Separation of cohorts on the basis of bacterial type IV conjugation systems identified from metagenomic assemblies

Benjamin R. Joris, Tyler S. Browne, Thomas A. Hamilton, David R. Edgell and Gregory B. Gloor

01 March, 2021

Author Affiliations: Department of Biochemistry, Schulich School of Medicine, The University of Western Ontario, London, Ontario, N6A 3K7, Canada

Corresponding author: Gregory B. Gloor, ggloor@uwo.ca

Abstract

Conjugation enables the exchange of genetic elements throughout environments, including the human gut microbiome. Conjugative elements can carry and transfer clinically relevant metabolic pathways which makes precise identification of these systems in metagenomic samples clinically important. Here, we outline two distinct methods to identify conjugative systems in the human gut microbiome. We first show that conjugative systems exhibit strong population and age-level stratification. Additionally, we find that the total relative abundance of all conjugative systems present in a sample is not an informative metric to use, regardless of the method of identifying the systems. Finally, we demonstrate that the majority of assembled conjugative systems are not included within metagenomic bins, and that only a small proportion of the binned conjugative systems are included in “high-quality” metagenomic bins. Our findings highlight that conjugative systems differ between general North Americans and a cohort of North American pre-term infants, revealing a potential use as an age-related biomarker. Furthermore, conjugative systems can distinguish between other geographical-based cohorts. Our findings emphasize the need to identify and analyze conjugative systems outside of standard metagenomic binning pipelines.

Importance

The human gut microbiome is increasingly being associated with human health outcomes through shotgun metagenomic sequencing. The usual approach of metagenomic-level analyses is to bin assembled sequences into approximations of bacterial genomes and perform further investigations on the resultant bins. Here, we show that type IV conjugative systems differ between age and geographically-based cohorts and that these systems are systematically excluded by binning algorithms. We suggest that analysis of type IV conjugative systems should be added to the current metagenomic analysis approaches as they contain much information that could explain differences between cohorts beyond those we investigated.

Background

Bacteria can acquire exogenous DNA through horizontal gene transfer. Conjugation is a common mechanism of horizontal gene transfer that relies on direct cell-cell contact to unidirectionally transfer DNA from a bacterial donor to a recipient cell. In bacteria, integrative conjugative elements (ICEs) and conjugative plasmids are mobilizable through the actions of type IV secretion systems (T4SS). Approximately half of the known plasmids are mobilizable in *trans* where the conjugative machinery is on a different genetic element than the transferred element, and the remainder are mobilizable in *cis* because the conjugative machinery is present on the same genetic element [1]. ICEs encode their own T4SS, and can mobilize other elements

[2]. Conjugative elements often contain antibiotic resistance genes, but also can harbour useful biosynthetic and biodegradation genes [3]. Furthermore, conjugative systems can serve as vectors to introduce CRISPR systems, metabolic pathways or novel functions into the gut microbiota [4–9]. Therefore, characterizing the full complement of conjugative systems in the human gut could expand the number of useable vectors for these applications. Precise identification of conjugative systems from metagenomic samples could also provide insights to their distribution in populations and their correlation with antibiotic exposure, age, and health status.

For a DNA sequence to be considered mobilizable, it must encode an origin of transfer (*oriT*) sequence that is recognized and nicked by a relaxase protein [1, 10]. Relaxase proteins contain a conserved histidine triad that coordinates a divalent metal ion, as well as tyrosine residues that bind the *oriT* DNA sequence and catalyze the nicking reaction [11, 12]. In addition to a relaxase gene and an *oriT* sequence, a full complement of type IV secretion system and coupling proteins are required for a sequence to be mobilizable. In the well-studied *Agrobacterium tumefaciens* conjugative system, there are 12 proteins involved in the transfer of the DNA-relaxase complex from one bacterial cell to another [13, 14]. Homologs of the VirB4 ATPase that are essential for assembly of the conjugative system and DNA transfer are generally similar to the phylogeny of the bacteria harbouring them [15] and thus are useful for classifying conjugative systems [16]. The synteny of conjugative transfer genes is also highly conserved among conjugative systems [14]. Both the synteny and presence of highly-conserved genes involved in conjugation facilitates the classification of genetic elements as potentially conjugative if the sequences are annotated as belonging to the components of the T4SS [17] (Figure 1).

Previous work has identified novel conjugative systems in the human and animal gut microbiomes, but the focus was mainly on ICEs and not on conjugative plasmids [3, 18, 19]. Identifying conjugative plasmids from a short-read metagenomic assembly is difficult for several reasons. The initial barrier is the difficulty in assembling circularized plasmids from short-read sequencing data [20]. A second barrier is that the contiguous DNA sequences (contigs) that compose metagenome-assembled genomes (MAGs) are binned together based on sequence composition and coverage. Binning of a plasmid with its cognate genome will not happen unless the contigs that compose the plasmid are maintained in the same copy-number and have the same sequence composition as the chromosome. These criteria are generally not met because conjugative systems are usually more AT rich than the cognate chromosome [1] and often do not have a unit copy number. Since nearly 80% of the non-redundant set of genomes from the human-gut microbiome are from difficult-to-culture species that are known only from MAGs [21], alternate methods must be employed to assemble and identify conjugative plasmids from the metagenomic sequencing data. Computational tools have recently been developed to identify plasmids from metagenomic assemblies [22], but would be rendered pointless if applied to already binned data that systematically excludes plasmids [23]. Methods that identify conjugative systems prior to binning should be able to capture the full spectrum of ICEs and conjugative plasmids.

Here, we show that T4SS conjugative systems can be identified using two distinct methods (Figure 2). First, we used profile HMMs (pHMMs) to identify conjugative systems directly from metagenomic assemblies of general North American and North American pre-term infant samples [17]. Second, we searched predicted protein sequences vs. UniRef90 [24] for proteins involved in conjugation to identify conjugative systems from a human gut microbiome genome set. With this approach differences between additional cohorts in the relative abundances of extracted systems could be recognized. While the differences between cohorts found using the two methods were not identical, both methods did illustrate that different age and population cohorts were distinct. Non-equivalent data between the methods suggests some level of incompleteness or bias in the conjugative systems found by one or both methods. Finally, we demonstrate that the majority of conjugative systems produced by a metagenomic assembly are not included in high-quality bins that were used to compose human gut microbiome genome sets. Our findings provide a roadmap to integrate the analysis of conjugative systems alongside the genomic content of bacteria.

Methods

Assembly and identification of conjugative systems in North American short-read data

Samples belonging to a general North American (n=50) and a North American pre-term infant cohort (n=51) were assembled *de novo* (Supplemental Table 1). Reads from these samples were downloaded from the Sequence Read Archive using the SRA toolkit version 2.9.2, deduplicated with `dedupe.sh` [25], and trimmed with Trimmomatic version 0.36 [26] with options `LEADING:10 TRAILING:10`. Processed reads were assembled sample-by-sample using SPAdes version 3.14.0, option `--meta` [27]. The resultant assemblies were imported into Anvi'o version 6.0 [28] where the presence of T4SS, T4CP, and relaxase proteins were predicted using the `anvi-run-hmms` module, which integrates HMMER3 functionality [29]. Contigs that contained pHMM matches for all three classes of conjugative proteins were extracted and annotated by aligning open reading frames (ORFs) predicted with Prodigal version 2.6.3 [30] to the UniRef90 database [24]. Subregions of the contigs where annotations for conjugative proteins were present, with no more than 20 ORFs between successive UniRef90 annotations for conjugative proteins, were extracted. The processed read data were mapped to the extracted conjugative systems using Bowtie2 version 2.3.5 [31] with the settings `--no-unal --no-mixed --no-discordant`. Extraction of the subregions was to avoid an artificially high proportion of reads mapping in samples where the bacterium is present, but the ICE has not integrated in its chromosome (Supplemental Figure 1). Taxonomic prediction of the contigs was conducted with Kaiju version 1.7.2 utilizing the RefSeq non-redundant protein database [32]. MOB-suite version 1.4.9.1 was utilized to characterize the incompatibility grouping of the conjugative system, if possible [33]. PlasFlow version 1.1.0 was used to classify whether the system was chromosomally integrated or a plasmid [22]. The proportion of

reads mapping to the conjugative systems was extracted from the Bowtie2 output, and the mapping data was visualized using Anvi'o [28]. Raw counts of reads mapping to the extracted conjugative systems were transformed using a centered log-ratio. The principal component coordinates of the first 2 components were used for clustering by hdbscan [34].

Reference human gut metagenome set

A near-complete and non-redundant set of human gut microbiome genomes were downloaded from the European Bioinformatics Institute FTP site (ftp://ftp.ebi.ac.uk/pub/databases/metagenomics/umgs_analyses/) [21]. These genomes were assembled from 13,133 metagenomic samples using SPAdes [27] and binned using MetaBAT2 [35]. The quality of binned genomes were assessed using CheckM [36]. High-quality genomes were defined as >90% completeness and <5% contamination and medium-quality genomes were defined as >50% completeness and <10% contamination, and these genomes were used to create the non-redundant set of genomes. The program dRep was used to cluster the genomes at 99% sequence identity [37] thereby dereplicating the genome bins, creating a set of 2505 genomes.

Identifying and quantifying conjugative systems in reference human gut metagenome set

ORFs were predicted in the genome by Prodigal version 2.6.3 [30]. The predicted protein sequences were then aligned to the UniRef90 database [24] using the Diamond protein aligner version 0.9.14 [38]. Contigs were extracted from the genomes if they contained annotations for a relaxase/mobilization protein and a type IV secretion/type IV coupling protein using a word-search strategy. MOB-suite version 1.4.9.1 was utilized to characterize the incompatibility grouping of the conjugative system, if possible [33]. PlasFlow version 1.1.0 was used to classify whether the system was predicted to be chromosomally integrated or located on a plasmid [22]. Short-read data from 785 samples (Supplemental Table 2) were downloaded from the Sequence Read Archive using the SRA toolkit version 2.9.2. The reads were processed and aligned to the regions of the contigs where type IV conjugative systems were located using the previously described methods. The principal component coordinates of the first 3 components were used for clustering by hdbscan [34].

Binning of Assemblies

For each assembly, all 101 samples were mapped to the contigs using Bowtie2 [31]. The mapping files were sorted and indexed with SAMtools [39] and then the assemblies were binned using MetaBAT2 version 2.12.1 [35]. CheckM version 1.1.2 was used to assess the quality of the resultant bins [36]. High-quality bins were defined using the same cutoffs (>90% completion and <5% redundancy) as Almeida *et al* (2019)

defined. Bins not passing that threshold were classified as “low-quality”. The previously identified contigs with conjugative systems were classified based on their presence in bins, and the types of bins they were present in. Results of this classification were visualized using SankeyMATIC (<http://sankeymatic.com/>).

Results

Conjugative systems identified from assembly of short-read data distinguish North American cohorts

51 samples from a pre-term infant cohort and 50 from a general North American cohort were assembled sample-by-sample using metaSPAdes [27] to identify T4SS conjugative systems from a full pool of assembled contigs (i.e. not binned) and to compare the relative abundances of these systems between cohorts. For these analyses, contigs with conjugative systems were defined by pHMM matches for a relaxase, a type IV coupling protein, and a type IV secretion system, which offers a fast and precise method to annotate a limited number of protein families. From the assembly of the pre-term infant cohort 96 of 470500 contigs met the criteria, whereas 268 of 15100646 contigs from the general cohort did (Supplemental Table 3). Predicted ORFs from contigs with conjugative systems were aligned to the UniRef90 database and the subregions with conjugative systems were extracted. The short-read data from all 101 samples were mapped to all 391 subregions of conjugative proteins.

The patterns of conjugative system occurrence and relative abundance in the two cohorts are distinct (Figure 3). Conjugative systems belonging to the *Proteobacteria* phylum were only assembled from pre-term infant samples and did not have any apparent occurrence in the general population. Furthermore, most identified conjugative contigs were private to the cohort they were assembled from. When the log-transformed principal component analysis data were clustered with hdbscan [34], the two cohorts formed separate clusters (Figure 4, Supplemental Figure 2). These findings show that North American pre-term infants have a strikingly different array of conjugative systems than the general North American cohort.

Mapping human gut microbiome data from cohorts to conjugative systems reveals distinct patterns

Next we explored relative abundances of conjugative systems in a greater number of cohorts, without having to conduct computationally-expensive metagenomic assemblies. For this analysis, conjugative systems were identified from a set of 2505 bacterial genomes, which represent a non-redundant and near-complete picture of the human gut microbiome [21]. A total of 1598 contigs from 787 genomes that contain UniRef90 annotations for relaxase/mobilization and T4SS/T4CP proteins were identified (Supplemental Table 3). From

these contigs, 3216 subregions where conjugative protein annotations were concentrated on the contig were extracted (Supplemental Figure 1), with 2413 being >1kb in size and used for visualization. Short-read human gut microbiome sequencing data from 785 samples, spread across 8 cohorts were aligned to the extracted subregions (Supplemental Table 1). With the conjugative systems identified from the human gut metagenome set, the two North American cohorts that were previously analyzed are still distinct, albeit in a different way (Figure 5). Only a very small number of the reads from the North American and European Infant cohorts mapped to conjugative systems. The only notable signal is in the *Proteobacteria* phylum for the North American pre-term infants, a finding consistent with what was found by *de novo* assembly. The West African and South American cohorts also share similar characteristics as both have an overall lower apparent relative abundance of conjugative systems compared to the other non-infant cohorts, particularly in the *Bacteroidetes* phylum. The other four cohorts appear similar with regards to the presence and absence of the conjugative systems. The cohorts separated into three distinct clusters (Figure 6, Supplemental Figure 3), when the principal components of the centered log-ratio transformed data were clustered using hdbscan [34]. In this analysis infant cohorts were excluded because of their extreme sparsity. The majority of the West African and South American samples clustered together consistent with Figure 5. Not readily apparent from the cladogram was the East Asian cohort that clustered primarily on its own. The North American Indigenous, North American general, and Western European general samples largely clustered together. Like the conjugative systems identified from the *de novo* assemblies of short-read data, the relative abundances of conjugative systems identified from a human gut metagenome set separated cohorts into distinct groups.

Percentage of reads mapping to conjugative systems is inconsistent between methods

For the cohorts that were examined using both methods of conjugative system identification, the percentages of total reads mapping to the identified conjugative systems were not equal between methods (Figure 7). From the conjugative systems identified from the general North American cohort assembly of the short reads the mean percentage of reads mapping was 0.62% (95% CI [0.22%,1.1%]), whereas the mean percentage of reads mapping to the conjugative systems identified from the genome set was (2.69% 95% CI [1.25%,4.64%]). A lower average percentage in the assembled dataset than the genome set conjugative systems suggests that the assemblies of the short read sequences were not able to successfully capture the full diversity of conjugative systems found in an average North American individual. Conversely, for the pre-term North American infants, the mean percentage of total reads mapping to conjugative systems identified from the assemblies was 3.33% (95% CI [0.00182%,2.39%]), whereas from the reference genome set the mean percentage was (0.271% 95% CI [0.025%,1.21%]). In terms of the composition of the reference gut metagenome set, it is probable that the bulk of the bacterial genomes are sourced from deeply sequenced cohorts, like a general North

American population, rather than a niche cohort like pre-term infants. This results in a more precise relative abundance estimate of conjugative systems in the general North American cohort than in the pre-term infant cohort. These findings together suggest that the total percentage of reads mapping to conjugative systems is not particularly informative and these data should be treated as compositions with relative abundances of features being compared between groups.

The majority of conjugative systems identified by assembly are omitted from metagenomic bins

The assemblies were binned using MetaBAT2 [35], which was also used to bin the MAGs in the human gut genome set used in the prior analyses[21] to further explore how conjugative systems are distributed within common metagenomic analyses. Of the 364 assembled contigs containing pHMM matches to all three protein categories, 270 were not included in any metagenomic bins (Figure 8). For the 94 contigs included in metagenomic bins, 65 of those were found in high-quality bins (>90% completion and <5% redundancy). Among the 29 contigs included in bins that do not meet the aforementioned threshold, 8 are within bins that are greater than or equal to 1 megabase in size, potentially suggesting that fragments of a conjugative plasmid may have binned together.

Discussion

The relative abundances of conjugative systems identified from MAGs and isolate genomes from the human gut differ between cohorts similarly to how relative abundances of human gut MAGs of different species are differential between cohorts [40]. The infant cohorts stood out the most from the other cohorts; the infant gut microbiome is composed largely of members of the genus *Bifidobacteria* and is recognized as being distinct to the microbiomes of adults over the first few years of life [41]. Furthermore, we observed that the gut microbiome of pre-term infants were distinct from other infants and adults. This could be because of exposure to antibiotics from birth and colonization by opportunistic *Proteobacteria* pathogens such as members of the genera *Escherichia*, *Klebsiella*, and *Enterobacter* [42]. As shown in Figure 2a, the only conjugative systems that showed a signal for the samples belonging to the North American pre-term infants were those belonging to the *Proteobacteria* phylum. The degree of difference in relative abundances of conjugative systems between infants and adults suggests that conjugative systems could be a potential biomarker for age, or for the relative maturity of the infant microbiome.

The relative abundances and distributions of conjugative systems in the West African and South American cohorts were distinct from the other non-infant cohorts, which is similar to the findings in the relative abundances of bacterial species in these cohorts [40]. As well, the East Asian cohort clustered separately from

the other non-infant cohorts. These findings suggest that conjugative systems might be useful biomarkers for other factors beyond just age and further focus on geographical or health-related differences may yet reveal additional separation between cohorts based on the relative abundances of conjugative systems.

Comparing the findings between methods in Figure 7, it is clear that the total percentage of reads mapping to conjugative systems is not an effective metric; the differences between the relative abundances in conjugative systems that were present from the genome set between the general North American and North American pre-term infants did not persist when examining the relative abundances of the assembled systems. Comparing Figure 3 and Figure 5, the conjugative systems assembled in pre-term infants are almost entirely missing in the genome set. It is clear that there is a degree of incompleteness in terms of infant conjugative systems in a database consisting of primarily MAGs assembled from non-infant datasets. However, for the non-infant data, the genome set appeared to capture a larger percentage of the conjugative systems. Neither method of identifying and quantifying conjugative systems is perfect; the reference bacterial genome set may be incomplete for less commonly studied cohorts, but the sequencing depth of a single sample may not be sufficient to assemble the less abundant conjugative systems in an environment.

We found that a reference bacterial genome set can be useful for identifying coarse differences in the conjugative systems between populations; however, this method may not capture the true diversity of conjugative between populations, because many conjugative systems may be omitted. To produce MAGs, contigs generated by metagenomic assembly are typically binned using a program such as MetaBAT2 [35]. Conjugative systems are often more AT rich than the parent genomes [1], which would result in the conjugative system and cognate genome not occurring in the same metagenomic bin. Additionally, plasmids are not necessarily maintained in a unit copy number within the cell, causing differential sequence coverage in comparison to the parent genome, which results in plasmids being excluded from MAGs. Therefore to capture a more complete image of the conjugative systems present in an environment, identification of the systems must take place before binning.

The assembled contigs were binned with MetaBAT2 [35] as a way of quantifying the effect of binning, which revealed that the vast majority of the assembled conjugative systems were not included in metagenomic bins and therefore would not be included in a MAG database, which confirms recent findings [23]. Many of the binned conjugative systems were not within a bin that would pass the quality cutoff to be included in the genome set as well [21]. Interestingly, eight of the conjugative systems were binned into low-quality bins that were smaller than <1MB in size, which may suggest that the fragments of a conjugative plasmid could be binned together, which would increase the completeness of the conjugative system.

Conclusions

Conjugative systems differ between cohorts and require special consideration to ensure that they are included in analyses. ICEs and plasmids can carry harmful systems, such as antimicrobial resistance, but also can act as vectors for bile salt metabolism and for detoxification modules [3]. These cargo genes are relevant for research relating to the gut microbiome's role in pathogenicity as well as metabolism and digestion. Comprehensive identification and quantification of conjugative systems could allow for association of conjugative systems with different health outcomes. Because assembled plasmid-based conjugative systems are rarely included in metagenomic bins [23], they need to be identified and analyzed outside of standard binning pipelines. At present, it is not possible to assemble complete plasmids from short-read metagenomic data [20], so it may helpful to identify bins containing conjugative systems in an attempt to cluster the fragments of plasmids present in an assembly together. Identifying type IV conjugative systems using pHMMs or annotations and using tools such as PlasFlow [22] to identify plasmids out of a full assembly in parallel with standard binning analyses will enhance research of the associations between the human gut microbiome and human health.

In the future, improvements in assembly and binning algorithms will continue to improve the recovery of low relative abundance conjugative elements and improve the completeness and accuracy of the assembled fragments. Additionally, long-read assembly permits the circularization of genomes and plasmids [43, 44] and the binning of plasmids to their cognate genomes using methylation data [45], which will reduce the ambiguity of the origins of conjugative systems (i.e. whether they are an ICE or independently circularized plasmid) and provide a more complete picture of the cargo they carry and the differences between cohorts.

Figure 1: Example schematic of the gene organization of a bacterial conjugation system.

Approach 1: Use metagenome database to search for conjugative systems

Approach 2: Assemble raw reads and search assemblies for conjugative systems

Figure 2: Overview of methods employed in this study. In the left panel is the workflow used to identify conjugative systems from previously assembled human gut bacterial genomes. The right panel outlines the workflow for the assembly of select North American samples and the use of pHMMs to identify the conjugative systems.

Figure 3: Anvi'o cladogram of potentially conjugative contigs from 51 North American pre-term infants samples and 50 general North American samples. Inner rings of the phylogram represent individual samples, second-most outer ring being the phylum of conjugative system as predicted by Kaiju, and the outermost ring represents the cohort that the conjugative contig was assembled from. Each slice of the circle phylogram are individual conjugative contig identified by pHMMs of conjugative proteins. For the inner plot, intensity of the position represents the mean coverage of the contig for a given sample proportional to the other conjugative systems.

Figure 4: Clustering of the principal component coordinates of the CLR transformed relative abundances of the extracted conjugative regions from the assemblies of North American datasets. Ellipses represent a 95 percent confidence interval using a multivariate t-distribution.

Figure 5: Anvi'o cladogram of potentially conjugative systems originating from 785 samples across 8 cohorts. Inner rings of the phylogram represent individual samples and the outermost ring being the phylum of conjugative system. Each slice of the circle phylogram are individual conjugative regions. For each point on the inner plot, the intensity of the black colouring represents the mean coverage of the system for a given sample proportional to the other conjugative systems.

Figure 6: Clustering of the principal component coordinates of the CLR transformed relative abundances of the extracted conjugative regions from the genome database. Ellipses represent a 95 percent confidence interval using a multivariate t-distribution.

Figure 7: Plot of the percentage of total reads from North American datasets mapping to conjugative regions extracted from de novo assemblies and the genome set, separated by cohort.

Figure 8: Sankey diagram representing the flow of 364 contigs containing conjugative systems into bins generated by MetaBAT2 from assembled data.

Supplemental Table 1: Accession numbers and cohorts for samples used in *de novo* assembly workflow.

Supplemental Table 2: Accession numbers and cohorts for samples used in reference human gut metagenome set workflows.

Supplemental Table 3: Summary data for all predicted conjugative systems.

Declarations

Ethics approval and consent to participate

Not applicable.

Consent for publication

Not applicable.

Availability of data and materials

All code needed to reproduce the results are available on Github, https://github.com/bjoris33/humanGutConj_mSystems

Competing interests

The authors declare that they have no competing interests.

Funding

Supported by CIHR Project Grant (PJT-159708) to D.R.E. and G.B.G. T.A.H. was supported by an NSERC PGS-D scholarship. B.R.J was supported by the Schulich School of Medicine Dean's Research Scholarship.

Authors' Contributions

BRJ designed the experiments, analyzed and interpreted the data, and wrote the manuscript. TSB analyzed the data. TAH interpreted the data. DRE designed the experiments, interpreted the data, and provided funding. GBG designed the experiments, interpreted the data, edited the manuscript, and provided funding.

Acknowledgements

We thank Daniel Giguere for his input on the analyses and figures.

References

1. Smillie C, Garcillán-Barcia MP, Francia MV, Rocha EPC, Cruz F de la. Mobility of plasmids. *Microbiol Mol Biol Rev.* 2010;74:434–52.
2. Daccord A, Ceccarelli D, Burrus V. Integrating conjugative elements of the sxt/r391 family trigger the excision and drive the mobilization of a new class of vibrio genomic islands. *Mol Microbiol.* 2010;78:576–88.
3. Jiang X, Hall AB, Xavier RJ, Alm EJ. Comprehensive analysis of chromosomal mobile genetic elements in the gut microbiome reveals phylum-level niche-adaptive gene pools. *PLoS One.* 2019;14:e0223680.
4. Neil K, Allard N, Grenier F, Burrus V, Rodrigue S. Highly efficient gene transfer in the mouse gut microbiota is enabled by the incl2 conjugative plasmid tp114. *Commun Biol.* 2020;3:523.
5. Hamilton TA, Pellegrino GM, Therrien JA, Ham DT, Bartlett PC, Karas BJ, et al. Efficient inter-species conjugative transfer of a crispr nuclease for targeted bacterial killing. *Nat Commun.* 2019;10:4544.
6. Peters JM, Koo B-M, Patino R, Heussler GE, Hearne CC, Qu J, et al. Enabling genetic analysis of diverse bacteria with mobile-crispri. *Nat Microbiol.* 2019;4:244–50.
7. Citorik RJ, Mimee M, Lu TK. Sequence-specific antimicrobials using efficiently delivered rna-guided nucleases. *Nat Biotechnol.* 2014;32:1141–5.
8. Bikard D, Euler CW, Jiang W, Nussenzweig PM, Goldberg GW, Duportet X, et al. Exploiting crispr-cas nucleases to produce sequence-specific antimicrobials. *Nat Biotechnol.* 2014;32:1146–50.
9. Goma AA, Klumpe HE, Luo ML, Selle K, Barrangou R, Beisel CL. Programmable removal of bacterial strains by use of genome-targeting crispr-cas systems. *mBio.* 2014;5:e00928–13.
10. Francia MV, Varsaki A, Garcillán-Barcia MP, Latorre A, Drainas C, Cruz F de la. A classification scheme for mobilization regions of bacterial plasmids. *FEMS Microbiol Rev.* 2004;28:79–100.
11. Nash RP, Habibi S, Cheng Y, Lujan SA, Redinbo MR. The mechanism and control of DNA transfer by the conjugative relaxase of resistance plasmid pCU1. *Nucleic Acids Res.* 2010;38:5929–43.
12. Becker EC, Meyer RJ. Recognition of oriT for DNA processing at termination of a round of conjugal transfer. *J Mol Biol.* 2000;300:1067–77.
13. Fronzes R, Christie PJ, Waksman G. The structural biology of type IV secretion systems. *Nat Rev Microbiol.* 2009;7:703–14.

14. Cabezón E, Ripoll-Rozada J, Peña A, Cruz F de la, Arechaga I. Towards an integrated model of bacterial conjugation. *FEMS Microbiol Rev.* 2015;39:81–95.
15. Bhatti M, Laverde Gomez JA, Christie PJ. The expanding bacterial type IV secretion lexicon. *Res Microbiol.* 164:620–39.
16. Guglielmini J, Cruz F de la, Rocha EPC. Evolution of conjugation and type IV secretion systems. *Mol Biol Evol.* 2013;30:315–31.
17. Guglielmini J, Quintais L, Garcillán-Barcia MP, Cruz F de la, Rocha EPC. The repertoire of ICE in prokaryotes underscores the unity, diversity, and ubiquity of conjugation. *PLoS Genet.* 2011;7:e1002222.
18. Shterzer N, Mizrahi I. The animal gut as a melting pot for horizontal gene transfer. *Can J Microbiol.* 2015;61:603–5.
19. Kaufman JH, Terrizzano I, Nayar G, Seabolt E, Agarwal A, Slizovskiy IB, et al. Integrative and conjugative elements (ice) and associated cargo genes within and across hundreds of bacterial genera. *bioRxiv.* 2020. doi:10.1101/2020.04.07.030320.
20. Arredondo-Alonso S, Willems RJ, Schaik W van, Schürch AC. On the (im)possibility of reconstructing plasmids from whole-genome short-read sequencing data. *Microb Genom.* 2017;3:e000128.
21. Almeida A, Mitchell AL, Boland M, Forster SC, Gloor GB, Tarkowska A, et al. A new genomic blueprint of the human gut microbiota. *Nature.* 2019;568:499–504.
22. Krawczyk PS, Lipinski L, Dziembowski A. PlasFlow: Predicting plasmid sequences in metagenomic data using genome signatures. *Nucleic Acids Res.* 2018;46:e35.
23. Maguire F, Jia B, Gray KL, Lau WYV, Beiko RG, Brinkman FSL. Metagenome-assembled genome binning methods with short reads disproportionately fail for plasmids and genomic islands. *Microb Genom.* 2020;6.
24. Suzek BE, Wang Y, Huang H, McGarvey PB, Wu CH, UniProt Consortium. UniRef clusters: A comprehensive and scalable alternative for improving sequence similarity searches. *Bioinformatics.* 2015;31:926–32.
25. Bushnell B, Rood J, Singer E. BBMerge - accurate paired shotgun read merging via overlap. *PLoS One.* 2017;12:e0185056.
26. Bolger AM, Lohse M, Usadel B. Trimmomatic: A flexible trimmer for illumina sequence data. *Bioinformatics.* 2014;30:2114–20.
27. Nurk S, Meleshko D, Korobeynikov A, Pevzner PA. MetaSPAdes: A new versatile metagenomic assembler. *Genome Res.* 2017;27:824–34.
28. Eren AM, Esen ÖC, Quince C, Vineis JH, Morrison HG, Sogin ML, et al. Anvi'o: An advanced analysis and visualization platform for 'omics data. *PeerJ.* 2015;3:e1319.

