;88.50 RaFAH;84.30
S17_v6_20979	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	67.97_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;98.50 iPhoP-RF;94.40 blast;92.60
S17_v6_39515	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	Crossvirales	Intestiviridae	O	82.52_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;99.30 iPhoP-RF;97.10 blast;92.90
S17_v6_43307	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	72.14_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	95.4_blast;96.80 CRSR;96.70 iPhoP-RF;93.40
S1_vf_158961	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	9.7_d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74g_UBA11524	95_blast;96.00 iPhoP-RF;77.30
S1_vf_159951	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	22.14_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	95.4_CRSR;96.80 iPhoP-RF;72.20
S1_vf_22149	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	43.65_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4	90.8_blast;93.20 iPhoP-RF;69.60
S1_v6_143929	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	42.31_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4	91.6_blast;93.90 iPhoP-RF;75.00
S2_vf_20910	SHMC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5.26_d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ	97.2_CRSR;98.00
S12_v6_1980	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	94.44_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.1_iPhoP-RF;97.10 blast;93.60 RaFAH;87.80 CRSR;58.50
S2_v6_10289	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	67.97_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;98.90 blast;96.80 iPhoP-RF;87.90
S2_v6_7386	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	96.01_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	93_blast;95.00 iPhoP-RF;93.70
S3_vf_100440	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	8.85_d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostriales;f_Clostridiaceae;g_Clostridium	94.7_RaFAH;96.30
S3_vf_106401	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	12.56_d_Bacteria;p_Firmicutes;c_Bacilli;o_Haloplasmales;f_Turicibacteraceae;g_Turicibacter	92_blast;94.50 iPhoP-RF;66.30
S12_v6_26847	SHMC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	68.45_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira	99.3_CRSR;98.90 iPhoP-RF;95.70 blast;94.10 RaFAH;74.50
S3_vf_115304	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	Crossvirales	Suolviridae	Uncovirinae	34.34_d_Bacteria;p_Spirochaetota;c_Spirochaetia;o_Sphaerochaetales;f_Sphaerochaetaceae;g_UBA9732	91.2_blast;93.60 iPhoP-RF;81.90
S3_vf_127799	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	23.09_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	90.4_RaFAH;92.90
S12_v6_32469	SHMC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1.93_d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-917g_CAG-475	94.7_blast;96.30 iPhoP-RF;66.60
S3_vf_127405	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	98.09_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira	99.7_CRSR;98.90 RaFAH;93.10 iPhoP-RF;90.80 blast;80.40
S3_vf_127406	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	89.48_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	97.8_RaFAH;98.40
S3_vf_127409	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	96.84_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	95.9_CRSR;97.00 blast;95.70 iPhoP-RF;81.10 RaFAH;51.90
S3_vf_18080	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	96.93_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.7_iPhoP-RF;97.10 iPhoP-RF;95.40 RaFAH;94.50 CRSR;81.40
S3_vf_18829	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	63.94_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	91.8_iPhoP-RF;94.10 CRSR;73.10
S3_vf_44405	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	96.43_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomycetes	100_RaFAH;97.30 CRSR;92.40 blast;92.10 iPhoP-RF;55.70
S3_vf_54353	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	46.9_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomycetes	97.8_RaFAH;97.30 iPhoP-RF;70.60
S3_vf_67333	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	76.26_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	99.9_CRSR;98.90 RaFAH;90.80 blast;85.70 iPhoP-RF;81.90
S12_v6_74280	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	14.1_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyrimonas	94.3_blast;96.00 iPhoP-RF;58.40
S3_vf_67823	Shared	Duplodnaviria	Sangerivrae	Phinoviricota	Petivirales	n.a.	Unclassified	Unclassified	42_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	91.5_blast;93.80 iPhoP-RF;64.50
S3_vf_108959	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	42.95_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira	99.3_CRSR;99.30 blast;91.90 iPhoP-RF;88.90 RaFAH;55.00
S3_vf_70746	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	87.64_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium	95.3_iPhoP-RF;96.70 iPhoP-RF;95.90 CRSR;78.50
S12_v6_81729	SHMC	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	10.77_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	97.3_CRSR;98.10 iPhoP-RF;93.40 blast;92.10
S3_vf_73597	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	55.3_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.3_CRSR;97.20 iPhoP-RF;97.10 RaFAH;93.80 blast;93.80
S3_vf_80287	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	52.73_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_D5	97.2_CRSR;98.00 iPhoP-RF;52.20
S3_vf_8058	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	98.11_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blaustia_A	98.1_CRSR;98.60 iPhoP-RF;81.60
S12_v6_87088	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	36.55_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	97.5_blast;96.60 iPhoP-RF;92.40 RaFAH;73.80 CRSR;53.50
S3_vf_82571	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	21.78_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170	93.1_blast;95.10 iPhoP-RF;73.20
S3_vf_99734	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	99.18_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	95.2_CRSR;96.60 iPhoP-RF;64.80 blast;60.50
S3_vf_142171	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	19.01_d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_Actinobacteriaceae;g_Actinobacter	92.1_blast;94.30 iPhoP-RF;66.80
S12_v6_94042	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8.07_d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74g_UBA11524	95.5_blast;96.90 iPhoP-RF;91.80
S3_v6_117894	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	81.25_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Odoribacter	99.9_blast;98.40 iPhoP-RF;93.10 RaFAH;92.30 CRSR;53.10
S12_v6_98175	SHMC	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	95.22_d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus	90.3_iPhoP-RF;89.50 blast;81.30 RaFAH;65.60
S3_v6_119660	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	91.3_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;98.50 CRSR;95.40 iPhoP-RF;95.40 blast;93.90
S3_v6_123834	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	73.11_d_Bacteria;p_Actinobacteriata;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium	98.4_CRSR;98.40 blast;96.90 iPhoP-RF;96.70 RaFAH;61.70
S12_v6_99219	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	99.93_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;98.90 iPhoP-RF;96.70 blast;91.60
S3_v6_127391	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	18.32_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger	95.6_blast;96.90 CRSR;96.30 iPhoP-RF;91.80
S3_v6_127413	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	23.82_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	97.9_CRSR;98.50 iPhoP-RF;80.00
S3_v6_127442	ME	Monodnaviria	Sangerivrae	Phinoviricota	Malgrandaviricetes	Petivirales	Microviridae	Unclassified	d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_P3g_Phl12	90.7_iPhoP-RF;93.10
S3_v6_17168	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	100_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	97.5_blast;96.90 iPhoP-RF;93.10 RaFAH;71.20
S3_v6_18858	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	82.07_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Actinobacteriaceae;g_CAG-217	97.2_blast;96.50 iPhoP-RF;86.30 CRSR;68.70
S3_v6_29077	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	34.15_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_C	94.9_blast;96.40 iPhoP-RF;80.00 CRSR;51.40
S13_vf_147589	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	6.46_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	91.5_blast;93.80 iPhoP-RF;78.50
S3_v6_42569	ME	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	73.75_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	99.7_CRSR;98.30 blast;96.90 RaFAH;90.40 iPhoP-RF;73.70
S3_v6_45147	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	90.75_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	99.4_iPhoP-RF;97.10 RaFAH;91.20
S3_v6_49816	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13.1_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Actinobacteriaceae;g_Ruminococcus_E	90_CRSR;99.20 iPhoP-RF;95.60 iPhoP-RF;93.10
S3_v6_50924	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	12.69_d_Bacteria;p_Cyanobacteria;c_Vampirobionta;o_Gastreaerophilales;f_Gastreaerophilaceae;g_QAM01	90.4_blast;92.00 iPhoP-RF;57.10
S3_v6_54303	Shared	Duplodnaviria	Heunggongvrae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	46.83_d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_	91.6_blast;93.90 iPhoP-RF;80.30
S3_v6_64424	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	98.41_d_Bacteria;p_Bacteroidta;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	100_RaFAH;99.60 iPhoP-RF;97.10 blast;92.20 CRSR;69.50
S3_v6_70508	Shared	n.a.	n.a.							

S3_vt_68031	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	27.92_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium	95.6	blast:96.90	IPhOP-RF:73.20	CRISPR:56.90	
S4_vt_VIRSorter_12831-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	21.81_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Blaustia_A	91.6	blast:93.90	IPhOP-RF:85.10	CRISPR:58.50	
S4_vt_VIRSorter_13130-SHNC	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	96.31_d_Bacteria_p_Firmicutes_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Parabacteroides	100	RafAH:99.80	IPhOP-RF:94.40	blast:91.20	CRISPR:66.50
S4_vt_VIRSorter_15112-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	n.a.	16.47_d_Bacteria_p_Firmicutes_c_Clostridia_o_Peptostreptococcales_f_GCA-900066495	91.6	blast:93.90	IPhOP-RF:75.70		
S4_vt_VIRSorter_15837-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	96.3_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor	97.2	blast:98.00	CRISPR:89.70	IPhOP-RF:84.80	
S4_vt_VIRSorter_16493-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	85.89_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Bifidobacteriaceae_g_Bifidobacterium	97.9	CRISPR:98.50	IPhOP-RF:96.40	blast:92.50	
S4_vt_VIRSorter_19324-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	25.86_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Mediterraneibacter	91.4	blast:93.70	IPhOP-RF:76.40		
S4_vt_VIRSorter_3006-c-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	99.88_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Mediterraneibacter	91.6	blast:93.90			
S4_vt_VIRSorter_30222-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	n.a.	65.63_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_Intestimonas	91.5	blast:93.80			
S4_vt_VIRSorter_31171-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	46.28_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_QAMM01	90.2	blast:92.70	IPhOP-RF:54.90		
S4_vt_VIRSorter_31196-Shared		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	93.39_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor	99.4	CRISPR:97.90	blast:96.20	IPhOP-RF:88.90	RafAH:87.70
S13_vt_45488	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	22.02_d_Bacteria_p_Proteobacteria_c_Alphaproteobacteria_o_RF32_f_CAG-239_g_51-20	97.9	CRISPR:98.50	blast:79.90	IPhOP-RF:74.60	
S4_vt_VIRSorter_31590-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	59.79_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor	90.3	blast:92.80	IPhOP-RF:86.30	CRISPR:64.80	
S4_vt_VIRSorter_31976-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	n.a.	17.17_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Gemmiger	97.2	CRISPR:98.00	blast:96.20	IPhOP-RF:93.70	
S13_vt_57267	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	38.42_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella	90.6	RafAH:93.00			
S4_vt_VIRSorter_31980-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	13.26_d_Bacteria_p_Proteobacteria_c_Gammaproteobacteria_o_Burkholderiales_f_Burkholderiaceae_g_Duodenibacillus	96.7	blast:97.70	CRISPR:83.90	IPhOP-RF:70.60	
S4_vt_VIRSorter_4746-c-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Salasamviridae	O	5.45_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia	90.3	IPhOP-RF:92.80			
S4_vt_VIRSorter_4839-c-SHNC		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	69.64_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Massiliimallae	91.4	blast:93.70	IPhOP-RF:75.70		
S4_vt_VIRSorter_4959-c-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	50.34_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_EHA	94.2	blast:95.50	IPhOP-RF:60.50		
S4_vt_VIRSorter_6022-c-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	97.71_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Tannerellaceae_g_Marseillea_P3160	98.4	CRISPR:98.80	IPhOP-RF:65.30		
S4_vt_VIRSorter_9913-c-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	98.3_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Marinifilaceae_g_Odoribacter	99.7	CRISPR:97.90	RafAH:92.60		
S5_vt_31973	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	23.92_d_Bacteria_p_Patescibacteria_c_Paceibacteriia_o_UBA983_Af_FUBA1006_g_01-FULL-36-10b	92.2	IPhOP-RF:94.40			
S5_vt_130400	Shared	n.a.	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Mushuvirus	100	RafAH:98.80	blast:96.50	IPhOP-RF:69.10		
S5_vt_130676	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	41.14_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_EHA	91	blast:95.00	IPhOP-RF:69.80		
S5_vt_137260	Shared	Unclassified	n.a.	n.a.	n.a.	n.a.	Unclassified	O	O	6.74_d_Bacteria_p_Actinobacteriota_c_Coribacteriia_o_Coribacteriales_f_Coribacteriaceae_g_Collinsella	92.9	CRISPR:94.90			
S5_vt_145585	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	9.85_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Lachnospiraceae_g_Enterocloster	91.2	blast:93.60	IPhOP-RF:91.40	CRISPR:53.80	
S14_vt_115736	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	O	85.01_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_Flavonifractor	91.2	blast:93.60	IPhOP-RF:89.80	CRISPR:61.00	
S5_vt_145588	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	34.8_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Dorea_A	97.2	CRISPR:98.00	IPhOP-RF:64.30		
S14_vt_117147	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	30.35_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Lachnospiraceae_g_Gemmiger	95.2	blast:96.70	CRISPR:94.60	IPhOP-RF:86.30	
S5_vt_18461	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	99.96_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_g_Alistipes	92.7	RafAH:92.00	blast:67.20		
S5_vt_25423	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Skunuvirus	81	RafAH:98.80	blast:98.50	IPhOP-RF:91.40		
S14_vt_117155	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	63.17_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Actinomycetaceae_g_Pauljensenia	98.4	RafAH:94.80	CRISPR:83.10	IPhOP-RF:64.80	
S5_vt_28061	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	20.02_d_Bacteria_p_Firmicutes_c_Bacilli_o_Haloplasmales_Af_Turicibacteraceae_g_Turicibacter	91.5	blast:93.80	IPhOP-RF:68.60		
S5_vt_6509	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	20.08_d_Bacteria_p_Firmicutes_c_Clostridia_o_Clostriales_f_Clostridiaceae_g_Clostridium_J	90.3	blast:92.80	IPhOP-RF:67.70		
S14_vt_117162	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	23.32_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella	94	RafAH:90.00	IPhOP-RF:70.90	CRISPR:63.50	
S5_vt_74661	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	91.73_d_Bacteria_p_Proteobacteria_c_Gammaproteobacteria_o_Enterobacteriales_f_Enterobacteriaceae_g_Escherichia	100	RafAH:99.40	IPhOP-RF:97.10	blast:96.80	CRISPR:85.00
S5_vt_8965	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	100	RafAH:99.60	IPhOP-RF:97.10	blast:96.30		
S5_vt_107105	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	21.85_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_CAG-110	94.7	blast:96.30	IPhOP-RF:67.00		
S5_vt_120079	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	Unclassified	88.37_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia	95.3	blast:96.70	IPhOP-RF:96.40	CRISPR:84.10	
S4_vt_VIRSorter_31975-Shared		Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	99.3_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Bacteroides	99.6	IPhOP-RF:97.10	blast:96.60	CRISPR:94.50	RafAH:92.70
S14_vt_51134	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	47.7_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Ruminococcaceae_g_Ruminococcus_D	97.2	blast:97.00	IPhOP-RF:92.80	RafAH:52.60	
S14_vt_57689	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	94.04_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Actinomycetaceae_g_Actinomycetes	99	blast:94.00	RafAH:93.30	CRISPR:80.00	IPhOP-RF:75.40
S14_vt_85122	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	O	16.16_d_Bacteria_p_Firmicutes_c_Clostridia_o_Clostridiales_f_Clostridiaceae_g_Clostridium	95	blast:92.30	IPhOP-RF:86.00	RafAH:77.50	
S14_vt_91314	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Salasamviridae	O	O	12.04_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Muricomes	96.7	CRISPR:97.70			
S1_vt_145179	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Stegoviridae	O	O	44.59_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Prevotella	94.8	RafAH:96.20			
S14_vt_100227	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	81.21_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Enterocloster	94.2	CRISPR:95.90	blast:94.00	IPhOP-RF:86.30	
S14_vt_101482	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	6.74_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_QAMM01	92	blast:94.20	IPhOP-RF:69.10		
S14_vt_112068	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	27.86_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Butyricicoccaceae_g_Agathobaculum	97.5	blast:98.20	IPhOP-RF:66.00		
S14_vt_112345	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	71.03_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides	99.1	IPhOP-RF:96.70	RafAH:88.90	blast:75.90	
S14_vt_115137	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	76.83_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Blaustia_A	98.5	CRISPR:97.10	blast:94.50	IPhOP-RF:60.90	
S14_vt_115455	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	25.58_d_Bacteria_p_Firmicutes_c_Clostridia_o_Eubacteriales_f_Eubacteriaceae_g_Eubacterium	93.8	CRISPR:95.00	IPhOP-RF:89.70	IPhOP-RF:84.50	
S5_vt_109527	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	23.09_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides	99	IPhOP-RF:96.40	blast:92.90	RafAH:89.10	
S14_vt_117153	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	96.78_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Dorea_A	94.2	blast:95.90	IPhOP-RF:94.70	CRISPR:58.40	
S5_vt_122344	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	O	26.84_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Roseburia	97.6	CRISPR:98.30	blast:95.70	IPhOP-RF:93.10	
S14_vt_26230	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	Unclassified	65.93_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Flavonifractor	95.2	blast:96.60	IPhOP-RF:87.20		
S14_vt_30108	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	19.83_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Lachnospiraceae_g_Enterocloster	92.3	blast:94.50	CRISPR:82.40	IPhOP-RF:78.30	
S14_vt_38905	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	9.01_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Ruthenibacterium	93.8	blast:95.60	IPhOP-RF:81.60	CRISPR:54.30	
S14_vt_39266	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	Unclassified	O	15.51_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Actinobacteriaceae_g_Ruminococcus_E	98.7	CRISPR:99.00	blast:96.80	IPhOP-RF:93.70	
S14_vt_56251	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	20.56_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Muricomes	95.3	IPhOP-RF:96.70	blast:93.30	CRISPR:68.70	
S14_vt_56410	ME	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	80.58_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Lachnospiraceae_g_Flavonifractor	95.2	blast:96.60	IPhOP-RF:95.40	CRISPR:64.00	
S14_vt_50934	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	62.33_d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Ruminococcaceae_g_Faecalibacterium	99.1	blast:96.70	RafAH:89.00	IPhOP-RF:81.10	
S14_vt_96286	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	99.54_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Blaustia	96.3	RafAH:97.40			
S14_vt_97935	ME	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	d_Bacteria_p_Firmicutes_c_Clostridia_o_Oscillospirales_f_Oscillospiraceae_g_CAG-83	90.6	blast:93.00	IPhOP-RF:84.20		
S15_vt_3868	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	100	RafAH:99.10	blast:96.50	IPhOP-RF:61.40		
S15_vt_43913	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	99.8_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Bacteroidaceae_g_Bacteroides	100	RafAH:99.30	IPhOP-RF:97.10	blast:96.70	
S16_vt_100473	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8.42_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Bifidobacteriaceae_g_Bifidobacterium	90.3	blast:92.80			
S16_vt_16182	Shared	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	64.12_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Actinomycetaceae_g_Pauljensenia	96.9	RafAH:95.10	CRISPR:68.30	IPhOP-RF:64.80	
S16_vt_172897	SHNC	Duplodnaviria	Heunggongvirae	Uroviricota	Caudoviricetes	n.a.	Unclassified	O	O	32.49_d_Bacteria_p_Actinobacteriota_c_Actinomycetia_o_Actinomycetiales_f_Bifidobacteriaceae_g_Bifidobacterium	98.4	CRISPR:98.80	IPhOP-RF:97.10	blast:93.30	
S16_vt_5809	SHNC	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	87.43_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Lachnospiraceae_g_Lachnospira	99.9	CRISPR:99.00	IPhOP-RF:95.40	blast:93.40	RafAH:91.70
S16_vt_84662	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	31.67_d_Bacteria_p_Firmicutes_c_Clostridia_o_Lachnospirales_f_Anaerotruncaceae_g_Anaerotruncum	94.2	blast:95.00	IPhOP-RF:79.50		
S16_vt_9270	Shared	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	6.58_d_Bacteria_p_Bacteroidota_c_Bacteroidia_o_Bacteroidales_f_Rikenellaceae_g_Alistipes	98.4	CRISPR:98.80	IPhOP-RF:95.10		
S16_vt_101072	SHNC	Duplodnaviria	Heunggongvirae</												

