

Supplemental Table 1. The accession numbers to RDP and Silva databases of references 16S sequences which correspond to OTUs identified in the data set, and number of sequencing reads which were assigned to a given OTU.

Accession number	Reference taxon	Number of reads
S000413824, ACIL02000018, ACIL02000016, ACIN02000013, ACIN02000006	<i>Abiotrophia defectiva</i> / <i>Catonella morbi</i>	112
S000001831	<i>Achromobacter denitrificans</i>	1
S000010801	<i>Acidisphaera rubrifaciens</i>	1
Z93435, S000003452	<i>Acinetobacter baumannii</i> / <i>lwoffii</i>	15
S000539896	<i>Acinetobacter calcoaceticus</i>	2
S000381585, AF311991, X81663	<i>Acinetobacter johnsonii</i>	19
S000002678	<i>Acinetobacter radioresistens</i>	1
S000006560	<i>Actinomyces gerencseriae</i>	6
S000111689	<i>Actinomyces graevenitzii</i>	27
AB545934	<i>Actinomyces massiliensis</i>	1
S000010758	<i>Actinomyces meyeri</i>	93
AB618790	<i>Actinomyces naeslundii</i>	8
X80504, S000015295	<i>Actinomyces odontolyticus</i>	24
DQ223314, EU083529	<i>Aggregatibacter aphrophilus</i>	32

AEPS01000017	<i>Aggregatibacter segnis</i>	4
CP001071	<i>Akkermansia muciniphila</i>	4
FP929032	<i>Alistipes shahii</i>	1
S000770217	<i>Alkalimonas delamerensis</i>	1
S000541026	<i>Altererythrobacter luteolus</i>	1
ABXA01000039	<i>Anaerococcus hydrogenalis</i>	1
FR870442	<i>Arthrobacter ilicis</i>	1
CP001721	<i>Atopobium parvulum</i>	35
U49080	<i>Bacillus sporothermodurans</i>	1
ABQL01000001, X60646	<i>Bacillus subtilis</i>	5
X55062, GU086455, S002290220, Z84578, X55060	<i>Bacillus thuringiensis/ sp./ cereus</i>	55
AB510696	<i>Bacteroides acidifaciens</i>	30
AB547639	<i>Bacteroides coagulans</i>	1
ABIY02000057, EU136688	<i>Bacteroides coprocola</i>	3
ABWZ01000093	<i>Bacteroides dorei</i>	51
EU136695	<i>Bacteroides eggerthii</i>	1
X83935, AB510701	<i>Bacteroides fragilis</i>	15
S000964306	<i>Bacteroides graminisolvens</i>	1
ABJL02000007, ACCH01000108	<i>Bacteroides intestinalis/ cellulosityticus</i>	47
AB510703	<i>Bacteroides massiliensis</i>	7
EU136693	<i>Bacteroides nordii</i>	1

AAXF02000050, AB510705	<i>Bacteroides ovatus</i>	6
EU136690, S000451793	<i>Bacteroides salyersiae</i>	4
AB510708, ABFZ02000022, ABFZ02000021	<i>Bacteroides stercoris</i>	19
S000628239, ABXI02000116, S000628237, S000628241, AB510710	<i>Bacteroides thetaiotaomicron/ finegoldii</i>	40
EU136680, AAYH02000049	<i>Bacteroides uniformis</i>	62
EU136687	<i>Bacteroides vulgatus</i>	8
AB510713	<i>Bacteroides xylanisolvens</i>	50
AB547647	<i>Barnesiella intestinhominis</i>	1
AF275882	<i>Bifidobacterium adolescentis</i>	1
CP001606	<i>Bifidobacterium animalis</i>	23
U25951	<i>Bifidobacterium bifidum</i>	12
ACCG02000012, GU361815	<i>Bifidobacterium breve</i>	9
GU361816, ABXY01000019	<i>Bifidobacterium catenulatum</i>	3
AB116305, CP001095	<i>Bifidobacterium longum</i>	20
GU361827	<i>Bifidobacterium pseudocatenulatum</i>	1
GU361828	<i>Bifidobacterium pseudolongum</i>	3
S000086360	<i>Bifidobacterium scardovii</i>	4
AJ430193	<i>Blastococcus aggregatus</i>	1
S000388693, S000437033, S000015853, S000437035	<i>Bordetella hinzii/ holmesii/ trematum/ bronchiseptica</i>	463
AM902716	<i>Bordetella petrii</i>	2