29. Eddy SR. Accelerated profile HMM searches. *PLoS Comput Biol.* 2011;7:e1002195.
30. Hyatt D, Chen G-L, Locascio PF, Land ML, Larimer FW, Hauser LJ. Prodigal: Prokaryotic gene recognition and translation initiation site identification. *BMC Bioinformatics.* 2010;11:119.
31. Langmead B, Salzberg SL. Fast gapped-read alignment with Bowtie 2. *Nat Methods.* 2012;9:357–9.
32. Menzel P, Ng KL, Krogh A. Fast and sensitive taxonomic classification for metagenomics with Kaiju. *Nat Commun.* 2016;7:11257.
33. Robertson J, Bessonov K, Schonfeld J, Nash JHE. Universal whole-sequence-based plasmid typing and its utility to prediction of host range and epidemiological surveillance. *Microb Genom.* 2020;6.
34. McInnes L, Healy J, Astels S. hdbscan: Hierarchical density based clustering. *Journal of Open Source Software.* 2017;2:205. doi:10.21105/joss.00205.
35. Kang DD, Li F, Kirton E, Thomas A, Egan R, An H, et al. MetaBAT 2: An adaptive binning algorithm for robust and efficient genome reconstruction from metagenome assemblies. *PeerJ.* 2019;7:e7359.
36. Parks DH, Imelfort M, Skennerton CT, Hugenholtz P, Tyson GW. CheckM: Assessing the quality of microbial genomes recovered from isolates, single cells, and metagenomes. *Genome Res.* 2015;25:1043–55.
37. Olm MR, Brown CT, Brooks B, Banfield JF. DRep: A tool for fast and accurate genomic comparisons that enables improved genome recovery from metagenomes through de-replication. *ISME J.* 2017;11:2864–8.
38. Buchfink B, Xie C, Huson DH. Fast and sensitive protein alignment using DIAMOND. *Nat Methods.* 2015;12:59–60.
39. Li H, Handsaker B, Wysoker A, Fennell T, Ruan J, Homer N, et al. The sequence alignment/map format and SAMtools. *Bioinformatics.* 2009;25:2078–9.
40. Pasoli E, Asnicar F, Manara S, Zolfo M, Karcher N, Armanini F, et al. Extensive unexplored human microbiome diversity revealed by over 150,000 genomes from metagenomes spanning age, geography, and lifestyle. *Cell.* 2019;176:649–662.e20.
41. Milani C, Duranti S, Bottacini F, Casey E, Turrone F, Mahony J, et al. The first microbial colonizers of the human gut: Composition, activities, and health implications of the infant gut microbiota. *Microbiol Mol Biol Rev.* 2017;81.
42. Gibson MK, Wang B, Ahmadi S, Burnham C-AD, Tarr PI, Warner BB, et al. Developmental dynamics of the preterm infant gut microbiota and antibiotic resistome. *Nat Microbiol.* 2016;1:16024.
43. Moss EL, Maghini DG, Bhatt AS. Complete, closed bacterial genomes from microbiomes using nanopore sequencing. *Nature Biotechnology.* 2020. doi:10.1038/s41587-020-0422-6.
44. Giguere DJ, Bahcheli AT, Joris BR, Paulssen JM, Gieg LM, Flatley MW, et al. Complete and validated genomes from a metagenome. *bioRxiv.* 2020. doi:10.1101/2020.04.08.032540.

- 395 45. Beaulaurier J, Zhu S, Deikus G, Mogno I, Zhang X-S, Davis-Richardson A, et al. Metagenomic binning
396 and association of plasmids with bacterial host genomes using dna methylation. Nat Biotechnol. 2018;36:61–
397 9.

Figure 1: Conceptual diagram of the mapping coverage of an assembled integrative and conjugative element. The mapping coverage in the first plot shows an even mapping coverage across the contig because the ICE is present in the sample and the average mapping coverage of the contig would be an accurate metric. In the second plot, the ICE is missing in the sample and the mapping coverage falls to zero where the ICE is located on the contig. As a way to quantify the presence of the ICE, the average mapping coverage for the entire contig would be artificially high. Limiting the mapping to only the region containing the conjugative proteins solves this issue.

Figure 2: Stacked bar plot of the proportions of samples belonging to the hdbscan clusters from each cohort.

Figure 3: Stacked bar plot of the proportions of samples belonging to the hdbscan clusters from each cohort.

SRR3131692	pre-term	infant
SRR3131694	pre-term	infant
SRR3131696	pre-term	infant
SRR3131698	pre-term	infant
SRR3131700	pre-term	infant
SRR3131702	pre-term	infant
SRR3131704	pre-term	infant
SRR3131706	pre-term	infant
SRR3131708	pre-term	infant
SRR3131710	pre-term	infant
SRR3131712	pre-term	infant
SRR3131714	pre-term	infant
SRR3131716	pre-term	infant
SRR3131718	pre-term	infant
SRR3131720	pre-term	infant
SRR3131722	pre-term	infant
SRR3131724	pre-term	infant
SRR3131726	pre-term	infant
SRR3131728	pre-term	infant
SRR3131730	pre-term	infant
SRR3131732	pre-term	infant
SRR3131734	pre-term	infant
SRR3131736	pre-term	infant
SRR3131738	pre-term	infant
SRR3131740	pre-term	infant
SRR3131742	pre-term	infant
SRR3131744	pre-term	infant
SRR3131746	pre-term	infant
SRR3131748	pre-term	infant
SRR3131750	pre-term	infant
SRR3131752	pre-term	infant
SRR3131754	pre-term	infant
SRR3131756	pre-term	infant
SRR3131758	pre-term	infant
SRR3131760	pre-term	infant
SRR3131762	pre-term	infant
SRR3131764	pre-term	infant
SRR3131766	pre-term	infant
SRR3131768	pre-term	infant
SRR3131770	pre-term	infant
SRR3131772	pre-term	infant
SRR3131774	pre-term	infant
SRR3131776	pre-term	infant
SRR3131778	pre-term	infant
SRR3131780	pre-term	infant
SRR3131782	pre-term	infant
SRR3131784	pre-term	infant
SRR3131786	pre-term	infant
SRR3131788	pre-term	infant
SRR3131790	pre-term	infant
SRR3131812	pre-term	infant
SRR5650110	general	
SRR5650111	general	
SRR5650112	general	

SRR5650113	general
SRR5650114	general
SRR5650115	general
SRR5650116	general
SRR5650117	general
SRR5650118	general
SRR5650119	general
SRR5650120	general
SRR5650121	general
SRR5650122	general
SRR5650123	general
SRR5650124	general
SRR5650125	general
SRR5650126	general
SRR5650127	general
SRR5650128	general
SRR5650129	general
SRR5650130	general
SRR5650131	general
SRR5650132	general
SRR5650133	general
SRR5650134	general
SRR5650135	general
SRR5650136	general
SRR5650137	general
SRR5650138	general
SRR5650139	general
SRR5650140	general
SRR5650141	general
SRR5650142	general
SRR5650143	general
SRR5650144	general
SRR5650145	general
SRR5650146	general
SRR5650147	general
SRR5650148	general
SRR5650149	general
SRR5650150	general
SRR5650151	general
SRR5650152	general
SRR5650153	general
SRR5650154	general
SRR5650155	general
SRR5650156	general
SRR5650157	general
SRR5650158	general
SRR5650159	general

ERR260132	Western European
ERR260133	Western European
ERR260134	Western European
ERR260135	Western European
ERR260136	Western European
ERR260137	Western European
ERR260138	Western European
ERR260139	Western European
ERR260140	Western European
ERR260141	Western European
ERR260142	Western European
ERR260143	Western European
ERR260144	Western European
ERR260145	Western European
ERR260146	Western European
ERR260147	Western European
ERR260148	Western European
ERR260149	Western European
ERR260150	Western European
ERR260151	Western European
ERR260152	Western European
ERR260153	Western European
ERR260154	Western European
ERR260155	Western European
ERR260156	Western European
ERR260157	Western European
ERR260158	Western European
ERR260159	Western European
ERR260160	Western European
ERR260161	Western European
ERR260162	Western European
ERR260163	Western European
ERR260164	Western European
ERR260165	Western European
ERR260166	Western European
ERR260167	Western European
ERR260168	Western European
ERR260169	Western European
ERR260170	Western European
ERR260171	Western European
ERR260172	Western European
ERR260173	Western European
ERR260174	Western European
ERR260175	Western European
ERR260176	Western European
ERR260177	Western European
ERR260178	Western European
ERR260179	Western European
ERR260180	Western European
ERR260181	Western European
ERR260182	Western European
ERR260183	Western European
ERR260184	Western European
ERR260185	Western European

ERR260186	Western European
ERR260187	Western European
ERR260188	Western European
ERR260189	Western European
ERR260190	Western European
ERR260191	Western European
ERR260192	Western European
ERR260193	Western European
ERR260194	Western European
ERR260195	Western European
ERR260196	Western European
ERR260197	Western European
ERR260198	Western European
ERR260199	Western European
ERR260200	Western European
ERR260201	Western European
ERR260202	Western European
ERR260203	Western European
ERR260204	Western European
ERR260205	Western European
ERR260206	Western European
ERR260207	Western European
ERR260208	Western European
ERR260209	Western European
ERR260210	Western European
ERR260211	Western European
ERR260214	Western European
ERR260215	Western European
ERR260216	Western European
ERR260217	Western European
ERR260218	Western European
ERR260219	Western European
ERR260220	Western European
ERR260221	Western European
ERR260222	Western European
ERR260223	Western European
ERR260224	Western European
ERR260225	Western European
ERR260226	Western European
ERR260227	Western European
ERR260228	Western European
ERR260229	Western European
ERR260230	Western European
ERR260231	Western European
ERR260232	Western European
ERR260233	Western European
SRR1761664	South American
SRR1761665	South American
SRR1761666	South American
SRR1761667	South American
SRR1761668	South American
SRR1761669	South American
SRR1761670	South American
SRR1761671	South American

SRR1761672	South American
SRR1761674	South American
SRR1761675	South American
SRR1761698	South American
SRR1761699	South American
SRR1761700	South American
SRR1761701	South American
SRR1761702	South American
SRR1761703	South American
SRR1761704	South American
SRR1761706	South American
SRR1761707	South American
SRR1761708	South American
SRR1761709	South American
SRR1761710	South American
SRR1761711	South American
SRR1761712	South American
SRR1761713	South American
SRR1761714	South American
SRR1761716	South American
SRR1761717	South American
SRR1761718	South American
SRR1761719	South American
SRR1761720	South American
SRR1761721	South American
SRR3131692	North American Pre-term Infant
SRR3131694	North American Pre-term Infant
SRR3131696	North American Pre-term Infant
SRR3131698	North American Pre-term Infant
SRR3131700	North American Pre-term Infant
SRR3131702	North American Pre-term Infant
SRR3131704	North American Pre-term Infant
SRR3131706	North American Pre-term Infant
SRR3131708	North American Pre-term Infant
SRR3131710	North American Pre-term Infant
SRR3131712	North American Pre-term Infant
SRR3131714	North American Pre-term Infant
SRR3131716	North American Pre-term Infant
SRR3131718	North American Pre-term Infant
SRR3131720	North American Pre-term Infant
SRR3131722	North American Pre-term Infant
SRR3131724	North American Pre-term Infant
SRR3131726	North American Pre-term Infant
SRR3131728	North American Pre-term Infant
SRR3131730	North American Pre-term Infant
SRR3131732	North American Pre-term Infant
SRR3131734	North American Pre-term Infant
SRR3131736	North American Pre-term Infant
SRR3131738	North American Pre-term Infant
SRR3131740	North American Pre-term Infant
SRR3131742	North American Pre-term Infant
SRR3131744	North American Pre-term Infant
SRR3131746	North American Pre-term Infant
SRR3131748	North American Pre-term Infant

SRR3131750	North American	Pre-term	Infant
SRR3131752	North American	Pre-term	Infant
SRR3131754	North American	Pre-term	Infant
SRR3131756	North American	Pre-term	Infant
SRR3131758	North American	Pre-term	Infant
SRR3131760	North American	Pre-term	Infant
SRR3131762	North American	Pre-term	Infant
SRR3131764	North American	Pre-term	Infant
SRR3131766	North American	Pre-term	Infant
SRR3131768	North American	Pre-term	Infant
SRR3131770	North American	Pre-term	Infant
SRR3131772	North American	Pre-term	Infant
SRR3131774	North American	Pre-term	Infant
SRR3131776	North American	Pre-term	Infant
SRR3131778	North American	Pre-term	Infant
SRR3131780	North American	Pre-term	Infant
SRR3131782	North American	Pre-term	Infant
SRR3131784	North American	Pre-term	Infant
SRR3131786	North American	Pre-term	Infant
SRR3131788	North American	Pre-term	Infant
SRR3131790	North American	Pre-term	Infant
SRR1778451	East Asian		
SRR1778452	East Asian		
SRR1778453	East Asian		
SRR1778454	East Asian		
SRR1778455	East Asian		
SRR1778456	East Asian		
SRR1927149	West African		
SRR1929408	West African		
SRR1929484	West African		
SRR1929485	West African		
SRR1929563	West African		
SRR1929574	West African		
SRR1930121	West African		
SRR1930122	West African		
SRR1930123	West African		
SRR1930128	West African		
SRR1930132	West African		
SRR1930133	West African		
SRR1930134	West African		
SRR1930136	West African		
SRR1930138	West African		
SRR1930140	West African		
SRR1930141	West African		
SRR1930142	West African		
SRR1930143	West African		
SRR1930144	West African		
SRR1930145	West African		
SRR1930149	West African		
SRR1930176	West African		
SRR1930177	West African		
SRR1930179	West African		
SRR1930187	West African		
SRR1930244	West African		

SRR2912775	North American Indigenous
SRR2912776	North American Indigenous
SRR2912777	North American Indigenous
SRR2912778	North American Indigenous
SRR2912779	North American Indigenous
SRR2912780	North American Indigenous
SRR2912781	North American Indigenous
SRR2912782	North American Indigenous
SRR2912783	North American Indigenous
SRR2912784	North American Indigenous
SRR2912785	North American Indigenous
SRR2912786	North American Indigenous
SRR2912787	North American Indigenous
SRR2912788	North American Indigenous
SRR2912789	North American Indigenous
SRR2912790	North American Indigenous
SRR2912791	North American Indigenous
SRR2912792	North American Indigenous
SRR2912793	North American Indigenous
SRR2912794	North American Indigenous
SRR2912795	North American Indigenous
SRR2912796	North American Indigenous
SRR2912797	North American Indigenous
SRR2912798	North American Indigenous
SRR2912799	North American Indigenous
SRR2912800	North American Indigenous
SRR2912801	North American Indigenous
SRR2912802	North American Indigenous
SRR2912803	North American Indigenous
SRR2912804	North American Indigenous
SRR2912805	North American Indigenous
SRR2912806	North American Indigenous
SRR2912807	North American Indigenous
SRR2912809	North American Indigenous
SRR2912810	North American Indigenous
SRR2912811	North American Indigenous
SRR3131792	North American Pre-term Infant
SRR3131794	North American Pre-term Infant
SRR3131796	North American Pre-term Infant
SRR3131798	North American Pre-term Infant
SRR3131800	North American Pre-term Infant
SRR3131802	North American Pre-term Infant
SRR3131804	North American Pre-term Infant
SRR3131806	North American Pre-term Infant
SRR3131808	North American Pre-term Infant
SRR3131810	North American Pre-term Infant
SRR3131812	North American Pre-term Infant
SRR3131814	North American Pre-term Infant
SRR3131816	North American Pre-term Infant
SRR3131818	North American Pre-term Infant
SRR3131820	North American Pre-term Infant
SRR3131822	North American Pre-term Infant
SRR3131824	North American Pre-term Infant
SRR3131826	North American Pre-term Infant

SRR3131828	North American	Pre-term	Infant
SRR3131830	North American	Pre-term	Infant
SRR3131832	North American	Pre-term	Infant
SRR3131834	North American	Pre-term	Infant
SRR3131836	North American	Pre-term	Infant
SRR3131838	North American	Pre-term	Infant
SRR3131840	North American	Pre-term	Infant
SRR3131842	North American	Pre-term	Infant
SRR3131844	North American	Pre-term	Infant
SRR3131846	North American	Pre-term	Infant
SRR3131848	North American	Pre-term	Infant
SRR3131850	North American	Pre-term	Infant
SRR3131852	North American	Pre-term	Infant
SRR3131854	North American	Pre-term	Infant
SRR3131856	North American	Pre-term	Infant
SRR3131858	North American	Pre-term	Infant
SRR3131860	North American	Pre-term	Infant
SRR3131862	North American	Pre-term	Infant
SRR3131864	North American	Pre-term	Infant
SRR3131866	North American	Pre-term	Infant
SRR3131868	North American	Pre-term	Infant
SRR3131870	North American	Pre-term	Infant
SRR3131872	North American	Pre-term	Infant
SRR3131874	North American	Pre-term	Infant
SRR3131876	North American	Pre-term	Infant
SRR3131878	North American	Pre-term	Infant
SRR3131880	North American	Pre-term	Infant
SRR3131882	North American	Pre-term	Infant
SRR3131884	North American	Pre-term	Infant
SRR3131886	North American	Pre-term	Infant
SRR3131888	North American	Pre-term	Infant
SRR3131890	North American	Pre-term	Infant
SRR3131892	North American	Pre-term	Infant
SRR341581	East Asian		
SRR341582	East Asian		
SRR341583	East Asian		
SRR341584	East Asian		
SRR341585	East Asian		
SRR341586	East Asian		
SRR341587	East Asian		
SRR341588	East Asian		
SRR341589	East Asian		
SRR341590	East Asian		
SRR341591	East Asian		
SRR341592	East Asian		
SRR341593	East Asian		
SRR341594	East Asian		
SRR341595	East Asian		
SRR341596	East Asian		
SRR341597	East Asian		
SRR341598	East Asian		
SRR341599	East Asian		
SRR341600	East Asian		
SRR341601	East Asian		

SRR341602	East Asian
SRR341603	East Asian
SRR341604	East Asian
SRR341605	East Asian
SRR341606	East Asian
SRR341607	East Asian
SRR341608	East Asian
SRR341609	East Asian
SRR341610	East Asian
SRR341611	East Asian
SRR341612	East Asian
SRR341613	East Asian
SRR341614	East Asian
SRR341615	East Asian
SRR341616	East Asian
SRR341617	East Asian
SRR341618	East Asian
SRR341619	East Asian
SRR341620	East Asian
SRR341621	East Asian
SRR341622	East Asian
SRR341623	East Asian
SRR341624	East Asian
SRR341625	East Asian
SRR341626	East Asian
SRR341627	East Asian
SRR341628	East Asian
SRR341629	East Asian
SRR341630	East Asian
SRR341631	East Asian
SRR341632	East Asian
SRR341633	East Asian
SRR341634	East Asian
SRR341635	East Asian
SRR341636	East Asian
SRR341637	East Asian
SRR341638	East Asian
SRR341639	East Asian
SRR341640	East Asian
SRR341641	East Asian
SRR341642	East Asian
SRR341643	East Asian
SRR341644	East Asian
SRR341645	East Asian
SRR341646	East Asian
SRR341647	East Asian
SRR341648	East Asian
SRR341649	East Asian
SRR341650	East Asian
SRR341651	East Asian
SRR341652	East Asian
SRR341653	East Asian
SRR341654	East Asian
SRR341655	East Asian

SRR341656	East Asian
SRR341657	East Asian
SRR341658	East Asian
SRR341659	East Asian
SRR341660	East Asian
SRR341661	East Asian
SRR341662	East Asian
SRR341663	East Asian
SRR341664	East Asian
SRR341665	East Asian
SRR341666	East Asian
SRR341667	East Asian
SRR341668	East Asian
SRR341669	East Asian
SRR341670	East Asian
SRR341671	East Asian
SRR341672	East Asian
SRR341673	East Asian
SRR341674	East Asian
SRR341675	East Asian
SRR341676	East Asian
SRR341677	East Asian
SRR341678	East Asian
SRR341679	East Asian
SRR341680	East Asian
SRR341681	East Asian
SRR341682	East Asian
SRR341683	East Asian
SRR341684	East Asian
SRR341685	East Asian
SRR341686	East Asian
SRR341687	East Asian
SRR341688	East Asian
SRR341689	East Asian
SRR341690	East Asian
SRR341691	East Asian
SRR341692	East Asian
SRR341693	East Asian
SRR341694	East Asian
SRR341695	East Asian
SRR341696	East Asian
SRR341697	East Asian
SRR341698	East Asian
SRR341699	East Asian
SRR341700	East Asian
SRR341701	East Asian
SRR341702	East Asian
SRR341703	East Asian
SRR341704	East Asian
SRR341705	East Asian
SRR341706	East Asian
SRR341707	East Asian
SRR341708	East Asian
SRR341709	East Asian

SRR341710	East Asian
SRR341711	East Asian
SRR341712	East Asian
SRR341713	East Asian
SRR341714	East Asian
SRR341715	East Asian
SRR341716	East Asian
SRR341717	East Asian
SRR341718	East Asian
SRR341719	East Asian
SRR341720	East Asian
SRR341721	East Asian
SRR341722	East Asian
SRR341723	East Asian
SRR341724	East Asian
SRR341725	East Asian
SRR413615	East Asian
SRR413626	East Asian
SRR413631	East Asian
SRR413632	East Asian
SRR413633	East Asian
SRR413634	East Asian
SRR413668	East Asian
SRR413669	East Asian
SRR413670	East Asian
SRR413671	East Asian
SRR413672	East Asian
SRR413724	East Asian
SRR413725	East Asian
SRR413726	East Asian
SRR413727	East Asian
SRR413730	East Asian
SRR413731	East Asian
SRR5597270	Western European Infant
SRR5597271	Western European Infant
SRR5597272	Western European Infant
SRR5597273	Western European Infant
SRR5597274	Western European Infant
SRR5597275	Western European Infant
SRR5597276	Western European Infant
SRR5597277	Western European Infant
SRR5597278	Western European Infant
SRR5597279	Western European Infant
SRR5597280	Western European Infant
SRR5597281	Western European Infant
SRR5597282	Western European Infant
SRR5597283	Western European Infant
SRR5597284	Western European Infant
SRR5597285	Western European Infant
SRR5597286	Western European Infant
SRR5597287	Western European Infant
SRR5597288	Western European Infant
SRR5597289	Western European Infant
SRR5597290	Western European Infant

SRR5597291	Western European Infant
SRR5597292	Western European Infant
SRR5597293	Western European Infant
SRR5597294	Western European Infant
SRR5597295	Western European Infant
SRR5597296	Western European Infant
SRR5597297	Western European Infant
SRR5597298	Western European Infant
SRR5597299	Western European Infant
SRR5597300	Western European Infant
SRR5597301	Western European Infant
SRR5597302	Western European Infant
SRR5597303	Western European Infant
SRR5597304	Western European Infant
SRR5597305	Western European Infant
SRR5597306	Western European Infant
SRR5597307	Western European Infant
SRR5597308	Western European Infant
SRR5597309	Western European Infant
SRR5597310	Western European Infant
SRR5597311	Western European Infant
SRR5597312	Western European Infant
SRR5597313	Western European Infant
SRR5597314	Western European Infant
SRR5597315	Western European Infant
SRR5597316	Western European Infant
SRR5597317	Western European Infant
SRR5597318	Western European Infant
SRR5597319	Western European Infant
SRR5597320	Western European Infant
SRR5597321	Western European Infant
SRR5597322	Western European Infant
SRR5597323	Western European Infant
SRR5597324	Western European Infant
SRR5597325	Western European Infant
SRR5597326	Western European Infant
SRR5597327	Western European Infant
SRR5597328	Western European Infant
SRR5597329	Western European Infant
SRR5597330	Western European Infant
SRR5597331	Western European Infant
SRR5597332	Western European Infant
SRR5597333	Western European Infant
SRR5597334	Western European Infant
SRR5597335	Western European Infant
SRR5597336	Western European Infant
SRR5597337	Western European Infant
SRR5597338	Western European Infant
SRR5597339	Western European Infant
SRR5597340	Western European Infant
SRR5597341	Western European Infant
SRR5597342	Western European Infant
SRR5597343	Western European Infant
SRR5597344	Western European Infant

SRR5597345	Western European Infant
SRR5597346	Western European Infant
SRR5597347	Western European Infant
SRR5597348	Western European Infant
SRR5597349	Western European Infant
SRR5597350	Western European Infant
SRR5597351	Western European Infant
SRR5597352	Western European Infant
SRR5597353	Western European Infant
SRR5597354	Western European Infant
SRR5597355	Western European Infant
SRR5597356	Western European Infant
SRR5597357	Western European Infant
SRR5597358	Western European Infant
SRR5597359	Western European Infant
SRR5597360	Western European Infant
SRR5597361	Western European Infant
SRR5597362	Western European Infant
SRR5597363	Western European Infant
SRR5597364	Western European Infant
SRR5597365	Western European Infant
SRR5597366	Western European Infant
SRR5597367	Western European Infant
SRR5597368	Western European Infant
SRR5597369	Western European Infant
SRR5597370	Western European Infant
SRR5597371	Western European Infant
SRR5597372	Western European Infant
SRR5597373	Western European Infant
SRR5597374	Western European Infant
SRR5597375	Western European Infant
SRR5597376	Western European Infant
SRR5597377	Western European Infant
SRR5597378	Western European Infant
SRR5597379	Western European Infant
SRR5597380	Western European Infant
SRR5597381	Western European Infant
SRR5597382	Western European Infant
SRR5597383	Western European Infant
SRR5597384	Western European Infant
SRR5597385	Western European Infant
SRR5597386	Western European Infant
SRR5597387	Western European Infant
SRR5597388	Western European Infant
SRR5597389	Western European Infant
SRR5597390	Western European Infant
SRR5597391	Western European Infant
SRR5597392	Western European Infant
SRR5597393	Western European Infant
SRR5597394	Western European Infant
SRR5597395	Western European Infant
SRR5597396	Western European Infant
SRR5597397	Western European Infant
SRR5597398	Western European Infant

SRR5597399	Western European Infant
SRR5597400	Western European Infant
SRR5597401	Western European Infant
SRR5597402	Western European Infant
SRR5597403	Western European Infant
SRR5597404	Western European Infant
SRR5597405	Western European Infant
SRR5597406	Western European Infant
SRR5597407	Western European Infant
SRR5597408	Western European Infant
SRR5597409	Western European Infant
SRR5597410	Western European Infant
SRR5597411	Western European Infant
SRR5597412	Western European Infant
SRR5597413	Western European Infant
SRR5597414	Western European Infant
SRR5597415	Western European Infant
SRR5597416	Western European Infant
SRR5597417	Western European Infant
SRR5597418	Western European Infant
SRR5597419	Western European Infant
SRR5597420	Western European Infant
SRR5597421	Western European Infant
SRR5597422	Western European Infant
SRR5597423	Western European Infant
SRR5597424	Western European Infant
SRR5597425	Western European Infant
SRR5597426	Western European Infant
SRR5597427	Western European Infant
SRR5597428	Western European Infant
SRR5597429	Western European Infant
SRR5597430	Western European Infant
SRR5597431	Western European Infant
SRR5597432	Western European Infant
SRR5597433	Western European Infant
SRR5597434	Western European Infant
SRR5597435	Western European Infant
SRR5597436	Western European Infant
SRR5597437	Western European Infant
SRR5597438	Western European Infant
SRR5621369	Western European Infant
SRR5621370	Western European Infant
SRR5621371	Western European Infant
SRR5621372	Western European Infant
SRR5621373	Western European Infant
SRR5621374	Western European Infant
SRR5621375	Western European Infant
SRR5621376	Western European Infant
SRR5621377	Western European Infant
SRR5621378	Western European Infant
SRR5621379	Western European Infant
SRR5621380	Western European Infant
SRR5621381	Western European Infant
SRR5621382	Western European Infant

SRR5621383	Western European Infant
SRR5621384	Western European Infant
SRR5621385	Western European Infant
SRR5621386	Western European Infant
SRR5621387	Western European Infant
SRR5621388	Western European Infant
SRR5621389	Western European Infant
SRR5621390	Western European Infant
SRR5621391	Western European Infant
SRR5621392	Western European Infant
SRR5621393	Western European Infant
SRR5621394	Western European Infant
SRR5621395	Western European Infant
SRR5621396	Western European Infant
SRR5621397	Western European Infant
SRR5621398	Western European Infant
SRR5621399	Western European Infant
SRR5621400	Western European Infant
SRR5621401	Western European Infant
SRR5621402	Western European Infant
SRR5621403	Western European Infant
SRR5621404	Western European Infant
SRR5621405	Western European Infant
SRR5621406	Western European Infant
SRR5621407	Western European Infant
SRR5621408	Western European Infant
SRR5621409	Western European Infant
SRR5621410	Western European Infant
SRR5621411	Western European Infant
SRR5621412	Western European Infant
SRR5621413	Western European Infant
SRR5621414	Western European Infant
SRR5621415	Western European Infant
SRR5621416	Western European Infant
SRR5621417	Western European Infant
SRR5621418	Western European Infant
SRR5621419	Western European Infant
SRR5650021	North American
SRR5650022	North American
SRR5650023	North American
SRR5650024	North American
SRR5650025	North American
SRR5650026	North American
SRR5650027	North American
SRR5650028	North American
SRR5650029	North American
SRR5650030	North American
SRR5650031	North American
SRR5650032	North American
SRR5650033	North American
SRR5650034	North American
SRR5650035	North American
SRR5650036	North American
SRR5650037	North American

SRR5650038	North American
SRR5650039	North American
SRR5650040	North American
SRR5650041	North American
SRR5650042	North American
SRR5650043	North American
SRR5650044	North American
SRR5650045	North American
SRR5650046	North American
SRR5650047	North American
SRR5650048	North American
SRR5650049	North American
SRR5650050	North American
SRR5650051	North American
SRR5650052	North American
SRR5650053	North American
SRR5650054	North American
SRR5650055	North American
SRR5650056	North American
SRR5650057	North American
SRR5650058	North American
SRR5650059	North American
SRR5650060	North American
SRR5650061	North American
SRR5650062	North American
SRR5650063	North American
SRR5650064	North American
SRR5650065	North American
SRR5650066	North American
SRR5650067	North American
SRR5650068	North American
SRR5650069	North American
SRR5650070	North American
SRR5650071	North American
SRR5650072	North American
SRR5650073	North American
SRR5650074	North American
SRR5650075	North American
SRR5650076	North American
SRR5650077	North American
SRR5650078	North American
SRR5650079	North American
SRR5650080	North American
SRR5650081	North American
SRR5650082	North American
SRR5650083	North American
SRR5650084	North American
SRR5650085	North American
SRR5650086	North American
SRR5650087	North American
SRR5650088	North American
SRR5650089	North American
SRR5650090	North American
SRR5650091	North American

SRR5650092	North American
SRR5650093	North American
SRR5650094	North American
SRR5650095	North American
SRR5650096	North American
SRR5650097	North American
SRR5650098	North American
SRR5650099	North American
SRR5650100	North American
SRR5650101	North American
SRR5650102	North American
SRR5650103	North American
SRR5650104	North American
SRR5650105	North American
SRR5650106	North American
SRR5650107	North American
SRR5650108	North American
SRR5650109	North American
SRR5650110	North American
SRR5650111	North American
SRR5650112	North American
SRR5650113	North American
SRR5650114	North American
SRR5650115	North American
SRR5650116	North American
SRR5650117	North American
SRR5650118	North American
SRR5650119	North American
SRR5650120	North American