Table S9-5. VLP_Hosts_pivot	Host interactions with:	# Hosts
d__Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Actinomyces	ME-viruses-only	59
ME	SHHC-viruses-only	26
S14_vf_57689	Shared/communal viruses	90
Caudoviricetes		
Unclassified		
O		
O		
S3_vf_54353		
Caudoviricetes		
Unclassified		
Unclassified		
Cimpunavirus		
S3_vf_5525		
n.a.		
n.a.		
n.a.		
n.a.		
Shared		
S3_vf_44405		
Caudoviricetes		
Unclassified		
Unclassified		
Unclassified		
d__Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Actinomycetaceae;g__Pauljensenia		
ME		
S11_vf_66522		
Caudoviricetes		
Unclassified		
Unclassified		
Unclassified		
Shared		
S14_vf_117155		
Caudoviricetes		
Unclassified		
O		
O		
S16_vf_16182		
Caudoviricetes		
Unclassified		
O		
O		
d__Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium		
ME		
S11_vf_58587		
n.a.		
n.a.		
n.a.		
n.a.		
S13_vs_113593		
Caudoviricetes		
Unclassified		
Unclassified		
Unclassified		
S13_vs_149860		
Caudoviricetes		
Unclassified		
Unclassified		
O		
S3_vf_127408		

Caudoviricetes

Unclassified

O

O

S3_vs_39940

n.a.

n.a.

n.a.

n.a.

S7_vf_5843

Caudoviricetes

Unclassified

O

O

S7_vs_73280

Caudoviricetes

Unclassified

Unclassified

Minunavirus

Shared

S16_vf_100473

n.a.

n.a.

n.a.

n.a.

S16_vs_78361

Caudoviricetes

Unclassified

O

O

S3_vf_70746

Caudoviricetes

Unclassified

Unclassified

Unclassified

S3_vf_7137

n.a.

Unclassified

Unclassified

O

S3_vs_123834

Caudoviricetes

Unclassified

O

O

S4_vf_30103

n.a.

Unclassified

Unclassified

O

S4_vs_VIRSorter_16493-cat_2

Caudoviricetes

Unclassified

Unclassified

Unclassified

S5_vs_63924

Caudoviricetes

Unclassified

Unclassified

Unclassified

S8_vf_153696
n.a.
n.a.
n.a.
S8_vf_197061
Caudoviricetes
Unclassified
Unclassified
Unclassified

SHHC
S16_vf_172897
Caudoviricetes
Unclassified
O
O
S16_vf_173109
Caudoviricetes
Unclassified
Unclassified
Unclassified

S4_vf_12624
Caudoviricetes
Unclassified
O
O
S4_vs_VIRSorter_2744-cat_3
Caudoviricetes
Unclassified
O
O
S4_vs_VIRSorter_5698-cat_2
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Actinomycetales;f__Micrococcaceae;g__Rothia

SHHC
S8_vf_102508
n.a.
n.a.
n.a.
n.a.
S8_vf_7243
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Actinobacteriota;c__Actinomycetia;o__Mycobacteriales;f__Mycobacteriaceae;g__Mycobacterium

ME
S9_vf_934
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella

ME
S5_vf_29332
Caudoviricetes
Unclassified

O
O
S7_vs_55526
n.a.
n.a.
n.a.
n.a.
Shared
S3_vf_99626
Caudoviricetes
Unclassified
O
O
S5_vf_137260
n.a.
Unclassified
O
O
SHHC
S12_vf_170614
Caudoviricetes
Salasmaviridae
O
O
S8_vf_142700
n.a.
Unclassified
O
O

d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__Adlercreutzia
Shared
S12_vf_173666
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__Eggerthella
ME
S7_vf_67910
n.a.
n.a.
n.a.
n.a.
Shared
S2_vf_16829
Caudoviricetes
Unclassified
Unclassified
O

d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__Gordonibacter
ME
S3_vs_50557
Caudoviricetes
Unclassified
O
O
SHHC
S8_vf_195032
Caudoviricetes
Unclassified

O
O

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides

ME

S11_vf_104033

Caudoviricetes

Unclassified

O

O

S11_vf_43997

Caudoviricetes

Unclassified

Unclassified

Unclassified

S11_vs_23188

n.a.

n.a.

n.a.

n.a.

S11_vs_84848

Caudoviricetes

Unclassified

Unclassified

Unclassified

S13_vf_66508

Caudoviricetes

Unclassified

O

O

S14_vf_117162

Caudoviricetes

Unclassified

Unclassified

O

S17_vs_116640

Caudoviricetes

Unclassified

O

O

S17_vs_160502

Caudoviricetes

Steigviridae

O

O

S17_vs_39515

Caudoviricetes

Intestiviridae

O

O

S3_vf_18080

n.a.

n.a.

n.a.

n.a.

S3_vf_18829

Caudoviricetes

Unclassified

O

O

S3_vf_73597

Caudoviricetes

Unclassified

O
O

S3_vs_23194

Caudoviricetes

Duneviridae

O
O

S3_vs_40939

n.a.
n.a.

n.a.
n.a.

S3_vs_45147

n.a.
n.a.

n.a.
n.a.

S5_vf_8965

Caudoviricetes

Unclassified

O
O

S5_vs_72532

Caudoviricetes

Unclassified

O
O

S7_vf_27309

Caudoviricetes

Unclassified

Unclassified
O

S7_vs_135828

Malgrandaviricetes

Microviridae

Unclassified
Unclassified

S7_vs_2599

n.a.
n.a.

n.a.
n.a.

S7_vs_557

Caudoviricetes

Unclassified

O
O

S7_vs_944

n.a.
n.a.

n.a.
n.a.

S9_vs_83108

n.a.
n.a.

n.a.
n.a.

Shared

S10_vs_14557
Caudoviricetes
Dunviridae
O
O
S10_vs_35854
Caudoviricetes
Unclassified
O
O
S10_vs_36598
n.a.
n.a.
n.a.
S10_vs_58014
Caudoviricetes
Unclassified
Unclassified
Unclassified
S10_vs_62776
Caudoviricetes
Unclassified
O
O
S10_vs_71900
n.a.
n.a.
n.a.
n.a.
S11_vs_3277
Caudoviricetes
Unclassified
Unclassified
Unclassified
S11_vs_45658
Caudoviricetes
Unclassified
O
O
S11_vs_58930
Caudoviricetes
Unclassified
Unclassified
Unclassified
S12_vf_16374
Caudoviricetes
Unclassified
O
O
S12_vs_141337
Caudoviricetes
Unclassified
Unclassified
Unclassified
S12_vs_151292
Caudoviricetes
Unclassified
Unclassified
Unclassified

S12_vs_1980
Caudoviricetes
Unclassified
O
O
S12_vs_26336
n.a.
n.a.
n.a.
S12_vs_99219
n.a.
n.a.
n.a.
S14_vs_112345
n.a.
n.a.
n.a.
S14_vs_11510
n.a.
n.a.
n.a.
S14_vs_25852
n.a.
n.a.
n.a.
S14_vs_32499
Caudoviricetes
Unclassified
O
O
S14_vs_66208
Caudoviricetes
Unclassified
O
O
S14_vs_70985
n.a.
n.a.
n.a.
S14_vs_74067
n.a.
n.a.
n.a.
S15_vf_2032
Caudoviricetes
Unclassified
O
O
S15_vf_75924
Caudoviricetes
Steigviridae
O
O

S15_vs_27510
n.a.
n.a.
n.a.
S15_vs_35445
n.a.
n.a.
n.a.
S15_vs_3868
Caudoviricetes
Unclassified
O
O
S15_vs_42043
n.a.
n.a.
n.a.
S15_vs_43913
Caudoviricetes
Unclassified
O
O
S16_vs_127669
Caudoviricetes
Unclassified
Unclassified
Unclassified
S16_vs_127905
n.a.
n.a.
n.a.
S16_vs_136935
n.a.
n.a.
n.a.
S16_vs_80244
n.a.
n.a.
n.a.
S17_vf_128147
Malgrandaviricetes
Microviridae
Unclassified
O
S17_vf_140653
Caudoviricetes
Unclassified
O
O
S17_vs_117507
n.a.
n.a.
n.a.
n.a.

S17_vs_2079
Caudoviricetes
Unclassified
Unclassified
Unclassified

S2_vs_10289
Caudoviricetes
Unclassified
Unclassified
Unclassified

S3_vf_127399
Caudoviricetes
Unclassified
O
O

S3_vs_119660
Caudoviricetes
Unclassified
Unclassified
Unclassified

S3_vs_39774
n.a.
n.a.
n.a.
n.a.

S3_vs_64424
n.a.
n.a.
n.a.
n.a.

S3_vs_70508
n.a.
n.a.
n.a.
n.a.

S3_vs_9158
n.a.
n.a.
n.a.
n.a.

S4_vs_VIRSorter_31975-circular-cat_1
Caudoviricetes
Unclassified
O
O

S5_vs_109527
n.a.
n.a.
n.a.
n.a.

S5_vs_129970
n.a.
n.a.
n.a.
n.a.

S5_vs_131510
Caudoviricetes
Unclassified
Unclassified
O

S5_vs_142195

n.a.

n.a.

n.a.

n.a.

S5_vs_80496

n.a.

n.a.

n.a.

n.a.

S6_vf_56486

Caudoviricetes

Unclassified

O

O

S6_vs_46039

n.a.

n.a.

n.a.

n.a.

S6_vs_9784

n.a.

n.a.

n.a.

n.a.

S7_vf_37279

Caudoviricetes

Unclassified

O

O

S7_vf_5801

Caudoviricetes

Unclassified

O

O

S7_vs_11081

Caudoviricetes

Unclassified

Unclassified

Unclassified

S8_vf_208120

Caudoviricetes

Unclassified

O

O

S8_vf_28956

n.a.

n.a.

n.a.

n.a.

S8_vs_147697

n.a.

n.a.

n.a.

n.a.