S000251362	<i>Brachybacterium muris</i>	1
S000011551	<i>Brevibacterium casei</i>	1
S000007728	<i>Brevibacterium iodinum</i>	1
S000979829	<i>Brevibacterium ravensturgense</i>	1
L04322, S000645708	<i>Campylobacter concisus</i>	35
AB595133	<i>Campylobacter rectus</i>	1
S000645697	<i>Campylobacter showae</i>	1
ACLQ01000011, S000437590	<i>Capnocytophaga gingivalis/ granulosa</i>	19
S000541544	<i>Capnocytophaga leadbetteri</i>	7
CP001632	<i>Capnocytophaga ochracea</i>	3
L14636, ABZV01000054	<i>Capnocytophaga sputigena</i>	13
ACKY01000036	<i>Cardiobacterium hominis</i>	2
S000022009	<i>Cellulomonas humilata</i>	1
S000730508	<i>Chryseobacterium hominis</i>	4
HQ992945, S000013935, FR870445	<i>Citrobacter koseri / Shigella flexneri/ sonnei</i>	3
AY438672	<i>Clostridium bartlettii</i>	9
AB023970	<i>Clostridium hiranonis</i>	3
S000436096	<i>Clostridium innocuum</i>	1
X77850	<i>Clostridium rectum</i>	1
CP002109	<i>Clostridium saccharolyticum</i>	1
M59112	<i>Clostridium symbiosum</i>	2

ABEY02000028	<i>Coprococcus eutactus</i>	1
ACGD01000048, S000128467	<i>Corynebacterium accolens/</i> <i>tuberculostearicum</i>	20
S000095332	<i>Corynebacterium appendicis</i>	2
AY536427	<i>Corynebacterium aurimucosum</i>	1
S000001309	<i>Corynebacterium durum</i>	1
BA000036	<i>Corynebacterium glutamicum</i>	1
CP001620	<i>Corynebacterium kroppenstedtii</i>	3
S000366401	<i>Corynebacterium macginleyi</i>	2
ACSH02000003	<i>Corynebacterium matruchotii</i>	1
S000366399, S000260722, X81917, X84258	<i>Corynebacterium pseudodiphtheriticum/</i> <i>propinquum</i>	472
S000367091	<i>Curtobacterium pusillum</i>	1
AB074256	<i>Delftia acidovorans</i>	8
S000002714	<i>Dolosigranulum pigrum</i>	568
AJ247212, ACEA01000028	<i>Eikenella corrodens</i>	3
HQ651841	<i>Enterobacter cloacae</i>	2
Y18295	<i>Enterococcus casseliflavus</i>	1
Y18293, GU417251	<i>Enterococcus faecalis</i>	3
Z96086	<i>Erwinia persicina</i>	1
ABYT01000002	<i>Eubacterium bifforme</i>	2
FR749932	<i>Eubacterium hadrum</i>	1
CP001107	<i>Eubacterium rectale</i>	1

AEPW01000130, AB525414	<i>Eubacterium saburreum</i>	11
S000128264	<i>Eubacterium sulci</i>	9
AAVL02000015	<i>Eubacterium ventriosum</i>	4
GU269551	<i>Eubacterium yurii</i>	1
S000650876	<i>Exiguobacterium acetylicum</i>	13
S000504078	<i>Exiguobacterium marinum</i>	1
S000432293	<i>Fingoldia magna</i>	4
S002288618, AB540989, AM887529, AJ006964, AABF01000026, GQ301041, GQ301040, ACJY01000002, AB550231, FJ196709, GQ301039	<i>Fusobacterium nucleatum/ periodonticum</i>	299
ACDZ02000011, ACDZ02000012	<i>Gemella haemolysans</i>	124
S000414423	<i>Gemella morbillorum</i>	2
S000016156	<i>Gemella sanguinis</i>	7
GU562446	<i>Gemmiger formicilis</i>	1
ACKZ01000002	<i>Granulicatella adiacens</i>	503
ACRF01000033, S000387147	<i>Granulicatella elegans</i>	144
S000368469, M75044, S000436254, EU909672	<i>Haemophilus influenzae/ aegyptius</i>	32624
AJ295746	<i>Haemophilus parahaemolyticus</i>	8
S000368472, EU083530	<i>Haemophilus parainfluenzae</i>	109
S000436705	<i>Haemophilus paraphrohaemolyticus</i>	1