Source Phylum	Length	Incompatibility Group	Predicted Plasmid/ICE
adult_c_000000000801	De Novo Assembled16692	N/A	ICE Bacteroidetes
adult_c_000002956380	De Novo Assembled29102	N/A	ICE NA
adult_c_000007050851	De Novo Assembled26186	N/A	ICE Bacteroidetes
infant_c_000000224801	De Novo Assembled70278	N/A	ICE Firmicutes
infant_c_000000205424	De Novo Assembled116879		IncFII, IncFIIA, IncFIB
Plasmid Proteobacteria			
infant_c_000000303989	De Novo Assembled116830		IncFIB, IncFII, IncFIIA
Plasmid Proteobacteria			
adult_c_000008175705	De Novo Assembled19378	N/A	ICE Firmicutes
adult_c_000008893813	De Novo Assembled77033	N/A	ICE Firmicutes
adult_c_000003513025	De Novo Assembled153500		N/A ICE
Bacteroidetes			
adult_c_000010613334	De Novo Assembled29291	N/A	ICE Firmicutes
adult_c_000010993363	De Novo Assembled115627		N/A ICE Firmicutes
adult_c_000014022235	De Novo Assembled38860	N/A	ICE Firmicutes
infant_c_000000304131	De Novo Assembled21352	IncN	Plasmid
Proteobacteria			
adult_c_000005638975	De Novo Assembled57539	N/A	ICE Bacteroidetes
adult_c_000013226111	De Novo Assembled31783	N/A	N/A Firmicutes
adult_c_000008893570	De Novo Assembled141588		N/A ICE Firmicutes
infant_c_000000374357	De Novo Assembled8493	N/A	Plasmid Firmicutes
adult_c_000014234633	De Novo Assembled15557	N/A	ICE Bacteroidetes
infant_c_000000193721	De Novo Assembled23740	N/A	Plasmid NA
infant_c_000000466735	De Novo Assembled42634	N/A	Plasmid
Proteobacteria			
adult_c_000008418797	De Novo Assembled17429	N/A	N/A Firmicutes
adult_c_000013226543	De Novo Assembled10363	N/A	N/A Firmicutes
adult_c_000009903337	De Novo Assembled45172	N/A	ICE Firmicutes
adult_c_000007050862	De Novo Assembled25572	N/A	Plasmid Firmicutes
adult_c_000009903073	De Novo Assembled62070	N/A	ICE Firmicutes
adult_c_000007869312	De Novo Assembled31256	N/A	ICE Bacteroidetes
adult_c_000005639083	De Novo Assembled38778	N/A	ICE Bacteroidetes
adult_c_000008418239	De Novo Assembled40430	N/A	ICE Firmicutes
infant_c_000000045630	De Novo Assembled33857	N/A	ICE Bacteroidetes
adult_c_000010612882	De Novo Assembled115232		N/A ICE
Actinobacteria			
adult_c_000009903762	De Novo Assembled30595	N/A	ICE Bacteroidetes
infant_c_000000443464	De Novo Assembled33857	N/A	ICE Bacteroidetes
adult_c_000002454411	De Novo Assembled51390	N/A	N/A Firmicutes
adult_c_000010840580	De Novo Assembled107190		N/A ICE Firmicutes
adult_c_0000000000515	De Novo Assembled24371	N/A	ICE Firmicutes
infant_c_000000401596	De Novo Assembled56260	N/A	Plasmid
Proteobacteria			
infant_c_000000258786	De Novo Assembled94616	IncFIB, IncFII, IncFII	
Plasmid Proteobacteria			
infant_c_000000381671	De Novo Assembled34649	N/A	Plasmid
Proteobacteria			
adult_c_000013454083	De Novo Assembled75362	N/A	ICE Firmicutes
infant_c_000000443504	De Novo Assembled17351	N/A	ICE Bacteroidetes
infant_c_000000460760	De Novo Assembled30327	IncN	Plasmid
Proteobacteria			
infant_c_000000100045	De Novo Assembled12877	N/A	Plasmid Firmicutes

adult_c_000012459043	De Novo Assembled	34522 N/A	ICE	Bacteroidetes
adult_c_000013662038	De Novo Assembled	36865 N/A	ICE	Bacteroidetes
infant_c_000000303997	De Novo Assembled	107799	IncH	Plasmid
Proteobacteria				
adult_c_000001698700	De Novo Assembled	24064 N/A	ICE	Bacteroidetes
adult_c_000009238857	De Novo Assembled	35388 N/A	ICE	Bacteroidetes
adult_c_000008893666	De Novo Assembled	103064	N/A	ICE
Bacteroidetes				
adult_c_000000520680	De Novo Assembled	26481 N/A	ICE	Firmicutes
infant_c_000000174759	De Novo Assembled	33756 IncN	Plasmid	
Proteobacteria				
adult_c_000005503440	De Novo Assembled	61243 N/A	ICE	Bacteroidetes
adult_c_000007050643	De Novo Assembled	64132 N/A	ICE	Bacteroidetes
infant_c_000000179675	De Novo Assembled	46283 N/A	N/A	Firmicutes
infant_c_000000263218	De Novo Assembled	9418 N/A	N/A	Firmicutes
infant_c_000000401200	De Novo Assembled	112299	N/A	ICE Firmicutes
adult_c_000013226115	De Novo Assembled	31569 N/A	ICE	Bacteroidetes
infant_c_000000006892	De Novo Assembled	53838 N/A	ICE	Firmicutes
adult_c_000012771082	De Novo Assembled	44787 N/A	ICE	Firmicutes
adult_c_000008693096	De Novo Assembled	51519 N/A	ICE	Bacteroidetes
adult_c_000008893694	De Novo Assembled	96827 N/A	ICE	Firmicutes
adult_c_000003513150	De Novo Assembled	83231 N/A	ICE	Bacteroidetes
adult_c_000005639257	De Novo Assembled	24818 N/A	ICE	Bacteroidetes
adult_c_000009906197	De Novo Assembled	8543 N/A	Plasmid	Firmicutes
infant_c_000000135411	De Novo Assembled	37340 N/A	Plasmid	
Proteobacteria				
infant_c_000000350564	De Novo Assembled	57158 rep_cluster_1027	Plasmid	
Firmicutes				
adult_c_000010613001	De Novo Assembled	66201 N/A	ICE	Bacteroidetes
adult_c_000001082546	De Novo Assembled	34288 N/A	ICE	Firmicutes
adult_c_000005117488	De Novo Assembled	49572 N/A	ICE	Firmicutes
adult_c_000009238704	De Novo Assembled	59031 N/A	ICE	Firmicutes
adult_c_000012459167	De Novo Assembled	22640 N/A	Plasmid	Firmicutes
adult_c_000009903689	De Novo Assembled	32405 N/A	ICE	Firmicutes
adult_c_000001082227	De Novo Assembled	80719 N/A	ICE	Actinobacteria
adult_c_000011135113	De Novo Assembled	32386 N/A	ICE	Bacteroidetes
adult_c_000007288282	De Novo Assembled	37582 N/A	ICE	Bacteroidetes
infant_c_000000374099	De Novo Assembled	40147 IncFII	Plasmid	
Proteobacteria				
adult_c_000001699985	De Novo Assembled	11213 N/A	ICE	Firmicutes
adult_c_000006007668	De Novo Assembled	37187 N/A	ICE	Firmicutes
infant_c_000000304100	De Novo Assembled	29492 IncN	Plasmid	
Proteobacteria				
adult_c_000002454352	De Novo Assembled	112748	N/A	ICE
Bacteroidetes				
adult_c_000010613216	De Novo Assembled	38451 N/A	ICE	Actinobacteria
adult_c_000013455219	De Novo Assembled	13773 N/A	Plasmid	Firmicutes
infant_c_000000443434	De Novo Assembled	107865	N/A	ICE NA
adult_c_000002012993	De Novo Assembled	28007 N/A	ICE	Bacteroidetes
adult_c_000005117674	De Novo Assembled	32289 N/A	ICE	Bacteroidetes
infant_c_000000413404	De Novo Assembled	67821 IncFII	Plasmid	
Proteobacteria				
adult_c_000010252652	De Novo Assembled	32445 N/A	ICE	Bacteroidetes
adult_c_000002454722	De Novo Assembled	16059 N/A	Plasmid	Firmicutes

adult_c_000008895263	De Novo Assembled	23741	N/A	ICE	Firmicutes
adult_c_000002012951	De Novo Assembled	56733	N/A	ICE	Bacteroidetes
adult_c_000002808617	De Novo Assembled	19542	N/A	N/A	Firmicutes
infant_c_000000174731	De Novo Assembled	51224	N/A	ICE	Bacteroidetes
adult_c_000003513241	De Novo Assembled	62013	N/A	ICE	Bacteroidetes
adult_c_000010840695	De Novo Assembled	46579	N/A	ICE	Bacteroidetes
adult_c_000013094215	De Novo Assembled	67660	N/A	ICE	Firmicutes
infant_c_000000336129	De Novo Assembled	71136	IncFIIA, IncFII	Plasmid	
Proteobacteria					
adult_c_000001698711	De Novo Assembled	23673	N/A	ICE	Firmicutes
adult_c_000003212341	De Novo Assembled	11179	N/A	ICE	Bacteroidetes
infant_c_000000128696	De Novo Assembled	19795	N/A	Plasmid	
Proteobacteria					
adult_c_000009903100	De Novo Assembled	60337	N/A	ICE	Bacteroidetes
adult_c_000005118029	De Novo Assembled	16546	N/A	ICE	Firmicutes
adult_c_000008893491	De Novo Assembled	229430		N/A	ICE
Bacteroidetes					
infant_c_000000286772	De Novo Assembled	48259	IncFII	Plasmid	
Proteobacteria					
infant_c_000000286787	De Novo Assembled	42384	IncFII, IncFIIA	Plasmid	
Proteobacteria					
adult_c_000007869171	De Novo Assembled	59560	N/A	ICE	Firmicutes
adult_c_000014022244	De Novo Assembled	33311	N/A	ICE	Firmicutes
adult_c_000009238639	De Novo Assembled	80023	N/A	ICE	Firmicutes
adult_c_000009903082	De Novo Assembled	61387	N/A	ICE	Firmicutes
adult_c_000009903659	De Novo Assembled	33280	N/A	Plasmid	Firmicutes
infant_c_000000128700	De Novo Assembled	19484	N/A	Plasmid	NA
adult_c_000004735184	De Novo Assembled	25317	N/A	ICE	Bacteroidetes
adult_c_000012458878	De Novo Assembled	173394		N/A	ICE
Bacteroidetes					
adult_c_000008893965	De Novo Assembled	64224	N/A	N/A	Firmicutes
infant_c_000000023493	De Novo Assembled	183154		N/A	ICE NA
adult_c_000008893684	De Novo Assembled	98121	N/A	ICE	Bacteroidetes
infant_c_000000125885	De Novo Assembled	74291	IncFII	Plasmid	
Proteobacteria					
infant_c_000000152023	De Novo Assembled	61599	N/A	Plasmid	
Proteobacteria					
adult_c_000008895641	De Novo Assembled	19809	N/A	Plasmid	Firmicutes
adult_c_000002955808	De Novo Assembled	47546	N/A	ICE	Firmicutes
adult_c_000002454444	De Novo Assembled	38559	N/A	N/A	Firmicutes
adult_c_000006501409	De Novo Assembled	17714	N/A	ICE	Bacteroidetes
adult_c_000013661551	De Novo Assembled	58641	N/A	ICE	Firmicutes
adult_c_000010840712	De Novo Assembled	43228	N/A	ICE	Bacteroidetes
adult_c_000009904612	De Novo Assembled	16464	N/A	N/A	Firmicutes
infant_c_000000245980	De Novo Assembled	11895	N/A	Plasmid	Firmicutes
adult_c_000012771341	De Novo Assembled	20975	N/A	ICE	Firmicutes
adult_c_000009903079	De Novo Assembled	61764	N/A	ICE	Firmicutes
adult_c_000013454101	De Novo Assembled	67740	N/A	ICE	Firmicutes
infant_c_000000135483	De Novo Assembled	21481	N/A	Plasmid	Firmicutes
infant_c_000000460740	De Novo Assembled	37340	N/A	Plasmid	
Proteobacteria					
infant_c_000000128584	De Novo Assembled	141568		N/A	N/A
Proteobacteria					

infant_c_000000262443	De Novo Assembled	43918	IncFIIA, IncFII	Plasmid
Proteobacteria				
adult_c_000013665368	De Novo Assembled	9534	N/A	Firmicutes
infant_c_000000099905	De Novo Assembled	57596	N/A	Plasmid
Proteobacteria				
adult_c_000013661289	De Novo Assembled	96892	N/A	ICE Firmicutes
adult_c_000002808141	De Novo Assembled	89845	N/A	ICE Firmicutes
infant_c_000000374119	De Novo Assembled	33840	IncFII, IncFII	Plasmid
Proteobacteria				
adult_c_000000358633	De Novo Assembled	22343	N/A	Firmicutes
infant_c_000000358770	De Novo Assembled	11488	N/A	Plasmid
Proteobacteria				
adult_c_000008895425	De Novo Assembled	22015	N/A	Firmicutes
adult_c_000001698149	De Novo Assembled	58646	N/A	ICE Bacteroidetes
infant_c_000000414145	De Novo Assembled	119890	N/A	ICE
Proteobacteria				
adult_c_000002205632	De Novo Assembled	30359	N/A	ICE Firmicutes
adult_c_000013094287	De Novo Assembled	47286	N/A	ICE Firmicutes
adult_c_000004493597	De Novo Assembled	36700	N/A	ICE Firmicutes
adult_c_000001082312	De Novo Assembled	57670	N/A	ICE Firmicutes
infant_c_000000174710	De Novo Assembled	90710	N/A	ICE Bacteroidetes
adult_c_000013661550	De Novo Assembled	58646	N/A	ICE Bacteroidetes
infant_c_000000401206	De Novo Assembled	77861	N/A	ICE Firmicutes
adult_c_000008896141	De Novo Assembled	15750	N/A	ICE Firmicutes
adult_c_000007629373	De Novo Assembled	60302	N/A	ICE Firmicutes
infant_c_000000466798	De Novo Assembled	18028	N/A	Plasmid Firmicutes
adult_c_000008175023	De Novo Assembled	59185	N/A	ICE Bacteroidetes
adult_c_000008418252	De Novo Assembled	39423	N/A	ICE Bacteroidetes
adult_c_000013662355	De Novo Assembled	28866	N/A	ICE Bacteroidetes
infant_c_000000039988	De Novo Assembled	11795	N/A	Plasmid Firmicutes
adult_c_000013662066	De Novo Assembled	35902	N/A	ICE Firmicutes
adult_c_000008894078	De Novo Assembled	56767	N/A	ICE Bacteroidetes
adult_c_000009902917	De Novo Assembled	81236	N/A	ICE Firmicutes
adult_c_000013661363	De Novo Assembled	81128	N/A	ICE Firmicutes
adult_c_000008175866	De Novo Assembled	16221	N/A	ICE Bacteroidetes
infant_c_000000466760	De Novo Assembled	28386	N/A	Plasmid Firmicutes
adult_c_000001697990	De Novo Assembled	191018	N/A	ICE
Bacteroidetes				
adult_c_000010993709	De Novo Assembled	17418	N/A	Actinobacteria
adult_c_000012458882	De Novo Assembled	143297	N/A	ICE
Bacteroidetes				
adult_c_000008894963	De Novo Assembled	27851	N/A	ICE Firmicutes
adult_c_000010435350	De Novo Assembled	14598	N/A	Firmicutes
adult_c_000008895517	De Novo Assembled	20996	N/A	ICE Firmicutes
adult_c_000007050965	De Novo Assembled	20627	N/A	NA
adult_c_000002955364	De Novo Assembled	104777	N/A	ICE Firmicutes
adult_c_000009238927	De Novo Assembled	30401	N/A	Firmicutes
infant_c_000000262451	De Novo Assembled	42131	N/A	ICE Firmicutes
infant_c_000000020966	De Novo Assembled	26734	IncFIIA, IncFII	Plasmid
NA				
adult_c_000013662340	De Novo Assembled	29139	N/A	ICE Firmicutes
adult_c_000002808176	De Novo Assembled	60245	N/A	ICE Actinobacteria
infant_c_000000393866	De Novo Assembled	16646	N/A	Plasmid NA
adult_c_000012459381	De Novo Assembled	14601	N/A	Firmicutes

adult_c_000009902758	De Novo Assembled	120984	N/A	ICE	Firmicutes
adult_c_000013661145	De Novo Assembled	162159	N/A	ICE	
Bacteroidetes					
infant_c_000000045669	De Novo Assembled	17351	N/A	ICE	Bacteroidetes
adult_c_000006501252	De Novo Assembled	29980	N/A	ICE	Bacteroidetes
infant_c_000000045576	De Novo Assembled	92163	IncFIB, IncFIIA, IncFII		
Plasmid Proteobacteria					
adult_c_000001084269	De Novo Assembled	6845	N/A	Plasmid	Firmicutes
adult_c_000009903018	De Novo Assembled	66737	N/A	ICE	Firmicutes
adult_c_000005117362	De Novo Assembled	73110	N/A	ICE	Bacteroidetes
infant_c_000000263281	De Novo Assembled	8838	N/A	N/A	Proteobacteria
adult_c_000008418315	De Novo Assembled	34171	N/A	ICE	Firmicutes
infant_c_000000374084	De Novo Assembled	45874	N/A	Plasmid	
Proteobacteria					
adult_c_000008894303	De Novo Assembled	46714	N/A	ICE	Firmicutes
adult_c_000008893599	De Novo Assembled	124528	N/A	ICE	Firmicutes
infant_c_000000245609	De Novo Assembled	116687	IncFIB, IncFII, IncFIIA		
Plasmid Proteobacteria					
adult_c_000001082544	De Novo Assembled	34436	N/A	ICE	Actinobacteria
infant_c_000000099900	De Novo Assembled	71603	IncFII	Plasmid	
Proteobacteria					
adult_c_000009796704	De Novo Assembled	13577	N/A	ICE	Firmicutes
adult_c_000008894505	De Novo Assembled	39123	N/A	ICE	Firmicutes
infant_c_000000381698	De Novo Assembled	27397	N/A	Plasmid	
Proteobacteria					
adult_c_000009904452	De Novo Assembled	18368	N/A	Plasmid	Firmicutes
adult_c_000001082609	De Novo Assembled	30877	N/A	ICE	Actinobacteria
infant_c_000000125876	De Novo Assembled	83321	IncFII, IncFII	Plasmid	
Proteobacteria					
adult_c_000007629525	De Novo Assembled	31651	N/A	ICE	Firmicutes
adult_c_000009796510	De Novo Assembled	44783	N/A	ICE	Firmicutes
adult_c_000013662810	De Novo Assembled	22028	N/A	N/A	Firmicutes
infant_c_000000045650	De Novo Assembled	23965	N/A	Plasmid	Firmicutes
adult_c_000013661442	De Novo Assembled	69550	N/A	ICE	Bacteroidetes
infant_c_000000262436	De Novo Assembled	47883	N/A	ICE	Firmicutes
adult_c_000000000253	De Novo Assembled	37154	N/A	ICE	Bacteroidetes
infant_c_000000413394	De Novo Assembled	92749	IncFIB, IncFIIA, IncFII		
Plasmid Proteobacteria					
infant_c_000000074962	De Novo Assembled	18189	N/A	Plasmid	Firmicutes
adult_c_000008896282	De Novo Assembled	14813	N/A	Plasmid	NA
adult_c_000014234155	De Novo Assembled	156889	N/A	ICE	Firmicutes
adult_c_000009239288	De Novo Assembled	19013	N/A	Plasmid	Firmicutes
infant_c_000000125966	De Novo Assembled	33556	N/A	Plasmid	Firmicutes
adult_c_000009902672	De Novo Assembled	175108	N/A	ICE	Firmicutes
adult_c_000009905953	De Novo Assembled	9200	N/A	N/A	Firmicutes
infant_c_000000135388	De Novo Assembled	49775	N/A	Plasmid	Firmicutes
adult_c_000008895240	De Novo Assembled	24092	N/A	ICE	Bacteroidetes
adult_c_000006501244	De Novo Assembled	31120	N/A	ICE	Firmicutes
adult_c_000013661838	De Novo Assembled	43940	N/A	ICE	Bacteroidetes
adult_c_000002955701	De Novo Assembled	54082	N/A	ICE	Firmicutes
adult_c_000001082674	De Novo Assembled	27406	N/A	ICE	Firmicutes
adult_c_000002454751	De Novo Assembled	15279	N/A	ICE	NA
adult_c_000008895289	De Novo Assembled	23452	N/A	ICE	Firmicutes
adult_c_000002454416	De Novo Assembled	49692	N/A	ICE	Firmicutes

adult_c_000003513629	De Novo Assembled	30276	N/A	ICE	Actinobacteria
adult_c_000004735478	De Novo Assembled	10358	N/A	Plasmid	Firmicutes
adult_c_000010993568	De Novo Assembled	26581	N/A	ICE	Firmicutes
adult_c_000013455746	De Novo Assembled	10484	N/A	Plasmid	Firmicutes
adult_c_000001082172	De Novo Assembled	124710		N/A	ICE Firmicutes
adult_c_000003211468	De Novo Assembled	68876	N/A	ICE	Bacteroidetes
adult_c_000001083087	De Novo Assembled	16545	N/A	ICE	Firmicutes
adult_c_000007050912	De Novo Assembled	23167	N/A	ICE	Bacteroidetes
infant_c_000000128685	De Novo Assembled	24007	N/A	Plasmid	Firmicutes
adult_c_000001699674	De Novo Assembled	12686	N/A	ICE	Firmicutes
adult_c_000010613012	De Novo Assembled	63409	N/A	ICE	Actinobacteria
adult_c_000008895151	De Novo Assembled	25207	N/A	ICE	Firmicutes
adult_c_000005117827	De Novo Assembled	23886	N/A	ICE	Bacteroidetes
adult_c_000002808113	De Novo Assembled	139972		N/A	ICE Firmicutes
infant_c_000000122023	De Novo Assembled	64306	IncFII, IncFII		Plasmid
Proteobacteria					
adult_c_000009797086	De Novo Assembled	6941	N/A	Plasmid	Firmicutes
infant_c_000000135416	De Novo Assembled	34465	IncN	Plasmid	
Proteobacteria					
adult_c_000000359312	De Novo Assembled	9138	N/A	Plasmid	Firmicutes
adult_c_000003798815	De Novo Assembled	24351	N/A	ICE	Bacteroidetes
adult_c_000012458990	De Novo Assembled	44258	N/A	ICE	Firmicutes
adult_c_000008893944	De Novo Assembled	65551	N/A	ICE	Firmicutes
adult_c_000012458901	De Novo Assembled	92984	N/A	ICE	Firmicutes
adult_c_000008175666	De Novo Assembled	20411	N/A	ICE	Bacteroidetes
adult_c_000001083021	De Novo Assembled	17602	N/A	ICE	Firmicutes
adult_c_000013662409	De Novo Assembled	27851	N/A	ICE	Firmicutes
infant_c_000000023497	De Novo Assembled	109183		N/A	ICE NA
adult_c_000008176248	De Novo Assembled	11170	N/A	ICE	Bacteroidetes
adult_c_000009239399	De Novo Assembled	16689	N/A	ICE	Bacteroidetes
adult_c_000002957117	De Novo Assembled	18579	N/A	ICE	Firmicutes
adult_c_000014234156	De Novo Assembled	151741		N/A	ICE
Bacteroidetes					
adult_c_000014234181	De Novo Assembled	100984		N/A	ICE Firmicutes
adult_c_000009238951	De Novo Assembled	28644	N/A	ICE	Bacteroidetes
adult_c_000008893711	De Novo Assembled	92672	N/A	ICE	Bacteroidetes
adult_c_000002955301	De Novo Assembled	144197		N/A	ICE
Bacteroidetes					
adult_c_000006007941	De Novo Assembled	17932	N/A	ICE	Firmicutes
infant_c_000000262355	De Novo Assembled	141698		N/A	ICE Firmicutes
adult_c_000002013135	De Novo Assembled	12565	N/A	ICE	Bacteroidetes
adult_c_000002808107	De Novo Assembled	167082		N/A	ICE Firmicutes
adult_c_000002012989	De Novo Assembled	29321	N/A	ICE	Bacteroidetes
adult_c_000014234297	De Novo Assembled	39017	N/A	ICE	Bacteroidetes
adult_c_000003513217	De Novo Assembled	65632	N/A	ICE	Bacteroidetes
infant_c_000000099932	De Novo Assembled	34649	N/A	Plasmid	
Proteobacteria					
adult_c_000010434937	De Novo Assembled	81995	N/A	ICE	Firmicutes
adult_c_000010840574	De Novo Assembled	120864		N/A	ICE Firmicutes
adult_c_000008175049	De Novo Assembled	54704	N/A	ICE	Actinobacteria
adult_c_000014684369	De Novo Assembled	50193	N/A	ICE	Firmicutes
adult_c_000002956018	De Novo Assembled	37926	N/A	ICE	Bacteroidetes
adult_c_000002454576	De Novo Assembled	22599	N/A	ICE	Bacteroidetes
adult_c_000005639089	De Novo Assembled	37566	N/A	ICE	Bacteroidetes

infant_c_000000381620	De Novo Assembled	74815 N/A	ICE	Firmicutes
adult_c_000001082753	De Novo Assembled	24836 N/A	Plasmid	Firmicutes
adult_c_000010612878	De Novo Assembled	115717	N/A	ICE
Bacteroidetes				
adult_c_000013454543	De Novo Assembled	24016 N/A	ICE	Firmicutes
adult_c_000004735154	De Novo Assembled	28396 N/A	ICE	Firmicutes
adult_c_000001699266	De Novo Assembled	15581 N/A	ICE	Firmicutes
adult_c_000013661185	De Novo Assembled	130772	N/A	ICE Firmicutes
adult_c_000013094138	De Novo Assembled	297288	N/A	ICE Firmicutes
adult_c_000004174691	De Novo Assembled	15470 N/A	ICE	Firmicutes
adult_c_000013661873	De Novo Assembled	42969 N/A	ICE	Firmicutes
adult_c_000009238592	De Novo Assembled	131124	N/A	ICE
Bacteroidetes				
adult_c_000009796433	De Novo Assembled	169754	N/A	ICE Firmicutes
adult_c_000000000329	De Novo Assembled	31978 N/A	ICE	Bacteroidetes
adult_c_000013661385	De Novo Assembled	77068 N/A	ICE	Firmicutes
infant_c_000000094061	De Novo Assembled	20239 N/A	N/A	Firmicutes
infant_c_000000304115	De Novo Assembled	26240 N/A	Plasmid	
Proteobacteria				
adult_c_000009239534	De Novo Assembled	14669 N/A	ICE	Firmicutes
infant_c_000000014380	De Novo Assembled	161217	rep_cluster_304	ICE
Proteobacteria				
infant_c_000000414188	De Novo Assembled	54211 IncFII, IncFIIA	Plasmid	
Proteobacteria				
adult_c_000013454086	De Novo Assembled	74611 N/A	ICE	Firmicutes
adult_c_000002955876	De Novo Assembled	44035 N/A	ICE	Firmicutes
adult_c_000007050585	De Novo Assembled	165180	N/A	ICE
Bacteroidetes				
adult_c_000002454588	De Novo Assembled	22063 N/A	Plasmid	Firmicutes
adult_c_000009238662	De Novo Assembled	71274 N/A	ICE	Firmicutes
infant_c_000000045570	De Novo Assembled	107995	N/A	ICE NA
adult_c_000003211379	De Novo Assembled	185861	N/A	ICE
Bacteroidetes				
adult_c_000009903506	De Novo Assembled	38356 N/A	ICE	Firmicutes
adult_c_000008893658	De Novo Assembled	105559	N/A	ICE Firmicutes
adult_c_000003211643	De Novo Assembled	32289 N/A	ICE	Bacteroidetes
infant_c_000000350544	De Novo Assembled	101395	N/A	ICE Firmicutes
adult_c_000001698238	De Novo Assembled	46983 N/A	ICE	Firmicutes
adult_c_000004174622	De Novo Assembled	32193 N/A	N/A	Firmicutes
adult_c_000002955253	De Novo Assembled	942574	N/A	ICE Firmicutes
infant_c_000000179771	De Novo Assembled	29144 IncN	Plasmid	
Proteobacteria				
adult_c_000010613291	De Novo Assembled	32261 N/A	ICE	Bacteroidetes
adult_c_000001082153	De Novo Assembled	171495	N/A	ICE Firmicutes
infant_c_000000023502	De Novo Assembled	66584 rep_cluster_398, IncP		
Plasmid Proteobacteria				
adult_c_000002454345	De Novo Assembled	173864	N/A	ICE
Bacteroidetes				
adult_c_000003211382	De Novo Assembled	168765	N/A	ICE
Bacteroidetes				
adult_c_000001704041	De Novo Assembled	4786 N/A	Plasmid	Firmicutes
adult_c_000008894504	De Novo Assembled	39125 N/A	ICE	Firmicutes
infant_c_000000135456	De Novo Assembled	25807 N/A	ICE	Firmicutes
adult_c_000002205865	De Novo Assembled	16855 N/A	ICE	Firmicutes