S8_vs_28311

Caudoviricetes

Duneviridae

O

O

S8_vs_72117
n.a.
n.a.
n.a.
S8_vs_99362
Caudoviricetes
Unclassified
Unclassified
Unclassified
S9_vs_28197
Caudoviricetes
Unclassified
O
O
SHHC
S10_vf_43964
Caudoviricetes
Unclassified
O
O
S10_vs_106834
Caudoviricetes
Unclassified
O
O
S12_vf_60224
Caudoviricetes
Unclassified
O
O
S16_vf_87190
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaeicola
ME
S14_vf_37500
Malgrandaviricetes
Microviridae
Unclassified
Unclassified
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella
ME
S3_vf_127450
n.a.
n.a.
n.a.
n.a.
Shared
S11_vf_104035
Caudoviricetes
Suoliviridae
O
O
S13_vf_11246
Caudoviricetes
Suoliviridae
O

O
S13_vs_57267
Caudoviricetes
Unclassified
O
O
S5_vf_145579
Caudoviricetes
Steigviridae
O
O
S8_vf_117796
Caudoviricetes
Unclassified
Unclassified
Unclassified
S8_vf_122206
Caudoviricetes
Unclassified
O
O
S8_vf_166677
Caudoviricetes
Intestiviridae
Obtuvirinae
Fohxhuevirus
S8_vf_183045
Caudoviricetes
Unclassified
Unclassified
Unclassified
S8_vf_79769
n.a.
n.a.
n.a.
n.a.
S9_vf_13507
n.a.
n.a.
n.a.
n.a.
S9_vf_51656
Caudoviricetes
Intestiviridae
Obtuvirinae
Fohxhuevirus
S9_vf_76769
Caudoviricetes
Suoliviridae
Loutivirinae
Buchavirus
SHHC
S4_vf_18803
Caudoviricetes
Unclassified
Unclassified
Unclassified
S4_vf_20440
Caudoviricetes
Unclassified

O
O
S4_vf_31981
Caudoviricetes
Suoliviridae
Uncouvirinae
Besingivirus
S4_vf_4891
n.a.
n.a.
n.a.
n.a.
S8_vs_148389
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotellamassilia
SHHC
S12_vf_69136
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Barnesiellaceae;g__Barnesiella
ME
S17_vf_35138
Caudoviricetes
Unclassified
O
O
S9_vs_21850
Caudoviricetes
Unclassified
Unclassified
Unclassified
Shared
S13_vs_90967
Malgrandaviricetes
Microviridae
O
O
S8_vs_4153
n.a.
n.a.
n.a.
n.a.
SHHC
S12_vf_188846
Malgrandaviricetes
Microviridae
O
O
S4_vf_12614
n.a.
n.a.
n.a.
n.a.
S8_vf_208115
Malgrandaviricetes

Microviridae
O
O
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Coproacteraceae;g__Coproacter
ME
S7_vs_51332
n.a.
n.a.
n.a.
n.a.
SHHC
S15_vs_18274
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Butyricimonas
Shared
S12_vs_71525
n.a.
n.a.
n.a.
n.a.
S12_vs_74280
n.a.
n.a.
n.a.
n.a.
S3_vs_6604
Caudoviricetes
Duneviridae
O
O
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Marinifilaceae;g__Odoribacter
ME
S14_vs_78164
Caudoviricetes
Winoviridae
O
O
S3_vs_97827
n.a.
n.a.
n.a.
n.a.
Shared
S3_vs_117894
n.a.
n.a.
n.a.
n.a.
S4_vs_VIRSorter_9913-cat_1
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Muribaculaceae;g__UBA7173
SHHC
S12_vs_111286
n.a.

n.a.
n.a.
n.a.

d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_P3;g_Phil12

ME
S3_vs_127442
Malgrandaviricetes
Microviridae
Unclassified
Unclassified

d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes

ME
S1_vf_159951
Caudoviricetes
Unclassified
O
O
S11_vf_104071
Caudoviricetes
Unclassified
O
O
S11_vs_36748
n.a.
n.a.
n.a.
S11_vs_98193
Caudoviricetes
Unclassified
Unclassified
Unclassified
S13_vf_56074
Caudoviricetes
Unclassified
Unclassified
Unclassified
S17_vs_177196
n.a.
n.a.
n.a.
n.a.
S3_vf_127406
Caudoviricetes
Unclassified
Unclassified
Unclassified
S3_vs_127413
Caudoviricetes
Unclassified
O
O
S3_vs_77156
Malgrandaviricetes
Microviridae
Unclassified
Unclassified
S5_vs_1338
n.a.
n.a.

n.a.
n.a.
S7_vs_54322
n.a.
n.a.
n.a.
n.a.

Shared
S10_vs_37694
Caudoviricetes
Dunviridae

O
O
S11_vf_70015
Caudoviricetes
Unclassified
O
O

S11_vs_1937
Caudoviricetes
Unclassified
O
O

S12_vf_174374
n.a.
n.a.
n.a.
n.a.

S12_vs_142625
Caudoviricetes
Unclassified
O
O

S13_vs_83447
n.a.
n.a.
n.a.
n.a.

S15_vs_71968
Caudoviricetes
Unclassified
O
O

S16_vf_9270
n.a.
n.a.
n.a.
n.a.

S16_vs_19968
n.a.
n.a.
n.a.
n.a.

S16_vs_32764
n.a.
n.a.
n.a.
n.a.

S16_vs_33281
n.a.

n.a.
n.a.
n.a.
S17_vs_157209
n.a.
n.a.
n.a.
n.a.
S3_vf_67828
Malgrandaviricetes
Microviridae
Unclassified
Unclassified
S3_vs_17168
Caudoviricetes
Unclassified
O
O
S3_vs_56292
Caudoviricetes
Unclassified
O
O
S3_vs_89485
n.a.
n.a.
n.a.
n.a.
S5_vf_18461
Caudoviricetes
Unclassified
O
O
S5_vs_123256
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5_vs_20500
Caudoviricetes
Unclassified
O
O
S5_vs_76500
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5_vs_79992
Caudoviricetes
Winoviridae
O
O
S5_vs_93839
Caudoviricetes
Unclassified
O
O
S7_vf_117697
n.a.

n.a.
n.a.
n.a.
S7_vs_119679
Caudoviricetes
Winoviridae
O
O
S7_vs_138173
Caudoviricetes
Unclassified
O
O
S8_vs_179208
n.a.
n.a.
n.a.
S8_vs_40014
n.a.
n.a.
n.a.
n.a.
n.a.
S8_vs_9987
Caudoviricetes
Unclassified
O
O
S9_vs_2799
n.a.
n.a.
n.a.
n.a.
S9_vs_48424
n.a.
n.a.
n.a.
n.a.
SHHC
S10_vs_67471
n.a.
n.a.
n.a.
n.a.
S12_vs_121913
n.a.
n.a.
n.a.
n.a.
S12_vs_23796
Caudoviricetes
Unclassified
Unclassified
Unclassified
S15_vf_20644
Caudoviricetes
Unclassified
Unclassified
Unclassified
S16_vs_51901

n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes_A
ME
S7_vf_134023
n.a.
n.a.
n.a.
n.a.
Shared
S12_vf_145044
n.a.
n.a.
n.a.
n.a.
S16_vs_142561
Caudoviricetes
Unclassified
O
O
S6_vs_32886
n.a.
n.a.
n.a.
n.a.
S7_vs_50194
n.a.
n.a.
n.a.
SHHC
S8_vs_9114
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Marseille-P3160
Shared
S13_vf_87873
Caudoviricetes
Unclassified
Unclassified
Unclassified
S4_vs_VIRSorter_6022-circular-cat_1
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides
ME
S11_vf_68693
n.a.
n.a.
n.a.
n.a.
S7_vs_55031
n.a.
n.a.

n.a.
n.a.
Shared
S10_vf_18671
Caudoviricetes
Unclassified
Unclassified
Unclassified
S10_vs_37379
n.a.
n.a.
n.a.
n.a.
S12_vs_138261
n.a.
n.a.
n.a.
n.a.
S13_vf_143422
Caudoviricetes
Suoliviridae
Boorivirinae
Canhaevirus
S13_vs_15645
Caudoviricetes
Unclassified
O
O
S14_vs_15228
Caudoviricetes
Unclassified
O
O
S17_vf_81232
Caudoviricetes
Suoliviridae
Boorivirinae
Canhaevirus
S17_vs_43307
n.a.
n.a.
n.a.
n.a.
S2_vs_7306
Caudoviricetes
Unclassified
Unclassified
Unclassified
S3_vs_80151
Caudoviricetes
Unclassified
O
O
S3_vs_82895
Caudoviricetes
Unclassified
O
O
S4_vf_4838
Caudoviricetes

Suoliviridae
Boorivirinae
Cohcovirus
S4_vs_VIRSorter_13190-cat_2

Caudoviricetes
Unclassified
O

O
S5_vs_1572
Caudoviricetes
Unclassified
Unclassified
Unclassified

S6_vs_15390
Caudoviricetes
Unclassified
O

O
S7_vf_28429
Caudoviricetes
Unclassified
O

O
S7_vs_137915
Caudoviricetes
Unclassified
O

O
S8_vf_158225
Caudoviricetes
Intestiviridae

Crudevirinae
Diorhovirus

S8_vs_182288
Caudoviricetes
Unclassified
O

O
SHHC

S8_vf_16172
n.a.
n.a.

n.a.
n.a.

S8_vs_126582
Caudoviricetes
Unclassified
O

O

d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_UBA11471;g_UBA11471

ME

S11_vs_79831
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Cyanobacteria;c_Vamprovibrionia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_CAG-306

ME

S11_vs_104041
Caudoviricetes

Unclassified
O
O
d_Bacteria;p__Cyanobacteria;c__Vampirovibrionia;o__Gastranaerophilales;f__Gastranaerophilaceae;g__QAMI01
ME
S11_vs_82331
Caudoviricetes
Unclassified
O
O
S3_vs_50924
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Desulfobacterota;c__Desulfovibrionia;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Bilophila
ME
S17_vs_177203
Caudoviricetes
Unclassified
O
O
Shared
S8_vf_208111
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Desulfobacterota;c__Desulfovibrionia;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Mailhella
SHHC
S8_vs_208114
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelatoclostridiaceae;g__Catenibacterium
Shared
S8_vs_59736
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelatoclostridiaceae;g__Erysipelatoclostridium
ME
S11_vs_68348
Caudoviricetes
Unclassified
O
O
S7_vs_13041
Caudoviricetes
Unclassified
O
O
S9_vs_46498
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelatoclostridiaceae;g__Faecalibacillus

ME
S17_vs_31654
Caudoviricetes
Unclassified
O
O
S3_vs_94577
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelatoclostridiaceae;g__Massiliomicrobiota

ME
S11_vs_55144
n.a.
n.a.
n.a.
n.a.
S7_vf_38697
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Clostridium_AQ

ME
S5_vs_122618
n.a.
n.a.
n.a.
n.a.
S9_vs_90846
Caudoviricetes
Unclassified
O
O

Shared
S11_vf_92391
n.a.
n.a.
n.a.
n.a.

SHHC
S2_vf_20910
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemanella

SHHC
S4_vf_10506
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Bacilli;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemania

ME
S11_vs_14882
n.a.
n.a.
n.a.

n.a.
S14_vf_72335
Caudoviricetes
Unclassified
O
O
S5_vs_51416
Caudoviricetes
Unclassified
O
O
S9_vs_37437
Caudoviricetes
Unclassified
O
O
Shared
S6_vs_56485
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Bacilli;o_Haloplasmatales_A;f_Turicibacteraceae;g_Turicibacter
ME
S3_vf_106401
Caudoviricetes
Unclassified
O
O
S5_vf_28061
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lacticaseibacillus
ME
S14_vf_72953
Caudoviricetes
Unclassified
Unclassified
Unclassified
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactobacillus
ME
S14_vf_106156
Caudoviricetes
Unclassified
Unclassified
Unclassified
S14_vf_78139
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5_vs_6478
Caudoviricetes
Unclassified
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Leuconostoc
ME

S7_vf_63894
Caudoviricetes
Unclassified
McCleskeyvirinae
Unaquatrovirus

SHHC
S8_vf_129423
Caudoviricetes
Unclassified
McCleskeyvirinae
Unaquatrovirus

d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Limosilactobacillus

ME
S5_vs_89540
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus

ME
S7_vf_68239
Caudoviricetes
Unclassified
O
O

Shared
S3_vf_23042
Caudoviricetes
Unclassified
O
O

S5_vf_25423
Caudoviricetes
Unclassified
Unclassified
Sknavirus

S5_vf_55687
Caudoviricetes
Unclassified
O
O

S7_vf_29941
Caudoviricetes
Unclassified
O
O

S7_vf_89197
Caudoviricetes
Unclassified
Unclassified
Ceduvirus

S8_vf_45776
Caudoviricetes
Unclassified
Unclassified
Sknavirus

d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus

ME
S5_vs_60507
Caudoviricetes

Unclassified
Unclassified
O
S7_vf_138069
n.a.
n.a.
n.a.
n.a.
S7_vf_37293
Caudoviricetes
Unclassified
O
O
S7_vf_49007
Caudoviricetes
Unclassified
O
O
S9_vf_15012
Caudoviricetes
Unclassified
Unclassified
Unclassified
S9_vf_19284
n.a.
n.a.
n.a.
n.a.
S9_vf_4115
Caudoviricetes
Unclassified
Unclassified
Unclassified
S9_vf_90856
Caudoviricetes
Unclassified
Unclassified
O
S9_vf_90866
n.a.
Unclassified
Unclassified
Unclassified
Shared
S10_vf_64371
n.a.
n.a.
n.a.
n.a.
n.a.
S11_vf_27845
n.a.
n.a.
n.a.
n.a.
S14_vf_117157
n.a.
n.a.
n.a.
n.a.
SHHC

S8_vf_134943
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Bacilli;o__ML615J-28;f__CAG-313;g__CAG-313

Shared
S13_vs_30101
Caudoviricetes
Unclassified
O
O
S16_vs_141218
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Bacilli;o__RF39;f__UBA660;g__CAG-302

SHHC
S12_vs_123620
n.a.
n.a.
n.a.
n.a.
S16_vs_165662
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Bacilli;o__RF39;f__UBA660;g__CAG-460

Shared
S13_vs_26756
n.a.
n.a.
n.a.
n.a.
S13_vs_67429
n.a.
n.a.
n.a.
n.a.

SHHC
S12_vf_105542
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Bacilli;o__RF39;f__UBA660;g__CAG-877

SHHC
S12_vs_172379
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Acetivibrionales;f__Acetivibrionaceae;g__Ruminiclostridium

ME
S14_vs_102698
Caudoviricetes
Unclassified
O

O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__Borkfalkiaceae;g__QALS01

SHHC

S10_vs_120489

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-138;g__SFEL01

ME

S3_vs_73361

n.a.

n.a.

n.a.

n.a.

SHHC

S8_vs_176604

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-138;g__UBA1685

SHHC

S8_vf_93976

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-138;g__UBA5394

SHHC

S16_vs_4662

Caudoviricetes

Unclassified

Unclassified

Unclassified

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Alectryocaccommicrobium

ME

S5_vs_10428

Caudoviricetes

Unclassified

O

O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Firm-11

ME

S7_vs_129858

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Limiplasma

ME

S5_vs_4737

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__SFTH01

ME

S5_vs_145605

Caudoviricetes

Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__UBA11524
ME
S1_vf_158961
Caudoviricetes
Unclassified
O
O
S7_vs_30665
n.a.
n.a.
n.a.
n.a.
n.a.
Shared
S12_vs_94042
n.a.
n.a.
n.a.
n.a.
S3_vs_90341
n.a.
n.a.
n.a.
n.a.
n.a.
S8_vf_65522
n.a.
n.a.
n.a.
n.a.
SHHC
S12_vs_48045
Caudoviricetes
Unclassified
Unclassified
Unclassified
S16_vs_15093
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Ventricola
SHHC
S4_vf_31979
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-917;g__CAG-475
SHHC
S12_vs_32669
n.a.
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__Christensenellaceae;g__Christensenella
ME
S5_vs_145581
n.a.

n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_NSI-53;g_NSI-53

ME

S5_vs_145597
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_QAND01;g_UMGS1975

ME

S5_vs_46394
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium

ME

S11_vs_41107
Caudoviricetes
Unclassified
O
O
S14_vf_56130
Caudoviricetes
Unclassified
O
O
S14_vf_85122
Caudoviricetes
Unclassified
Unclassified
O
S14_vs_632
Caudoviricetes
Unclassified
O
O
S3_vf_100440
Caudoviricetes
Unclassified
O
O
S3_vs_98675
Caudoviricetes
Unclassified
O
O
S5_vf_145583
Caudoviricetes
Unclassified
Unclassified
O
S5_vs_137154
Caudoviricetes
Unclassified
O
O
S9_vs_90851

Caudoviricetes
Unclassified
O
O

Shared
S16_vf_36146
Caudoviricetes
Unclassified
O
O

SHHC
S10_vf_62230
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium_J

ME
S5_vf_6506
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Eubacteriales;f__Eubacteriaceae;g__Eubacterium

ME
S11_vs_81775
Caudoviricetes
Unclassified
Unclassified
Unclassified
S14_vs_115455
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerotignaceae;g__Anaerotignum

ME
S1_vs_145792
n.a.
n.a.
n.a.
n.a.
S9_vs_90849
n.a.
n.a.
n.a.
n.a.