S000573912	<i>Helicobacter canis</i>	1
FR749905	<i>Hydrogenophilus hirschii</i>	1
S000436070	<i>Kingella denitrificans</i>	7
ACJW02000005	<i>Kingella oralis</i>	6
S000008149	<i>Kocuria rhizophila</i>	1
AB008203	<i>Lactobacillus acidophilus</i>	1
AB008205, AY196966, GU425024	<i>Lactobacillus casei/ paracasei</i>	42
AB008206	<i>Lactobacillus crispatus</i>	1
AY773950, HM007590, AY773948	<i>Lactobacillus delbrueckii</i>	8
AB289099	<i>Lactobacillus equi</i>	1
EF468096, CP000413, S001016089	<i>Lactobacillus gasseri/ taiwanensis</i>	38
ACLN01000018	<i>Lactobacillus iners</i>	6
AB326349	<i>Lactobacillus murinus</i>	25
ACGZ02000033, D79210	<i>Lactobacillus plantarum</i>	1
EF468094, CP000705, AF429538, X76328	<i>Lactobacillus reuteri</i>	36
AF429476, AB626049	<i>Lactobacillus rhamnosus</i>	92
S000870727	<i>Lactobacillus ruminis</i>	2
AY204892, S000608879	<i>Lactobacillus sakei</i>	1
AB326353	<i>Lactobacillus salivarius</i>	1
S000389919	<i>Lactobacillus vaginalis</i>	1
EU091472, S000439500, AB008215, EF694031, M58837, M58836,	<i>Lactococcus lactis</i>	1018

AB008214

AEQP01000026	<i>Lautropia mirabilis</i>	11
ET631757, CP001685	<i>Leptotrichia buccalis</i>	16
AB558169	<i>Leptotrichia goodfellowii</i>	5
AB558170	<i>Leptotrichia hofstadii</i>	3
AB558171, S000434624	<i>Leptotrichia shahii</i>	6
S000018119	<i>Leptotrichia trevisanii</i>	3
AB588021	<i>Leptotrichia wadei</i>	64
S000382657	<i>Leuconostoc carnosum</i>	1
AB271742	<i>Lysinibacillus sphaericus</i>	2
S000981170	<i>Megamonas rupellensis</i>	1
AB609707, S000395077	<i>Megasphaera micronuciformis</i>	113
CP001029	<i>Methylobacterium populi</i>	1
L20849	<i>Methylobacterium rhodinum</i>	1
S000539539	<i>Microbacterium hydrocarbonoxydans</i>	1
CP001628.2	<i>Micrococcus luteus</i>	4
S000021364	<i>Mogibacterium vescum</i>	20
X74903, U10876	<i>Moraxella catarrhalis</i>	7521
AF005160, X74895, S000413900,	<i>Moraxella lacunata/ nonliquefaciens</i>	22424
HM152563		
FR822735	<i>Moraxella lincolnii</i>	12551
FR726160	<i>Moraxella osloensis</i>	7

S000540537	<i>Mucispirillum schaedleri</i>	5
S000387267	<i>Mycoplasma salivarium</i>	67
S000901783	<i>Naxibacter haematophilus</i>	1
S000413195	<i>Neisseria bacilliformis</i>	13
ACDY02000019	<i>Neisseria cinerea</i>	11
ADBF01000003	<i>Neisseria elongata</i>	5
S000414306	<i>Neisseria flavescens</i>	742
X74901	<i>Neisseria lactamica</i>	1
AJ247248, AJ247243, ACKO02000016	<i>Neisseria sicca/ macacae</i>	49
AJ247249	<i>Neisseria subflava</i>	42
FR749915	<i>Nocardia globerula</i>	1
AB547649	<i>Odoribacter splanchnicus</i>	2
S000461126	<i>Oribacterium sinus</i>	4
AF373196, AB004758	<i>Pantoea agglomerans/ ananatis</i>	2
EU136681, CP000140	<i>Parabacteroides distasonis</i>	26
EU136697	<i>Parabacteroides goldsteinii</i>	5
EU136685	<i>Parabacteroides merdae</i>	5
S000414229, AEON01000002	<i>Parascardovia denticolens</i>	32
S001239099	<i>Parasutterella excrementihominis</i>	4
ABEE02000013	<i>Parvimonas micra</i>	6
S000804721	<i>Pedobacter duraquae</i>	1

S000634343	<i>Peptostreptococcus stomatis</i>	4
S000013701	<i>Phascolarctobacterium faecium</i>	4
FJ792537, AB547668	<i>Porphyromonas asaccharolytica/ uenonis</i>	3
S000996242, AB588020	<i>Porphyromonas bennonis</i>	1
AB547656	<i>Porphyromonas catoniae</i>	14
ACNN01000021	<i>Porphyromonas endodontalis</i>	2
AP009380	<i>Porphyromonas gingivalis</i>	2
AB547667	<i>Porphyromonas somerae</i>	3
AB547671	<i>Prevotella baroniae</i>	1
ADEG01000074	<i>Prevotella buccalis</i>	2
ACBX02000025, ACBX02000047, ACBX02000017	<i>Prevotella copri</i>	22
AB547677	<i>Prevotella corporis</i>	2
AB547685	<i>Prevotella histicola</i>	1099
AF414821	<i>Prevotella intermedia</i>	1
AB547689	<i>Prevotella loescheii</i>	4
S000859950	<i>Prevotella maculosa</i>	4
CP002123, CP002122	<i>Prevotella melaninogenica</i>	701
AB547692	<i>Prevotella micans</i>	1
AB547695	<i>Prevotella nanceiensis</i>	60
AB547697	<i>Prevotella nigrescens</i>	46
AB547701	<i>Prevotella oris</i>	28