adult_c_000009239549	De Novo Assembled14447 N/A	ICE	Firmicutes
adult_c_000001082145	De Novo Assembled207820	N/A	ICE Firmicutes
infant_c_000000245907	De Novo Assembled14359 N/A	Plasmid	NA
infant_c_000000381632	De Novo Assembled57596 N/A	Plasmid	
Proteobacteria			
adult_c_000013094433	De Novo Assembled29755 N/A	N/A	Firmicutes
adult_c_000013225982	De Novo Assembled60337 N/A	ICE	Bacteroidetes
adult_c_000014234441	De Novo Assembled22864 N/A	ICE	Bacteroidetes
adult_c_000008893979	De Novo Assembled63029 N/A	ICE	Firmicutes
adult_c_000006501488	De Novo Assembled15048 N/A	N/A	Bacteroidetes
adult_c_000005503414	De Novo Assembled131634	N/A	ICE Firmicutes
adult_c_000007629582	De Novo Assembled27525 N/A	ICE	Firmicutes
adult_c_000002955819	De Novo Assembled47210 N/A	ICE	Firmicutes
infant_c_000000205471	De Novo Assembled53525 N/A	ICE	NA
adult_c_000008693386	De Novo Assembled15393 N/A	ICE	Firmicutes
adult_c_000009903260	De Novo Assembled49262 N/A	N/A	Firmicutes
adult_c_000003798789	De Novo Assembled26456 N/A	ICE	Bacteroidetes
adult_c_000000000074	De Novo Assembled72362 N/A	ICE	Firmicutes
infant_c_000000286907	De Novo Assembled17517 N/A	Plasmid	Firmicutes
adult_c_000009239761	De Novo Assembled12460 N/A	N/A	Firmicutes
adult_c_000004174578	De Novo Assembled80313 N/A	ICE	Bacteroidetes
adult_c_000008894223	De Novo Assembled49828 N/A	ICE	Firmicutes
adult_c_000009903210	De Novo Assembled52753 N/A	ICE	Firmicutes
adult_c_000010612941	De Novo Assembled83231 N/A	ICE	Bacteroidetes
adult_c_000013661766	De Novo Assembled47674 N/A	ICE	Firmicutes
adult_c_000007629995	De Novo Assembled15478 N/A	Plasmid	Firmicutes
infant_c_000000179786	De Novo Assembled27381 N/A	Plasmid	
Proteobacteria			
adult_c_000003513463	De Novo Assembled40178 N/A	ICE	Bacteroidetes
adult_c_000014234210	De Novo Assembled68925 N/A	N/A	Firmicutes
adult_c_000009903212	De Novo Assembled52550 N/A	ICE	Firmicutes
adult_c_000007869127	De Novo Assembled86274 N/A	ICE	Bacteroidetes
adult_c_000013661423	De Novo Assembled72635 N/A	N/A	Firmicutes
infant_c_000000443473	De Novo Assembled24277 N/A	Plasmid	Firmicutes
infant_c_000000414439	De Novo Assembled11927 N/A	Plasmid	Firmicutes
infant_c_000000174700	De Novo Assembled138940	IncFII, IncFIIA	
Plasmid	Proteobacteria		
adult_c_000008174984	De Novo Assembled66637 N/A	ICE	Bacteroidetes
adult_c_000008174892	De Novo Assembled97068 N/A	ICE	Bacteroidetes
adult_c_000004174614	De Novo Assembled40601 N/A	ICE	Bacteroidetes
adult_c_000003211523	De Novo Assembled49769 N/A	ICE	Firmicutes
adult_c_000008174901	De Novo Assembled90964 N/A	ICE	Actinobacteria
adult_c_000011259081	De Novo Assembled30473 N/A	ICE	Firmicutes
adult_c_000001698339	De Novo Assembled38321 N/A	ICE	Bacteroidetes
infant_c_000000205574	De Novo Assembled23395 N/A	Plasmid	NA
adult_c_000014234709	De Novo Assembled14234 N/A	Plasmid	Firmicutes
adult_c_000002454450	De Novo Assembled37558 N/A	ICE	Firmicutes
infant_c_000000006864	De Novo Assembled73148 N/A	ICE	NA
infant_c_000000443438	De Novo Assembled92163	IncFII, IncFIB, IncFIIA	
Plasmid	Proteobacteria		
adult_c_000001082340	De Novo Assembled53565 N/A	ICE	Actinobacteria
infant_c_000000006854	De Novo Assembled87412		
IncFII, IncFIA, rep_cluster_959	Plasmid	Proteobacteria	
adult_c_000002957226	De Novo Assembled17755 N/A	ICE	Firmicutes

infant_c_000000128663 De Novo Assembled32640 N/A Plasmid
Proteobacteria
UMGS221_SRR1449329_bin.5_Tenericutes_Mollicutes_NA_NA_NA_NODE_3_length_12
7005_cov_7.53875 Genome Set 127005 N/A ICE Tenericutes
14207_7_64_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_64.4
Genome Set 266625 N/A ICE Firmicutes
NZ_AEXR01000016.1_Eggerthella_sp._HGA1_contig00024__whole_genome_shotgun_
sequence Genome Set 222459 N/A ICE Actinobacteria
12718_7_89_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriace
ae_NA_.12718_7_89.6 Genome Set 172264 N/A ICE Actinobacteria
18048_2_85_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.18048_2_85.18 Genome Set 61954 N/A ICE Firmicutes
UMGS1145_ERR414316_bin.62_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_NA_NODE_110_length_96759_cov_44.976857 Genome Set 96759 N/A
ICE Bacteroidetes
UMGS426_SRR5032278_bin.10_Firmicutes_Clostridia_Clostridiales_Oscillospir
aceae_Oscillibacter_NODE_752_length_23626_cov_4.646133 Genome Set
23626 N/A ICE Firmicutes
UMGS147_SRR5091520_bin.30_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Roseburia_NODE_298_length_51670_cov_25.683387 Genome Set 51670 N/A
ICE Firmicutes
NZ_JH590969.1_Erysipelotrichaceae_bacterium_6_1_45_genomic_scaffold_super
cont1.2__whole_genome_shotgun_sequence Genome Set 1207646 N/A ICE
Tenericutes
UMGS1468_ERR1293763_bin.7_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
pelotrichaceae_Solobacterium_NODE_756_length_15276_cov_3.311609
Genome Set 15276 N/A N/A Tenericutes
NZ_GG657561.1_Holdemania_filiformis_DSM_12042_genomic_scaffold_Scfld10__w
hole_genome_shotgun_sequence Genome Set 684668 N/A ICE
Tenericutes
UMGS985_ERR414362_bin.39_Firmicutes_Clostridia_Clostridiales_Lachnospirac
eae_Dorea_NODE_231_length_55271_cov_10.064710 Genome Set 55271 N/A ICE
Firmicutes
UMGS1144_SRR5032340_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
140_length_45014_cov_17.337285 Genome Set 45014 N/A N/A Firmicutes
UMGS803_SRR5127411_bin.10_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_1440_length_9658_cov_8.665209Genome Set 9658
N/A ICE Firmicutes
14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.14207_7_23.47 Genome Set 28531 N/A ICE Bacteroidetes
NZ_ABIX02000002.1_Bifidobacterium_dentium_ATCC_27678_B_dentium-
2.0.1_Cont348__whole_genome_shotgun_sequence Genome Set 2635766 N/A
ICE Actinobacteria
NZ_DS996921.1_[Bacteroides]_pectinophilus_ATCC_43243_Scfld_02_1_genomic_s
caffold__whole_genome_shotgun_sequence Genome Set 2528381 N/A ICE
Firmicutes
NZ_GL988014.1_Fusobacterium_sp._D12_genomic_scaffold_supercont2.3__whole_
genome_shotgun_sequence Genome Set 195408 N/A ICE
Fusobacteria
20298_3_64_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.20298_
3_64.10 Genome Set 125256 N/A ICE Firmicutes
UMGS231_SRR4033073_bin.3_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_NA_NODE_1_length_437286_cov_34.278775 Genome Set 437286 N/A
ICE Firmicutes

UMGS618_SRR4408228_bin.21_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_408_length_26456_cov_10.4448 Genome Set 26456 N/A ICE Firmicutes

UMGS106_SRR6054493_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2_length_236515_cov_20.276787 Genome Set 236515 N/A ICE Firmicutes

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.1 Genome Set 1109666 N/A ICE Firmicutes

14207_7_54_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_54.1 Genome Set 1366117 N/A ICE Firmicutes

NZ_CAPH01000018.1_Alistipes_ihumii_AP11_whole_genome_shotgun_sequence Genome Set 279520 N/A ICE Bacteroidetes

UMGS792_SRR5580076_bin.53_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_196_length_70478_cov_11.178179 Genome Set 70478 N/A ICE Firmicutes

UMGS1776_SRR5558195_bin.42_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2876_length_15841_cov_6.247082 Genome Set 15841 N/A ICE Firmicutes

NZ_KQ236097.1_Parabacteroides_sp._2_1_7_genomic_scaffold_supercont2.6__whole_genome_shotgun_sequence Genome Set 565040 N/A ICE Bacteroidetes

NZ_GG705175.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.3__whole_genome_shotgun_sequence Genome Set 1143623 N/A ICE Bacteroidetes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_68.5 Genome Set 283444 N/A ICE Firmicutes

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.5 Genome Set 263814 N/A ICE Firmicutes

NZ_HE978601.1_Brevibacterium_sp._JC43_genomic_scaffold__scaffold00002__whole_genome_shotgun_sequence Genome Set 591155 N/A ICE Actinobacteria

NZ_GL520136.1_Erysipelotrichaceae_bacterium_3_1_53_genomic_scaffold_supercont1.5__whole_genome_shotgun_sequence Genome Set 241801 N/A ICE Tenericutes

20298_3_62_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.20298_3_62.4 Genome Set 367400 N/A ICE Firmicutes

UMGS846_ERR1190639_bin.35_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_37_length_101229_cov_78.605442 Genome Set 101229 N/A ICE Bacteroidetes

20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_63.23 Genome Set 13507 N/A ICE Firmicutes

UMGS651_SRR2912799_bin.35_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_607_length_30769_cov_26.239435 Genome Set 30769 N/A N/A Actinobacteria

UMGS1413_SRR5579982_bin.24_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_411_length_16858_cov_2.489840 Genome Set 16858 N/A ICE Firmicutes

NZ_FCOY01000006.1_Xanthomonas_sp._SN8_genome_assembly__contig__contig00006__whole_genome_shotgun_sequence Genome Set 1618547 IncP ICE Proteobacteria

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.27 Genome Set 33740 N/A ICE Firmicutes

UMGS901_SRR6028340_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_371_length_26395_cov_25.167692 Genome Set 26395 N/A ICE Bacteroidetes

14207_7_9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_.14207_7_9.16 Genome Set 3237 N/A N/A Firmicutes

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_ERS138176.8080_1_78.7 Genome Set 260199 N/A ICE Firmicutes

UMGS1702_SRR5106295_bin.36_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_64_length_122680_cov_5.256813 Genome Set 122680 N/A ICE Firmicutes

13414_6_53_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Faecalibacterium_13414_6_53.17 Genome Set 56887 N/A ICE Firmicutes

UMGS472_ERR1578619_bin.63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_NODE_153_length_92445_cov_49.202782 Genome Set 92445 N/A ICE Firmicutes

UMGS971_ERR1620373_bin.39_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Butyricimonas_NODE_1335_length_19849_cov_5.154643 Genome Set 19849 N/A Plasmid Bacteroidetes

NZ_GL891981.1_Dysgonomonas_gadei_ATCC_BAA-286_genomic_scaffold_supercont1.3__whole_genome_shotgun_sequence Genome Set 467011 N/A ICE Bacteroidetes

NZ_KQ236092.1_Parabacteroides_sp._2_1_7_genomic_scaffold_supercont2.1__whole_genome_shotgun_sequence Genome Set 815589 N/A ICE Bacteroidetes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_20287_6_53.6 Genome Set 398305 N/A ICE Bacteroidetes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_14207_6_3.32 Genome Set 23952 N/A N/A Bacteroidetes

NZ_LN865153.1_Eubacterium_sp._SB2_genome_assembly_Eubacterium_massiliense__scaffold_scaffold00009__whole_genome_shotgun_sequence Genome Set 2375804 N/A ICE Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_14207_7_37.19 Genome Set 80552 N/A ICE Firmicutes

UMGS458_SRR5056748_bin.93_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_6627_length_7350_cov_4.081014 Genome Set 7350 N/A N/A Firmicutes

13470_2_58_Firmicutes_Clostridia_Clostridiales_NA_NA_13470_2_58.9 Genome Set 170674 N/A ICE Firmicutes

NZ_GG705173.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 1674641 N/A ICE Bacteroidetes

18048_2_85_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_18048_2_85.23 Genome Set 50896 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_21673_4_87.13 Genome Set 53889 N/A ICE Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_14207_7_37.6 Genome Set 170289 N/A ICE Firmicutes

NZ_ACFY01000004.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont4.1__whole_genome_shotgun_sequence Genome Set 61552 N/A ICE Firmicutes

20298_3_69_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_20298_3_69.7 Genome Set 223310 N/A ICE Firmicutes

UMGS122_SRR1779117_bin.2_Firmicutes_Bacilli_Bacillales_Paenibacillaceae_Paenibacillus_NODE_30_length_176543_cov_46.5645 Genome Set 176543 N/A ICE Firmicutes

21673_4_36_Firmicutes_Clostridia_Clostridiales_NA_NA_21673_4_36.1 Genome Set 813465 N/A ICE Firmicutes

NZ_DS981486.1_Bacteroides_coprocola_DSM_17136_ScflD_02_59_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 80142 N/A ICE
Bacteroidetes

18048_2_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_2_67.4 Genome Set 385361 N/A ICE Firmicutes

UMGS519_ERR1018206_bin.15_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_679_length_17298_cov_5.935800
Genome Set 17298 N/A N/A Actinobacteria

UMGS1188_SRR2155371_bin.11_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_35_length_110837_cov_11.612636 Genome Set 110837 N/A ICE
Firmicutes

NZ_HE978580.1_Peptostreptococcaceae_bacterium_ph1_genomic_scaffold_scaffold00001_whole_genome_shotgun_sequence Genome Set 813424 N/A ICE
Firmicutes

UMGS1650_SRR585761_bin.1_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_4_length_101668_cov_7.93269 Genome Set 101668 N/A N/A Firmicutes

UMGS1709_SRR1761698_bin.37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_383_length_31550_cov_6.737990 Genome Set 31550 N/A ICE
Firmicutes

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_3.2 Genome Set 914767 N/A ICE Firmicutes

UMGS1069_SRR6028370_bin.24_Verrucomicrobia_Opitutae_Opitutales_NA_NA_NODE_8_length_169942_cov_10.467729 Genome Set 169942 N/A ICE
Verrucomicrobia

UMGS493_SRR5279266_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_88_length_57000_cov_38.1881 Genome Set 57000 N/A
ICE Bacteroidetes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_89.31
Genome Set 39555 N/A ICE Firmicutes

UMGS670_ERR1190964_bin.38_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_5_length_302358_cov_6.908592 Genome Set 302358 N/A ICE Firmicutes

UMGS59_ERR589527_bin.14_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_482_length_38872_cov_11.317000 Genome Set 38872 N/A
N/A Firmicutes

UMGS1292_ERR321194_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_1_length_282262_cov_8.46361 Genome Set 282262
N/A ICE Bacteroidetes

NZ_JH414767.1_Tannerella_sp._6_1_58FAA_CT1_genomic_scaffold_supercont1.2_whole_genome_shotgun_sequence Genome Set 695811 N/A ICE
Bacteroidetes

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_92.49 Genome Set 20608 N/A N/A Firmicutes

UMGS1032_ERR414261_bin.23_Tenericutes_NA_NA_NA_NA_NODE_829_length_23068_cov_5.813975 Genome Set 23068 N/A Plasmid Tenericutes

NZ_DS499711.1_Clostridium_scindens_ATCC_35704_ScflD_02_33_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 95416 N/A ICE Firmicutes

UMGS1036_ERR011158_bin.10_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_143_length_29192_cov_6.5401 Genome Set 29192 N/A
ICE Bacteroidetes

UMGS1005_SRR4408017_bin.22_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_6935_length_2246_cov_7.700593
Genome Set 2246 N/A ICE Bacteroidetes

NZ_JH379444.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_Scflld979__whole_genome_shotgun_sequence Genome Set 59361 N/A ICE Bacteroidetes

14207_7_1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_14207_7_1.2 Genome Set 461132 N/A N/A Firmicutes

18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_18048_2_82.9 Genome Set 89221 N/A ICE Firmicutes

13414_6_43_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_13414_6_43.2 Genome Set 673861 N/A ICE Firmicutes

NZ_GL830938.1_Phascolarctobacterium_succinatutens_YIT_12067_Scflld389__whole_genome_shotgun_sequence Genome Set 76851 N/A ICE Firmicutes

UMGS96_SRR769526_bin.2_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_236_length_13506_cov_8.05784 Genome Set 13506 N/A ICE Firmicutes

UMGS800_ERR1293918_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_11_length_167619_cov_22.900814 Genome Set 167619 N/A ICE Bacteroidetes

UMGS1038_ERR525948_bin.22_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Massiliomicrobiota_NODE_2035_length_7700_cov_4.8361 Genome Set 7700 N/A Plasmid Tenericutes

UMGS501_ERR1913117_bin.32_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_4_length_275284_cov_10.250108 Genome Set 275284 N/A ICE Bacteroidetes

13470_2_67_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_13470_2_67.7 Genome Set 301546 N/A ICE Bacteroidetes

UMGS1628_SRR5056930_bin.3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_2272_length_13761_cov_4.154677 Genome Set 13761 N/A ICE Firmicutes

14207_7_54_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_54.13 Genome Set 65331 N/A ICE Firmicutes

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_12718_7_47.2 Genome Set 490846 N/A ICE Firmicutes

UMGS329_SRR6028346_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_NA_NA_NODE_9_length_112022_cov_21.914841 Genome Set 112022 N/A ICE Bacteroidetes

UMGS1440_SRR1761678_bin.28_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_2_length_356471_cov_49.212914 Genome Set 356471 N/A ICE Firmicutes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_89.16 Genome Set 78701 N/A ICE Firmicutes

UMGS144_SRR3737013_bin.8_Proteobacteria_Gammaproteobacteria_Aeromonadales_Succinivibrionaceae_Succinatimonas_NODE_72_length_108762_cov_41.565603 Genome Set 108762 N/A N/A Proteobacteria

13414_6_47_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospiraceae_13414_6_47.4 Genome Set 254414 N/A ICE Firmicutes

UMGS568_ERR1305892_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_365_length_54717_cov_69.941093 Genome Set 54717 N/A ICE Firmicutes

UMGS505_ERR1293707_bin.3_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_26_length_114938_cov_4.137679 Genome Set 114938 N/A ICE Firmicutes

20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_20287_6_9.11 Genome Set 193709 N/A ICE Bacteroidetes

UMGS781_ERR1305892_bin.56_Proteobacteria_Deltaproteobacteria_Desulfovibri
onales_Desulfovibrionaceae_Desulfovibrio_NODE_100_length_101382_cov_4.906
876 Genome Set 101382 N/A ICE Proteobacteria

UMGS1989_ERR1190931_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
1474_length_21870_cov_3.226496 Genome Set 21870 N/A ICE Firmicutes

UMGS870_SRR5057088_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
112_length_85141_cov_8.498895 Genome Set 85141 N/A ICE Firmicutes

NZ_GL892010.1_Dysgonomonas_mossii_DSM_22836_genomic_scaffold_supercont1.7
__whole_genome_shotgun_sequence Genome Set 182617 N/A ICE
Bacteroidetes

UMGS40_SRR2912796_bin.41_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_Ruminococcus_NODE_24_length_141787_cov_18.942257 Genome Set
141787 N/A ICE Firmicutes

UMGS253_ERR1293894_bin.25_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_Faecalibacterium_NODE_160_length_58565_cov_12.603418Genome Set
58565 N/A ICE Firmicutes

13414_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_37.4
Genome Set 149978 N/A ICE Firmicutes

NZ_HE978611.1_Brevibacterium_sp._JC43_genomic_scaffold__scaffold00012__wh
ole_genome_shotgun_sequence Genome Set 62517 N/A Plasmid

Actinobacteria

UMGS2042_SRR341641_bin.4_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroi
daceae_Bacteroides_NODE_490_length_17164_cov_2.23631 Genome Set
17164 N/A ICE Bacteroidetes

UMGS1097_ERR525737_bin.51_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_8_length_241304_cov_7.955888 Genome Set 241304 N/A
ICE Firmicutes

UMGS859_ERR414316_bin.12_Proteobacteria_Alphaproteobacteria_Rickettsiales
_NA_NA_NODE_14_length_225374_cov_40.173319 Genome Set 225374 N/A
ICE Proteobacteria

UMGS365_SRR5558121_bin.15_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
98_length_115411_cov_8.770944 Genome Set 115411 N/A ICE
Firmicutes

UMGS1399_SRR4408050_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Bacter
oidaceae_Bacteroides_NODE_69_length_94562_cov_31.968394 Genome Set
94562 N/A ICE Bacteroidetes

UMGS1132_ERR1620269_bin.14_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
355_length_34204_cov_7.385926 Genome Set 34204 N/A ICE Firmicutes

UMGS944_ERR1190861_bin.8_Firmicutes_Clostridia_Clostridiales_Peptostrepto
coccaceae_Clostridium_NODE_27_length_162864_cov_6.378726 Genome Set
162864 N/A ICE Firmicutes

20298_3_4_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobact
eriaceae_Citrobacter_.20298_3_4.9 Genome Set 149896 IncFII
Plasmid Proteobacteria

21673_4_33_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Par
abacteroides_.21673_4_33.7 Genome Set 269567 N/A ICE
Bacteroidetes

NZ_HG726020.1_Bacteroides_neonati_strain_MS4__whole_genome_shotgun_sequen
ce Genome Set 1480366 N/A ICE Bacteroidetes

21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
1673_4_19.9Genome Set 175874 N/A ICE Firmicutes

NZ_KI965381.1_Fusobacterium_nucleatum_13_3C_genomic_scaffold_adlCx-
supercont1.1__whole_genome_shotgun_sequence Genome Set 1700382 N/A
ICE Fusobacteria

12718_7_89_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_12718_7_89.15 Genome Set 94654 N/A ICE Actinobacteria
UMGS1450_ERR321427_bin.5_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_668_length_8845_cov_2.18567 Genome Set 8845 N/A N/A Bacteroidetes
UMGS639_DRR042328_bin.21_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_110_length_130575_cov_20.622194 Genome Set 130575 N/A ICE Actinobacteria
UMGS1502_SRR3992965_bin.54_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_NODE_4333_length_10732_cov_3.840826 Genome Set 10732 N/A Plasmid Actinobacteria
UMGS219_ERR321453_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1_length_127626_cov_3.55478 Genome Set 127626 N/A ICE Bacteroidetes
21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_21673_4_87.7 Genome Set 131246 N/A ICE Firmicutes
UMGS1436_ERR1190898_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_1546_length_16633_cov_11.405899 Genome Set 16633 N/A ICE Firmicutes
18048_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_18048_1_72.8 Genome Set 195242 N/A ICE Firmicutes
21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_21673_4_19.20 Genome Set 70211 N/A ICE Firmicutes
UMGS40_SRR2912796_bin.41_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_187_length_47116_cov_24.276620 Genome Set 47116 N/A N/A Firmicutes
NZ_GG704863.1_Enterobacter_cancerogenus_ATCC_35316_ScflD0__whole_genome_shotgun_sequence Genome Set 2235134 N/A ICE Proteobacteria
20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_20287_6_88.15 Genome Set 133211 N/A ICE Firmicutes
NZ_GL636544.1_Sutterella_wadsworthensis_3_1_45B_genomic_scaffold_supercont1.5__whole_genome_shotgun_sequence Genome Set 226673 N/A N/A Proteobacteria
UMGS486_ERR911961_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_289_length_91142_cov_22.418775 Genome Set 91142 N/A ICE Firmicutes
13414_6_53_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Faecalibacterium_13414_6_53.31 Genome Set 11580 N/A ICE Firmicutes
UMGS247_ERR321470_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_3_length_200868_cov_14.7962 Genome Set 200868 N/A ICE Bacteroidetes
UMGS83_ERR911953_bin.80_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_5_length_319042_cov_13.719537 Genome Set 319042 N/A ICE Firmicutes
UMGS151_ERR525714_bin.15_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Robinsoniella_NODE_260_length_48067_cov_5.68275 Genome Set 48067 N/A ICE Firmicutes
UMGS315_SRR5127596_bin.10_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_1_length_138453_cov_10.931422 Genome Set 138453 N/A ICE Actinobacteria
13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_13414_6_50.8 Genome Set 145632 N/A ICE Firmicutes
NZ_JH376421.1_Clostridium_citroniae_WAL-17108_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 694452 N/A ICE Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.6 Genome Set 152027 N/A ICE Firmicutes

UMGS2027_SRR1761721_bin.40_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_268_length_36939_cov_8.346492 Genome Set 36939 N/A ICE Bacteroidetes

UMGS1003_ERR525813_bin.62_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_355_length_54148_cov_17.851367 Genome Set 54148 N/A ICE Bacteroidetes

NZ_JH992945.1_Bacteroides_oleiciplenus_YIT_12058_genomic_scaffold_supercont1.6__whole_genome_shotgun_sequence Genome Set 422566 N/A ICE Bacteroidetes

UMGS709_SRR2992911_bin.12_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_6_length_178765_cov_14.2306 Genome Set 178765 N/A ICE Firmicutes

UMGS568_ERR1305892_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_82_length_109425_cov_66.307177 Genome Set 109425 N/A ICE Firmicutes

UMGS1201_ERR1620325_bin.78_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_1052_length_24300_cov_5.163374 Genome Set 24300 N/A ICE Bacteroidetes

UMGS767_ERR1190550_bin.24_Proteobacteria_Betaproteobacteria_Burkholderiales_Sutterellaceae_Sutterella_NODE_502_length_34214_cov_9.469891 Genome Set 34214 N/A N/A Proteobacteria

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_21673_4_3.3 Genome Set 282087 N/A ICE Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.25 Genome Set 56893 N/A ICE Firmicutes

UMGS935_SRR5050584_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Anaerosporeobacter_NODE_2_length_265818_cov_12.952066 Genome Set 265818 N/A ICE Firmicutes

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_13414_6_17.1 Genome Set 497252 N/A ICE Firmicutes

UMGS1892_SRR1761705_bin.37_Tenericutes_NA_NA_NA_NA_NODE_263_length_35431_cov_6.683825 Genome Set 35431 N/A N/A Tenericutes

UMGS1115_SRR3992981_bin.40_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2512_length_13477_cov_10.575746 Genome Set 13477 N/A ICE Firmicutes

12718_7_73_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_12718_7_73.1 Genome Set 1695398 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_20287_6_37.27 Genome Set 38503 N/A ICE Firmicutes

NZ_DS483492.1_Faecalibacterium_prausnitzii_M21_2_ScflD_02_13_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 47391 N/A ICE Firmicutes

UMGS233_SRR6028305_bin.9_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_111_length_37121_cov_14.159823 Genome Set 37121 N/A ICE Firmicutes

UMGS229_ERR414321_bin.1_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_441_length_42207_cov_17.654299 Genome Set 42207 N/A ICE Firmicutes

13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_13470_2_81.14 Genome Set 86312 N/A ICE Firmicutes

UMGS282_ERR525699_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_241_length_62404_cov_5.943191 Genome Set 62404 N/A ICE Bacteroidetes

UMGS1469_ERR688640_bin.60_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
pelotrichaceae_Solobacterium_NODE_494_length_46673_cov_6.660775
Genome Set 46673 N/A Plasmid Tenericutes

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_
7_43.1 Genome Set 481317 N/A ICE Firmicutes

13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3470_2_81.7 Genome Set 132173 N/A ICE Firmicutes

NZ_LT575475.1_Paenibacillus_sp._Marseille-
P2472__whole_genome_shotgun_sequence Genome Set 34735 N/A N/A
Firmicutes

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococc
us_.13414_6_17.5 Genome Set 182475 N/A ICE Firmicutes

NZ_HE978582.1_Peptostreptococcaceae_bacterium_ph1_genomic_scaffold__scaff
old00003__whole_genome_shotgun_sequence Genome Set 392888
rep_cluster_1663 ICE Firmicutes

20298_3_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
0298_3_81.10 Genome Set 132354 N/A ICE Firmicutes

UMGS772_ERR321392_bin.13_Tenericutes_NA_NA_NA_NODE_63_length_25294_cov
_2.57332 Genome Set 25294 N/A N/A Tenericutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.21673_4_71.9 Genome Set 112035 N/A ICE Firmicutes

UMGS637_SRR5275454_bin.27_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_2010_length_6543_cov_15.7981 Genome Set 6543 N/A N/A
Firmicutes

UMGS39_ERR525754_bin.18_Firmicutes_Clostridia_Clostridiales_Eubacteriacea
e_Eubacterium_NODE_37_length_137505_cov_32.4012 Genome Set 137505
N/A ICE Firmicutes

NZ_FMIZ01000005.1_Ruminococcus_sp._Marseille-
P2976__whole_genome_shotgun_sequence Genome Set 388347 N/A ICE
Firmicutes

UMGS1730_SRR5275432_bin.16_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE
_8988_length_2871_cov_5.359020 Genome Set 2871 N/A Plasmid
Firmicutes

NZ_FCOY01000004.1_Xanthomonas_sp._SN8_genome_assembly__contig__contig0000
4__whole_genome_shotgun_sequence Genome Set 131009 N/A ICE
Proteobacteria

UMGS156_SRR5558393_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_295_length_33189_cov_8.602682 Genome Set
33189 N/A ICE Bacteroidetes

UMGS1869_ERR414339_bin.30_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_1424_length_22052_cov_5.617675 Genome Set
22052 N/A ICE Bacteroidetes

NZ_AKCB01000003.1_Coprobaecillus_sp._D6_cont1.3__whole_genome_shotgun_sequ
ence Genome Set 397244 N/A ICE Tenericutes

13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.134
14_6_50.1 Genome Set 424995 N/A ICE Firmicutes

14207_7_57_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococc
us_.14207_7_57.1 Genome Set 333975 N/A ICE Firmicutes

NZ_CBYL010000041.1_Clostridium_jeddahense_strain_JCD__whole_genome_shotgu
n_sequence Genome Set 32365 N/A N/A Firmicutes

UMGS1433_SRR6028647_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
ellaceae_Prevotella_NODE_16_length_76487_cov_9.540794 Genome Set
76487 N/A ICE Bacteroidetes

UMGS1402_ERR209831_bin.1_Tenericutes_NA_NA_NA_NA_NODE_3_length_87560_cov_5.002148 Genome Set 87560 N/A N/A Tenericutes

UMGS35_ERR525726_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_753_length_11430_cov_19.9793 Genome Set 11430 N/A N/A Firmicutes

UMGS1681_ERR1620362_bin.35_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_812_length_35439_cov_5.661259 Genome Set 35439 N/A N/A Firmicutes

21673_4_36_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_36.5 Genome Set 178651 N/A ICE Firmicutes

13414_6_39_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.13414_6_39.2 Genome Set 469987 N/A ICE Firmicutes

UMGS1208_ERR589513_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_1731_length_18248_cov_5.069477 Genome Set 18248 N/A ICE Bacteroidetes

UMGS998_ERR1620304_bin.12_Proteobacteria_Deltaproteobacteria_Desulfovibrionales_Desulfovibrionaceae_Desulfovibrio_NODE_209_length_48038_cov_5.503032 Genome Set 48038 N/A ICE Proteobacteria

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_7_43.30 Genome Set 41454 N/A ICE Firmicutes

UMGS514_ERR1620277_bin.40_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_478_length_38943_cov_4.130966 Genome Set 38943 N/A ICE Actinobacteria

UMGS160_SRR2992962_bin.4_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_27_length_62412_cov_10.4679 Genome Set 62412 N/A ICE Firmicutes