Shared
S16_vf_84462
n.a.
n.a.
n.a.
n.a.
S5_vf_60597
n.a.
n.a.
n.a.
n.a.
S8_vf_201695
n.a.

n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerotignaceae;g__UMGS1670
ME
S7_vf_72493
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__CAG-274;g__CAG-274
ME
S9_vf_73311
Caudoviricetes
Unclassified
Unclassified
Unclassified
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__
ME
S11_vf_34008
Caudoviricetes
Unclassified
O
O
S11_vs_6878
Caudoviricetes
Unclassified
O
O
S5_vf_105728
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Acetatifactor
SHHC
S16_vs_116956
n.a.
n.a.
n.a.
n.a.
S6_vs_29152
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Agathobacter
ME
S3_vf_67333
Caudoviricetes
Unclassified
O
O
Shared
S14_vs_66841
Caudoviricetes
Unclassified
O
O
S3_vs_127421

Caudoviricetes
Unclassified
O
O
S7_vs_49426
Caudoviricetes
Unclassified
O
O
S8_vf_132697
Caudoviricetes
Unclassified
O
O
S8_vs_173961
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutyricum

ME
S5_vs_145602
Caudoviricetes
Unclassified
O
O
S7_vf_114476
Caudoviricetes
Unclassified
O
O
S7_vs_137611
Caudoviricetes
Unclassified
O
O
S7_vs_138109
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes

ME
S14_vs_39797
Caudoviricetes
Unclassified
O
O
S5_vf_116300
n.a.
n.a.
n.a.
n.a.
S5_vs_139401
n.a.
n.a.
n.a.
n.a.
S5_vs_141621
Caudoviricetes

Unclassified
O
O
S7_vf_49485
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Bariatricus

ME
S11_vf_10907
Caudoviricetes
Unclassified
O
O
S7_vs_86377
Caudoviricetes
Unclassified
O
O
Shared
S9_vs_1966
Caudoviricetes
Unclassified
O
O
SHHC
S12_vs_98175
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia

ME
S14_vs_115377
Caudoviricetes
Unclassified
O
O
S5_vs_95307
Caudoviricetes
Unclassified
Unclassified
O
O
Shared
S14_vs_96286
Caudoviricetes
Unclassified
O
O
S6_vs_54606
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Blautia_A

ME
S11_vf_28645
n.a.
n.a.

n.a.
n.a.
S11_vs_34137
Caudoviricetes
Unclassified
O
O
S11_vs_82368
Caudoviricetes
Unclassified
O
O
S13_vs_121307
n.a.
n.a.
n.a.
n.a.
S3_vf_8058
Caudoviricetes
Unclassified
Unclassified
Eponavirus
S5_vs_68254
Caudoviricetes
Unclassified
O
O
S7_vs_101751
n.a.
n.a.
n.a.
n.a.
S7_vs_135679
n.a.
n.a.
n.a.
n.a.
n.a.
S7_vs_48708
Caudoviricetes
Unclassified
O
O
S9_vs_90859
n.a.
Unclassified
O
O
Shared
S10_vf_80712
n.a.
n.a.
n.a.
n.a.
S11_vf_28515
Caudoviricetes
Unclassified
O
O
S16_vf_96483
n.a.

n.a.
n.a.
n.a.
S17_vf_46388
Caudoviricetes
Unclassified
O
O
S3_vf_11428
Caudoviricetes
Unclassified
O
O
S4_vf_13353
Caudoviricetes
Unclassified
O
O
S5_vf_145604
Caudoviricetes
Unclassified
O
O
S5_vs_97574
Caudoviricetes
Unclassified
O
O
S7_vs_137998
n.a.
n.a.
n.a.
n.a.
SHHC
S4_vs_VIRSorter_12831-circular-cat_2
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__CAG-127
ME
S9_vs_75050
Caudoviricetes
Unclassified
O
O
SHHC
S16_vs_101072
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__CAG-317
Shared
S16_vs_140709
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Clostridium_AP

ME

S5_vs_145590

Caudoviricetes

Unclassified

O

O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Coprococcus

Shared

S14_vf_92240

Caudoviricetes

Unclassified

O

O

SHHC

S16_vs_173079

Caudoviricetes

Unclassified

O

O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea

ME

S9_vs_32588

Caudoviricetes

Unclassified

O

O

Shared

S12_vs_163990

Caudoviricetes

Unclassified

O

O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea_A

ME

S11_vs_83666

Caudoviricetes

Unclassified

O

O

S14_vs_117153

Caudoviricetes

Unclassified

O

O

S5_vs_84946

Caudoviricetes

Unclassified

O

O

S7_vs_13799

Caudoviricetes

Unclassified

O

O

S9_vs_58086

Caudoviricetes

Unclassified

O

O

Shared

S5_vf_145588
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eisenbergiella

ME
S9_vs_88286
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster

ME
S11_vs_38860
n.a.
n.a.
n.a.
n.a.

S11_vs_67573
n.a.
n.a.
n.a.
n.a.

S14_vs_100227
Caudoviricetes
Unclassified
O
O

S14_vs_30108
n.a.
n.a.
n.a.
n.a.

S5_vs_145578
Caudoviricetes
Unclassified
O
O

S9_vs_41371
Caudoviricetes
Unclassified
O
O

S9_vs_4343
n.a.
n.a.
n.a.
n.a.

S9_vs_55738
Caudoviricetes
Unclassified
O
O

Shared
S5_vf_145585
Caudoviricetes
Unclassified
Unclassified
Unclassified

S6_vs_39025
Caudoviricetes
Unclassified
O
O

S7_vs_65719
Caudoviricetes
Unclassified
O
O

S9_vs_90848
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eubacterium_F

ME

S7_vs_60775
Caudoviricetes
Unclassified
O
O

Shared
S14_vf_99344
n.a.
n.a.
n.a.
n.a.

SHHC
S8_vf_131009
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eubacterium_G

ME

S5_vs_8125
Caudoviricetes
Unclassified
O
O

S7_vs_30640
Caudoviricetes
Unclassified
O
O

SHHC
S16_vs_118029
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eubacterium_I

ME

S11_vs_104042
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Faecalimonas

ME

S5_vs_59798

Caudoviricetes

Unclassified

O

O

S7_vf_68546

Caudoviricetes

Unclassified

O

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Frisingicoccus

ME

S5_vs_58766

Caudoviricetes

Unclassified

O

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungatella

ME

S5_vs_17520

n.a.

n.a.

n.a.

n.a.

S9_vs_48240

Caudoviricetes

Unclassified

Unclassified

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira

ME

S14_vf_117150

Caudoviricetes

Unclassified

O

O

S3_vf_108959

n.a.

n.a.

n.a.

n.a.

S3_vf_127405

Caudoviricetes

Unclassified

O

O

S3_vs_127401

Caudoviricetes

Unclassified

O

O

Shared

S5_vs_120584

Caudoviricetes

Unclassified

O

O

SHHC

S12_vs_26847

n.a.
n.a.
n.a.
n.a.
S12_vs_99092
Caudoviricetes
Unclassified
O
O
S15_vf_2513
n.a.
n.a.
n.a.
n.a.
S16_vf_1037
n.a.
n.a.
n.a.
n.a.
S16_vf_5809
n.a.
n.a.
n.a.
n.a.
S4_vf_31978
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Marvinbryantia
Shared
S6_vs_56496
Caudoviricetes
Unclassified
Unclassified
Eponavirus

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Massilistercora
Shared
S8_vs_5211
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Mediterraneibacter
ME
S5_vs_28263
n.a.
n.a.
n.a.
n.a.
S7_vs_138116
n.a.
n.a.
n.a.
n.a.
n.a.
Shared
S11_vs_68151
Caudoviricetes
Unclassified
O

O
S4_vs_VIRSorter_3006-cat_1
Caudoviricetes
Unclassified

O
O
S7_vs_41098
Caudoviricetes
Unclassified
O
O

SHHC
S4_vs_VIRSorter_19324-cat_2
Caudoviricetes
Unclassified
O
O

S4_vs_VIRSorter_31916-circular-cat_1
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricomes

ME
S14_vf_93134
Caudoviricetes
Salasmaviridae
O
O

S14_vs_56251
Caudoviricetes
Unclassified
O
O

S14_vs_59347
Caudoviricetes
Unclassified
O
O

S17_vf_36452
Caudoviricetes
Salasmaviridae
O
O

S5_vs_80498
Caudoviricetes
Unclassified
O
O

Shared
S2_vf_17850
Caudoviricetes
Salasmaviridae
O
O

S6_vs_56498
Caudoviricetes
Unclassified
O
O

SHHC

S12_vf_61299
Caudoviricetes
Salasmaviridae
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__OF09-33XD

SHHC

S12_vf_176437
Caudoviricetes
Salasmaviridae
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Roseburia

ME

S14_vf_58919
Caudoviricetes
Unclassified
Unclassified
Mushuvirus

S5_vs_120079
Caudoviricetes
Unclassified
Unclassified
Unclassified

S5_vs_122344
Caudoviricetes
Unclassified
Unclassified
O

S5_vs_145598
Caudoviricetes
Unclassified
O
O

Shared

S3_vs_16825
Caudoviricetes
Unclassified
O
O

S4_vs_VIRSorter_4746-cat_2
Caudoviricetes
Salasmaviridae
O
O

S6_vs_12945
Caudoviricetes
Unclassified
O
O

S8_vs_206526
Caudoviricetes
Unclassified
Unclassified
Unclassified

d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__RUG115

ME

S7_vs_38834
Caudoviricetes

Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Ruminococcus_B
ME
S14_vs_26320
Caudoviricetes
Unclassified
O
O
S7_vf_60968
Caudoviricetes
Unclassified
O
O
S9_vs_44331
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Sellimonas
ME
S9_vs_34898
Caudoviricetes
Unclassified
O
O
S9_vs_62803
Caudoviricetes
Unclassified
O
O
Shared
S6_vs_56491
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__UBA9502
SHHC
S10_vf_46328
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Ventrimonas
ME
S11_vs_26767
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Monoglobales;f__Monoglobaceae;g__Monoglobus
Shared
S3_vf_101611
Caudoviricetes
Unclassified
O
O
SHHC

S16_vs_38863
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Acutalibacter

ME
S3_vs_114271
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_An172

ME
S11_vs_48109
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-180

ME
S11_vf_104052
Caudoviricetes
Unclassified
O
O
S7_vs_47050
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-217

ME
S3_vs_122706
Caudoviricetes
Unclassified
O
O
S3_vs_18858
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Eubacterium_R

SHHC
S16_vs_120149
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Fimivicius

ME
S14_vs_88666
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Hydrogeniclostridium

ME
S7_vs_28733

Caudoviricetes
Unclassified
O
O
S7_vs_38113
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__Pseudomonococcus

Shared
S10_vs_77004
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__Ruminococcus_E

ME
S13_vf_28309
Caudoviricetes
Salasmaviridae
O
O
S14_vs_39266
Caudoviricetes
Unclassified
Unclassified
O
S3_vs_49835
n.a.
n.a.
n.a.
n.a.
S5_vs_20268
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5_vs_40848
Caudoviricetes
Unclassified
O
O
S7_vs_72737
n.a.
n.a.
n.a.
n.a.

Shared
S14_vs_66139
Caudoviricetes
Unclassified
O
O
S16_vs_82116
Caudoviricetes
Unclassified
Unclassified
O
S4_vf_11308

Caudoviricetes
Unclassified
Unclassified
O
S7_vs_16344
Caudoviricetes
Unclassified
O
O
S8_vs_115958
Caudoviricetes
Unclassified
Unclassified
O
S9_vs_90727
Caudoviricetes
Unclassified
Unclassified
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__UBA1417
ME
S14_vs_61530
n.a.
n.a.
n.a.
n.a.
Shared
S12_vs_79666
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__UBA1691
ME
S5_vs_3501
Caudoviricetes
Unclassified
O
O
S7_vs_129271
n.a.
n.a.
n.a.
n.a.
SHHC
S10_vs_36407
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__UBA737
ME
S3_vs_95574
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Acetivibacteraceae;g__UMGS1071
ME
S9_vs_26179

n.a.
n.a.
n.a.
n.a.

Shared
S6_vs_56490
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1591

ME
S9_vs_90860
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS263

ME
S11_vs_3006
Caudoviricetes
Unclassified
Unclassified
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS856

ME
S5_vs_140946
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricoccaceae;g_Agathobaculum

ME
S14_vs_112068
n.a.
n.a.
n.a.
n.a.
S5_vs_43207
Caudoviricetes
Unclassified
O
O
S5_vs_84574
n.a.
n.a.
n.a.
n.a.
S7_vs_103530
n.a.
n.a.
n.a.
n.a.
S9_vs_19689
n.a.
n.a.
n.a.
n.a.

Shared
S6_vs_56492

n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__CAG-272;g__CAG-272

ME
S3_vf_127392
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__CAG-272;g__QALR01

SHHC
S12_vs_188820
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__

ME
S13_vs_148294
Caudoviricetes
Unclassified
O
O

Shared
S3_vs_54303
Caudoviricetes
Unclassified
Unclassified
Eponavirus
S7_vs_4956
Caudoviricetes
Unclassified
Unclassified
Eponavirus

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__An92

ME
S9_vs_14235
n.a.
n.a.
n.a.
n.a.

S9_vs_84046
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__CAG-103

ME
S5_vs_77593
Caudoviricetes
Unclassified
O
O
S7_vs_5236
Caudoviricetes
Unclassified
O
O

Shared
S7_vf_76463
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__CAG-110

ME
S5_vs_107105
Caudoviricetes
Unclassified
O
O

SHHC
S10_vs_120541
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__CAG-170

ME
S1_vf_136526
Caudoviricetes
Unclassified
Unclassified
O
S1_vs_117317
Caudoviricetes
Unclassified
Unclassified
O

Shared
S1_vf_6272
Caudoviricetes
Unclassified
Unclassified
O

S12_vf_173208
n.a.
n.a.
n.a.
n.a.

S3_vf_82571
Caudoviricetes
Unclassified
O
O

SHHC
S8_vs_51368
n.a.
n.a.
n.a.
n.a.
S8_vs_54183
Caudoviricetes
Unclassified
Unclassified
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__CAG-83

ME

S11_vf_33117

n.a.

n.a.

n.a.

n.a.

S11_vf_99751

n.a.

n.a.

n.a.

n.a.

S13_vf_109235

n.a.

n.a.

n.a.

n.a.

S13_vs_13129

Caudoviricetes

Unclassified

O

O

S14_vs_97835

n.a.

n.a.

n.a.

n.a.

S5_vs_74199

n.a.

n.a.

n.a.

n.a.

Shared

S12_vs_164056

n.a.

n.a.

n.a.

n.a.

S13_vs_35816

Caudoviricetes

Unclassified

Unclassified

Lagaffevirus

S8_vf_170878

Caudoviricetes

Unclassified

Unclassified

Toutatisvirus

S8_vs_125717

n.a.

n.a.

n.a.

n.a.

S9_vf_64844

Caudoviricetes

Unclassified

Unclassified

Lagaffevirus

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Dysosmobacter

ME

S11_vs_52577

Caudoviricetes

Unclassified
Unclassified
Mushuvirus

S7_vs_28150
n.a.
n.a.
n.a.
n.a.

S9_vs_69322
n.a.
n.a.
n.a.
n.a.

Shared
S10_vf_120738
n.a.
n.a.
n.a.
n.a.
S17_vs_127519
n.a.
n.a.
n.a.
n.a.

SHHC
S8_vs_50431
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Enterenecus

ME
S5_vs_117417
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4

ME
S1_vf_22149
n.a.
n.a.
n.a.
n.a.
S1_vs_143929
n.a.
n.a.
n.a.
n.a.
S13_vf_150407
Faserviricetes
Inoviridae
Unclassified
Inovirus
S3_vs_127411
n.a.
n.a.
n.a.
n.a.

Shared

S1_vs_155183
Caudoviricetes
Unclassified
Unclassified
O

S11_vf_104034
Caudoviricetes
Unclassified
Unclassified
O

S12_vf_18902
Caudoviricetes
Unclassified
O
O

S16_vf_6102
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus

S16_vf_97279
Caudoviricetes
Unclassified
Unclassified
Eponavirus

S17_vs_103009
n.a.
n.a.
n.a.
n.a.

S3_vf_127400
Caudoviricetes
Unclassified
Unclassified
O

S4_vs_VIRSorter_4959-cat_2
Caudoviricetes
Unclassified
O
O

S5_vf_136076
n.a.
n.a.
n.a.
n.a.