AB547702	<i>Prevotella oulorum</i>	24
AB547703	<i>Prevotella pallens</i>	37
S000774968	<i>Prevotella pleuritidis</i>	10
S000334739	<i>Prevotella salivae</i>	141
S000334738	<i>Prevotella shahii</i>	1
S000768322	<i>Prevotella stercorea</i>	1
S001168700, ACIJ02000002	<i>Prevotella tanneriae</i>	3
AB547706	<i>Prevotella timonensis</i>	2
EF680378, S000264635	<i>Propionibacterium acnes</i>	231
S000011249	<i>Propionibacterium freudenreichii</i>	1
S000008182	<i>Propionibacterium granulosum</i>	5
FJ652610,Z76656,FJ971871	<i>Pseudomonas chlororaphis/fragi</i> 98	5
S000006483, Z76667, AB021409, S000009281, S000516032	<i>Pseudomonas plecoglossicida/ putida/ monteilii/ pseudoalcaligenes/ moraviensis</i>	4
S000334612	<i>Rothia aeria</i>	4
CP002280, GU416825, ACVO01000020	<i>Rothia dentocariosa/ mucilaginoso</i>	545
S000436016	<i>Ruminococcus bromii</i>	1
L76604	<i>Ruminococcus torques</i>	1
AJ512945	<i>Schlegelella thermodepolymerans</i>	1
S000390722	<i>Selenomonas infelix</i>	1
S000390719	<i>Selenomonas sputigena</i>	1
AB540987, AY044916	<i>Solobacterium moorei</i>	21

S000334614	<i>Sphingomonas yabuuchiae</i>	1
S000529044, L37597, Z26896	<i>Staphylococcus aureus/ haemolyticus</i>	124
S000381982, Z26940, Z26888, Z26894	<i>Staphylococcus caprae/ capitis/ arlettae/ epidermidis</i>	61
S000413962, Z26895	<i>Staphylococcus cohnii/ equorum</i>	3
Z26905, S000016099	<i>Staphylococcus hominis</i>	38
S000381991, S000414717	<i>Staphylococcus pasteurii/ warneri</i>	96
AJ131913, S000010261, FJ971878, X95923	<i>Stenotrophomonas maltophilia / Pseudomonas hibiscicola</i>	175
S000428928	<i>Streptococcus anginosus</i>	1
AEQR01000024	<i>Streptococcus australis</i>	3
AEVC01000028, AY584476	<i>Streptococcus cristatus</i>	28
AJ420200	<i>Streptococcus downei</i>	10
AY485606	<i>Streptococcus gordonii</i>	3
ABJK02000007, S000393994	<i>Streptococcus infantarius</i>	2
AEVD01000030	<i>Streptococcus infantis</i>	38
Z69040, Z69041, AB236926	<i>Streptococcus intermedius/ constellatus</i>	198
AJ243965	<i>Streptococcus mutans</i>	11
GU045377, AF003932	<i>Streptococcus oralis</i>	9
EU156771, ADVN01000004, AY485605	<i>Streptococcus parasanguinis</i>	109
EU156772, AEVF01000016	<i>Streptococcus peroris</i>	35

GU045394, GU326244, S000386901, S000386902, AY485600, GU399444, AJ001246, S000421498	<i>Streptococcus pneumoniae/</i> <i>pseudopneumoniae/ mitis</i>	11864
X68418, S000400852, AEVI01000085, S000400850	<i>Streptococcus salivarius/ thermophilus/</i> <i>vestibularis</i>	615
S000386900, DQ303192, AB596946	<i>Streptococcus sanguinis</i>	37
AJ243966	<i>Streptococcus sobrinus</i>	1
ACBY02000023	<i>Subdoligranulum variabile</i>	1
CP002171	<i>Thermoanaerobacterium</i> <i>thermosaccharolyticum</i>	1
S000435847	<i>Treponema medium</i>	1
S000381264	<i>Turicella otitidis</i>	1
S000392070	<i>Turicibacter sanguinis</i>	1
ACIK02000020, HM007566, AY995769, X84006, X84005, ADFU01000009, ACIK02000004, X84007, ACIK02000021, CP001820	<i>Veillonella dispar/ parvula/ atypica</i>	494
S000380997	<i>Weissella hellenica</i>	1
S000403225	<i>Yaniella halotolerans</i>	1