UMGS1513_SRR5275432_bin.5_Tenericutes_NA_NA_NA_NA_NODE_22_length_179350_cov_59.083399 Genome Set 179350 N/A ICE Tenericutes

UMGS192_ERR1018298_bin.4_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_441_length_28150_cov_5.511764 Genome Set 28150 N/A ICE Firmicutes

11861_6_65_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.11861_6_65.28 Genome Set 34462 N/A N/A Firmicutes

UMGS1205_ERR209515_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_99_length_64036_cov_52.531580 Genome Set 64036 N/A ICE Bacteroidetes

UMGS261_ERR1190811_bin.41_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_125_length_85822_cov_15.095491 Genome Set 85822 N/A ICE Firmicutes

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.7 Genome Set 173079 N/A ICE Firmicutes

NZ_FLKP01000002.1_Christensenella_timonensis_strain_Marseille-P2437__whole_genome_shotgun_sequence Genome Set 2314156 N/A ICE Firmicutes

UMGS934_ERR1912962_bin.10_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_33_length_116396_cov_8.681883 Genome Set 116396 N/A ICE Firmicutes

UMGS1734_ERR688506_bin.12_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_2400_length_16213_cov_13.971655 Genome Set 16213 N/A Plasmid Firmicutes

NZ_DS995474.1_Collinsella_stercoris_DSM_13279_Scflld1_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 813517 N/A ICE Actinobacteria

NZ_DS990266.1_Clostridiales_bacterium_1_7_47_FAA_supercont2.7_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 55423 N/A ICE
Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_71.20 Genome Set 74436 N/A N/A Firmicutes

UMGS1852_ERR414343_bin.75_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_250_length_61878_cov_8.431733Genome Set 61878 N/A N/A Firmicutes

20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_39.30 Genome Set 18004 N/A N/A Firmicutes

NZ_KB976103.1_Butyricicoccus_pullicaecorum_1.2_genomic_scaffold_acBRA-supercont1.1__whole_genome_shotgun_sequence Genome Set 1868409 N/A ICE Firmicutes

UMGS1772_SRR341608_bin.22_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_804_length_18769_cov_2.262424 Genome Set 18769 N/A ICE Firmicutes

UMGS218_SRR5580022_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_627_length_12530_cov_12.007468 Genome Set 12530 N/A ICE Bacteroidetes

UMGS1730_SRR5275432_bin.16_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_7663_length_3217_cov_12.920936 Genome Set 3217 N/A ICE Firmicutes

13470_2_62_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_62.1 Genome Set 714338 N/A ICE Bacteroidetes

21673_4_77_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_77.3 Genome Set 732612 N/A ICE Firmicutes

UMGS302_ERR688505_bin.28_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_9_length_179201_cov_9.282518 Genome Set 179201 N/A ICE Actinobacteria

NZ_ACII02000003.1_Ruminococcus_sp._5_1_39BFAA_acpfZ-supercont2.3__whole_genome_shotgun_sequence Genome Set 3112511 N/A ICE Firmicutes

UMGS1659_ERR1293936_bin.10_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_NODE_613_length_13945_cov_4.339741 Genome Set 13945 N/A N/A Firmicutes

NZ_DS264263.1_Eubacterium_ventriosum_ATCC_27560_Scflld021_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 2526 N/A Plasmid Firmicutes

18048_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.18048_1_69.17 Genome Set 77872 N/A ICE Firmicutes

NZ_CVPE01000004.1_Bacillaceae_bacterium_mt6_genome_assembly_Rubeoparvulum_massiliensis__contig_contig00004__whole_genome_shotgun_sequence Genome Set 535116 N/A ICE Firmicutes

UMGS218_SRR5580022_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_7_length_147301_cov_6.314786 Genome Set 147301 N/A ICE Bacteroidetes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.29 Genome Set 37545 N/A ICE Firmicutes

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_92.18 Genome Set 92661 N/A ICE Firmicutes

NZ_JH815242.1_Ralstonia_sp._5_2_56FAA_genomic_scaffold_supercont2.7__whole_genome_shotgun_sequence Genome Set 36381 rep_cluster_1864 Plasmid Proteobacteria

UMGS37_ERR1578662_bin.38_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_NODE_221_length_72527_cov_113.748 Genome Set 72527 N/A
ICE Firmicutes

20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_88.1 Genome Set 771986 N/A ICE Firmicutes

13414_6_39_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.13414_6_39.3 Genome Set 446566 N/A ICE Firmicutes

UMGS1436_ERR1190898_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_249_length_74275_cov_8.936486 Genome Set 74275 N/A
ICE Firmicutes

NZ_KB905466.1_Bacteroides_salyersiae_WAL_10018_=DSM_18765_=JCM_12988_genomic_scaffold_acAqE-supercont1.1__whole_genome_shotgun_sequence
Genome Set 3080894 N/A ICE Bacteroidetes

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.3
Genome Set 337269 N/A ICE Firmicutes

20298_3_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.20298_3_81.1 Genome Set 605888 N/A ICE Firmicutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.1 Genome Set 256258 N/A ICE Firmicutes

NZ_KB642536.1_Helicobacter_pylori_GAM264Ai_genomic_scaffold_Scflld398__whole_genome_shotgun_sequence Genome Set 36700 N/A N/A Proteobacteria

UMGS795_SRR5127589_bin.24_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Subdoligranulum_NODE_9_length_201341_cov_33.412130 Genome Set 201341 N/A ICE Firmicutes

UMGS1038_ERR525948_bin.22_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Massiliomicrobiota_NODE_468_length_22553_cov_4.89444
Genome Set 22553 N/A ICE Tenericutes

13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_33.12 Genome Set 139588 N/A ICE Firmicutes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_67.3 Genome Set 198237 N/A ICE Firmicutes

UMGS472_ERR1578619_bin.63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_NODE_1425_length_19206_cov_58.426766 Genome Set 19206 N/A
ICE Firmicutes

20298_3_64_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.20298_3_64.5 Genome Set 228113 N/A ICE Firmicutes

UMGS800_ERR1293918_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_37_length_103190_cov_21.209124 Genome Set 103190
N/A ICE Bacteroidetes

NZ_JH379434.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_Scflld803__whole_genome_shotgun_sequence Genome Set 38026 N/A ICE Bacteroidetes

UMGS1735_ERR525802_bin.17_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_345_length_29864_cov_12.8401 Genome Set 29864 N/A ICE
Firmicutes

NZ_GG657553.1_Holdemania_filiformis_DSM_12042_genomic_scaffold_Scflld2__whole_genome_shotgun_sequence Genome Set 543546 N/A ICE
Tenericutes

13414_6_2_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_2.6
Genome Set 229462 N/A ICE Firmicutes

UMGS1064_ERR321174_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_562_length_11536_cov_4.26017 Genome Set 11536 N/A ICE Bacteroidetes

NZ_LN877937.1_Gabonia_massiliensis_strain_GM3__whole_genome_shotgun_sequence Genome Set 213570 N/A ICE Bacteroidetes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_67.57 Genome Set 630 N/A N/A Firmicutes
 UMG5381_ERR1190860_bin.15_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_46_length_87708_cov_26.695709
 Genome Set 87708 N/A ICE Actinobacteria
 NZ_GG657592.1_Clostridium_asparagiforme_DSM_15981_genomic_scaffold_Scflld6__whole_genome_shotgun_sequence Genome Set 3356774 N/A ICE
 Firmicutes
 13414_6_66_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_66.23 Genome Set 41375 N/A ICE Firmicutes
 20298_3_57_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_.20298_3_57.9 Genome Set 126302 N/A ICE Actinobacteria
 UMG5709_SRR2992911_bin.12_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_3139_length_3595_cov_20.7613 Genome Set 3595
 N/A Plasmid Firmicutes
 13470_2_64_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_64.11 Genome Set 101949 N/A ICE Bacteroidetes
 NZ_KI271072.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold1027__whole_genome_shotgun_sequence Genome Set 109213 N/A ICE
 Firmicutes
 21673_4_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_.21673_4_22.3 Genome Set 326724 N/A ICE Firmicutes
 NZ_JH601090.1_Megamonas_funiformis_YIT_11815_supercont1.1__whole_genome_shotgun_sequence Genome Set 1636111 N/A ICE Firmicutes
 UMG51332_ERR414321_bin.53_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_1262_length_21392_cov_3.587337 Genome Set 21392 N/A ICE Firmicutes
 NZ_ACFY01000057.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont70.1__whole_genome_shotgun_sequence Genome Set 67763 N/A ICE
 Firmicutes
 UMG51377_ERR1305905_bin.49_NA_NA_NA_NA_NA_NODE_113_length_96914_cov_14.421881 Genome Set 96914 N/A ICE NA
 14207_7_1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospiraceae_.14207_7_1.8 Genome Set 176373 N/A ICE Firmicutes
 UMG541_SRR5275454_bin.24_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Anaeromassilibacillus_NODE_17_length_211925_cov_26.8923 Genome Set 211925 N/A ICE Firmicutes
 NZ_DS499707.1_Clostridium_scindens_ATCC_35704_Scflld_02_29_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 132727 N/A ICE
 Firmicutes
 NZ_AKCA01000001.1_Bifidobacterium_bifidum_NCIMB_41171_cont1.1__whole_genome_shotgun_sequence Genome Set 2216395 N/A ICE Actinobacteria
 UMG5803_SRR5127411_bin.10_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_887_length_13709_cov_10.336019 Genome Set 13709 N/A ICE Firmicutes
 UMG5456_ERR209453_bin.40_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_31_length_129207_cov_13.119859 Genome Set 129207 N/A ICE Firmicutes
 UMG544_SRR5963149_bin.7_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_NODE_5_length_495313_cov_32.765189 Genome Set 495313 N/A ICE Firmicutes
 NZ_GL834368.1_Clostridium_symbiosum_WAL-14673_genomic_scaffold_supercont1.12__whole_genome_shotgun_sequence
 Genome Set 106787 N/A ICE Firmicutes

UMGS1212_ERR525936_bin.27_Firmicutes_Clostridia_Clostridiales_Ruminococcaeae_NA_NODE_2350_length_8669_cov_2.62306 Genome Set 8669 N/A N/A
Firmicutes

UMGS1377_ERR1305905_bin.49_NA_NA_NA_NA_NA_NODE_1108_length_33341_cov_14.242144 Genome Set 33341 N/A ICE NA

NZ_GL883855.1_Paraprevotella_xyliniphila_YIT_11841_genomic_scaffold_Scfl99__whole_genome_shotgun_sequence Genome Set 2045 N/A ICE
Bacteroidetes

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_7_43.14 Genome Set 70712 N/A ICE Firmicutes

20287_6_4_Proteobacteria_Betaproteobacteria_Burkholderiales_Alcaligenaceae_Achromobacter_.20287_6_4.4 Genome Set 710199 IncP,IncQ2 ICE
Proteobacteria

UMGS1144_SRR5032340_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_4_length_260214_cov_14.297806 Genome Set 260214 N/A ICE
Firmicutes

UMGS1963_DRR042312_bin.16_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Eggerthella_NODE_1191_length_18493_cov_3.711804
Genome Set 18493 N/A ICE Actinobacteria

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_7_23.43 Genome Set 39614 rep_cluster_1702 N/A
Bacteroidetes

NZ_GG705181.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.9__whole_genome_shotgun_sequence Genome Set 90755 N/A ICE Bacteroidetes

UMGS1711_SRR5558284_bin.37_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_47_length_168564_cov_8.303519 Genome Set 168564 N/A N/A Firmicutes

UMGS968_ERR525795_bin.39_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_1183_length_15116_cov_4.097669 Genome Set 15116 N/A ICE
Firmicutes

UMGS622_ERR321346_bin.18_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_955_length_11955_cov_8.86403 Genome Set 11955 N/A ICE Bacteroidetes

13414_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_37.12
Genome Set 89986 N/A ICE Firmicutes

NZ_DS996841.1_Eubacterium_biforme_DSM_3989_Scfl5_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 708572 N/A ICE
Tenericutes

NZ_ACFY01000054.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont67.1__whole_genome_shotgun_sequence Genome Set 46779 N/A ICE
Firmicutes

NZ_LN869528.1_Intestinimonas_sp._GD2_genome_assembly_Intestinimonas_massiliensis_scaffold_scaffold00006__whole_genome_shotgun_sequence Genome Set 804651 N/A ICE Firmicutes

UMGS961_SRR5057100_bin.26_Firmicutes_Clostridia_Clostridiales_Clostridiaceae_Butyricicoccus_NODE_452_length_46612_cov_5.555083 Genome Set 46612 N/A ICE Firmicutes

UMGS17_SRR3737013_bin.48_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_276_length_43015_cov_13.767109 Genome Set 43015 N/A ICE Firmicutes

UMGS218_SRR5580022_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_133_length_36504_cov_6.291048 Genome Set 36504 N/A ICE Bacteroidetes

13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.134
14_6_50.2 Genome Set 378707 N/A ICE Firmicutes
NZ_KE150409.1_Lachnospiraceae_bacterium_3_1_57FAA_CT1_acsNU-
supercont1.5__whole_genome_shotgun_sequence Genome Set 184717 N/A
ICE Firmicutes
18048_2_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
8048_2_67.2 Genome Set 443033 N/A ICE Firmicutes
NZ_CWHU01000005.1_Anaerococcus_sp._SB3_genome_assembly_Anaerococcus_jedda
hense__contig_contig00005__whole_genome_shotgun_sequence Genome Set
1226270 rep_cluster_1663 ICE Firmicutes
UMGS456_ERR209453_bin.40_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_Ruminococcus_NODE_30_length_133920_cov_12.062787 Genome Set
133920 N/A ICE Firmicutes
UMGS1140_ERR1018283_bin.51_Tenericutes_Mollicutes_Erysipelotrichales_Erys
ipelotrichaceae_Solobacterium_NODE_86_length_76213_cov_9.552102
Genome Set 76213 N/A ICE Tenericutes
NZ_HE611017.1_Senegalimassilia_anaerobia_JC110__type_strain_JC110T__genom
ic_scaffold__scaffold00004__whole_genome_shotgun_sequenceGenome Set
264112 N/A ICE Actinobacteria
UMGS179_ERR589512_bin.12_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_NA_NODE_319_length_65025_cov_23.740326 Genome Set 65025 N/A ICE
Firmicutes
21673_4_80_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.21673_4_80.12 Genome Set 167905 N/A ICE Firmicutes
UMGS963_SRR4305041_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroi
daceae_Bacteroides_NODE_45_length_38197_cov_22.7003Genome Set 38197 N/A
ICE Bacteroidetes
NZ_JH376420.1_Clostridium_citroniae_WAL-
17108_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence
Genome Set 2194785 N/A ICE Firmicutes
NZ_GG705182.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.10__whol
e_genome_shotgun_sequence Genome Set 73869 rep_cluster_1702 ICE
Bacteroidetes
13414_6_32_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_32.1 Genome Set 593637 N/A ICE Firmicutes
UMGS1433_SRR6028647_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
ellaceae_Prevotella_NODE_136_length_28870_cov_10.513240 Genome Set
28870 N/A ICE Bacteroidetes
13470_2_71_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_
NA_.13470_2_71.3 Genome Set 243995 N/A ICE Tenericutes
UMGS1598_ERR414334_bin.22_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
llaceae_Prevotella_NODE_1092_length_26113_cov_4.072377 Genome Set
26113 N/A N/A Bacteroidetes
UMGS1056_SRR3992965_bin.74_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE
_1785_length_19243_cov_5.429354 Genome Set 19243 N/A ICE Firmicutes
UMGS200_SRR6028624_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_Ruminococcus_NODE_276_length_18688_cov_6.985349 Genome Set
18688 N/A Plasmid Firmicutes
UMGS1601_SRR2155375_bin.1_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_Ruminococcus_NODE_1898_length_7571_cov_4.448377 Genome Set 7571
N/A ICE Firmicutes
UMGS1217_SRR1761720_bin.9_Tenericutes_NA_NA_NA_NA_NODE_44_length_92739_co
v_8.902195 Genome Set 92739 N/A N/A Tenericutes

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.5
 Genome Set 255503 N/A ICE Firmicutes
 NZ_ADDR02000002.1_Desulfovibrio_sp._3_1_syn3_acqcX-
 supercont2.2__whole_genome_shotgun_sequence Genome Set 721572 N/A
 ICE Proteobacteria
 20298_3_71_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_71.2
 Genome Set 909011 N/A ICE Firmicutes
 NZ_JH594596.1_Odoribacter_laneus_YIT_12061_supercont1.1__whole_genome_sho
 tgun_sequence Genome Set 2957506 N/A ICE Bacteroidetes
 NZ_AAVN02000002.1_Collinsella_aerofaciens_ATCC_25986_C_aerofaciens-
 2.0_Cont899__whole_genome_shotgun_sequence Genome Set 386275 N/A
 ICE Actinobacteria
 UMGs1677_ERR1190831_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostrep
 tococcaceae_Clostridium_NODE_24_length_166096_cov_9.187014 Genome Set
 166096 N/A N/A Firmicutes
 UMGs1710_ERR1293845_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Bacter
 oidaceae_Bacteroides_NODE_435_length_18338_cov_3.844500 Genome Set
 18338 N/A ICE Bacteroidetes
 NZ_ABJL02000003.1_Bacteroides_intestinalis_DSM_17393_B_intestinalis-
 2.0.1_Cont561__whole_genome_shotgun_sequence Genome Set 46646
 rep_cluster_663 N/A Bacteroidetes
 18048_2_90_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Odo
 ribacter_.18048_2_90.3 Genome Set 387264 N/A ICE Bacteroidetes
 14207_7_10_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_
 7_10.4 Genome Set 362551 N/A ICE Firmicutes
 21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_
 4_12.14 Genome Set 115548 N/A ICE Firmicutes
 UMGs780_ERR1913071_bin.12_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
 llaceae_Prevotella_NODE_143_length_60193_cov_22.254764 Genome Set
 60193 N/A ICE Bacteroidetes
 UMGs1762_SRR1761711_bin.32_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
 ellaceae_Prevotella_NODE_9221_length_2735_cov_2.786940 Genome Set 2735
 N/A N/A Bacteroidetes
 14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.4
 Genome Set 284769 N/A ICE Firmicutes
 UMGs1834_SRR5127700_bin.13_Actinobacteria_Actinobacteria_Coriobacteriales
 _Coriobacteriaceae_Collinsella_NODE_1210_length_8641_cov_5.730142
 Genome Set 8641 N/A N/A Actinobacteria
 UMGs373_ERR414242_bin.31_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
 laceae_Prevotella_NODE_796_length_19961_cov_19.9192 Genome Set 19961 N/A
 ICE Bacteroidetes
 UMGs1622_ERR414356_bin.21_Firmicutes_Clostridia_Clostridiales_Lachnospira
 ceae_Blautia_NODE_465_length_56872_cov_9.165567 Genome Set 56872 N/A
 ICE Firmicutes
 NZ_JH376577.1_Paraprevotella_clara_YIT_11840_Scflld0__whole_genome_shotgun
 _sequence Genome Set 96238 N/A ICE Bacteroidetes
 UMGs792_SRR5580076_bin.53_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
 45_length_147092_cov_9.918831 Genome Set 147092 N/A ICE
 Firmicutes
 NZ_DS995509.1_Bacteroides_eggerthii_DSM_20697_Scflld1_genomic_scaffold__wh
 ole_genome_shotgun_sequence Genome Set 1334896 N/A ICE
 Bacteroidetes
 13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_
 2_93.17 Genome Set 72622 N/A ICE Firmicutes

UMGS904_SRR1761720_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_NODE_69_length_72416_cov_9.436133 Genome Set
72416 N/A ICE Firmicutes

UMGS698_ERR414252_bin.16_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_78_length_117022_cov_32.496636 Genome Set
117022 N/A ICE Bacteroidetes

13414_6_44_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_13414_6_44.49 Genome Set 9273 N/A ICE Firmicutes

NZ_HE978639.1_Aeromicrobium_sp._JC14_genomic_scaffold_scaffold00004__whole_genome_shotgun_sequence Genome Set 77148 N/A N/A Actinobacteria

UMGS1573_ERR321203_bin.19_Tenericutes_NA_NA_NA_NA_NODE_1639_length_5299_cov_3.417620 Genome Set 5299 N/A ICE Tenericutes

14207_7_95_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_14207_7_95.2 Genome Set 457756 N/A ICE Firmicutes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_14207_6_9.10 Genome Set 123469 N/A ICE Bacteroidetes

14207_7_70_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_14207_7_70.1 Genome Set 789399 N/A ICE Bacteroidetes

UMGS920_SRR6028474_bin.9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Butyrvibrio_NODE_28_length_77954_cov_7.308130 Genome Set 77954 N/A
ICE Firmicutes

13414_6_44_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_13414_6_44.41 Genome Set 12829 N/A ICE Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.42 Genome Set 18400 N/A ICE Firmicutes

20298_3_66_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_20298_3_66.7 Genome Set 117402 N/A ICE Firmicutes

UMGS199_SRR4408188_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_NODE_33_length_69374_cov_20.8125 Genome Set 69374 N/A
ICE Firmicutes

UMGS624_ERR011095_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_26_length_69394_cov_8.11064 Genome Set 69394 N/A
ICE Bacteroidetes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_56.15
Genome Set 109106 N/A ICE Firmicutes

UMGS1226_SRR5057015_bin.98_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_242_length_88696_cov_7.526754 Genome Set 88696 N/A ICE Firmicutes

20298_3_64_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_20298_3_64.12 Genome Set 64331 N/A ICE Firmicutes

12718_7_29_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_12718_7_29.10 Genome Set 258097 N/A ICE Bacteroidetes

UMGS2007_ERR209576_bin.9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_395_length_8553_cov_1.800306 Genome Set 8553
N/A ICE Bacteroidetes

UMGS802_ERR1305895_bin.91_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_597_length_41768_cov_5.095678 Genome Set 41768 N/A ICE
Firmicutes

NZ_JH376598.1_Paraprevotella_clara_YIT_11840_Scflld35__whole_genome_shotgun_sequence Genome Set 76759 N/A ICE Bacteroidetes

UMGS1511_ERR1018258_bin.18_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_3124_length_11894_cov_5.321987
Genome Set 11894 N/A ICE Bacteroidetes

UMGS1083_SRR2912778_bin.6_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_982_length_10929_cov_13.004046
Genome Set 10929 N/A N/A Actinobacteria

NZ_GL538349.1_Faecalibacterium_cf._prausnitzii_KLE1255_genomic_scaffold_ScflD712__whole_genome_shotgun_sequence Genome Set 26688 N/A N/A
Firmicutes

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.26 Genome Set 38789 N/A ICE Firmicutes

UMGS82_ERR525898_bin.19_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_17_length_193910_cov_13.6605 Genome Set 193910 N/A ICE Firmicutes

13414_6_60_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_60.15
Genome Set 54964 N/A ICE Firmicutes

13470_2_64_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_64.2 Genome Set 191018 N/A ICE Bacteroidetes

NZ_GG657591.1_Clostridium_asparagiforme_DSM_15981_genomic_scaffold_ScflD5__whole_genome_shotgun_sequence Genome Set 1153127 N/A ICE
Firmicutes

20298_3_36_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_.20298_3_36.4 Genome Set 185641 N/A N/A Firmicutes

18048_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_1_72.7 Genome Set 199243 N/A ICE Firmicutes

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_92.2 Genome Set 211300 N/A ICE Firmicutes

NZ_KE150238.1_Bilophila_wadsworthia_3_1_6_genomic_scaffold_acCls-supercont2.1__whole_genome_shotgun_sequence Genome Set 3169074 N/A
ICE Proteobacteria

21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_12.2 Genome Set 345794 N/A ICE Firmicutes

UMGS1356_ERR505088_bin.30_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_3595_length_11570_cov_126.911854 Genome Set 11570 N/A ICE Firmicutes

NZ_DS483486.1_Faecalibacterium_prausnitzii_M21_2_ScflD_02_7_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 13467 N/A N/A Firmicutes

NZ_JH376586.1_Paraprevotella_clara_YIT_11840_ScflD10__whole_genome_shotgun_sequence Genome Set 60713 N/A ICE Bacteroidetes

NZ_KI391948.1_Ruminococcaceae_bacterium_D16_genomic_scaffold_acsPy-supercont2.2__whole_genome_shotgun_sequence Genome Set 992687 N/A
ICE Firmicutes

14207_6_13_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_6_13.10 Genome Set 116085 N/A ICE Bacteroidetes

UMGS126_ERR1190874_bin.16_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_1059_length_29136_cov_12.198962 Genome Set 29136 N/A ICE Firmicutes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_6_9.18 Genome Set 76947 N/A ICE Bacteroidetes

20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_88.6 Genome Set 304030 N/A ICE Firmicutes

UMGS594_SRR5963240_bin.13_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_An aerococcus_NODE_54_length_93061_cov_95.302181 Genome Set 93061 N/A ICE Firmicutes

UMGS881_SRR4033077_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Pseudobutyrvibrio_NODE_17_length_71722_cov_19.268785 Genome Set 71722 N/A ICE Firmicutes

UMGS126_ERR1190874_bin.16_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_688_length_38284_cov_11.209265 Genome Set 38284 N/A ICE Firmicutes

20298_3_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_20298_3_63.2 Genome Set 678153 N/A ICE Bacteroidetes

UMGS1759_ERR209240_bin.10_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_NODE_1302_length_12666_cov_2.548727 Genome Set 12666 N/A ICE Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_56.26 Genome Set 30757 N/A N/A Firmicutes

NZ_CCYK01000002.1_Pseudomonas_sp._CB1_genome_assembly_Pseudomonas_massiliensis_CB1_contig_contig00002_whole_genome_shotgun_sequence Genome Set 139806 N/A N/A Proteobacteria

NZ_KE993597.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold30_whole_genome_shotgun_sequence Genome Set 53479 N/A ICE Firmicutes

UMGS1687_ERR209185_bin.21_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Butyrvibrio_NODE_3065_length_4148_cov_1.632055 Genome Set 4148 N/A N/A Firmicutes

UMGS664_ERR209886_bin.11_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_37_length_104321_cov_4.870945 Genome Set 104321 N/A ICE Firmicutes

UMGS695_ERR1913046_bin.9_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_903_length_16931_cov_5.409635 Genome Set 16931 N/A Plasmid Tenericutes

18048_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_18048_1_69.7 Genome Set 145375 N/A ICE Firmicutes

NZ_LN898230.1_Tissierellia_bacterium_GD9_genome_assembly_Micromassilia_timonensis_scaffold_scaffold00008_whole_genome_shotgun_sequence Genome Set 1049559 N/A ICE Firmicutes

NZ_GG662014.1_Coprococcus_comes_ATCC_27758_genomic_scaffold_Scflld9_whole_genome_shotgun_sequence Genome Set 891565 N/A ICE Firmicutes

20298_3_35_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_20298_3_35.6 Genome Set 158206 N/A ICE Firmicutes

UMGS636_ERR1305895_bin.68_Tenericutes_Mollicutes_NA_NA_NA_NODE_868_length_33424_cov_12.076089 Genome Set 33424 N/A N/A Tenericutes

UMGS595_SRR5127461_bin.3_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_2_length_139026_cov_8.832699 Genome Set 139026 N/A ICE Actinobacteria

NZ_JH414700.1_Subdoligranulum_sp._4_3_54A2FAA_genomic_scaffold_supercont1.3_whole_genome_shotgun_sequence Genome Set 325285 N/A ICE Firmicutes

UMGS1054_SRR5056649_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_7693_length_5966_cov_10.379124 Genome Set 5966 N/A ICE Firmicutes

UMGS1073_ERR1190946_bin.14_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Paraprevotella_NODE_491_length_61893_cov_9.579094 Genome Set 61893 N/A ICE Bacteroidetes

11861_6_65_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_11861_6_65.10 Genome Set 163406 N/A ICE Firmicutes

20298_3_8_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_NA_20298_3_8.4 Genome Set 218218 N/A ICE Tenericutes

UMGS462_ERR1305881_bin.83_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_27_length_226082_cov_9.547497 Genome Set 226082 N/A ICE Firmicutes

UMGS285_SRR1201570_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_7
0_length_63969_cov_10.3672 Genome Set 63969 N/A ICE Firmicutes

UMGS1869_ERR414339_bin.30_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_317_length_58037_cov_6.232331 Genome Set
58037 N/A ICE Bacteroidetes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.20287_6_53.10 Genome Set 296783 N/A ICE Bacteroidetes

UMGS2027_SRR1761721_bin.40_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
ellaceae_Prevotella_NODE_636_length_20534_cov_9.531276 Genome Set
20534 N/A ICE Bacteroidetes

NZ_LT594610.1_Butyricimonas_sp._Marseille-
P2440__whole_genome_shotgun_sequence Genome Set 2198421 N/A ICE
Bacteroidetes

14207_6_13_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.14207_6_13.27 Genome Set 59553 N/A ICE Bacteroidetes

NZ_DS547021.1_Clostridium_sp._SS2_1_Scfld_03_25_genomic_scaffold__whole_g
enome_shotgun_sequence Genome Set 141704 N/A ICE Firmicutes

UMGS536_SRR5275432_bin.34_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_Ruminococcus_NODE_12_length_219509_cov_50.293556 Genome Set
219509 N/A ICE Firmicutes

UMGS1869_ERR414339_bin.30_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_1073_length_27642_cov_4.981404 Genome Set
27642 N/A ICE Bacteroidetes

UMGS1630_SRR453564_bin.8_Firmicutes_Clostridia_Clostridiales_Peptostrepto
coccaceae_Clostridium_NODE_37_length_101487_cov_9.578752 Genome Set
101487 N/A ICE Firmicutes

20287_6_4_Proteobacteria_Betaproteobacteria_Burkholderiales_Alcaligenacea
e_Achromobacter_.20287_6_4.7 Genome Set 400192 rep_cluster_10 ICE
Proteobacteria

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococc
us_.13414_6_17.18Genome Set 61745 N/A ICE Firmicutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_
2_93.52 Genome Set 2402 N/A Plasmid Firmicutes

NZ_JH376872.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supe
rcont1.3__whole_genome_shotgun_sequence Genome Set 722831 N/A ICE
Firmicutes

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_
3_65.8 Genome Set 193131 N/A ICE Firmicutes

UMGS12_SRR5106488_bin.11_Proteobacteria_Betaproteobacteria_Burkholderiale
s_Sutterellaceae_Sutterella_NODE_64_length_90652_cov_9.532432 Genome Set
90652 N/A ICE Proteobacteria

20298_3_48_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
0298_3_48.11 Genome Set 229996 N/A ICE Firmicutes

UMGS1436_ERR1190898_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospir
aceae_Blautia_NODE_718_length_35044_cov_12.739690 Genome Set 35044 N/A
ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.5
Genome Set 150734 N/A ICE Firmicutes