SHHC
S16_vs_78429
Caudoviricetes
Unclassified
Unclassified
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Evtepia

Shared
S14_vs_117166
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Flavonifractor

ME

S11_vf_95067
n.a.
n.a.
n.a.
S13_vf_147589
n.a.
n.a.
n.a.
n.a.
S14_vf_115736
Caudoviricetes
Unclassified
Unclassified
O
S14_vs_3251
n.a.
n.a.
n.a.
n.a.
S14_vs_56410
Caudoviricetes
Unclassified
O
O
S5_vs_21778
n.a.
n.a.
n.a.
n.a.
S5_vs_65490
n.a.
n.a.
n.a.
n.a.
S5_vs_69980
Caudoviricetes
Unclassified
O
O
S7_vs_83100
Caudoviricetes
Unclassified
O
O
S7_vs_83474
Caudoviricetes
Unclassified
Unclassified
O
S7_vs_94738
Caudoviricetes
Unclassified
Unclassified
O
S9_vs_4558
Caudoviricetes
Unclassified
O
O

S9_vs_50439
n.a.
n.a.
n.a.
n.a.

Shared
S4_vs_VIRSorter_15837-cat_2
Caudoviricetes
Unclassified
O
O

S4_vs_VIRSorter_31196-circular-cat_2
n.a.
n.a.
n.a.
n.a.

S4_vs_VIRSorter_31560-circular-cat_2
Caudoviricetes
Unclassified
O
O

S5_vf_21869
Caudoviricetes
Unclassified
Unclassified
O

S6_vs_15813
n.a.
n.a.
n.a.
n.a.

S8_vf_111790
Caudoviricetes
Unclassified
O
O

S8_vf_166403
n.a.
n.a.
n.a.
n.a.

SHHC
S16_vf_173099
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas

ME
S7_vs_118295
n.a.
n.a.
n.a.
n.a.

S7_vs_69630
Caudoviricetes
Unclassified
O
O
S9_vs_5676

Caudoviricetes
Unclassified
O
O
Shared
S12_vs_92868
Caudoviricetes
Unclassified
O
O
S14_vf_109545
n.a.
n.a.
n.a.
n.a.
S4_vs_VIRSorter_30222-cat_2
Caudoviricetes
Unclassified
O
O
S5_vs_124035
n.a.
n.a.
n.a.
n.a.
S7_vs_78507
n.a.
n.a.
n.a.
n.a.
S8_vf_208110
Caudoviricetes
Unclassified
O
O
S8_vf_55476
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Lawsonibacter

ME
S11_vs_19892
Caudoviricetes
Unclassified
Unclassified
Eponavirus
S14_vs_67094
n.a.
n.a.
n.a.
n.a.
S14_vs_9676
Caudoviricetes
Unclassified
O
O
S17_vf_97671
Caudoviricetes
Unclassified

Unclassified
Mushuvirus
S7_vf_138019
n.a.
n.a.
n.a.
n.a.
Shared
S5_vf_103206
n.a.
n.a.
n.a.
n.a.
S8_vs_134805
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBA5446
Shared
S16_vs_75108
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBA9475
SHHC
S8_vs_145173
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UMGS1766
Shared
S16_vs_20060
Caudoviricetes
Unclassified
Unclassified
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Anaerotruncus
ME
S5_vs_118168
n.a.
n.a.
n.a.
n.a.
S5_vs_130958
Caudoviricetes
Unclassified
O
O
S5_vs_32885
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__CAG-353
Shared
S12_vs_133070
Caudoviricetes

Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__D5

Shared
S3_vf_80287
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium

ME
S1_vs_23682
Caudoviricetes
Unclassified
O
O
S11_vs_11994
Caudoviricetes
Unclassified
O
O
S13_vf_54201
Caudoviricetes
Unclassified
O
O
S14_vs_90934
n.a.
n.a.
n.a.
S17_vs_110666
Caudoviricetes
Unclassified
O
O
S3_vs_42569
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus
S3_vs_68031
Caudoviricetes
Unclassified
O
O
S5_vs_117319
Caudoviricetes
Unclassified
Unclassified
O
S5_vs_124677
Caudoviricetes
Unclassified
Unclassified
O
S5_vs_30490
n.a.
n.a.

n.a.
n.a.
S7_vf_84974
Caudoviricetes
Unclassified
O
O
S7_vs_87279
Caudoviricetes
Unclassified
Unclassified
O
S7_vs_97737
n.a.
n.a.
n.a.
n.a.
Shared
S12_vs_87088
Caudoviricetes
Unclassified
O
O
S16_vf_108554
n.a.
n.a.
n.a.
n.a.
S16_vs_132979
Caudoviricetes
Unclassified
O
O
S16_vs_173141
n.a.
n.a.
n.a.
n.a.
S3_vf_127409
Caudoviricetes
Unclassified
O
O
S3_vf_99734
Caudoviricetes
Unclassified
Unclassified
Lagaffevirus
S3_vs_87728
n.a.
n.a.
n.a.
n.a.
S3_vs_90331
Caudoviricetes
Unclassified
Unclassified
O
S4_vs_VIRSorter_27316-cat_2
Caudoviricetes

Unclassified
O
O
S5_vf_134040
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S5_vs_130294
n.a.
n.a.
n.a.
n.a.
S6_vs_1146
Caudoviricetes
Unclassified
O
O
S6_vs_34453
Caudoviricetes
Unclassified
Unclassified
O
S7_vf_39724
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S7_vs_13370
n.a.
n.a.
n.a.
n.a.
S7_vs_135322
Caudoviricetes
Unclassified
Unclassified
O
S7_vs_26757
n.a.
n.a.
n.a.
n.a.
SHHC
S10_vf_24791
Caudoviricetes
Unclassified
Unclassified
Eponavirus
S10_vs_46819
Caudoviricetes
Unclassified
O
O
S12_vs_81729
Caudoviricetes
Unclassified
O
O
S16_vs_18440

Caudoviricetes
Unclassified
Unclassified
Toutatisvirus

S6_vs_53966

Caudoviricetes
Unclassified
O

O

S8_vf_101283

Caudoviricetes
Unclassified
Unclassified
Toutatisvirus

S8_vf_187742

Caudoviricetes
Unclassified
O

O

S8_vf_208119

Malgrandaviricetes
Microviridae
Gokushovirinae
Gokushovirus

S8_vs_179529

Caudoviricetes
Unclassified
Unclassified
O

S8_vs_63277

Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Gemmiger

ME

S1_vf_28398

n.a.
n.a.
n.a.
n.a.

S1_vs_133577

Caudoviricetes
Unclassified
O
O

S14_vf_117147

Caudoviricetes
Unclassified
O
O

S3_vs_119771

Caudoviricetes
Unclassified
O
O

S3_vs_127391

n.a.
n.a.
n.a.

n.a.
S3_vs_15450
Caudoviricetes
Unclassified
O
O
S7_vs_111831
Caudoviricetes
Unclassified
O
O
Shared
S4_vs_VIRSorter_31976-circular-cat_2
n.a.
n.a.
n.a.
n.a.
S7_vs_42563
n.a.
n.a.
n.a.
n.a.

SHHC
S16_vs_76823
n.a.
n.a.
n.a.
n.a.
S8_vf_151384
Caudoviricetes
Unclassified
Unclassified
Eponavirus
S8_vf_208126
Caudoviricetes
Unclassified
O
O
S8_vs_102608
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massilimalliae

ME
S14_vs_73301
Caudoviricetes
Unclassified
O
O

Shared
S16_vs_17493
n.a.
n.a.
n.a.
n.a.

SHHC
S4_vs_VIRSorter_4839-cat_2
Caudoviricetes
Unclassified

O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massilloclostridium

ME

S11_vs_13652
Caudoviricetes
Unclassified
Unclassified
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Negativibacillus

ME

S5_vs_128398
Caudoviricetes
Unclassified
O
O
S9_vs_48347
Caudoviricetes
Unclassified
Unclassified
O

Shared

S11_vs_104064
Caudoviricetes
Unclassified
O
O
S6_vs_46091
Caudoviricetes
Unclassified
Unclassified
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Phoceae

ME

S5_vs_145611
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__QAMM01

ME

S14_vs_101482
n.a.
n.a.
n.a.
n.a.

SHHC

S4_vs_VIRSorter_31171-circular-cat_2
Caudoviricetes
Unclassified
O
O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminiclostridium_E

Shared

S7_vs_21521
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_C

ME
S3_vs_29077
Caudoviricetes
Unclassified
O
O
SHHC
S4_vs_VIRSorter_31972-circular-cat_2
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D

ME
S14_vf_51134
Caudoviricetes
Unclassified
O
O
S3_vf_8164
Caudoviricetes
Unclassified
O
O
S7_vf_71527
n.a.
n.a.
n.a.
n.a.
S7_vf_8332
Caudoviricetes
Unclassified
O
O
Shared
S10_vs_120570
n.a.
n.a.
n.a.
n.a.
S16_vs_34021
n.a.
n.a.
n.a.
n.a.
S17_vf_174033
Caudoviricetes
Unclassified
O
O
S3_vf_111893
Caudoviricetes
Unclassified
O
O
S7_vf_13614
Caudoviricetes
Unclassified
O
O

SHHC

S12_vf_181024

Caudoviricetes
Unclassified
O

O

S16_vs_107235

n.a.
n.a.
n.a.
n.a.

S16_vs_48714

n.a.
n.a.
n.a.
n.a.

S8_vf_161703

Caudoviricetes
Unclassified
O

O

d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium

ME

S14_vs_14737

Caudoviricetes
Unclassified
O

O

S14_vs_38905

n.a.
n.a.
n.a.
n.a.

S3_vs_25896

n.a.
n.a.
n.a.
n.a.

S5_vs_121411

n.a.
n.a.
n.a.
n.a.

S5_vs_13254

n.a.
n.a.
n.a.
n.a.

S9_vs_66877

Caudoviricetes
Unclassified
O

O

Shared

S11_vs_76784

Caudoviricetes
Unclassified
O

O

S16_vf_169895

Caudoviricetes
Salasmaviridae
O
O
S5_vs_85065
Caudoviricetes
Unclassified
O
O
SHHC
S16_vs_103726
n.a.
n.a.
n.a.
n.a.
S16_vs_81805
Caudoviricetes
Unclassified
O
O
S6_vs_33711
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__UBA3818
SHHC
S6_vs_38250
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__UMGS1783;g__UMGS1783
ME
S7_vs_134391
n.a.
n.a.
n.a.
n.a.
SHHC
S12_vs_188828
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Peptostreptococcales;f__Anaerovoracaceae;g__CAG-145
Shared
S10_vs_2538
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Peptostreptococcales;f__Peptostreptococcaceae;g__GCA-900066495
Shared
S3_vf_56363
Caudoviricetes
Unclassified
O
O
SHHC

S4_vs_VIRSorter_15112-cat_2

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Clostridia;o__TANB77;f__CAG-508;g__CAG-269

SHHC

S12_vs_6836

Caudoviricetes

Unclassified

O

O

S16_vf_90328

Caudoviricetes

Unclassified

O

O

d_Bacteria;p__Firmicutes;c__Clostridia;o__TANB77;f__CAG-508;g__CAG-354

SHHC

S8_vf_13709

Caudoviricetes

Unclassified

O

O

S8_vf_13758

Caudoviricetes

Unclassified

O

O

d_Bacteria;p__Firmicutes;c__Clostridia;o__UBA1212;f__UBA1255;g__Egerieisoma

ME

S5_vs_850

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p__Firmicutes;c__Negativicutes;o__Acidaminococcales;f__Acidaminococcaceae;g__Phascolarctobacterium

SHHC

S8_vf_208146

Malgrandaviricetes

Microviridae

Gokushovirinae

Unclassified

d_Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Dialisteraceae;g__Dialister

ME

S7_vs_134784

Caudoviricetes

Unclassified

O

O

S9_vs_67792

Caudoviricetes

Unclassified

O

O

d_Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Megasphaeraceae;g__Caecibacter

SHHC

S8_vs_147670

Caudoviricetes

Unclassified

O
O

d_Bacteria;p_Firmicutes;c_Negativicutes;o_Veillonellales;f_Veillonellaceae;g_Veillonella

ME
S5_vf_8808
Caudoviricetes
Unclassified

O
O

d_Bacteria;p_Patescibacteria;c_Paceibacteria;o_UBA9983_A;f_UBA1006;g_01-FULL-36-10b

Shared
S4_vf_31973
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_51-20

ME
S11_vs_84627
n.a.
n.a.
n.a.
n.a.

Shared
S13_vs_45488
Caudoviricetes
Unclassified

O
O

S6_vs_44070
n.a.
Unclassified
O
O

d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267

Shared
S11_vs_6458
n.a.
n.a.
n.a.
S13_vs_9438
n.a.
n.a.
n.a.
S5_vs_9747
n.a.
n.a.
n.a.
S6_vs_39065
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-495

ME
S17_vs_8690
n.a.

n.a.
n.a.
n.a.
SHHC
S12_vs_153780
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Duodenibacillus
SHHC
S4_vs_VIRSorter_31980-circular-cat_2
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Parasutterella
SHHC
S12_vs_93357
Caudoviricetes
Unclassified
O
O
S16_vs_120622
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Sutterella
ME
S14_vs_2870
Caudoviricetes
Unclassified
O
O
S3_vs_51931
Malgrandaviricetes
Microviridae
Gokushovirinae
O
S7_vs_48523
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Escherichia
ME
S5_vf_74661
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5_vs_130032
Caudoviricetes
Unclassified
O
O
Shared
S13_vf_151045
Caudoviricetes

Unclassified
O
O
d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Salmonella
ME
S11_vs_5077
Caudoviricetes
Peduviridae
Unclassified
Quadrangitavirus
d_Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Pasteurellaceae;g__Glaesserella
SHHC
S12_vf_10887
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Spirochaetota;c__Spirochaetia;o__Sphaerochaetales;f__Sphaerochaetaceae;g__UBA9732
Shared
S3_vf_115304
Caudoviricetes
Suoliviridae
Uncouvirinae
Aurodevirus
d_Bacteria;p__Verrucomicrobiota;c__Lentisphaeria;o__Victivallales;f__Victivallaceae;g__Victivallis
ME
S7_vs_87439
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Verrucomicrobiota;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Akkermansiaceae;g__Akkermansia
ME
S13_vf_7670
n.a.
n.a.
n.a.
n.a.
S5_vs_86562
Caudoviricetes
Unclassified
O
O
S7_vs_29595
Caudoviricetes
Unclassified
O
O
Shared
S16_vs_173096
Caudoviricetes
Unclassified
Unclassified
Unclassified
S6_vf_25710
n.a.
n.a.
n.a.
n.a.
SHHC

S12_vs_86928
Caudoviricetes
Unclassified
O
O

Table S9-6. WMS_Hosts_pivot	Host interactions with:	# Hosts
d__Bacteria;p__Actinobacteriota;r__Actinomycetia;o__Actinomycetales;f__Bifidobacteriaceae;g__Bifidobacterium	ME-viruses-only	22
ME	SHHC-viruses-only	23
	Shared/communal viruses	61
S17-wms-combined_186314		
Caudoviricetes		
Unclassified		
O		
O		
S1-wms-combined_307323		
Caudoviricetes		
Unclassified		
O		
O		
S1-wms-combined_331544		
n.a.		
n.a.		
n.a.		
S1-wms-combined_85225		
Caudoviricetes		
Unclassified		
O		
O		
S3-wms_94494		
Caudoviricetes		
Unclassified		
O		
O		
S3-wms-combined_135428		
Caudoviricetes		
Unclassified		
O		
O		
S7-wms_157264		
n.a.		
Unclassified		
Unclassified		
Unclassified		
S7-wms-combined_136642		
n.a.		
n.a.		
n.a.		
S7-wms-combined_143218		
n.a.		
n.a.		
n.a.		
S7-wms-combined_147158		
Caudoviricetes		
Unclassified		
O		
O		
S7-wms-combined_167867		
n.a.		
n.a.		
n.a.		
n.a.		
Shared		
S4-wms-combined_17284		
Caudoviricetes		
Unclassified		
Unclassified		
Unclassified		
S4-wms-combined_51079		
n.a.		
n.a.		
n.a.		
n.a.		
S5-wms-combined_117213		
Caudoviricetes		
Unclassified		
O		
O		
S5-wms-combined_39793		

n.a.
n.a.
n.a.
S7-wms-combined_174935
Caudoviricetes
Unclassified
O
O
S9-wms-combined_76274
Caudoviricetes
Unclassified
O
O
SHHC
S4-wms_161443
n.a.
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella
ME
S5-wms_94965
Caudoviricetes
Unclassified
Unclassified
Unclassified
Shared
S7-wms-combined_189250
Caudoviricetes
Unclassified
Unclassified
Unclassified
S7-wms-combined_190281
n.a.
n.a.
n.a.
n.a.
SHHC
S4-wms-combined_22012
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__Adlercreutzia
SHHC
S12-wms_184276
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__CAG-1427
SHHC
S4-wms_107182
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Actinobacteriota;c__Coriobacteriia;o__Coriobacteriales;f__Eggerthellaceae;g__Eggerthella
ME
S17-wms-combined_225356
n.a.
n.a.
n.a.
n.a.
S5-wms_62679
Caudoviricetes
Unclassified
O
O
SHHC
S2-wms_79304
Caudoviricetes
Unclassified
Unclassified
Dybvigvirus

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides

ME

S11-wms_320555

Caudoviricetes

Unclassified

O

O

S11-wms-combined_195425

Caudoviricetes

Unclassified

Unclassified

Unclassified

S11-wms-combined_41367

n.a.

n.a.

n.a.

n.a.

S17-wms_124308

Caudoviricetes

Unclassified

O

O

S17-wms-combined_158354

n.a.

n.a.

n.a.

n.a.

S17-wms-combined_16309

Caudoviricetes

Unclassified

O

O

S1-wms_208875

Caudoviricetes

Unclassified

O

O

S1-wms-combined_330329

Caudoviricetes

Unclassified

O

O

S7-wms_244866

Caudoviricetes

Unclassified

Unclassified

Unclassified

S7-wms-combined_135154

n.a.

n.a.

n.a.

n.a.

S7-wms-combined_3669

Malgrandaviricetes

Microviridae

O

O

S7-wms-combined_90393

Caudoviricetes

Unclassified

O

O

S7-wms-combined_90728

Caudoviricetes

Unclassified

O

O

S9-wms-combined_33229

Caudoviricetes

Unclassified

O

O

Shared

S11-wms-combined_217790

n.a.

n.a.

n.a.
n.a.
S11-wms-combined_321938
Caudoviricetes
Unclassified
O
O
S11-wms-combined_73204
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_111524
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_190114
Caudoviricetes
Unclassified
O
O
S12-wms-combined_201125
Caudoviricetes
Unclassified
O
O
S12-wms-combined_250551
Caudoviricetes
Unclassified
Unclassified
Unclassified
S12-wms-combined_297545
Caudoviricetes
Unclassified
O
O
S12-wms-combined_320727
Caudoviricetes
Unclassified
O
O
S12-wms-combined_368190
Caudoviricetes
Unclassified
O
O
S12-wms-combined_368562
Caudoviricetes
Unclassified
O
O
S17-wms-combined_106940
Caudoviricetes
Unclassified
O
O
S17-wms-combined_146050
n.a.
n.a.
n.a.
n.a.
S17-wms-combined_179771
n.a.
n.a.
n.a.
n.a.
S17-wms-combined_233761
n.a.
n.a.
n.a.
n.a.
S17-wms-combined_70983
n.a.
n.a.
n.a.

n.a.
S1-wms_244836
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_248622
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_263562
n.a.
n.a.
n.a.
n.a.
S2-wms_156439
Caudoviricetes
Unclassified
O
O
S2-wms-combined_143737
Caudoviricetes
Duneviridae
O
O
S2-wms-combined_147065
Caudoviricetes
Unclassified
O
O
S2-wms-combined_210822
n.a.
n.a.
n.a.
n.a.
S2-wms-combined_229529
Caudoviricetes
Unclassified
O
O
S2-wms-combined_58121
n.a.
n.a.
n.a.
n.a.
S3-wms-combined_73262
Caudoviricetes
Unclassified
Unclassified
Unclassified
S4-wms-combined_83492
Caudoviricetes
Unclassified
O
O
S5-wms_85650
n.a.
n.a.
n.a.
n.a.
S5-wms-combined_207291
n.a.
n.a.
n.a.
n.a.
S5-wms-combined_59064
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5-wms-combined_83370
Caudoviricetes
Unclassified
O
O

S5-wms-combined_98202

n.a.
n.a.
n.a.
n.a.

S6-wms-combined_135223

n.a.
n.a.
n.a.
n.a.

S6-wms-combined_82597

n.a.
n.a.
n.a.
n.a.

S7-wms-combined_104872

n.a.
n.a.
n.a.
n.a.

S7-wms-combined_107679_1

Caudoviricetes
Unclassified
O
O

S7-wms-combined_185016

Caudoviricetes
Unclassified
O
O

S7-wms-combined_239784

n.a.
n.a.
n.a.
n.a.

S7-wms-combined_43950

Caudoviricetes
Unclassified
Unclassified
Unclassified

S7-wms-combined_5625

Caudoviricetes
Unclassified
Unclassified
Unclassified

S7-wms-combined_62119

Caudoviricetes
Unclassified
Unclassified
O

S7-wms-combined_72070

n.a.
n.a.
n.a.
n.a.

S8-wms-combined_81597

Caudoviricetes
Unclassified
O
O

S9-wms-combined_33230

Caudoviricetes
Unclassified
O
O

S9-wms-combined_37587

Caudoviricetes
Unclassified
O
O

S9-wms-combined_44402

Caudoviricetes
Unclassified
O
O

SHHC

S12-wms-combined_91231

n.a.
n.a.
n.a.
n.a.

S2-wms_6424

Caudoviricetes
Pachyviridae
O
O

S2-wms-combined_132966

Faserviricetes
Inoviridae
Unclassified
Inovirus

S8-wms-combined_239791

Caudoviricetes
Aggregaviridae
O
O

S8-wms-combined_97848

Caudoviricetes
Unclassified
Unclassified
Unclassified

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides_G

ME

S17-wms_254872

Malgrandaviricetes
Microviridae
Unclassified
Microvirus

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotella

Shared

S2-wms_128962

Caudoviricetes
Suoliviridae
O
O

SHHC

S4-wms_141607

Caudoviricetes
Unclassified
Unclassified
Unclassified

S4-wms_45128

n.a.
n.a.
n.a.
n.a.

S4-wms_50475

Caudoviricetes
Unclassified
O
O

S4-wms-combined_47565

n.a.
n.a.
n.a.
n.a.

S4-wms-combined_57123

n.a.
n.a.
n.a.
n.a.

S6-wms_138342

Caudoviricetes
Suoliviridae
O
O

S8-wms-combined_74275

Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Prevotellamassilia

Shared
S12-wms_12658
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Barnesiellaceae;g__Barnesiella

ME
S1-wms_153615
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_153670
n.a.
n.a.
n.a.
S1-wms-combined_357373
Malgrandaviricetes
Microviridae
Unclassified
Unclassified

Shared
S12-wms-combined_260036
Caudoviricetes
Steigviridae
O
O
S12-wms-combined_351847
n.a.
n.a.
n.a.
n.a.
S9-wms-combined_31456
Caudoviricetes
Unclassified
Unclassified
Unclassified

SHHC
S12-wms-combined_75733
Malgrandaviricetes
Microviridae
O
O
S8-wms_270
Malgrandaviricetes
Microviridae
O
O

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Muribaculaceae;g__UBA7173

SHHC
S12-wms-combined_256299
n.a.
n.a.
n.a.
n.a.

d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes

ME
S11-wms_330479
n.a.
Unclassified
Unclassified
Unclassified
S11-wms-combined_172889
Caudoviricetes
Unclassified
O
O
S17-wms-combined_253499
n.a.
n.a.
n.a.
n.a.
S7-wms-combined_163980
n.a.

n.a.
n.a.
n.a.
S9-wms-combined_28805
Caudoviricetes
Winoviridae
O
O
Shared
S11-wms-combined_125176
Caudoviricetes
Unclassified
O
O
S11-wms-combined_215723
Caudoviricetes
Duneviridae
O
O
S11-wms-combined_226165
Caudoviricetes
Unclassified
O
O
S11-wms-combined_48246
Caudoviricetes
Unclassified
O
O
S11-wms-combined_63818
Caudoviricetes
Unclassified
O
O
S11-wms-combined_64392
Caudoviricetes
Unclassified
O
O
S11-wms-combined_83571
Caudoviricetes
Winoviridae
O
O
S11-wms-combined_92114
n.a.
n.a.
n.a.
n.a.
S12-wms_386692
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_189323
Caudoviricetes
Unclassified
O
O
S12-wms-combined_25459
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_320262
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_328554
Caudoviricetes
Unclassified
O
O
S12-wms-combined_358797
Caudoviricetes

Unclassified
O
O
S17-wms-combined_199746
Caudoviricetes
Unclassified
O
O
S1-wms_394571
Caudoviricetes
Unclassified
O
O
S1-wms-combined_107766
n.a.
n.a.
n.a.
S1-wms-combined_340558
Caudoviricetes
Unclassified
O
O
S2-wms-combined_113619
Caudoviricetes
Unclassified
O
O
S2-wms-combined_208559
n.a.
n.a.
n.a.
S4-wms-combined_41490
Caudoviricetes
Unclassified
O
O
S5-wms-combined_178432
n.a.
n.a.
n.a.
S5-wms-combined_210959
Caudoviricetes
Unclassified
O
O
S5-wms-combined_67650
Caudoviricetes
Unclassified
O
O
S5-wms-combined_90315
Caudoviricetes
Unclassified
O
O
S6-wms-combined_50721
Caudoviricetes
Winoviridae
O
O
S6-wms-combined_72228
n.a.
n.a.
n.a.
n.a.
S6-wms-combined_91039
n.a.
n.a.
n.a.
n.a.
S7-wms-combined_107679_0
Caudoviricetes
Winoviridae

	O
S7-wms-combined_14267	O
n.a.	
n.a.	
n.a.	
S7-wms-combined_26217	
Caudoviricetes	
Unclassified	
O	
O	
S7-wms-combined_3697	
n.a.	
Unclassified	
O	
O	
S8-wms_58515	
n.a.	
n.a.	
n.a.	
n.a.	
S8-wms-combined_26087	
Caudoviricetes	
Unclassified	
O	
O	
S8-wms-combined_270362	
Caudoviricetes	
Unclassified	
O	
O	
S9-wms-combined_5526	
Caudoviricetes	
Unclassified	
O	
O	
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Alistipes_A	
ME	
S5-wms-combined_183113	
n.a.	
n.a.	
n.a.	
n.a.	
S5-wms-combined_204782	
n.a.	
n.a.	
n.a.	
n.a.	
Shared	
S8-wms-combined_23583	
n.a.	
n.a.	
n.a.	
n.a.	
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__Tidjanibacter	
Shared	
S12-wms-combined_2450	
Caudoviricetes	
Winoviridae	
O	
O	
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Marseille-P3160	
SHHC	
S4-wms-combined_14411	
Caudoviricetes	
Unclassified	
Unclassified	
Unclassified	
S6-wms_54578	
Caudoviricetes	
Unclassified	
Unclassified	
Unclassified	
d__Bacteria;p__Bacteroidota;c__Bacteroidia;o__Bacteroidales;f__Tannerellaceae;g__Parabacteroides	
ME	

S17-wms-combined_171305
Caudoviricetes
Unclassified
O
O
S5-wms-combined_94482
n.a.
n.a.
n.a.
n.a.
S7-wms_123954
n.a.
n.a.
n.a.
n.a.
Shared
S1-wms-combined_32863
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_394574
Caudoviricetes
Unclassified
Unclassified
Unclassified
S2-wms-combined_75144
n.a.
n.a.
n.a.
n.a.
SHHC
S4-wms_73990
Caudoviricetes
Suoliviridae
Boorivirinae
Cohcovirus
S4-wms-combined_10758
Caudoviricetes
Unclassified
O
O
S8-wms-combined_180957
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Bacteroidales;f_UBA11471;g_UBA11471
ME
S1-wms-combined_246923
Caudoviricetes
Unclassified
O
O
Shared
S12-wms-combined_371541
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_375343
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Campylobacterota;c_Campylobacteriia;o_Campylobacteriales;f_Campylobacteraceae;g_Campylobacter_D
ME
S5-wms-combined_106597
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Cyanobacteria;c_Vampirotubridia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_QAM01
ME
S5-wms-combined_199135
n.a.

n.a.
n.a.
n.a.
d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Bilophila
ME
S1-wms-combined_143459
Caudoviricetes
Unclassified
O
O
S1-wms-combined_159544
Caudoviricetes
Peduviridae
Unclassified
Phitrevirus
S1-wms-combined_19031
Caudoviricetes
Unclassified
Unclassified
Unclassified
S1-wms-combined_231411
n.a.
n.a.
n.a.
n.a.
Shared
S1-wms-combined_360285
Caudoviricetes
Unclassified
O
O
SHHC
S6-wms-combined_119017
Caudoviricetes
Peduviridae
Unclassified
Phitrevirus
d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Desulfovibrio
ME
S11-wms-combined_268967
Caudoviricetes
Unclassified
Unclassified
Unclassified
S11-wms-combined_84326
Caudoviricetes
Unclassified
O
O
Shared
S11-wms-combined_112733
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium
ME
S7-wms-combined_169375
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ
ME
S5-wms-combined_156329
Caudoviricetes
Unclassified
O
O
S5-wms-combined_197186
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactocaseibacillus
ME

S5-wms_212596

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus

ME

S9-wms_19025

Caudoviricetes

Unclassified

O

O

S9-wms-combined_20485

Caudoviricetes

Unclassified

Unclassified

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_SFEL01

SHHC

S12-wms-combined_147628

Caudoviricetes

Unclassified

O

O

S8-wms-combined_164289

n.a.

n.a.

n.a.

n.a.

S8-wms-combined_264711

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_UBA1685

SHHC

S8-wms_57121

n.a.

n.a.

n.a.

n.a.

S8-wms-combined_146562

Caudoviricetes

Unclassified

O

O

S8-wms-combined_211119

n.a.

n.a.

n.a.

n.a.