UMGS26_ERR1953518_bin.80_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Eggerthella_NODE_30_length_230818_cov_5.550955
Genome Set 230818 N/A ICE Actinobacteria

13414_6_2_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_2.3
Genome Set 398165 N/A ICE Firmicutes

UMGS83_ERR911953_bin.80_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_7_length_307653_cov_12.780489 Genome Set 307653 N/A ICE Firmicutes

20298_3_4_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Citrobacter_.20298_3_4.3 Genome Set 548481 N/A ICE Proteobacteria

UMGS1117_SRR5127624_bin.20_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_236_length_38547_cov_7.410553 Genome Set 38547 N/A ICE Actinobacteria

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_7_84.3 Genome Set 409702 N/A ICE Firmicutes

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_3.9 Genome Set 121909 N/A ICE Firmicutes

18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_.18048_2_82.7 Genome Set 94736 N/A ICE Firmicutes

18048_2_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_2_67.5 Genome Set 317204 N/A ICE Firmicutes

13414_6_2_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_2.9 Genome Set 125026 N/A ICE Firmicutes

20298_3_64_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.20298_3_64.2 Genome Set 367086 N/A ICE Firmicutes

18048_2_85_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.18048_2_85.7 Genome Set 136556 N/A ICE Firmicutes

UMGS1778_ERR1190962_bin.65_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_6873_length_6464_cov_2.446560 Genome Set 6464 N/A ICE Firmicutes

NZ_DS995508.1_Bacteroides_eggerthii_DSM_20697_Scflld0_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 660394 N/A ICE Bacteroidetes

14207_7_32_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_32.1 Genome Set 173084 N/A ICE Firmicutes

20298_3_66_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_.20298_3_66.6 Genome Set 117522 N/A ICE Firmicutes

18048_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_1_72.3 Genome Set 400443 N/A ICE Firmicutes

13470_2_62_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_62.9 Genome Set 110983 N/A ICE Bacteroidetes

21673_4_77_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_77.4 Genome Set 184413 N/A ICE Firmicutes

NZ_LN913001.1_Ruminococcus_sp._AT10_genome_assembly_Ruminococcus_phoceensis_scaffold_scaffold00005__whole_genome_shotgun_sequence Genome Set 2164948 N/A ICE Firmicutes

NZ_KI392031.1_Oxalobacter_formigenes_HOxBLS_genomic_scaffold_supercont2.2__whole_genome_shotgun_sequence Genome Set 1806203 N/A ICE Proteobacteria

NZ_JH376605.1_Paraprevotella_clara_YIT_11840_Scflld59__whole_genome_shotgun_sequence Genome Set 177041 N/A ICE Bacteroidetes

UMGS219_ERR321453_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_3_length_68502_cov_2.63624 Genome Set 68502 N/A ICE Bacteroidetes

20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_.20287_6_22.8 Genome Set 87545 N/A N/A Firmicutes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_7_84.8 Genome Set 147599 N/A ICE Firmicutes

NZ_CVPE01000006.1_Bacillaceae_bacterium_mt6_genome_assembly_Rubeoparvulum
_massiliensis__contig_contig00006__whole_genome_shotgun_sequence
Genome Set 1233124 N/A ICE Firmicutes

NZ_DS995511.1_Bacteroides_eggerthii_DSM_20697_ScflD3_genomic_scaffold__wh
ole_genome_shotgun_sequence Genome Set 989858 N/A ICE
Bacteroidetes

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138176.8080_1_78.11 Genome Set 196606 N/A ICE
Firmicutes

8080_1_80_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_S
olobacterium_ERS138178.8080_1_80.9Genome Set 126984 N/A ICE
Tenericutes

NZ_JH992940.1_Bacteroides_oleiciplenus_YIT_12058_genomic_scaffold_superco
ntl.1__whole_genome_shotgun_sequence Genome Set 1947083 N/A ICE
Bacteroidetes

UMGS2010_ERR209156_bin.11_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Lachnobacterium_NODE_2423_length_3714_cov_2.002186 Genome Set 3714
N/A N/A Firmicutes

NZ_GL834359.1_Clostridium_symbiosum_WAL-
14673_genomic_scaffold_supercont1.3__whole_genome_shotgun_sequence
Genome Set 647965 N/A ICE Firmicutes

UMGS1699_SRR341590_bin.30_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_192_length_59114_cov_3.777443Genome Set
59114 N/A N/A Firmicutes

14207_7_86_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_86.3
Genome Set 468617 N/A ICE Firmicutes

NZ_GG657557.1_Holdemania_filiformis_DSM_12042_genomic_scaffold_ScflD6__wh
ole_genome_shotgun_sequence Genome Set 411888 N/A ICE
Tenericutes

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
1861_6_58.4Genome Set 264389 N/A ICE Firmicutes

NZ_JH376873.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supe
rcont1.4__whole_genome_shotgun_sequence Genome Set 366225 N/A ICE
Firmicutes

NZ_GG704769.1_Subdoligranulum_variabile_DSM_15176_genomic_scaffold_ScflD0
__whole_genome_shotgun_sequence Genome Set 2385595 N/A ICE
Firmicutes

NZ_JH594448.1_Eubacterium_sp._3_1_31_genomic_scaffold_supercont1.1__whole
_genome_shotgun_sequence Genome Set 2298056 N/A ICE
Tenericutes

NZ_KI271191.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold899
__whole_genome_shotgun_sequence Genome Set 46574 N/A ICE Firmicutes

UMGS1577_ERR1305905_bin.1_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
898_length_37739_cov_4.360232 Genome Set 37739 N/A ICE Firmicutes

NZ_CAE001000208.1_Enterobacter_massiliensis_JC163_strain_type_strain__JC1
63__whole_genome_shotgun_sequence Genome Set 318 N/A Plasmid
Proteobacteria

UMGS1099_ERR526047_bin.23_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
4608_length_6813_cov_9.427937 Genome Set 6813 N/A ICE Firmicutes

UMGS1624_ERR688644_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_461_length_32766_cov_15.976736 Genome Set
32766 N/A ICE Bacteroidetes

UMGS1208_ERR589513_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_46_length_121614_cov_4.806925 Genome Set 121614 N/A ICE Bacteroidetes

UMGS1855_ERR1190896_bin.57_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_29_length_179755_cov_4.834841 Genome Set 179755 N/A ICE Bacteroidetes

UMGS1938_SRR5963258_bin.3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Dysgonomonas_NODE_100_length_75268_cov_99.547379 Genome Set 75268 N/A ICE Bacteroidetes

NZ_ACFY01000048.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont60.1__whole_genome_shotgun_sequence Genome Set 31095 N/A ICE Firmicutes

NZ_HG726025.1_Bacteroides_neonati_strain_MS4__whole_genome_shotgun_sequence Genome Set 271585 N/A ICE Bacteroidetes

18048_2_85_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_18048_2_85.10 Genome Set 93432 N/A ICE Firmicutes

UMGS1672_ERR2013583_bin.9_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_54_length_164558_cov_16.572257 Genome Set 164558 N/A ICE Firmicutes

NZ_GL945337.1_Lachnospiraceae_bacterium_2_1_58FAA_genomic_scaffold_supercont1.5__whole_genome_shotgun_sequence Genome Set 278834 N/A ICE Firmicutes

14207_7_1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_14207_7_1.3 Genome Set 438596 N/A ICE Firmicutes

20298_2_7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_20298_2_7.5 Genome Set 560007 N/A ICE Bacteroidetes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_21673_4_18.36 Genome Set 19276 N/A ICE Firmicutes

14207_7_52_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_14207_7_52.1 Genome Set 845708 N/A ICE Firmicutes

UMGS1064_ERR321174_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_3249_length_2890_cov_3.39048 Genome Set 2890 N/A ICE Bacteroidetes

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_14207_7_23.19 Genome Set 131424 N/A ICE Bacteroidetes

UMGS920_SRR6028474_bin.9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Butyrvibrio_NODE_749_length_10903_cov_8.213772 Genome Set 10903 N/A N/A Firmicutes

UMGS1054_SRR5056649_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_9844_length_4597_cov_10.618670 Genome Set 4597 N/A ICE Firmicutes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_89.19 Genome Set 62075 N/A ICE Firmicutes

NZ_HE578945.1_Enterobacter_massiliensis_JC163_strain_type_strain_JC163__whole_genome_shotgun_sequence Genome Set 2115321 N/A ICE Proteobacteria

20287_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_20287_6_33.4 Genome Set 104028 N/A ICE Firmicutes

NZ_GG663524.1_Butyrvibrio_crossotus_DSM_2876_genomic_scaffold_Scflld20__whole_genome_shotgun_sequence Genome Set 1117448 N/A ICE Firmicutes

20298_3_71_Firmicutes_Clostridia_Clostridiales_NA_NA_20298_3_71.5 Genome Set 91539 N/A ICE Firmicutes

UMGS1126_ERR414269_bin.20_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_370_length_34268_cov_5.871452 Genome Set 34268 N/A ICE Bacteroidetes

NZ_GG662007.1_Coprococcus_comes_ATCC_27758_genomic_scaffold_Scflld2__whole_genome_shotgun_sequence Genome Set 847455 N/A ICE Firmicutes

UMGS1222_SRR5579983_bin.22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_802_length_32127_cov_4.087239 Genome Set 32127 N/A N/A Firmicutes

NZ_GL538344.1_Faecalibacterium_cf._prausnitzii_KLE1255_genomic_scaffold_Scflld597__whole_genome_shotgun_sequence Genome Set 114818 N/A ICE Firmicutes

UMGS918_ERR911961_bin.59_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_205_length_112838_cov_27.934804 Genome Set 112838 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.9 Genome Set 95645 N/A ICE Firmicutes

NZ_GL520141.1_Erysipelotrichaceae_bacterium_3_1_53_genomic_scaffold_supercont1.10__whole_genome_shotgun_sequence Genome Set 166748 N/A ICE Tenericutes

13470_2_65_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_65.1 Genome Set 545501 N/A ICE Bacteroidetes

21673_4_5_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Barnesiella_.21673_4_5.1 Genome Set 1093194 N/A ICE Bacteroidetes

UMGS762_SRR5127675_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_71_length_46760_cov_44.470464 Genome Set 46760 N/A ICE Firmicutes

NZ_KI391975.1_Streptococcus_sp._2_1_36FAA_genomic_scaffold_supercont2.4__whole_genome_shotgun_sequence Genome Set 512958 N/A ICE Firmicutes

NZ_DS990120.2_Bacteroides_plebeius_DSM_17135_Scflld_02_3_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 51161 rep_cluster_663 N/A Bacteroidetes

UMGS1469_ERR688640_bin.60_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_57_length_133550_cov_7.011229 Genome Set 133550 N/A ICE Tenericutes

UMGS528_ERR526064_bin.43_Proteobacteria_Gammaproteobacteria_Aeromonadales_Succinivibrionaceae_NA_NODE_3497_length_7174_cov_3.224189 Genome Set 7174 N/A N/A Proteobacteria

UMGS1255_ERR1578662_bin.19_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_442_length_42292_cov_5.23548 Genome Set 42292 N/A N/A Tenericutes

UMGS261_ERR1190811_bin.41_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_118_length_87886_cov_15.631121 Genome Set 87886 N/A ICE Firmicutes

13414_6_47_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospirillum_.13414_6_47.1 Genome Set 454536 N/A ICE Firmicutes

UMGS1698_ERR866580_bin.6_Proteobacteria_Betaproteobacteria_Rhodocyclales_Rhodocyclaceae_NA_NODE_386_length_5075_cov_2.65837 Genome Set 5075 N/A ICE Proteobacteria

14207_7_83_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_.14207_7_83.13 Genome Set 127496 N/A ICE Firmicutes

NZ_DS981459.1_Bacteroides_coprocola_DSM_17136_Scflld_02_32_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 55654 N/A ICE Bacteroidetes

12718_7_92_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.12718_7_92.2 Genome Set 440044 N/A ICE Firmicutes

UMGS387_SRR2912795_bin.15_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_41_length_120776_cov_13.684951 Genome Set 120776 N/A ICE Actinobacteria

UMGS1683_ERR688506_bin.43_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_99_length_104584_cov_15.811583
Genome Set 104584 N/A ICE Actinobacteria

UMGS1234_SRR3582140_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_405_length_24976_cov_14.490109 Genome Set 24976 N/A ICE Firmicutes

NZ_KQ033902.1_Parabacteroides_sp._HGS0025_genomic_scaffold_aczIs-supercont1.1_whole_genome_shotgun_sequence Genome Set 4460853 N/A
ICE Bacteroidetes

13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_33.10 Genome Set 204662 N/A ICE Firmicutes

UMGS59_ERR589527_bin.14_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_1354_length_20035_cov_12.651502 Genome Set 20035 N/A
ICE Firmicutes

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_7_23.49 Genome Set 27784 N/A ICE Bacteroidetes

20298_3_36_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_.20298_3_36.2 Genome Set 497322 N/A ICE Firmicutes

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_ERS138176.8080_1_78.67 Genome Set 11833 N/A N/A Firmicutes

20298_3_58_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_58.14
Genome Set 110548 N/A ICE Firmicutes

NZ_FIZW01000002.1_Murdochiella_massiliensis_strain_SIT12_whole_genome_shotgun_sequence Genome Set 1293679 N/A ICE Firmicutes

NZ_GL405236.1_Campylobacter_coli_JV20_genomic_scaffold_SCAFFOLD2_whole_genome_shotgun_sequence Genome Set 28289 N/A N/A Proteobacteria

UMGS173_ERR589506_bin.19_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_18_length_337837_cov_14.6476 Genome Set 337837
N/A ICE Firmicutes

14207_7_87_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_87.24
Genome Set 37528 N/A N/A Firmicutes

14207_6_12_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_.14207_6_12.4 Genome Set 197981 N/A ICE Bacteroidetes

NZ_GL945171.1_Lachnospiraceae_bacterium_1_4_56FAA_genomic_scaffold_supercont1.9_whole_genome_shotgun_sequence Genome Set 85416 N/A ICE
Firmicutes

NZ_LN884299.1_Paenibacillus_ihumii_strain_AT5_whole_genome_shotgun_sequence Genome Set 4112046 N/A ICE Firmicutes

13414_6_34_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.13414_6_34.3 Genome Set 567454 N/A ICE Firmicutes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.14207_6_3.35 Genome Set 22181 N/A ICE Bacteroidetes

20298_2_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.20298_2_23.5 Genome Set 207404 N/A ICE Bacteroidetes

UMGS94_SRR5558107_bin.35_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_156_length_115659_cov_6.943226
Genome Set 115659 N/A ICE Actinobacteria

18048_2_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_2_67.12 Genome Set 113960 N/A ICE Firmicutes

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_7_43.42 Genome Set 22823 N/A ICE Firmicutes

UMGS1132_ERR1620269_bin.14_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_121_length_54507_cov_7.979468 Genome Set 54507 N/A ICE Firmicutes

NZ_GL890520.1_Lachnospiraceae_bacterium_3_1_46FAA_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 923619 N/A ICE Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.19 Genome Set 67040 N/A ICE Firmicutes

NZ_GL890551.1_Lachnospiraceae_bacterium_6_1_63FAA_genomic_scaffold_supercont1.4__whole_genome_shotgun_sequence Genome Set 331894 N/A ICE Firmicutes

UMGS359_ERR526036_bin.30_Firmicutes_Negativicutes_Selenomonadales_Veillonellaceae_Dialister_NODE_34_length_187451_cov_9.88886 Genome Set 187451 N/A ICE Firmicutes

NZ_JH660541.1_Escherichia_sp._4_1_40B_supercont2.3__whole_genome_shotgun_sequence Genome Set 2711194 N/A ICE Proteobacteria

UMGS763_ERR414230_bin.27_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_650_length_35963_cov_5.078061 Genome Set 35963 N/A ICE Bacteroidetes

NZ_GL636615.1_Streptococcus_anginosus_1_2_62CV_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 1137758 N/A ICE Firmicutes

UMGS355_ERR1018193_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_415_length_41034_cov_12.974890 Genome Set 41034 N/A ICE Bacteroidetes

NZ_GL834360.1_Clostridium_symbiosum_WAL-14673_genomic_scaffold_supercont1.4__whole_genome_shotgun_sequence Genome Set 628413 N/A ICE Firmicutes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.25 Genome Set 37136 N/A ICE Firmicutes

UMGS722_ERR1297657_bin.16_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_463_length_19232_cov_3.599990 Genome Set 19232 N/A N/A Actinobacteria

UMGS2059_ERR1297781_bin.12_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_1306_length_5134_cov_1.744241 Genome Set 5134 N/A N/A Actinobacteria

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.10 Genome Set 106334 N/A ICE Firmicutes

NZ_CTEJ01000002.1_Lascolabacillus_massiliensis_strain_SIT8__whole_genome_shotgun_sequence Genome Set 1664769 N/A ICE Bacteroidetes

13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13470_2_81.55 Genome Set 15516 N/A ICE Firmicutes

UMGS339_ERR688601_bin.50_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_139_length_59262_cov_20.122553 Genome Set 59262 N/A N/A Tenericutes

13470_2_67_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_.13470_2_67.1 Genome Set 1084885 N/A ICE Bacteroidetes

NZ_JH370372.1_Alistipes_indistinctus_YIT_12060_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1180242 N/A ICE Bacteroidetes

14207_7_90_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_90.24 Genome Set 56332 N/A ICE Firmicutes

12718_7_29_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.12718_7_29.4 Genome Set 636223 N/A ICE Bacteroidetes

13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_33.15 Genome Set 81687 N/A ICE Firmicutes

UMGS1254_SRR5056823_bin.4_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_NODE_161_length_77872_cov_5.630531 Genome Set
77872 N/A N/A Actinobacteria

20298_3_64_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.20298_3_64.8 Genome Set 171063 N/A ICE Firmicutes

NZ_CP009244.1_Corynebacterium_ammoniagenes_DSM_20306_strain_9.6__complete_genome Genome Set 2790185 N/A ICE Actinobacteria

UMGS1673_ERR1578622_bin.15_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_109_length_101491_cov_6.855268 Genome Set
101491 N/A N/A Firmicutes

UMGS709_SRR2992911_bin.12_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_89_length_47951_cov_16.1827 Genome Set
47951 N/A ICE Firmicutes

UMGS1389_ERR1620298_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_8_length_243532_cov_22.544561 Genome Set 243532 N/A ICE
Firmicutes

NZ_GG703826.1_Providencia_rustigianii_DSM_4541_ScflD9__whole_genome_shotgun_sequence Genome Set 14718 N/A N/A Proteobacteria

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.14207_7_37.28 Genome Set 50659 N/A ICE Firmicutes

UMGS1425_ERR1190839_bin.22_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_273_length_67352_cov_29.245613 Genome Set
67352 N/A N/A Firmicutes

UMGS1243_SRR5558136_bin.38_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_1366_length_12379_cov_4.669241 Genome Set
12379 N/A Plasmid Firmicutes

21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.21673_4_19.6 Genome Set 194038 N/A ICE Firmicutes

21673_4_33_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_.21673_4_33.16 Genome Set 142305 N/A ICE
Bacteroidetes

NZ_FLKP01000001.1_Christensenella_timonensis_strain_Marseille-P2437__whole_genome_shotgun_sequence Genome Set 336694 N/A ICE
Firmicutes

UMGS1113_SRR5580042_bin.20_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_271_length_66560_cov_8.986222 Genome Set 66560 N/A ICE Firmicutes

20298_3_35_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.20298_3_35.26 Genome Set 46313 N/A N/A Firmicutes

UMGS1011_ERR414329_bin.39_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_352_length_31600_cov_4.645681 Genome Set 31600 N/A N/A Firmicutes

UMGS182_ERR636351_bin.83_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_410_length_73683_cov_19.574469 Genome Set
73683 N/A ICE Bacteroidetes

NZ_LN908986.1_Eggerthellaceae_bacterium_AT8_genome_assembly_Hugonella_masilensis_scaffold_scaffold00009__whole_genome_shotgun_sequence
Genome Set 1475894 N/A ICE Actinobacteria

14207_6_13_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_6_13.8 Genome Set 124262 N/A ICE Bacteroidetes

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.11861_6_58.6 Genome Set 254968 N/A ICE Firmicutes

UMGS1981_SRR1761711_bin.3_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_1274_length_11054_cov_7.255569 Genome Set 11054 N/A ICE Firmicutes

UMGS219_ERR321453_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1959_length_2167_cov_2.57008 Genome Set 2167 N/A
N/A Bacteroidetes

NZ_FCEX01000010.1_Peptoniphilus_phoceensis_strain_SIT15__whole_genome_shotgun_sequence Genome Set 210464 N/A ICE Firmicutes

13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.13414_6_50.4 Genome Set 224182 N/A ICE Firmicutes

NZ_GG703824.1_Providencia_rustigianii_DSM_4541_ScflD7__whole_genome_shotgun_sequence Genome Set 34809 N/A Plasmid Proteobacteria

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.8 Genome Set 125385 N/A ICE Firmicutes

UMGS1833_SRR5963345_bin.25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Robinsoniella_NODE_164_length_66468_cov_35.886491 Genome Set 66468 N/A ICE Firmicutes

UMGS1383_SRR5558252_bin.31_Tenericutes_NA_NA_NA_NA_NODE_89_length_68031_cov_15.138770 Genome Set 68031 N/A N/A Tenericutes

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_3.5 Genome Set 179999 N/A ICE Firmicutes

NZ_FCEX01000008.1_Peptoniphilus_phoceensis_strain_SIT15__whole_genome_shotgun_sequence Genome Set 180850 rep_cluster_1663 ICE Firmicutes

NZ_GG669059.1_Enterococcus_faecium_TX1330_genomic_scaffold_SCAFFOLD3__whole_genome_shotgun_sequence Genome Set 174673 rep_cluster_893 ICE Firmicutes

UMGS200_SRR6028624_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_3094_length_3009_cov_5.140826 Genome Set 3009 N/A Plasmid Firmicutes

UMGS1553_ERR1190927_bin.14_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_2995_length_11732_cov_8.888327 Genome Set 11732 N/A N/A Firmicutes

NZ_JH590968.1_Erysipelotrichaceae_bacterium_6_1_45_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 1457366 N/A ICE Tenericutes

UMGS2027_SRR1761721_bin.40_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_177_length_47136_cov_11.253542 Genome Set 47136 N/A ICE Bacteroidetes

20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_.20287_6_22.5 Genome Set 165189 N/A ICE Firmicutes

18048_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.18048_1_69.36 Genome Set 27559 N/A ICE Firmicutes

UMGS1099_ERR526047_bin.23_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_1229_length_20502_cov_11.842324 Genome Set 20502 N/A ICE Firmicutes

UMGS1927_ERR866601_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_3_length_89786_cov_6.75384 Genome Set 89786 N/A ICE Bacteroidetes

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_92.9 Genome Set 121460 N/A ICE Firmicutes

NZ_JH376470.1_Pseudomonas_sp._2_1_26_genomic_scaffold_supercont1.10__whole_genome_shotgun_sequence Genome Set 238682 N/A ICE Proteobacteria

UMGS208_ERR525989_bin.4_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_83_length_109882_cov_17.4494 Genome Set 109882 N/A ICE Bacteroidetes

NZ_GL891980.1_Dysgonomonas_gadei_ATCC_BAA-
286_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence
Genome Set 716230 N/A ICE Bacteroidetes

UMGS530_SRR2155369_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_5
5_length_73793_cov_20.1867 Genome Set 73793 N/A ICE Firmicutes

UMGS174_SRR1761690_bin.37_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_34_length_133449_cov_98.451197 Genome Set 133449 N/A
ICE Firmicutes

20298_3_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.20298_3_63.1 Genome Set 819193 N/A ICE Bacteroidetes

UMGS1710_ERR1293845_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Bacter
oidaceae_Bacteroides_NODE_1757_length_5963_cov_2.464624 Genome Set 5963
N/A N/A Bacteroidetes

UMGS35_ERR525726_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptoc
occaceae_Clostridium_NODE_230_length_59839_cov_12.161 Genome Set
59839 N/A ICE Firmicutes

14207_7_1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira
_.14207_7_1.13 Genome Set 46624 N/A N/A Firmicutes

UMGS1852_ERR414343_bin.75_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_565_length_41169_cov_6.546432Genome Set
41169 N/A Plasmid Firmicutes

UMGS897_SRR2155371_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
243_length_43914_cov_18.246061 Genome Set 43914 N/A ICE Firmicutes

14207_6_13_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.14207_6_13.36 Genome Set 44469 N/A ICE Bacteroidetes

UMGS835_ERR589530_bin.45_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyro
monadaceae_NA_NODE_18_length_129018_cov_8.073176 Genome Set 129018
N/A ICE Bacteroidetes

11861_6_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.11861_6_63.2 Genome Set 674949 rep_cluster_1702 ICE
Bacteroidetes

UMGS629_SRR5580103_bin.48_Actinobacteria_Actinobacteria_Coriobacteriales_
Coriobacteriaceae_NA_NODE_1633_length_28398_cov_5.835422 Genome Set
28398 N/A N/A Actinobacteria

UMGS131_ERR1305881_bin.48_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_113_length_141827_cov_11.806549 Genome Set 141827 N/A
ICE Firmicutes

UMGS1298_ERR1018268_bin.53_NA_NA_NA_NA_NA_NODE_562_length_42968_cov_5.677
883 Genome Set 42968 N/A ICE NA

NZ_KE150405.1_Lachnospiraceae_bacterium_3_1_57FAA_CT1_acsNU-
supercont1.1__whole_genome_shotgun_sequence Genome Set 4263893 N/A
ICE Firmicutes

NZ_DS990450.1_Helicobacter_pullorum_MIT_98-
5489_supercont2.10_genomic_scaffold__whole_genome_shotgun_sequence
Genome Set 5737 N/A N/A Proteobacteria

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.14207_6_9.29Genome Set 57155 N/A ICE Bacteroidetes

UMGS2019_ERR505098_bin.42_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_219_length_44427_cov_36.487830 Genome Set
44427 N/A N/A Firmicutes

12718_7_92_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.12718_7_92.7 Genome Set 188262 N/A ICE Firmicutes

NZ_DS572690.1_Streptococcus_infantarius_subsp._infantarius_ATCC_BAA-102_ScflD_02_16_genomic_scaffold__whole_genome_shotgun_sequence
Genome Set 83420 N/A ICE Firmicutes

NZ_KE150435.1_Coprococcus_sp._HPP0074_genomic_scaffold_acAqD-supercont1.1__whole_genome_shotgun_sequence Genome Set 1814818 N/A
ICE Firmicutes

NZ_JH414887.1_Campylobacter_sp._10_1_50_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 850648 N/A ICE
Proteobacteria

13414_6_70_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_70.8
Genome Set 158140 N/A ICE Firmicutes

14207_7_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_18.3
Genome Set 421183 N/A ICE Firmicutes

20298_3_19_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_NA_.20298_3_19.4 Genome Set 475565 N/A ICE
Proteobacteria

NZ_JH599902.1_Coprobacillus_sp._8_2_54BFAA_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1415681 N/A ICE
Tenericutes

UMGS365_SRR5558121_bin.15_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_16_length_248977_cov_7.913210 Genome Set 248977 N/A ICE
Firmicutes

NZ_GL883856.1_Paraprevotella_xylaniphila_YIT_11841_genomic_scaffold_ScflD_103__whole_genome_shotgun_sequence Genome Set 70649 N/A ICE
Bacteroidetes

20287_6_6_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Klebsiella_.20287_6_6.19 Genome Set 51219 IncFII, IncFII
Plasmid Proteobacteria

NZ_EQ973638.1_Bacteroides_coprophilus_DSM_18228_=_JCM_13818_genomic_scaffold_ScflD10__whole_genome_shotgun_sequence Genome Set 113452 N/A
ICE Bacteroidetes

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.15
Genome Set 52146 N/A ICE Firmicutes

13470_2_91_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_91.3
Genome Set 208884 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.21673_4_87.11
Genome Set 91588 N/A ICE Firmicutes

14207_7_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_18.4
Genome Set 337849 N/A ICE Firmicutes

21673_4_5_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Barnesiella_.21673_4_5.3
Genome Set 541237 N/A ICE Bacteroidetes

NZ_CYU001000005.1_Peptoniphilaceae_bacterium_SIT14_genome_assembly_Lagierella_massiliensis_contig_contig00005__whole_genome_shotgun_sequence
Genome Set 1068061 N/A ICE Firmicutes

NZ_KI271097.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold1342__whole_genome_shotgun_sequence Genome Set 548 N/A Plasmid
Firmicutes

NZ_GL870812.1_Clostridium_sp._D5_genomic_scaffold_supercont1.4__whole_genome_shotgun_sequence Genome Set 402542 N/A ICE Firmicutes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_7_84.12
Genome Set 38018 N/A ICE Firmicutes

UMGS2007_ERR209576_bin.9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1761_length_3748_cov_1.529921 Genome Set 3748
N/A ICE Bacteroidetes

UMGS1697_SRR5580035_bin.43_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1126_length_25898_cov_5.863677 Genome Set
25898 N/A ICE Bacteroidetes

13414_6_43_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.13414_6_43.3 Genome Set 273585 N/A ICE Firmicutes

UMGS220_SRR5057033_bin.5_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Anaeromassilibacillus_NODE_1197_length_28523_cov_7.302375 Genome Set
28523 N/A N/A Firmicutes

NZ_GL945020.1_Bacteroides_ovatus_3_8_47FAA_genomic_scaffold_supercont1.3_whole_genome_shotgun_sequence Genome Set 801465 N/A ICE
Bacteroidetes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.21673_4_87.4 Genome Set 238478 N/A ICE Firmicutes

NZ_EQ973344.1_Clostridium_methylpentosum_DSM_5476_Scfld6_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 1560487 N/A ICE
Firmicutes

UMGS1638_SRR5127671_bin.14_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_775_length_12057_cov_5.324779
Genome Set 12057 N/A ICE Actinobacteria

21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.21673_4_19.2 Genome Set 371155 N/A ICE Firmicutes

UMGS646_ERR589578_bin.21_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_29_length_166974_cov_13.518108 Genome Set
166974 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.8
Genome Set 106707 N/A ICE Firmicutes

UMGS285_SRR1201570_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_28_length_135093_cov_9.26101 Genome Set 135093 N/A ICE Firmicutes

NZ_EQ973646.1_Bacteroides_coprophilus_DSM_18228_JCM_13818_genomic_scaffold_Scld18_whole_genome_shotgun_sequence Genome Set 400038 N/A
ICE Bacteroidetes

NZ_GL892005.1_Dysgonomonas_mossii_DSM_22836_genomic_scaffold_supercont1.2_whole_genome_shotgun_sequence Genome Set 803691 N/A ICE
Bacteroidetes

14207_7_59_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_59.8
Genome Set 159469 N/A ICE Firmicutes

UMGS945_ERR1620269_bin.39_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_419_length_31666_cov_8.334567 Genome Set
31666 N/A ICE Firmicutes

NZ_GL945019.1_Bacteroides_ovatus_3_8_47FAA_genomic_scaffold_supercont1.2_whole_genome_shotgun_sequence Genome Set 911794 N/A ICE
Bacteroidetes

UMGS1126_ERR414269_bin.20_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_2857_length_8714_cov_4.539554 Genome Set 8714 N/A
ICE Bacteroidetes

UMGS1529_SRR5279269_bin.27_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_1732_length_27839_cov_8.535840 Genome Set
27839 N/A ICE Firmicutes

UMGS1156_ERR1620345_bin.42_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_437_length_42843_cov_3.484084 Genome Set 42843 N/A
ICE Firmicutes

NZ_LN908961.1_Ruminococcaceae_bacterium_AM2_genome_assembly_Fournierella_massiliensis_scaffold_scaffold00016_whole_genome_shotgun_sequence
Genome Set 396958 N/A ICE Firmicutes

UMGS1844_ERR589567_bin.9_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_408_length_49376_cov_4.853369 Genome Set
49376 N/A ICE Tenericutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_37.6 Genome Set 186715 N/A ICE Firmicutes

UMGS777_ERR1305885_bin.21_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_91_length_86914_cov_8.800631 Genome Set 86914 N/A ICE Firmicutes

UMGS1105_SRR1214948_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_47_length_42988_cov_12.424033 Genome Set
42988 N/A ICE Bacteroidetes

NZ_JH414888.1_Campylobacter_sp._10_1_50_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 832312 N/A ICE
Proteobacteria

UMGS40_SRR2912796_bin.41_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_30_length_127087_cov_19.579893 Genome Set
127087 N/A ICE Firmicutes

NZ_ACCL02000006.1_Marvinbryantia_formatexigens_DSM_14469_B_formatexigens-1.0.1_Cont5.1__whole_genome_shotgun_sequence Genome Set 221705 N/A
ICE Firmicutes

UMGS698_ERR414252_bin.16_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_3744_length_8979_cov_44.549305 Genome Set 8979
N/A ICE Bacteroidetes

20298_3_13_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Klebsiella_.20298_3_13.7Genome Set 403182 N/A ICE
Proteobacteria

UMGS1425_ERR1190839_bin.22_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_38_length_155261_cov_22.336037 Genome Set
155261 N/A N/A Firmicutes

UMGS564_SRR2726136_bin.31_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnoclostridium_NODE_814_length_26266_cov_7.687116Genome Set
26266 N/A ICE Firmicutes

NZ_KE150407.1_Lachnospiraceae_bacterium_3_1_57FAA_CT1_acsNU-supercont1.3__whole_genome_shotgun_sequence Genome Set 1161241 N/A
ICE Firmicutes

UMGS12_SRR5106488_bin.11_Proteobacteria_Betaproteobacteria_Burkholderiales_Sutterellaceae_Sutterella_NODE_1145_length_13403_cov_10.770524
Genome Set 13403 N/A ICE Proteobacteria

NC_021039.1_Ruminococcus_champanellensis_type_strain_18P13T_draft_genome
Genome Set 2573208 N/A ICE Firmicutes

NZ_HE978600.1_Brevibacterium_sp._JC43_genomic_scaffold__scaffold00001__whole_genome_shotgun_sequence Genome Set 656854 N/A ICE
Actinobacteria

UMGS308_SRR4305073_bin.1_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_2_length_160609_cov_25.182281
Genome Set 160609 N/A ICE Actinobacteria

NZ_LN909059.1_Paenibacillus_sp._MT18_genome_assembly_Paenibacillus_rubifantis__scaffold_scaffold00013__whole_genome_shotgun_sequence Genome Set
158767 N/A ICE Firmicutes

NZ_KE993547.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold163__whole_genome_shotgun_sequence Genome Set 70968 N/A ICE Firmicutes

UMGS1684_ERR011192_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_531_length_12118_cov_26.0167 Genome Set
12118 N/A ICE Bacteroidetes

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
1861_6_58.13 Genome Set 86586 N/A ICE Firmicutes
UMGS1833_SRR5963345_bin.25_Firmicutes_Clostridia_Clostridiales_Lachnospir
aceae_Robinsoniella_NODE_121_length_92772_cov_35.719046 Genome Set
92772 N/A ICE Firmicutes
12718_7_92_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.12718_7_92.14 Genome Set 93444 N/A ICE Firmicutes
14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.
14207_6_3.48 Genome Set 12094 N/A ICE Bacteroidetes
UMGS41_SRR5275454_bin.24_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_Anaeromassilibacillus_NODE_936_length_17260_cov_35.7004 Genome Set
17260 N/A ICE Firmicutes
UMGS341_ERR688549_bin.7_Firmicutes_Clostridia_Clostridiales_Peptostreptoc
occaceae_Clostridium_NODE_23_length_181548_cov_15.209600 Genome Set
181548 N/A ICE Firmicutes
NZ_LN849007.1_Clostridium_sp._mt5_genome_assembly_Clostridium_niameyense_
_scaffold_scaffold00006__whole_genome_shotgun_sequence Genome Set
2380284 N/A ICE Firmicutes
21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
1673_4_19.25 Genome Set 33298 N/A ICE Firmicutes
UMGS873_ERR1190965_bin.23_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_225_length_61126_cov_5.384094 Genome Set 61126 N/A ICE
Firmicutes
NZ_EQ973650.1_Bacteroides_coprophilus_DSM_18228_=JCM_13818_genomic_scaff
old_Scflld22__whole_genome_shotgun_sequence Genome Set 361429 N/A
ICE Bacteroidetes
UMGS1689_ERR414250_bin.15_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_49_length_117195_cov_13.406070 Genome Set
117195 N/A N/A Firmicutes
14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.142
07_7_37.5 Genome Set 175725 N/A ICE Firmicutes
8080_1_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_ERS13819
1.8080_1_93.3 Genome Set 318391 N/A ICE Firmicutes
NZ_KQ235847.1_[Clostridium]_bolteae_WAL-
14578_genomic_scaffold_supercont1.3__whole_genome_shotgun_sequence
Genome Set 668224 N/A ICE Firmicutes
UMGS367_SRR1197541_bin.30_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
pelotrichaceae_Solobacterium_NODE_34_length_129146_cov_5.963460
Genome Set 129146 N/A ICE Tenericutes
12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_
7_84.6 Genome Set 272283 N/A ICE Firmicutes
20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococc
us_.20287_6_22.15Genome Set 7788 N/A Plasmid Firmicutes
UMGS286_SRR2155376_bin.6_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_NA_NODE_65_length_90442_cov_6.52492 Genome Set 90442 N/A ICE
Firmicutes
NZ_LN865152.1_Eubacterium_sp._SB2_genome_assembly_Eubacterium_massiliense
__scaffold_scaffold00008__whole_genome_shotgun_sequence Genome Set
1069380 N/A ICE Firmicutes
UMGS835_ERR589530_bin.45_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyro
monadaceae_NA_NODE_432_length_44817_cov_7.826706 Genome Set 44817 N/A
ICE Bacteroidetes
UMGS680_ERR525961_bin.2_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_11
30_length_7758_cov_6.08425 Genome Set 7758 N/A Plasmid Firmicutes

20298_2_49_Firmicutes_Bacilli_Lactobacillales_Streptococcaceae_Streptococcus_20298_2_49.3Genome Set 398961 rep_cluster_1663 ICE Firmicutes
 NZ_ACFY01000113.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont472.1__whole_genome_shotgun_sequence Genome Set 69762 N/A
 ICE Firmicutes

14207_7_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_28.3
 Genome Set 739639 N/A ICE Firmicutes

UMGS1175_ERR414243_bin.25_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_389_length_43112_cov_6.831410 Genome Set 43112 N/A ICE Firmicutes
 NZ_EQ973651.1_Bacteroides_coprophilus_DSM_18228_=JCM_13818_genomic_scaffold_ScflD23__whole_genome_shotgun_sequence Genome Set 205697 N/A
 ICE Bacteroidetes

UMGS637_SRR5275454_bin.27_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_275_length_51607_cov_12.2962 Genome Set 51607 N/A ICE
 Firmicutes

NZ_JH636044.1_Bacteroides_sp._3_2_5_genomic_scaffold_supercont2.2__whole_genome_shotgun_sequence Genome Set 3253542 N/A ICE
 Bacteroidetes

UMGS856_SRR1196456_bin.38_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_154_length_59764_cov_9.216098 Genome Set 59764 N/A ICE
 Firmicutes

NC_010376.1_Finegoldia_magna_ATCC_29328_DNA__complete_genome Genome Set 1797577 rep_cluster_1663 ICE Firmicutes

20298_3_37_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Klebsiella_.20298_3_37.1Genome Set 1166787 N/A ICE
 Proteobacteria

UMGS1441_ERR688506_bin.6_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_155_length_89211_cov_8.324128 Genome Set 89211 N/A
 ICE Firmicutes

13414_6_20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_20.3Genome Set 296997 N/A ICE Firmicutes
 NZ_ABJL02000006.1_Bacteroides_intestinalis_DSM_17393_B_intestinalis-2.0.1_Cont604__whole_genome_shotgun_sequence Genome Set 574965 N/A
 ICE Bacteroidetes

UMGS185_ERR1912997_bin.34_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_2_length_407589_cov_12.175269 Genome Set 407589 N/A ICE Firmicutes

UMGS1430_ERR1305892_bin.72_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_5391_length_5782_cov_4.141435 Genome Set 5782
 N/A Plasmid Bacteroidetes

NZ_ACFY01000094.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont434.1__whole_genome_shotgun_sequence Genome Set 64111 N/A
 ICE Firmicutes

NZ_GG657974.1_Fusobacterium_sp._3_1_5R_genomic_scaffold_supercont1.4__whole_genome_shotgun_sequence Genome Set 173616 N/A ICE
 Fusobacteria

NZ_LN869525.1_Intestinimonas_sp._GD2_genome_assembly_Intestinimonas_massiliensis__scaffold_scaffold00003__whole_genome_shotgun_sequence Genome Set 6430 N/A Plasmid Firmicutes

UMGS798_SRR5275432_bin.24_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_706_length_18987_cov_14.977763 Genome Set 18987 N/A ICE
 Firmicutes

12718_7_51_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_.12718_7_51.1 Genome Set 272585 N/A ICE Firmicutes

20298_2_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_20298_2_23.61 Genome Set 3091 N/A ICE Bacteroidetes

12718_7_94_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_12718_7_94.10 Genome Set 90751 N/A ICE Firmicutes

NZ_DS990163.1_Ruminococcus_lactaris_ATCC_29176_Scflld_02_0_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 172790 N/A ICE Firmicutes

13414_6_44_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_13414_6_44.14 Genome Set 77280 N/A ICE Firmicutes

NZ_LN908963.1_Ruminococcaceae_bacterium_AM2_genome_assembly_Fournierella_massiliensis_scaffold_scaffold00018_whole_genome_shotgun_sequence Genome Set 527647 N/A ICE Firmicutes

NZ_JALA01000016.1_Providencia_alcalifaciens_PAL-1_ctgN52L138138C40.3604_whole_genome_shotgun_sequence Genome Set 138138 rep_cluster_1220,rep_cluster_1220 Plasmid Proteobacteria

UMGS1325_ERR1190866_bin.23_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_9194_length_3488_cov_4.795805 Genome Set 3488 N/A N/A Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13414_6_68.6 Genome Set 245950 N/A ICE Firmicutes

UMGS1726_SRR5127498_bin.5_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_199_length_29094_cov_9.795344 Genome Set 29094 N/A ICE Actinobacteria

NZ_HE610717.1_Peptoniphilus_senegalensis_JC140_type_strain_JC140T_genomic_scaffold_scaffold00001_whole_genome_shotgun_sequence Genome Set 881198 N/A ICE Firmicutes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_21673_4_18.11 Genome Set 116466 N/A ICE Firmicutes

NZ_GG705131.1_Acinetobacter_radioresistens_SH164_genomic_scaffold_supercont1.1_whole_genome_shotgun_sequence Genome Set 1059412 N/A ICE Proteobacteria

14207_7_83_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_14207_7_83.14 Genome Set 126902 N/A ICE Firmicutes

UMGS670_ERR1190964_bin.38_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_102_length_82748_cov_6.913257 Genome Set 82748 N/A ICE Firmicutes

UMGS659_ERR1305881_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_225_length_98141_cov_8.194187 Genome Set 98141 N/A ICE Bacteroidetes

UMGS1537_ERR1912950_bin.18_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_237_length_36992_cov_4.098979 Genome Set 36992 N/A ICE Firmicutes

18048_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_18048_1_69.13 Genome Set 80451 N/A ICE Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_14207_7_37.9 Genome Set 129942 N/A ICE Firmicutes

20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_20287_6_22.3 Genome Set 424267 N/A ICE Firmicutes

NZ_DS264271.1_Eubacterium_ventriosum_ATCC_27560_Scflld029_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 291583 N/A ICE Firmicutes

UMGS781_ERR1305892_bin.56_Proteobacteria_Deltaproteobacteria_Desulfovibrionales_Desulfovibrionaceae_Desulfovibrio_NODE_19_length_202163_cov_4.682962 Genome Set 202163 N/A ICE Proteobacteria

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_68.19 Genome Set 28274 N/A N/A Firmicutes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_89.45 Genome Set 25877 N/A N/A Firmicutes

UMGS1329_ERR1018298_bin.48_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Marvinbryantia_NODE_281_length_34449_cov_4.674362 Genome Set 34449 N/A N/A Firmicutes

UMGS1158_DRR042394_bin.56_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_92_length_138196_cov_9.127646 Genome Set 138196 N/A ICE Firmicutes

UMGS62_SRR492197_bin.1_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_NODE_7_length_311400_cov_89.688776 Genome Set 311400 N/A ICE Firmicutes

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_47.7 Genome Set 244531 N/A ICE Firmicutes

UMGS1754_ERR505083_bin.47_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_284_length_62423_cov_5.946383 Genome Set 62423 N/A ICE Firmicutes

14207_7_83_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_.14207_7_83.19 Genome Set 92189 N/A ICE Firmicutes

UMGS1684_ERR011192_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_1_length_224553_cov_24.0209 Genome Set 224553 N/A ICE Bacteroidetes

UMGS488_SRR5275456_bin.21_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_NODE_306_length_66612_cov_40.2722 Genome Set 66612 N/A ICE Firmicutes

UMGS901_SRR6028340_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_2073_length_6554_cov_14.184644 Genome Set 6554 N/A Plasmid Bacteroidetes

UMGS2_ERR1190731_bin.19_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Dysgonomonas_NODE_8_length_395941_cov_10.0333 Genome Set 395941 N/A ICE Bacteroidetes

14207_7_59_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_59.1 Genome Set 1062644 N/A ICE Firmicutes

18048_2_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_2_67.22 Genome Set 7892 N/A ICE Firmicutes

UMGS935_SRR5050584_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Anaerospobacter_NODE_127_length_17077_cov_13.140524 Genome Set 17077 N/A Plasmid Firmicutes

8080_1_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_ERS138191.8080_1_93.17 Genome Set 49698 N/A ICE Firmicutes

UMGS533_ERR1293593_bin.31_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_112_length_55169_cov_4.522408 Genome Set 55169 N/A N/A Firmicutes

NZ_GG703855.1_Prevotella_copri_DSM_18205_genomic_scaffold_Scfl3_whole_genome_shotgun_sequence Genome Set 294362 N/A ICE Bacteroidetes

NZ_DS264281.1_Eubacterium_ventriosum_ATCC_27560_Scfl0219_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 62353 N/A ICE Firmicutes

UMGS98_SRR1761707_bin.48_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_492_length_27138_cov_4.013883 Genome Set 27138 N/A ICE Firmicutes

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.11861_6_58.2 Genome Set 447767 N/A ICE Firmicutes

UMGS1111_ERR414291_bin.37_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_NA_NODE_1318_length_19672_cov_4.305704 Genome Set 19672 N/A
ICE Bacteroidetes

20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_20287_6_9.8 Genome Set 294307 N/A ICE Bacteroidetes

NZ_KE150408.1_Lachnospiraceae_bacterium_3_1_57FAA_CT1_acsNU-
supercont1.4__whole_genome_shotgun_sequence Genome Set 825043 N/A
ICE Firmicutes

UMGS1028_SRR341596_bin.15_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
pelotrichaceae_Solobacterium_NODE_370_length_24732_cov_2.927909
Genome Set 24732 N/A ICE Tenericutes

UMGS777_ERR1305885_bin.21_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
4138_length_10182_cov_8.873901 Genome Set 10182 N/A ICE Firmicutes

21673_4_38_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
1673_4_38.1 Genome Set 452966 N/A ICE Firmicutes

8080_1_77_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138175.8080_1_77.31 Genome Set 39515 N/A N/A Firmicutes

NZ_GL538231.1_Faecalibacterium_cf._prausnitzii_KLE1255_genomic_scaffold_S
cfl25__whole_genome_shotgun_sequence Genome Set 5889 N/A N/A
Firmicutes

UMGS491_SRR5275479_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
1584_length_12120_cov_8.167592 Genome Set 12120 N/A N/A Firmicutes

20298_3_58_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_58.3
Genome Set 313331 N/A ICE Firmicutes

UMGS781_ERR1305892_bin.56_Proteobacteria_Deltaproteobacteria_Desulfovibri
onales_Desulfovibrionaceae_Desulfovibrio_NODE_118_length_92862_cov_5.3242
00 Genome Set 92862 N/A ICE Proteobacteria

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.21673_4_71.16 Genome Set 91041 N/A ICE Firmicutes

UMGS207_SRR3917686_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_5
059_length_2353_cov_6.60879 Genome Set 2353 N/A ICE Firmicutes

NZ_ABXA01000002.1_Anaerococcus_hydrogenalis_DSM_7454_A_hydrogenalis-
1.0_Cont4.1__whole_genome_shotgun_sequence Genome Set 73749
rep_cluster_1663 N/A Firmicutes

UMGS1488_SRR5057076_bin.64_Firmicutes_Clostridia_Clostridiales_Eubacteria
ceae_Eubacterium_NODE_10063_length_4571_cov_1.963242 Genome Set 4571
N/A ICE Firmicutes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyrromonadaceae_NA_
14207_6_3.24 Genome Set 39133 N/A ICE Bacteroidetes

UMGS941_ERR1190721_bin.6_Proteobacteria_Betaproteobacteria_Burkholderiale
s_Sutterellaceae_Sutterella_NODE_1586_length_10652_cov_3.78239 Genome Set
10652 N/A ICE Proteobacteria

NZ_KI270975.1_Faecalitalea_cylindroides_ATCC_27803_Scaffold17__whole_geno
me_shotgun_sequence Genome Set 52396 N/A Plasmid Tenericutes

21673_4_38_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
1673_4_38.8 Genome Set 164669 N/A ICE Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
erium_.20427_4_25.161 Genome Set 392 N/A Plasmid Firmicutes

20298_3_57_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriace
ae_NA_.20298_3_57.8 Genome Set 149029 N/A ICE Actinobacteria

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.16
Genome Set 91338 N/A ICE Firmicutes

8080_1_80_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_S
olobacterium_ERS138178.8080_1_80.7Genome Set 147042 N/A ICE
Tenericutes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_
7_84.2 Genome Set 497218 N/A ICE Firmicutes

20287_6_6_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobact
eriaceae_Klebsiella_.20287_6_6.21 Genome Set 43018 N/A N/A
Proteobacteria

UMGS119_ERR1620292_bin.17_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Blautia_NODE_80_length_99411_cov_23.671716 Genome Set 99411 N/A
ICE Firmicutes

NZ_KI392040.1_Helicobacter_bilis_ATCC_43879_genomic_scaffold_supercont2.9
__whole_genome_shotgun_sequence Genome Set 1014704 N/A ICE
Proteobacteria

UMGS698_ERR414252_bin.16_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroi
daceae_Bacteroides_NODE_69_length_121277_cov_35.262263 Genome Set
121277 N/A ICE Bacteroidetes

NZ_GL384001.1_Burkholderiales_bacterium_1_1_47_genomic_scaffold_supercont
1.10__whole_genome_shotgun_sequence Genome Set 161238 N/A ICE
Proteobacteria

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_
2_92.41 Genome Set 34990 N/A ICE Firmicutes

NZ_JALB01000021.1_Providencia_alcalifaciens_RIMD_1656011_ctgN83L106367C26
.6983__whole_genome_shotgun_sequence Genome Set 106367
rep_cluster_1220,rep_cluster_1220 N/A Proteobacteria

UMGS1768_SRR5275462_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_NA_NA_
NODE_7269_length_2598_cov_5.642548Genome Set 2598 N/A N/A
Bacteroidetes

UMGS1234_SRR3582140_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE
_275_length_32201_cov_8.704349 Genome Set 32201 N/A ICE Firmicutes

UMGS1273_SRR5050585_bin.15_Firmicutes_Clostridia_Clostridiales_Oscillospi
raceae_Oscillibacter_NODE_2719_length_4572_cov_5.194598 Genome Set 4572
N/A N/A Firmicutes

UMGS1179_ERR1293813_bin.25_Bacteroidetes_Bacteroidia_Bacteroidales_NA_NA_
NODE_691_length_20889_cov_3.246040Genome Set 20889 N/A ICE
Bacteroidetes

NZ_FMIX01000004.1_Streptococcus_sp._Marseille-
P2915__whole_genome_shotgun_sequence Genome Set 1305823 N/A ICE
Firmicutes

13414_6_41_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_41.2Genome Set 610726 N/A ICE Firmicutes

UMGS692_ERR1913113_bin.1_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_9
_length_124713_cov_10.934212Genome Set 124713 N/A ICE Firmicutes

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_47.8
Genome Set 222997 N/A ICE Firmicutes

UMGS1735_ERR525802_bin.17_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_631_length_19458_cov_9.56326 Genome Set 19458 N/A N/A
Firmicutes

UMGS617_ERR011209_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotell
aceae_Prevotella_NODE_308_length_25784_cov_19.428971 Genome Set
25784 N/A ICE Bacteroidetes

UMGS1917_ERR1190590_bin.14_Firmicutes_Clostridia_Clostridiales_Peptostrep
toccaceae_Clostridium_NODE_261_length_73082_cov_4.949662 Genome Set
73082 N/A N/A Firmicutes

14207_7_1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira
_.14207_7_1.1 Genome Set 557787 N/A ICE Firmicutes

UMGS422_SRR5558166_bin.58_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_1374_length_24438_cov_6.163910 Genome Set
24438 N/A ICE Bacteroidetes

UMGS618_SRR4408228_bin.21_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
6320_length_2264_cov_38.9353 Genome Set 2264 N/A Plasmid Firmicutes

UMGS630_ERR1620320_bin.42_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_1680_length_14690_cov_33.368090 Genome Set
14690 N/A ICE Bacteroidetes

NZ_CYUJ01000003.1_Neofamilia_massiliensis_strain_SIT13__whole_genome_shot
gun_sequence Genome Set 978141 rep_cluster_1663 ICE Firmicutes

NZ_FMIY01000002.1_Veillonellaceae_bacterium_Marseille-
P2911__whole_genome_shotgun_sequence Genome Set 1611777 N/A ICE
Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.142
07_7_37.16 Genome Set 86428 N/A ICE Firmicutes

UMGS1134_ERR1620298_bin.15_Firmicutes_Clostridia_Clostridiales_Lachnospir
aceae_NA_NODE_9_length_231593_cov_16.395175 Genome Set 231593 N/A
ICE Firmicutes

NZ_KE161031.1_Cedecea_davisae_DSM_4568_Scaffold1__whole_genome_shotgun_se
quence Genome Set 9581 rep_cluster_1155 Plasmid Proteobacteria

12718_7_51_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococc
us_.12718_7_51.26 Genome Set 80499 N/A ICE Firmicutes

UMGS1158_DRR042394_bin.56_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_839_length_22246_cov_7.173335 Genome Set 22246 N/A ICE
Firmicutes

UMGS2007_ERR209576_bin.9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroi
daceae_Bacteroides_NODE_2787_length_2712_cov_2.838916 Genome Set 2712
N/A N/A Bacteroidetes

UMGS200_SRR6028624_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_Ruminococcus_NODE_524_length_12110_cov_5.675653 Genome Set
12110 N/A N/A Firmicutes

20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_
6_63.1 Genome Set 749211 N/A ICE Firmicutes

UMGS1672_ERR2013583_bin.9_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_19_length_243547_cov_16.212377 Genome Set
243547 N/A ICE Firmicutes

20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.20287_6_9.1 Genome Set 1038870 N/A ICE Bacteroidetes

13470_2_67_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyrimonadaceae_Par
abacteroides_.13470_2_67.13 Genome Set 32798 rep_cluster_1702 N/A
Bacteroidetes

UMGS278_ERR1190624_bin.64_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
llaceae_Prevotella_NODE_50_length_161053_cov_36.628492 Genome Set
161053 N/A ICE Bacteroidetes

UMGS341_ERR688549_bin.7_Firmicutes_Clostridia_Clostridiales_Peptostreptoc
occaceae_Clostridium_NODE_3029_length_8990_cov_18.537101 Genome Set 8990
N/A ICE Firmicutes

20298_3_19_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobac
teriaceae_NA_.20298_3_19.9 Genome Set 133727 IncFIB, IncFII, IncFII
Plasmid Proteobacteria

UMGS250_SRR2857970_bin.66_Proteobacteria_Deltaproteobacteria_Desulfovibri
onales_Desulfovibrionaceae_Desulfovibrio_NODE_272_length_82426_cov_6.2714
30 Genome Set 82426 N/A ICE Proteobacteria

UMGS1576_ERR2013621_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostrep
tococcaceae_Clostridium_NODE_235_length_68591_cov_6.536010 Genome Set
68591 N/A N/A Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.36
Genome Set 12128 N/A N/A Firmicutes

13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.134
14_6_50.29 Genome Set 12088 N/A ICE Firmicutes

NZ_DS990135.1_Bacteroides_plebeius_DSM_17135_Scfld_02_18_genomic_scaffold
_whole_genome_shotgun_sequence Genome Set 153719 rep_cluster_1702
ICE Bacteroidetes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.20287_6_53.24 Genome Set 40129 N/A ICE Bacteroidetes

UMGS1972_SRR3992959_bin.45_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
ellaceae_Prevotella_NODE_33018_length_2206_cov_22.471583 Genome Set 2206
N/A ICE Bacteroidetes

UMGS288_SRR5579983_bin.99_Bacteroidetes_Bacteroidia_Bacteroidales_Bactero
idaceae_Bacteroides_NODE_1751_length_18305_cov_5.936471 Genome Set
18305 N/A ICE Bacteroidetes

20298_3_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.20298_3_63.4 Genome Set 320309 N/A ICE Bacteroidetes

UMGS1826_ERR1305891_bin.67_Firmicutes_Clostridia_Clostridiales_Ruminococc
aceae_NA_NODE_950_length_23722_cov_5.498627 Genome Set 23722 N/A ICE
Firmicutes

12718_7_49_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobac
teriaceae_Enterobacter_.12718_7_49.23 Genome Set 69006 IncFII
Plasmid Proteobacteria

13470_2_65_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.13470_2_65.16 Genome Set 161537 N/A ICE Bacteroidetes

UMGS1339_SRR5558100_bin.10_Actinobacteria_Actinobacteria_Coriobacteriales
_Coriobacteriaceae_Collinsella_NODE_325_length_27077_cov_4.002148
Genome Set 27077 N/A ICE Actinobacteria

UMGS1685_ERR1305900_bin.95_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE
_291_length_75340_cov_16.065059 Genome Set 75340 N/A ICE Firmicutes

UMGS403_ERR1913011_bin.11_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_153_length_48236_cov_5.928395 Genome Set 48236 N/A ICE
Firmicutes

14207_7_90_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_90.35
Genome Set 31344 N/A N/A Firmicutes

UMGS1416_ERR321433_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroi
daceae_Bacteroides_NODE_539_length_12957_cov_2.88134 Genome Set
12957 N/A N/A Bacteroidetes

UMGS119_ERR1620292_bin.17_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Blautia_NODE_1237_length_14870_cov_15.408977 Genome Set 14870 N/A
ICE Firmicutes

NZ_JH414698.1_Subdoligranulum_sp._4_3_54A2FAA_genomic_scaffold_supercont1
.1_whole_genome_shotgun_sequence Genome Set 1096723 N/A ICE
Firmicutes

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
861_6_58.24 Genome Set 46691 N/A ICE Firmicutes

13414_6_3_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_3.3
Genome Set 425215 N/A ICE Firmicutes