S8-wms-combined_219796

Caudoviricetes

Unclassified

Unclassified

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Firm-11

ME

S11-wms-combined_267993

Caudoviricetes

Unclassified

O

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Limiplasma

Shared

S8-wms-combined_185611

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_SFFH01

Shared

S12-wms-combined_299293

n.a.

n.a.

n.a.

n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__UBA11524
Shared
S12-wms-combined_151843
Caudoviricetes
Unclassified
O
O
S12-wms-combined_293354
Caudoviricetes
Unclassified
O
O
S1-wms_223620
Caudoviricetes
Unclassified
O
O
S1-wms-combined_302166
Caudoviricetes
Unclassified
O
O
S7-wms-combined_134452
n.a.
n.a.
n.a.
n.a.
S7-wms-combined_14529
Caudoviricetes
Unclassified
O
O
S8-wms-combined_215102
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-74;g__Ventricola
Shared
S2-wms-combined_25727
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-917;g__
SHHC
S12-wms-combined_117447
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__CAG-917;g__CAG-475
SHHC
S12-wms-combined_164656
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Christensenellales;f__Christensenellaceae;g__Christensenella
ME
S5-wms-combined_66017
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium
Shared
S17-wms-combined_258087
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_58563
Caudoviricetes
Unclassified

Unclassified
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Eubacteriales;f__Eubacteriaceae;g__Eubacterium
ME
S5-wms-combined_83412
Caudoviricetes
Unclassified
Unclassified
Unclassified
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Anaerotignaceae;g__Anaerotignum
ME
S9-wms-combined_3461
n.a.
n.a.
n.a.
n.a.
Shared
S2-wms-combined_116221
Caudoviricetes
Unclassified
O
O
S2-wms-combined_191613
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Acetatifactor
SHHC
S2-wms-combined_126440
Caudoviricetes
Unclassified
O
O
S6-wms-combined_117756
Caudoviricetes
Unclassified
Unclassified
Eponavirus
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Acetivibrio_A
SHHC
S2-wms-combined_31084
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Agathobacter
ME
S7-wms-combined_235165
Caudoviricetes
Unclassified
Unclassified
Unclassified
Shared
S2-wms-combined_5791
Caudoviricetes
Unclassified
O
O
SHHC
S2-wms-combined_207000
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_222535
n.a.
n.a.
n.a.
n.a.
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Anaerobutyricum
ME
S1-wms-combined_212892
Caudoviricetes
Unclassified
O

O
S7-wms_151112
Caudoviricetes
Unclassified
O
O
S7-wms-combined_20921
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerosacchariphilus
SHHC
S2-wms-combined_48661
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerostipes
ME
S9-wms-combined_105462
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Bariatricus
ME
S7-wms-combined_69024
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A
ME
S11-wms-combined_200084
Caudoviricetes
Unclassified
O
O
S7-wms-combined_156351
n.a.
n.a.
n.a.
n.a.
Shared
S2-wms_140933
Caudoviricetes
Unclassified
Unclassified
Unclassified
S5-wms-combined_26061
Caudoviricetes
Unclassified
Unclassified
O
S9-wms-combined_10990
n.a.
n.a.
n.a.
n.a.
SHHC
S2-wms-combined_176376
Caudoviricetes
Unclassified
O
O
S4-wms_62635
Caudoviricetes
Unclassified
Unclassified
Unclassified
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-81
SHHC
S2-wms-combined_85381
Caudoviricetes
Unclassified

Unclassified
Eponavirus
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__COE1
SHHC
S12-wms-combined_31761
Caudoviricetes
Unclassified
Unclassified
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Dorea_A
ME
S5-wms-combined_73301
Caudoviricetes
Unclassified
O
O
Shared
S7-wms-combined_106253
Caudoviricetes
Unclassified
O
O
SHHC
S4-wms-combined_64632
Caudoviricetes
Unclassified
Unclassified
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Eisenbergiella
ME
S9-wms-combined_2042
n.a.
n.a.
n.a.
n.a.
S9-wms-combined_97755
Caudoviricetes
Unclassified
Unclassified
O
O
Shared
S2-wms-combined_200390
Caudoviricetes
Unclassified
O
O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Lachnospirales;f__Lachnospiraceae;g__Enterocloster
ME
S17-wms-combined_223748
n.a.
n.a.
n.a.
n.a.
S9-wms-combined_105822
Caudoviricetes
Unclassified
Unclassified
O
O
Shared
S2-wms-combined_158821
Caudoviricetes
Unclassified
Unclassified
O
O
S6-wms-combined_119138
Caudoviricetes
Unclassified
O
O
S9-wms_64472
n.a.
n.a.
n.a.
n.a.
SHHC
S12-wms-combined_223043

Caudoviricetes
Unclassified
O
O
S6-wms_140743
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_I
SHHC
S2-wms_192667
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Faecalimonas
SHHC
S2-wms-combined_73327
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Fusicatenibacter
Shared
S7-wms-combined_123085
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnoclostridium_A
SHHC
S2-wms-combined_204225
n.a.
n.a.
n.a.
n.a.
S2-wms-combined_74387
Caudoviricetes
Unclassified
O
O
S2-wms-combined_95987
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Lachnospira
ME
S1-wms-combined_100430
Caudoviricetes
Unclassified
Unclassified
O
O
Shared
S12-wms-combined_120133
Caudoviricetes
Unclassified
O
O
S2-wms_161986
Caudoviricetes
Unclassified
Unclassified
O
S7-wms-combined_157260
Caudoviricetes
Unclassified
Unclassified
O
SHHC
S12-wms-combined_302876
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter

ME

S11-wms-combined_282227

Caudoviricetes

Unclassified

O

O

S9-wms-combined_26410

Caudoviricetes

Unclassified

O

O

Shared

S4-wms-combined_121978

Caudoviricetes

Unclassified

O

O

S7-wms-combined_157434

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia

Shared

S12-wms-combined_259783

Caudoviricetes

Unclassified

Unclassified

Unclassified

S2-wms_246296

n.a.

n.a.

n.a.

n.a.

S2-wms-combined_157934

Caudoviricetes

Unclassified

Unclassified

O

S2-wms-combined_218002

Caudoviricetes

Unclassified

O

O

S6-wms-combined_32530

Caudoviricetes

Unclassified

O

O

SHHC

S2-wms-combined_165833

Caudoviricetes

Unclassified

Unclassified

Mushuvirus

S4-wms-combined_24659

n.a.

n.a.

n.a.

n.a.

S8-wms-combined_217866

Caudoviricetes

Unclassified

Unclassified

Eponavirus

d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_UBA9502

Shared

S11-wms-combined_179605

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Acutalibacter

ME

S9-wms-combined_27311

n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-180
Shared
S7-wms-combined_218379
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-217
Shared
S12-wms-combined_117628
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_225908
n.a.
Unclassified
O
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E
ME
S7-wms-combined_28138
Caudoviricetes
Unclassified
O
O
Shared
S2-wms_130687
Caudoviricetes
Unclassified
Unclassified
Unclassified
Unclassified
S5-wms_49310
Caudoviricetes
Unclassified
Unclassified
Unclassified
Unclassified
S5-wms-combined_108794
Caudoviricetes
Unclassified
Unclassified
O
S5-wms-combined_7292
Caudoviricetes
Unclassified
Unclassified
Unclassified
Unclassified
S9-wms-combined_9931
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1417
Shared
S5-wms-combined_117095
n.a.
n.a.
n.a.
n.a.
n.a.
SHHC
S12-wms-combined_263377
Caudoviricetes
Unclassified
O
O
S12-wms-combined_264425
n.a.
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricocaceae;g_Agathobaculum
SHHC

S2-wms-combined_199384

Caudoviricetes

Unclassified

O

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_

SHHC

S2-wms-combined_64692

Caudoviricetes

Unclassified

Unclassified

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_An92

ME

S11-wms-combined_119215

Caudoviricetes

Unclassified

O

O

S17-wms-combined_79709

Caudoviricetes

Unclassified

O

O

Shared

S2-wms-combined_137119

Caudoviricetes

Unclassified

Unclassified

O

S8-wms_82880

Caudoviricetes

Unclassified

Unclassified

Brigitvirus

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103

Shared

S7-wms-combined_139683

Caudoviricetes

Unclassified

O

O

S8-wms-combined_40666

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-110

ME

S1-wms-combined_227003

n.a.

n.a.

n.a.

n.a.

Shared

S12-wms-combined_264845

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170

ME

S1-wms_130214

Caudoviricetes

Unclassified

O

O

Shared

S1-wms_185046

n.a.

n.a.

n.a.

n.a.

S2-wms-combined_238929

Caudoviricetes

Unclassified

O
O
S3-wms_23958
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83
ME
S11-wms_14390
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_72167
Caudoviricetes
Unclassified
O
O
Shared
S11-wms-combined_3507
Caudoviricetes
Unclassified
O
O
S12-wms_373775
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_148741
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_23517
Caudoviricetes
Unclassified
O
O
S12-wms-combined_270839
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_334806
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_63649
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_169788
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_373308
n.a.
n.a.
n.a.
n.a.
S1-wms-combined_57370
Caudoviricetes
Unclassified
O
O
S1-wms-combined_94988
n.a.
n.a.
n.a.
n.a.
S2-wms-combined_159670

n.a.
n.a.
n.a.
n.a.
S5-wms-combined_134381
Caudoviricetes
Unclassified
Unclassified
Lagaffevirus
S5-wms-combined_179241
n.a.
n.a.
n.a.
n.a.
S8-wms_30498
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S8-wms_48935
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus
S8-wms-combined_169835
n.a.
n.a.
n.a.
n.a.
SHHC
S12-wms-combined_157167
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter

ME
S11-wms-combined_283220
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S11-wms-combined_49632
Caudoviricetes
Unclassified
O
O

Shared
S11-wms-combined_116589
n.a.
n.a.
n.a.
n.a.
S12-wms-combined_184338
Caudoviricetes
Unclassified
O
O

S12-wms-combined_329242
n.a.
n.a.
n.a.
n.a.
S1-wms_102342
Caudoviricetes
Unclassified
O
O

S5-wms-combined_205046
n.a.
n.a.
n.a.
n.a.
S6-wms-combined_118427
Caudoviricetes
Unclassified

	Unclassified
	O
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__ER4	
ME	
S1-wms-combined_185336	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms-combined_186878	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms-combined_353757	
	Caudoviricetes
	Unclassified
	O
	O
S1-wms-combined_40115	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms-combined_41369	
	Caudoviricetes
	Unclassified
	O
	O
Shared	
S12-wms-combined_129799	
	Caudoviricetes
	Unclassified
	Unclassified
	O
S12-wms-combined_210942	
	n.a.
	n.a.
	n.a.
	n.a.
S12-wms-combined_393703	
	n.a.
	n.a.
	n.a.
	n.a.
S12-wms-combined_48648	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms_236105	
	Caudoviricetes
	Unclassified
	O
	O
S1-wms_296850	
	Caudoviricetes
	Unclassified
	Unclassified
	Toutatisvirus
S1-wms-combined_132934	
	Caudoviricetes
	Unclassified
	O
	O
S1-wms-combined_156637	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms-combined_164485	
	n.a.
	n.a.
	n.a.
	n.a.
S1-wms-combined_17651	

n.a.
n.a.
n.a.
S1-wms-combined_331896
n.a.
n.a.
n.a.
S1-wms-combined_351889
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_140996
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_93845
Caudoviricetes
Unclassified
O
O
SHHC
S12-wms_235125
n.a.
n.a.
n.a.
n.a.
S8-wms-combined_134098
n.a.
n.a.
n.a.
n.a.
S8-wms-combined_246389
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Evtepia
ME
S17-wms-combined_136622
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_F23-B02
Shared
S2-wms-combined_52568
n.a.
n.a.
n.a.
n.a.
S8-wms-combined_68780
n.a.
n.a.
n.a.
n.a.
SHHC
S12-wms-combined_129554
Caudoviricetes
Unclassified
Unclassified
Eponavirus
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Faecousia
Shared
S11-wms-combined_329493
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor
ME
S17-wms-combined_146850
n.a.

n.a.
n.a.
n.a.
S17-wms-combined_157468
n.a.
n.a.
n.a.
S17-wms-combined_175924
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S17-wms-combined_260343
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus
S17-wms-combined_39687
n.a.
n.a.
n.a.
n.a.
S17-wms-combined_66123
Caudoviricetes
Unclassified
Unclassified
O
S1-wms-combined_374219
n.a.
n.a.
n.a.
n.a.
S5-wms-combined_163165
n.a.
n.a.
n.a.
n.a.
Shared
S11-wms-combined_120257
Caudoviricetes
Unclassified
Unclassified
O
S17-wms-combined_185239
n.a.
n.a.
n.a.
n.a.
S17-wms-combined_247494
Caudoviricetes
Unclassified
O
O
S2-wms-combined_6605
n.a.
n.a.
n.a.
n.a.
S5-wms-combined_145067
Caudoviricetes
Unclassified
O
O
S9-wms-combined_122742
n.a.
n.a.
n.a.
n.a.
S9-wms-combined_124857
n.a.
n.a.
n.a.
n.a.

S17-wms-combined_75892

Caudoviricetes

Unclassified

Unclassified

O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas

ME

S11-wms-combined_299954

n.a.

n.a.

n.a.

n.a.

Shared

S2-wms-combined_122457

Caudoviricetes

Unclassified

Unclassified

O

S2-wms-combined_196783

Caudoviricetes

Unclassified

O

O

S2-wms-combined_24549

Caudoviricetes

Unclassified

O

O

S2-wms-combined_72725

n.a.

n.a.

n.a.

n.a.

S5-wms_52566

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter

Shared

S17-wms-combined_259811

Caudoviricetes

Unclassified

O

O

S1-wms_4277

Caudoviricetes

Unclassified

Unclassified

Mushuvirus

S2-wms-combined_126134

n.a.

n.a.

n.a.

n.a.

S5-wms_10783

n.a.

n.a.

n.a.

n.a.

S7-wms-combined_31068

n.a.

n.a.

n.a.

n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Marseille-P3106

ME

S17-wms-combined_162786

n.a.

n.a.

n.a.

n.a.

Shared

S6-wms-combined_41246

n.a.

n.a.

n.a.
n.a.
S7-wms-combined_84688
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Pseudoflavonifractor
ME
S11-wms_32691
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBA738
Shared
S1-wms-combined_136097
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBA9475
SHHC
S8-wms-combined_25607
Caudoviricetes
Unclassified
O
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Faecalibacterium
ME
S17-wms-combined_90378
Caudoviricetes
Unclassified
Unclassified
Lughvirus
S1-wms_29288
Caudoviricetes
Unclassified
O
O
S1-wms-combined_131270
Caudoviricetes
Unclassified
O
O
S1-wms-combined_164894
Caudoviricetes
Unclassified
O
O
S1-wms-combined_68998
Caudoviricetes
Unclassified
Unclassified
Taransivirus
Shared
S11-wms_3116
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S11-wms-combined_140009
Caudoviricetes
Unclassified
Unclassified
Lughvirus
S11-wms-combined_236214
Caudoviricetes
Unclassified
O
O
S17-wms-combined_193958
Caudoviricetes
Unclassified
Unclassified
Mushuvirus

S17-wms-combined_56006
Caudoviricetes
Unclassified
O
O

S17-wms-combined_56061
n.a.
n.a.
n.a.
n.a.

S1-wms-combined_118167
Caudoviricetes
Unclassified
O
O

S1-wms-combined_23248
Caudoviricetes
Unclassified
Unclassified
Lughvirus

S1-wms-combined_285012
Caudoviricetes
Unclassified
Unclassified
O

S1-wms-combined_304377
Caudoviricetes
Unclassified
Unclassified
Oengusvirus

S1-wms-combined_52708
n.a.
n.a.
n.a.
n.a.

S2-wms_124416
Caudoviricetes
Unclassified
O
O

S2-wms-combined_13246
Caudoviricetes
Unclassified
Unclassified
O

S2-wms-combined_166665
Caudoviricetes
Unclassified
O
O

S2-wms-combined_181849
n.a.
n.a.
n.a.
n.a.

S2-wms-combined_57293
n.a.
Unclassified
O
O

S3-wms_22744
Caudoviricetes
Unclassified
Unclassified
Lagaffevirus

S4-wms-combined_42647
Caudoviricetes
Unclassified
Unclassified
Lughvirus

S6-wms_132588
Caudoviricetes
Unclassified
O
O

S6-wms-combined_110950

n.a.
n.a.
n.a.
S6-wms-combined_126236
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus
S6-wms-combined_138710
n.a.
n.a.
n.a.
n.a.
S6-wms-combined_56464
Caudoviricetes
Unclassified
O
O
S7-wms_113137
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S7-wms-combined_111004
Caudoviricetes
Unclassified
Unclassified
Taranisvirus
S7-wms-combined_137858
n.a.
n.a.
n.a.
n.a.
SHHC
S12-wms_193565
Caudoviricetes
Unclassified
Unclassified
Mushuvirus
S12-wms-combined_264077
Caudoviricetes
Unclassified
O
O
S12-wms-combined_345948
Caudoviricetes
Unclassified
Unclassified
Lughvirus
S12-wms-combined_71235
Caudoviricetes
Unclassified
Unclassified
Lughvirus
S2-wms-combined_127080
n.a.
n.a.
n.a.
n.a.
S6-wms-combined_140731
n.a.
n.a.
n.a.
n.a.
S6-wms-combined_49909
Caudoviricetes
Unclassified
O
O
S8-wms_152831
Caudoviricetes
Unclassified
Unclassified
Toutatisvirus
S8-wms_190781

Caudoviricetes
Unclassified
O
O
S8-wms-combined_225114

Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger

ME

S17-wms-combined_72837

Caudoviricetes
Unclassified
O
O

S1-wms-combined_166392

Caudoviricetes
Unclassified
O
O

S1-wms-combined_220022

n.a.
n.a.
n.a.
n.a.

S1-wms-combined_227917

Caudoviricetes
Unclassified
O
O

Shared

S11-wms-combined_264050

Caudoviricetes
Unclassified
Unclassified
O

S11-wms-combined_46816

n.a.
n.a.
n.a.
n.a.

S1-wms-combined_279492

Caudoviricetes
Unclassified
O
O

S2-wms-combined_62839

Caudoviricetes
Unclassified
O
O

S3-wms-combined_45305

Caudoviricetes
Unclassified
O
O

S4-wms-combined_113721

n.a.
n.a.
n.a.
n.a.

S7-wms-combined_134458

Caudoviricetes
Unclassified
Unclassified
Toutatisvirus

S8-wms-combined_49369

n.a.
n.a.
n.a.
n.a.

SHHC

S12-wms-combined_323943

Caudoviricetes
Unclassified

Unclassified
O
S8-wms_20528
Caudoviricetes
Unclassified
Unclassified
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus

ME
S9-wms-combined_36459
Caudoviricetes
Unclassified
O
O
Shared
S7-wms-combined_238231
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminiclostridium_E

ME
S7-wms_80255
Caudoviricetes
Unclassified
O
O
Shared
S11-wms-combined_168048
Caudoviricetes
Unclassified
O
O

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruminococcus_D

Shared
S2-wms-combined_101826
Caudoviricetes
Unclassified
Unclassified
Unclassified
S7-wms_127801
Caudoviricetes
Unclassified
O
O
S7-wms-combined_224523
Caudoviricetes
Unclassified
O
O
S7-wms-combined_71592
Caudoviricetes
Unclassified
O
O
SHHC
S12-wms_223235
n.a.
n.a.
n.a.
n.a.
S2-wms-combined_30750
n.a.
n.a.
n.a.
n.a.

d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Ruthenibacterium

ME
S9-wms_104169
Faserviricetes
Inoviridae
Unclassified
Inovirus
Shared
S5-wms-combined_66662
n.a.

Unclassified
Unclassified
O
S5-wms-combined_72410
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__UBA3818
SHHC
S12-wms-combined_52101
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__UMGS363
Shared
S12-wms_336780
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p__Firmicutes;c__Negativicutes;o__Acidaminococcales;f__Acidaminococcaceae;g__Phascolarctobacterium_A
SHHC
S4-wms-combined_118531
Caudoviricetes
Unclassified
O
O
S4-wms-combined_57963
Caudoviricetes
Unclassified
Unclassified
O
d_Bacteria;p__Firmicutes;c__Negativicutes;o__Selenomonadales;f__Selenomonadaceae;g__Megamonas
SHHC
S2-wms-combined_197577
Caudoviricetes
Unclassified
Unclassified
Unclassified
d_Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Dialisteraceae;g__Dialister
Shared
S17-wms-combined_95360
Caudoviricetes
Unclassified
O
O
S2-wms-combined_135014
Caudoviricetes
Unclassified
Unclassified
O
S2-wms-combined_135154
n.a.
n.a.
n.a.
n.a.
S2-wms-combined_185494
Caudoviricetes
Autographiviridae
O
O
S7-wms-combined_74829
Caudoviricetes
Unclassified
O
O
S9-wms-combined_53991
Caudoviricetes
Unclassified
O
O
SHHC
S6-wms-combined_65225
n.a.

n.a.
n.a.
n.a.
d_Bacteria;p_Firmicutes;x_Negativicutes;o_Veillonellales;f_Veillonellaceae;g_Veillonella
ME
S9-wms_114971
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Patescibacteria;c_Paceibacteria;o_Paceibacteriales;f_UBA5633;g_MWCK01
SHHC
S12-wms_401372
Caudoviricetes
Unclassified
Unclassified
Unclassified
d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_S1-20
ME
S1-wms-combined_92523
n.a.
Unclassified
O
O
d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-267
ME
S11-wms-combined_204522
Caudoviricetes
Unclassified
O
O
Shared
S11-wms-combined_193148
n.a.
n.a.
n.a.
n.a.
SHHC
S6-wms-combined_745
n.a.
n.a.
n.a.
n.a.
d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_RF32;f_CAG-239;g_CAG-495
Shared
S11-wms-combined_101337
Caudoviricetes
Unclassified
O
O
SHHC
S12-wms-combined_313953
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Oxalobacter
ME
S5-wms-combined_3201
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Sutterella
Shared
S2-wms-combined_84608
Caudoviricetes
Unclassified
O
O
d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Escherichia
ME
S5-wms-combined_18356
Caudoviricetes
Peduoviridae
Unclassified

Evevirus
S9-wms-combined_64277
Caudoviricetes
Unclassified
Unclassified
Bcepmuvirus

SHHC
S2-wms_128831
Caudoviricetes
Unclassified
Unclassified
Unclassified

d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Klebsiella

ME
S9-wms-combined_93232
Caudoviricetes
Unclassified
O
O

d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Salmonella

ME
S11-wms-combined_154845
Caudoviricetes
Peduoviridae
Unclassified
Quadrangintavirus

d__Bacteria;p__Verrucomicrobiota;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Akkermansiaceae;g__Akkermansia

ME
S7-wms-combined_217226
Caudoviricetes
Unclassified
O
O

Shared
S12-wms-combined_168259
Caudoviricetes
Unclassified
O
O

S12-wms-combined_282594
Caudoviricetes
Unclassified
O
O

S1-wms-combined_308848
n.a.
n.a.
n.a.
n.a.

S2-wms-combined_135139
n.a.
n.a.
n.a.
n.a.

S2-wms-combined_201205
Caudoviricetes
Unclassified
Unclassified
O

S2-wms-combined_7756
Caudoviricetes
Unclassified
O
O

S5-wms-combined_52741
Caudoviricetes
Unclassified
O
O

S8-wms-combined_246185
Caudoviricetes
Unclassified
O
O

Table S9-7. VLP and WMS: host comparisons

Shared_hosts_seen_in_both_datasets	Unique_hosts_in_VLP	Unique_hosts_in_WMS
d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Bifidobacteriaceae;g_Bifidobacterium	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Actinomycetes	d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Eggerthella
d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Coribacteriaceae;g_Collinsella	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Actinomycetaceae;g_Pauljensenia	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides_G
d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Adlercreutzia	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Actinomycetales;f_Micrococcaceae;g_Rothia	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Tidjanibacter
d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Eggerthella	d_Bacteria;p_Actinobacteriota;c_Actinomycetia;o_Mycobacteriales;f_Mycobacteriaceae;g_Mycobacterium	d_Bacteria;p_Campylobacteriota;c_Campylobacteriia;o_Campylobacteriales;f_Campylobacteriaceae;g_Campylobacter_D
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Bacteroides	d_Bacteria;p_Actinobacteriota;c_Coribacteriia;o_Coribacteriales;f_Eggerthellaceae;g_Gordonibacter	d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Desulfovibrio
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Prevotella	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Bacteroidaceae;g_Phocaicola	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_SFFH01
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Prevotellaceae;g_Prevotellamassilia	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Coprothaceae;g_Coprothacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-917;g_
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Barnesiellaceae;g_Barnesiella	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyricimonas	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Acetivibrio_A
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Muribaculaceae;g_UBA7173	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Marinifilaceae;g_Butyricimonas	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerosacchariphilus
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes	d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_P3;g_Phil12	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-81
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Rikenellaceae;g_Alistipes_A	d_Bacteria;p_Cyanobacteriia;c_Vampirovibrionia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_CAG-306	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_COE1
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Marseille-P3160	d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Mailhella	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Fuscitenibacter
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_Tannerellaceae;g_Parabacteroides	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Catenibacterium	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_HGM12998
d_Bacteria;p_Bacteroidia;c_Bacteroidia;o_Bacteroidales;f_UBA11471;g_UBA11471	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Faecalibacillus	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_F23-B02
d_Bacteria;p_Cyanobacteriia;c_Vampirovibrionia;o_Gastranaerophilales;f_Gastranaerophilaceae;g_QAM001	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Massiliomicrobiota	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Faecocisia
d_Bacteria;p_Desulfobacterota;c_Desulfovibrionia;o_Desulfovibrionales;f_Desulfovibrionaceae;g_Bilophia	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_HGM12998
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelatoclostridiaceae;g_Erysipelatoclostridium	d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Holdemania	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Marseille-P3106
d_Bacteria;p_Firmicutes;c_Bacilli;o_Erysipelotrichales;f_Erysipelotrichaceae;g_Clostridium_AQ	d_Bacteria;p_Firmicutes;c_Bacilli;o_Haloplasmatales;f_Turicibacteriaceae;g_Turicibacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Pseudoflavonifractor
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactocaseibacillus	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Lactobacillus	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UBA738
d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Leuconostoc	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UMGS363
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_SFE01	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Lactobacillaceae;g_Limosilactobacillus	d_Bacteria;p_Firmicutes;c_Negativicutes;o_Acidaminococcales;f_Acidaminococcaceae;g_Phascocartobacterium_A
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_UBA1685	d_Bacteria;p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Lactococcus	d_Bacteria;p_Firmicutes;c_Negativicutes;o_Selenomonadales;f_Selenomonadaceae;g_Megamonas
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Firm-11	d_Bacteria;p_Firmicutes;c_Bacilli;o_ML615J-28;f_CAG-313;g_CAG-313	d_Bacteria;p_Patescibacteriia;c_Paceibacteriia;o_Paceibacteriales;f_UBA5633;g_MWCK01
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Limiplasma	d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-302	d_Bacteria;p_Proteobacteriia;c_Gammaproteobacteria;o_Burkholderiales;f_Burkholderiaceae;g_Oxalobacter
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_UBA11524	d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-460	d_Bacteria;p_Proteobacteriia;c_Gammaproteobacteria;o_Enterobacteriales;f_Enterobacteriaceae;g_Klebsiella
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Ventricola	d_Bacteria;p_Firmicutes;c_Bacilli;o_RF39;f_UBA660;g_CAG-877	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-917;g_CAG-475	d_Bacteria;p_Firmicutes;c_Clostridia;o_Activobacteriales;f_Activobacteriaceae;g_Ruminoclostridium	Stats:
d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_Christensenellaceae;g_Christensenella	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_Borkfalkiaceae;g_QAL501	Hosts interact with ME-vOTUs uniquely: 6/25 (24%)
d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-138;g_UBA5394	Hosts interact with SHHC-vOTUs uniquely: 10/25 (40%)
d_Bacteria;p_Firmicutes;c_Clostridia;o_Eubacteriales;f_Eubacteriaceae;g_Eubacterium	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_Alectryococcumicrobium	Hosts interact with common viruses (vOTUs) shared in both ME and SHHC: 9/25 (36%)
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotrignaceae;g_Anaerotrignum	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_CAG-74;g_SFTH01	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Acetatifactor	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_NSJ-53;g_NSJ-53	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Agathobacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Christensenellales;f_QAND01;g_UMGS1975	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerobutyrum	d_Bacteria;p_Firmicutes;c_Clostridia;o_Clostridiales;f_Clostridiaceae;g_Clostridium_J	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Anaerotrignum	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotrignaceae;g_UMGS1670	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Banatrius	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_CAG-274;g_CAG-274	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia_A	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea_A	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Blautia	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eisenbergiella	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-127	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Enterocloster	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_CAG-317	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_I	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Clostridium_AP	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Faecalimonas	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Coproccoccus	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Anaerotrignaceae;g_Anaerotrignum	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Dorea	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Mediterraneibacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_F	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Roseburia	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Eubacterium_G	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_UBA9502	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Frisingococcus	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Acutalibacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Hungateella	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-180	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Marvinbryantia	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_CAG-217	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Massilistercora	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Ruminococcus_E	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Muricorpes	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1417	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_OF09-33X0	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Butyricoccaceae;g_Agathobaculum	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_RUG115	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ruminococcus_B	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_An92	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Sellimonas	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-103	d_Bacteria;p_Firmicutes;c_Clostridia;o_Lachnospirales;f_Lachnospiraceae;g_Ventrimonas	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-110	d_Bacteria;p_Firmicutes;c_Clostridia;o_Monoglobales;f_Monoglobaceae;g_Monoglobus	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-170	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_An172	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_CAG-83	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Eubacterium_R	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Dysosmobacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Fimivivinus	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_ER4	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Hydrogeniclostridium	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Evepia	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_Pseudomonococcus	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Flavonifractor	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA1691	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Intestinimonas	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UBA737	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_Lawsonibacter	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1071	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Oscillospiraceae;g_UBA9475	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS1591	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Faecalibacterium	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS263	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Gemmiger	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Acutalibacteraceae;g_UMGS856	
d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_Ruminococcaceae;g_Negativibacillus	d_Bacteria;p_Firmicutes;c_Clostridia;o_Oscillospirales;f_CAG-272;g_CAG-272	

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminiclostridium_E
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_D
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruthenibacterium
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__UBA3818
d__Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Dialisteraceae;g__Dialister
d__Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Veillonellaceae;g__Veillonella
d__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__CAG-239;g__51-20
d__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__CAG-239;g__CAG-267
d__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__CAG-239;g__CAG-495
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Sutterella
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Escherichia
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Enterobacteriaceae;g__Salmonella
d__Bacteria;p__Verrucomicrobiota;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Akermansia

Stats:

Hosts interact with ME-vOTUs uniquely: 11/81 (13.6%)

Hosts interact with SHHC-vOTUs uniquely: 6/81 (7.4%)

Hosts interact with communal viruses shared in both ME and SHHC: 64/81 (79%)

d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__CAG-272;g__QALR01
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__Enterococcus
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UBA5446
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Oscillospiraceae;g__UMGS1766
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Anaerotruncus
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__CAG-353
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__D5
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massimaliae
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Massiliclostridium
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Phocaea
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__QAMM01
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__Ruminococcaceae;g__Ruminococcus_C
d__Bacteria;p__Firmicutes;c__Clostridia;o__Oscillospirales;f__UMGS1783;g__UMGS1783
d__Bacteria;p__Firmicutes;c__Clostridia;o__Peptostreptococcales;f__Anaerovoracaceae;g__CAG-145
d__Bacteria;p__Firmicutes;c__Clostridia;o__Peptostreptococcales;f__Peptostreptococcaceae;g__GCA-900066495
d__Bacteria;p__Firmicutes;c__Clostridia;o__TAN877;f__CAG-508;g__CAG-269
d__Bacteria;p__Firmicutes;c__Clostridia;o__TAN877;f__CAG-508;g__CAG-354
d__Bacteria;p__Firmicutes;c__Clostridia;o__UBA1212;f__UBA1255;g__Egeriisoma
d__Bacteria;p__Firmicutes;c__Negativicutes;o__Acidaminococcales;f__Acidaminococcaceae;g__Phascolarctobacterium
d__Bacteria;p__Firmicutes;c__Negativicutes;o__Veillonellales;f__Megaspaeiaceae;g__Caecibacter
d__Bacteria;p__Patescibacteria;c__Paceibacteria;o__UBA9983_A;f__UBA1006;g__01-FULL-36-10b
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Duodenibacillus
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Parasutterella
d__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacterales;f__Pasteurellaceae;g__Glaesserella
d__Bacteria;p__Spirochaetota;c__Spirochaetia;o__Sphaerochaetales;f__Sphaerochaetaceae;g__UBA9732
d__Bacteria;p__Verrucomicrobiota;c__Lentisphaeria;o__Victivallales;f__Victivallaceae;g__Victivallis