20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_39.26
 Genome Set 29755 N/A ICE Firmicutes
 NZ_KE150406.1_Lachnospiraceae_bacterium_3_1_57FAA_CT1_acsNU-
 supercont1.2__whole_genome_shotgun_sequence Genome Set 1273477 N/A
 ICE Firmicutes
 UMG5469_SRR5275479_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_NA_NA_NO
 DE_58_length_98640_cov_29.364680 Genome Set 98640 N/A N/A
 Bacteroidetes
 UMG51968_ERR414319_bin.56_Firmicutes_Clostridia_Clostridiales_Peptostrept
 ococcaceae_Clostridium_NODE_8061_length_3538_cov_2.834912Genome Set 3538
 N/A N/A Firmicutes
 20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.3
 Genome Set 209387 N/A ICE Firmicutes
 20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
 des_.20287_6_9.6 Genome Set 355753 N/A ICE Bacteroidetes
 14207_6_2_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.
 14207_6_2.66 Genome Set 6092 N/A N/A Bacteroidetes
 NZ_GL882606.1_Bacteroides_fluxus_YIT_12057_genomic_scaffold_Scfl5__whole
 _genome_shotgun_sequence Genome Set 152390 N/A ICE
 Bacteroidetes
 UMG5145_ERR1620270_bin.10_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
 llaceae_Prevotella_NODE_84_length_78997_cov_26.691305 Genome Set
 78997 N/A ICE Bacteroidetes
 NZ_GG730300.1_Citrobacter_youngae_ATCC_29220_Scfl1__whole_genome_shotgun
 _sequence Genome Set 814885 N/A ICE Proteobacteria
 UMG51433_SRR6028647_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
 ellaceae_Prevotella_NODE_6_length_105194_cov_10.154291 Genome Set
 105194 N/A ICE Bacteroidetes
 20298_3_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
 s_.20298_3_63.7 Genome Set 141575 N/A ICE Bacteroidetes
 UMG5491_SRR5275479_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
 197_length_46463_cov_6.251745 Genome Set 46463 N/A N/A Firmicutes
 NZ_KE993512.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold1__whol
 e_genome_shotgun_sequence Genome Set 257832 N/A ICE Firmicutes
 NZ_JH992944.1_Bacteroides_oleiciplenus_YIT_12058_genomic_scaffold_superco
 nt1.5__whole_genome_shotgun_sequence Genome Set 764228 N/A ICE
 Bacteroidetes
 UMG51064_ERR321174_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyro
 monadaceae_Parabacteroides_NODE_4174_length_2456_cov_3.7651 Genome Set
 2456 N/A N/A Bacteroidetes
 NZ_FMIZ01000007.1_Ruminococcus_sp._Marseille-
 P2976__whole_genome_shotgun_sequence Genome Set 1698311 N/A ICE
 Firmicutes
 UMG5920_SRR6028474_bin.9_Firmicutes_Clostridia_Clostridiales_Lachnospirac
 eae_Butyrvibrio_NODE_161_length_36236_cov_8.092535Genome Set 36236 N/A
 N/A Firmicutes
 UMG51025_ERR1018185_bin.37_Bacteroidetes_Bacteroidia_Bacteroidales_Porphy
 romonadaceae_NA_NODE_22_length_128322_cov_4.594221 Genome Set 128322
 N/A ICE Bacteroidetes
 UMG583_ERR911953_bin.80_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_23
 _length_234679_cov_15.062675Genome Set 234679 N/A ICE Firmicutes
 UMG5920_SRR6028474_bin.9_Firmicutes_Clostridia_Clostridiales_Lachnospirac
 eae_Butyrvibrio_NODE_7_length_112913_cov_11.356297Genome Set 112913
 N/A ICE Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.11 Genome Set 106517 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_20287_6_37.24 Genome Set 42535 N/A ICE Firmicutes

13414_6_2_Firmicutes_Clostridia_Clostridiales_NA_NA_13414_6_2.7 Genome Set 183902 N/A ICE Firmicutes

NZ_GG705174.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1170023 N/A ICE Bacteroidetes

UMGS821_ERR525999_bin.11_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_165_length_69863_cov_6.227581 Genome Set 69863 N/A N/A Firmicutes

UMGS544_SRR2912792_bin.20_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_350_length_47651_cov_18.464829 Genome Set 47651 N/A ICE Firmicutes

UMGS32_ERR1018211_bin.54_Tenericutes_Mollicutes_NA_NA_NA_NODE_215_length_61909_cov_55.451127 Genome Set 61909 N/A N/A Tenericutes

NZ_CDGT01000006.1_Mobilicoccus_sp._SIT2_genome_assembly_Mobilicoccus_massiliensis_SIT2__contig_contig00006__whole_genome_shotgun_sequence Genome Set 4321 N/A N/A Actinobacteria

UMGS1205_ERR209515_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_507_length_25219_cov_43.399698 Genome Set 25219 N/A ICE Bacteroidetes

UMGS2056_SRR1761696_bin.44_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_6735_length_3682_cov_2.862421 Genome Set 3682 N/A Plasmid Firmicutes

NZ_LN908964.1_Ruminococcaceae_bacterium_AM2_genome_assembly_Fournierella_massiliensis__scaffold_scaffold00019__whole_genome_shotgun_sequence Genome Set 861515 N/A ICE Firmicutes

NZ_EQ973635.1_Bacteroides_coprophilus_DSM_18228_=JCM_13818_genomic_scaffold_ScflD7__whole_genome_shotgun_sequence Genome Set 260923 N/A ICE Bacteroidetes

20298_2_7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_20298_2_7.4 Genome Set 653472 N/A ICE Bacteroidetes

UMGS430_ERR1190919_bin.16_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_4_length_306386_cov_6.227982 Genome Set 306386 N/A ICE Actinobacteria

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_12718_7_47.11 Genome Set 29604 N/A ICE Firmicutes

UMGS593_ERR911961_bin.38_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_2144_length_14945_cov_9.081464 Genome Set 14945 N/A ICE Firmicutes

21673_4_53_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_21673_4_53.2 Genome Set 488635 N/A ICE Firmicutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_21673_4_37.16 Genome Set 61880 N/A ICE Firmicutes

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_21673_4_3.10 Genome Set 80079 N/A ICE Firmicutes

UMGS683_ERR1190910_bin.59_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_29_length_159983_cov_6.275061 Genome Set 159983 N/A ICE Firmicutes

UMGS840_SRR3737012_bin.13_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_13_length_219166_cov_6.314325 Genome Set 219166 N/A ICE Bacteroidetes

13414_6_70_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_70.1 Genome Set 304853 N/A ICE Firmicutes
 NZ_DS499580.1_Alistipes_putredinis_DSM_17216_ScflD_02_10_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 479642 N/A ICE
 Bacteroidetes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_71.34 Genome Set 31353 N/A ICE Firmicutes
 NZ_GL538343.1_Faecalibacterium_cf._prausnitzii_KLE1255_genomic_scaffold_ScflD592__whole_genome_shotgun_sequence Genome Set 92310 N/A ICE
 Firmicutes

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_.13414_6_17.3 Genome Set 318967 N/A ICE Firmicutes
 UMGS57_SRR2155361_bin.23_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_66_length_81507_cov_10.118082 Genome Set 81507 N/A ICE Firmicutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_37.4 Genome Set 215716 N/A ICE Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospirillum_.20427_4_25.13 Genome Set 89232 N/A ICE Firmicutes
 UMGS1911_ERR911953_bin.70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_2208_length_18657_cov_3.586550 Genome Set 18657 N/A ICE
 Firmicutes

18048_2_90_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Odoribacter_.18048_2_90.14 Genome Set 110735 N/A ICE
 Bacteroidetes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_71.19 Genome Set 75918 N/A ICE Firmicutes
 UMGS658_SRR2155387_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_32_length_165016_cov_19.8676 Genome Set 165016 N/A ICE Firmicutes
 UMGS488_SRR5275456_bin.21_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_NODE_442_length_49732_cov_46.6453 Genome Set 49732 N/A ICE
 Firmicutes

20298_2_31_Firmicutes_Negativicutes_Selenomonadales_Veillonellaceae_NA_.20298_2_31.5 Genome Set 307045 N/A ICE Firmicutes
 UMGS785_ERR1297697_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_37_length_146970_cov_7.369098 Genome Set 146970 N/A ICE
 Firmicutes

14207_7_70_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_.14207_7_70.5 Genome Set 370362 N/A ICE Bacteroidetes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_89.25 Genome Set 52065 N/A ICE Firmicutes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.20287_6_53.23 Genome Set 59862 N/A ICE Bacteroidetes
 NZ_JH414884.1_Citrobacter_freundii_4_7_47CFAA_supercont1.9__whole_genome_shotgun_sequence Genome Set 611922 rep_cluster_224 ICE
 Proteobacteria

UMGS155_ERR688606_bin.32_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_73_length_89728_cov_13.811459 Genome Set 89728 N/A ICE
 Firmicutes

UMGS1255_ERR1578662_bin.19_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_2144_length_5693_cov_4.36201 Genome Set 5693 N/A Plasmid Tenericutes

UMGS100_ERR1913101_bin.17_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_37_length_66993_cov_10.251740 Genome Set 66993 N/A ICE Bacteroidetes

20298_2_10_Firmicutes_Bacilli_Lactobacillales_Streptococcaceae_Streptococcus_20298_2_10.9Genome Set 79895 N/A ICE Firmicutes

14207_7_28_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_28.1
Genome Set 820843 N/A ICE Firmicutes

UMGS248_ERR525690_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Robinsoniella_NODE_8_length_209524_cov_37.4096 Genome Set 209524
N/A ICE Firmicutes

NZ_KE340301.1_Prevotella_oralis_HGA0225_genomic_scaffold_acAqJ-supercont1.1__whole_genome_shotgun_sequence Genome Set 1311360 N/A
ICE Bacteroidetes

12718_7_73_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_12718_7_73.18
Genome Set 36296 N/A ICE Firmicutes

20298_3_70_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_NA_20298_3_70.9
Genome Set 170195 N/A ICE Tenericutes

13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_13470_2_81.11
Genome Set 113568 N/A ICE Firmicutes

UMGS340_SRR1761708_bin.14_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_148_length_45593_cov_6.592406
Genome Set 45593 N/A ICE Firmicutes

NZ_GL890556.1_Lachnospiraceae_bacterium_6_1_63FAA_genomic_scaffold_supercont1.9__whole_genome_shotgun_sequence
Genome Set 94685 N/A ICE Firmicutes

11861_6_63_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_11861_6_63.1
Genome Set 836969 N/A ICE Bacteroidetes

UMGS1094_SRR5056760_bin.8_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_1804_length_19819_cov_11.156193
Genome Set 19819 N/A ICE Actinobacteria

20298_3_34_Firmicutes_Clostridia_Clostridiales_NA_NA_20298_3_34.4
Genome Set 433599 N/A ICE Firmicutes

NZ_HE978648.1_Alistipes_sp._JC50_genomic_scaffold_scaffold00002__whole_genome_shotgun_sequence
Genome Set 1737821 N/A ICE Bacteroidetes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13414_6_67.1
Genome Set 313182 N/A ICE Firmicutes

UMGS599_SRR5050586_bin.21_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_112_length_112649_cov_4.761559
Genome Set 112649 N/A ICE Firmicutes

13414_6_44_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_13414_6_44.13
Genome Set 84813 N/A ICE Firmicutes

UMGS873_ERR1190965_bin.23_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_697_length_19112_cov_5.101695
Genome Set 19112 N/A ICE Firmicutes

13414_6_50_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_13414_6_50.3
Genome Set 312755 N/A ICE Firmicutes

NZ_GL891990.1_Dysgonomonas_gadei_ATCC_BAA-286_genomic_scaffold_supercont1.12__whole_genome_shotgun_sequence
Genome Set 132140 N/A ICE Bacteroidetes

13470_2_73_Firmicutes_Negativicutes_Selenomonadales_Veillonellaceae_Megaphaera_13470_2_73.22
Genome Set 40863 N/A ICE Firmicutes

NZ_DS483517.1_Parvimonas_micra_ATCC_33270_Scflld_02_13_genomic_scaffold__whole_genome_shotgun_sequence
Genome Set 505805 N/A ICE Firmicutes

13414_6_53_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Faecalibacterium_13414_6_53.13
Genome Set 86190 N/A ICE Firmicutes

NZ_DS264285.1_Eubacterium_ventriosum_ATCC_27560_Scflld0223_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 247920 N/A N/A
Firmicutes

NZ_DS990134.1_Bacteroides_plebeius_DSM_17135_Scflld_02_17_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 722256 N/A ICE
Bacteroidetes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.14207_6_3.26 Genome Set 36969 N/A ICE Bacteroidetes

13414_6_3_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_3.7
Genome Set 250942 N/A ICE Firmicutes

UMGS233_SRR6028305_bin.9_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_1466_length_6844_cov_12.659449 Genome Set 6844 N/A ICE
Firmicutes

UMGS1899_ERR1913030_bin.47_NA_NA_NA_NA_NA_NODE_8646_length_3247_cov_3.760025 Genome Set 3247 N/A ICE NA

UMGS78_ERR1190897_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_NODE_83_length_128967_cov_18.979420 Genome Set 128967
N/A ICE Firmicutes

NZ_KB905470.1_Bacteroides_salyersiae_WAL_10018_=DSM_18765_=JCM_12988_genomic_scaffold_acAqE-supercont1.5__whole_genome_shotgun_sequence
Genome Set 116045 N/A ICE Bacteroidetes

UMGS143_ERR688524_bin.28_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_176_length_74687_cov_7.903031 Genome Set 74687 N/A
ICE Firmicutes

NZ_EQ973637.1_Bacteroides_coprophilus_DSM_18228_=JCM_13818_genomic_scaffold_Scflld9__whole_genome_shotgun_sequence Genome Set 247317 N/A
ICE Bacteroidetes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.32 Genome Set 29126 N/A ICE Firmicutes

UMGS1624_ERR688644_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_125_length_80515_cov_27.737547 Genome Set
80515 N/A ICE Bacteroidetes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospirillum_20427_4_25.149 Genome Set 502 N/A Plasmid Firmicutes

UMGS1531_ERR525788_bin.2_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_331_length_40543_cov_14.387448Genome Set
40543 N/A N/A Firmicutes

UMGS692_ERR1913113_bin.1_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_17_length_93063_cov_10.188199Genome Set 93063 N/A ICE Firmicutes

UMGS1598_ERR414334_bin.22_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_9997_length_3789_cov_4.561061 Genome Set 3789
N/A N/A Bacteroidetes

NZ_ABJL02000008.1_Bacteroides_intestinalis_DSM_17393_B_intestinalis-2.0.1_Cont607__whole_genome_shotgun_sequence Genome Set 3472993 N/A
ICE Bacteroidetes

UMGS834_ERR1620269_bin.44_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_3312_length_9355_cov_45.272151 Genome Set 9355 N/A ICE Firmicutes

18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_.18048_2_82.37
Genome Set 29876 N/A ICE Firmicutes

NZ_GL698429.1_Streptococcus_equinus_ATCC_9812_genomic_scaffold_SCAFFOLD1__whole_genome_shotgun_sequence Genome Set 1382815 N/A ICE
Firmicutes

```

UMGS133_ERR209556_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_NA_NODE_14_length_168382_cov_8.026514      Genome Set 168382      N/A
      ICE      Firmicutes
13414_6_15_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_15.17      Genome Set 85325 N/A      ICE      Firmicutes
21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.4
      Genome Set 233318      N/A      ICE      Firmicutes
8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138176.8080_1_78.22      Genome Set 109239      N/A      ICE
      Firmicutes
14207_7_10_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_
7_10.2      Genome Set 735448      N/A      ICE      Firmicutes
20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_39.31
      Genome Set 17786 N/A      ICE      Firmicutes
UMGS54_SRR3131812_bin.3_Proteobacteria_Gammaproteobacteria_Enterobacteria
les_Enterobacteriaceae_Pantoea_NODE_27_length_85418_cov_34.003034
      Genome Set 85418 IncFII      Plasmid      Proteobacteria
UMGS695_ERR1913046_bin.9_Tenericutes_Mollicutes_Erysipelotrichales_Erysip
elotrichaceae_Solobacterium_NODE_1617_length_10705_cov_4.798028
      Genome Set 10705 N/A      ICE      Tenericutes
21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_
4_12.6      Genome Set 244387      N/A      ICE      Firmicutes
UMGS1011_ERR414329_bin.39_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
131_length_55239_cov_5.025913      Genome Set 55239 N/A      ICE      Firmicutes
8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138176.8080_1_78.19      Genome Set 133873      N/A      ICE
      Firmicutes
UMGS446_SRR2674235_bin.2_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Collinsella_NODE_1603_length_25338_cov_6.676186
      Genome Set 25338 N/A      ICE      Actinobacteria
20298_2_7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.20298_2_7.1 Genome Set 979168      N/A      ICE      Bacteroidetes
14207_7_42_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_
7_42.1      Genome Set 308594      N/A      ICE      Firmicutes
NZ_KE161030.1_Cedecea_davisae_DSM_4568_Scaffold0__whole_genome_shotgun_se
quence      Genome Set 4876800      N/A      ICE      Proteobacteria
UMGS1625_ERR414305_bin.19_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_265_length_66495_cov_6.951626Genome Set
66495 N/A      ICE      Firmicutes
20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococc
us_.20287_6_22.1 Genome Set 1088099      N/A      ICE      Firmicutes
UMGS1255_ERR1578662_bin.19_Tenericutes_Mollicutes_Erysipelotrichales_Erys
ipelotrichaceae_Solobacterium_NODE_2430_length_4872_cov_5.54723
      Genome Set 4872 N/A      Plasmid      Tenericutes
NZ_DS990260.1_Clostridiales_bacterium_1_7_47_FAA_supercont2.1_genomic_sca
ffold__whole_genome_shotgun_sequence      Genome Set 3013027      N/A      ICE
      Firmicutes
8080_1_80_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_S
olobacterium_ERS138178.8080_1_80.4Genome Set 191176      N/A      ICE
      Tenericutes
NZ_LT559262.1_Alistipes_sp._Marseille-
P2431__whole_genome_shotgun_sequence      Genome Set 3788833      N/A      ICE
      Bacteroidetes

```

NZ_GG657587.1_Clostridium_asparagiforme_DSM_15981_genomic_scaffold_Scflld1
 __whole_genome_shotgun_sequence Genome Set 823388 N/A ICE
 Firmicutes

UMGS1925_SRR5275467_bin.39_Firmicutes_Clostridia_Clostridiales_Peptostrep
 tococcaceae_Clostridium_NODE_1591_length_14138_cov_6.623021 Genome Set
 14138 N/A N/A Firmicutes

NZ_DS483502.1_Faecalibacterium_prausnitzii_M21_2_Scflld_02_23_genomic_scaf
 fold__whole_genome_shotgun_sequence Genome Set 207415 N/A ICE
 Firmicutes

NZ_KI517369.1_Pseudomonas_sp._HPB0071_genomic_scaffold_aczIi-
 supercont1.3__whole_genome_shotgun_sequence Genome Set 318103 N/A
 N/A Proteobacteria

NZ_FCEY01000006.1_Clostridium_sp._AT5_genome_assembly__contig_contig00006
 __whole_genome_shotgun_sequence Genome Set 617428 N/A ICE
 Firmicutes

UMGS1733_ERR011115_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
 laceae_Prevotella_NODE_12_length_75316_cov_13.895683 Genome Set
 75316 N/A ICE Bacteroidetes

UMGS1028_SRR341596_bin.15_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
 pelotrichaceae_Solobacterium_NODE_65_length_74596_cov_2.987336 Genome Set
 74596 N/A N/A Tenericutes

NZ_DS264265.1_Eubacterium_ventriosum_ATCC_27560_Scflld023_genomic_scaffold
 __whole_genome_shotgun_sequence Genome Set 309531 N/A ICE
 Firmicutes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
 6_67.56 Genome Set 630 N/A N/A Firmicutes

UMGS660_ERR414279_bin.17_Firmicutes_Clostridia_Clostridiales_Eubacteriace
 ae_Eubacterium_NODE_4_length_361249_cov_17.725198 Genome Set 361249
 N/A ICE Firmicutes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.13
 Genome Set 93938 N/A ICE Firmicutes

NZ_GL945333.1_Lachnospiraceae_bacterium_2_1_58FAA_genomic_scaffold_superc
 ont1.1__whole_genome_shotgun_sequence Genome Set 409039 N/A ICE
 Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
 erium_.20427_4_25.89 Genome Set 2786 N/A N/A Firmicutes

NZ_KI391949.1_Ruminococcaceae_bacterium_D16_genomic_scaffold_acsPy-
 supercont2.3__whole_genome_shotgun_sequence Genome Set 269907 N/A
 ICE Firmicutes

UMGS1057_SRR6028203_bin.16_Verrucomicrobia_Opitutae_Opitutales_NA_NA_NODE
 _233_length_28920_cov_31.049818 Genome Set 28920 N/A ICE
 Verrucomicrobia

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
 ides_.14207_7_23.63 Genome Set 4891 N/A Plasmid Bacteroidetes

12718_7_29_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
 ides_.12718_7_29.2 Genome Set 688440 N/A ICE Bacteroidetes

UMGS18_SRR1215278_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
 onadaceae_Porphyrmonas_NODE_19_length_63799_cov_6.688896Genome Set
 63799 N/A ICE Bacteroidetes

20298_3_69_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.20298_
 3_69.8 Genome Set 192319 N/A ICE Firmicutes

UMGS472_ERR1578619_bin.63_Firmicutes_Clostridia_Clostridiales_Lachnospira
 ceae_Roseburia_NODE_46_length_159713_cov_52.428372 Genome Set 159713
 N/A ICE Firmicutes

NZ_HG005294.1_Erysipelotrichaceae_bacterium_AP9_genomic_scaffold_scaffol
d00011__whole_genome_shotgun_sequence Genome Set 106591 N/A N/A
Tenericutes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.20287_6_53.13 Genome Set 244799 N/A ICE Bacteroidetes

12718_7_73_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.12718_
7_73.12 Genome Set 254429 N/A ICE Firmicutes

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococc
us_.13414_6_17.13Genome Set 115366 N/A ICE Firmicutes

UMGS1213_SRR5558409_bin.19_Bacteroidetes_Bacteroidia_Bacteroidales_Bacter
oidaceae_Bacteroides_NODE_68_length_88904_cov_3.961994 Genome Set
88904 N/A ICE Bacteroidetes

NZ_DS483477.1_Eubacterium_dolichum_DSM_3991_Scflld_02_17_genomic_scaffold_
_whole_genome_shotgun_sequence Genome Set 453733 N/A ICE
Tenericutes

UMGS235_ERR526047_bin.37_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Eggerthella_NODE_1_length_431706_cov_5.517175 Genome Set
431706 N/A N/A Actinobacteria

NZ_DS990262.1_Clostridiales_bacterium_1_7_47_FAA_supercont2.3_genomic_sca
ffold__whole_genome_shotgun_sequence Genome Set 992254 N/A ICE
Firmicutes

UMGS697_SRR5056891_bin.33_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_279_length_55760_cov_325.626784 Genome Set 55760 N/A ICE
Firmicutes

NZ_DS990119.1_Bacteroides_plebeius_DSM_17135_Scflld_02_2_genomic_scaffold_
_whole_genome_shotgun_sequence Genome Set 571288 N/A ICE
Bacteroidetes

20298_3_58_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_58.8
Genome Set 218301 N/A ICE Firmicutes

NZ_JH414766.1_Tannerella_sp._6_1_58FAA_CT1_genomic_scaffold_supercont1.1_
_whole_genome_shotgun_sequence Genome Set 1024172 rep_cluster_1702
ICE Bacteroidetes

20298_3_30_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_
.20298_3_30.1 Genome Set 556069 N/A ICE Bacteroidetes

14207_7_50_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_50.21
Genome Set 26539 N/A N/A Firmicutes

NC_020555.1_Helicobacter_cinaedi_CCUG_18818_=ATCC_BAA-
847_DNA__complete_genome Genome Set 2240130 N/A ICE
Proteobacteria

UMGS1806_SRR5279238_bin.24_Firmicutes_Clostridia_Clostridiales_Lachnospir
aceae_Roseburia_NODE_6605_length_2017_cov_3.84811 Genome Set 2017 N/A
N/A Firmicutes

20298_3_17_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobac
teriaceae_Citrobacter_.20298_3_17.1 Genome Set 1513502 N/A ICE
Proteobacteria

NZ_HE578952.1_Enterobacter_massiliensis_JC163_strain_type_strain_JC163_
whole_genome_shotgun_sequence Genome Set 91086 N/A Plasmid
Proteobacteria

NZ_KE993663.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold88__who
le_genome_shotgun_sequence Genome Set 91831 N/A ICE Firmicutes

NZ_CBYL010000049.1_Clostridium_jeddahense_strain_JCD__whole_genome_shotgu
n_sequence Genome Set 22077 N/A ICE Firmicutes

13414_6_14_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_14.6
Genome Set 188408 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.216
73_4_87.3_Genome Set 451377 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.216
73_4_87.15_Genome Set 46858 N/A ICE Firmicutes

NZ_EQ973222.1_Bacteroides_fragilis_3_1_12_supercont1.10_genomic_scaffold_
_whole_genome_shotgun_sequence Genome Set 49314 N/A ICE
Bacteroidetes

13414_6_20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_20.5_Genome Set 229452 N/A ICE Firmicutes

NZ_JH376874.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supe
rcont1.5__whole_genome_shotgun_sequence Genome Set 313771 N/A ICE
Firmicutes

NZ_JH414885.1_Citrobacter_freundii_4_7_47CFAA_supercont1.10__whole_genome
_shotgun_sequenceGenome Set 116848 IncFII,IncFII Plasmid
Proteobacteria

NC_015697.1_Lactobacillus_reuteri_SD2112__complete_genomeGenome Set
2264399 N/A ICE Firmicutes

UMGS530_SRR2155369_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_6
5_length_69452_cov_20.2657 Genome Set 69452 N/A ICE Firmicutes

NZ_KI271170.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold625
__whole_genome_shotgun_sequence Genome Set 548 N/A Plasmid
Firmicutes

12718_7_94_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.12718_
7_94.1_Genome Set 441227 N/A ICE Firmicutes

UMGS219_ERR321453_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroid
aceae_Bacteroides_NODE_371_length_8036_cov_3.07781 Genome Set 8036 N/A
ICE Bacteroidetes

UMGS489_SRR1761687_bin.58_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_NA_NODE_6_length_294183_cov_14.547041 Genome Set 294183
N/A ICE Bacteroidetes

UMGS1642_SRR5275432_bin.18_Firmicutes_Clostridia_Clostridiales_Peptostrep
tococcaceae_Clostridium_NODE_4_length_332412_cov_49.886571 Genome Set
332412 N/A ICE Firmicutes

UMGS462_ERR1305881_bin.83_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
2121_length_18060_cov_8.569453 Genome Set 18060 N/A ICE Firmicutes

UMGS1345_ERR505098_bin.47_Tenericutes_NA_NA_NA_NA_NODE_11_length_145565_c
ov_30.795746 Genome Set 145565 N/A N/A Tenericutes

NZ_ACFY01000051.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-
1.0.1_Cont64.1__whole_genome_shotgun_sequence Genome Set 23354 N/A N/A
Firmicutes

12718_7_50_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobac
teriaceae_Enterobacter_.12718_7_50.2 Genome Set 1434765 N/A ICE
Proteobacteria

20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.20287_6_9.3_Genome Set 463550 N/A ICE Bacteroidetes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.142
07_7_37.8_Genome Set 148313 N/A ICE Firmicutes

NZ_LT632322.1_Murdochiella_sp._Marseille-P2341_strain_Marseille-
P2341T_genome_assembly_chromosome__contig00001 Genome Set 1671491
N/A ICE Firmicutes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_.14207_6_9.13Genome Set 87135 N/A ICE Bacteroidetes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.19
Genome Set 56561 N/A ICE Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_20427_4_25.121 Genome Set 1058 N/A Plasmid Firmicutes
 UMGs1625_ERR414305_bin.19_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_58_length_128145_cov_7.892661Genome Set 128145 N/A ICE Firmicutes
 18391_1_7_Actinobacteria_Actinobacteria_Bifidobacteriales_Bifidobacteriaceae_Bifidobacterium_18391_1_7.1 Genome Set 1618393 N/A ICE Actinobacteria
 NZ_AEXR01000024.1_Eggerthella_sp._HGA1_contig00026__whole_genome_shotgun_sequence Genome Set 163482 N/A ICE Actinobacteria
 UMGs1646_SRR6028191_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_4140_length_4426_cov_12.932967 Genome Set 4426 N/A Plasmid Bacteroidetes
 UMGs1607_SRR6054490_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_380_length_24549_cov_7.863967 Genome Set 24549 N/A ICE Firmicutes
 UMGs1015_ERR1620298_bin.6_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_19_length_180788_cov_8.825018Genome Set 180788 N/A ICE Firmicutes
 13414_6_70_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13414_6_70.17 Genome Set 52692 N/A ICE Firmicutes
 14207_7_9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_14207_7_9.12 Genome Set 87938 N/A ICE Firmicutes
 14207_6_12_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_14207_6_12.2 Genome Set 329290 N/A ICE Bacteroidetes
 20287_6_22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_20287_6_22.18Genome Set 6849 N/A N/A Firmicutes
 20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_20287_6_37.1 Genome Set 248493 N/A ICE Firmicutes
 UMGs607_ERR526073_bin.39_Bacteroidetes_Flavobacteriia_Flavobacteriales_Flavobacteriaceae_Flavobacterium_NODE_2051_length_11809_cov_4.143696 Genome Set 11809 N/A ICE Bacteroidetes
 UMGs40_SRR2912796_bin.41_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_23_length_148566_cov_19.412764 Genome Set 148566 N/A ICE Firmicutes
 14207_7_54_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_54.5 Genome Set 212114 N/A ICE Firmicutes
 UMGs1205_ERR209515_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1074_length_14277_cov_41.011602 Genome Set 14277 N/A ICE Bacteroidetes
 21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_21673_4_19.15 Genome Set 119965 N/A ICE Firmicutes
 14207_7_28_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_28.6 Genome Set 223810 N/A ICE Firmicutes
 NZ_HE978634.1_Noviherbaspirillum_massiliense_JC206__whole_genome_shotgun_sequence Genome Set 3152253 N/A ICE Proteobacteria
 NZ_GL945334.1_Lachnospiraceae_bacterium_2_1_58FAA_genomic_scaffold_superc cont1.2__whole_genome_shotgun_sequence Genome Set 405671 N/A ICE Firmicutes
 NZ_ACFY01000044.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont55.1__whole_genome_shotgun_sequence Genome Set 19574 N/A N/A Firmicutes
 NZ_DS547020.1_Clostridium_sp._SS2_1_ScflD_03_24_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 116654 N/A ICE Firmicutes

13470_2_92_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_92.14 Genome Set 97606 N/A ICE Firmicutes
 NZ_AEXR01000037.1_Eggerthella_sp._HGA1_contig00009__whole_genome_shotgun_sequence Genome Set 46243 N/A ICE Actinobacteria
 NZ_GL834361.1_Clostridium_symbiosum_WAL-14673_genomic_scaffold_supercont1.5__whole_genome_shotgun_sequence Genome Set 427100 N/A ICE Firmicutes
 NZ_LN869529.1_Intestinimonas_sp._GD2_genome_assembly_Intestinimonas_massiliensis__scaffold_scaffold00007__whole_genome_shotgun_sequence Genome Set 2281024 N/A ICE Firmicutes
 UMGs1471_ERR414252_bin.28_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_1153_length_26649_cov_5.012183 Genome Set 26649 N/A N/A Firmicutes
 NZ_GL987988.1_Fusobacterium_mortiferum_ATCC_9817_genomic_scaffold_supercont2.2__whole_genome_shotgun_sequence Genome Set 1099302 N/A ICE Fusobacteria
 NZ_ACFY01000031.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont39.1__whole_genome_shotgun_sequence Genome Set 85784 N/A ICE Firmicutes
 8080_1_73_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_ERS138171.8080_1_73.4 Genome Set 373048 N/A ICE Firmicutes
 20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.20287_6_53.5 Genome Set 403696 N/A ICE Bacteroidetes
 NZ_JH376871.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1202118 N/A ICE Firmicutes
 UMGs1437_ERR209778_bin.10_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_954_length_11598_cov_2.314650 Genome Set 11598 N/A ICE Firmicutes
 20298_3_57_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_.20298_3_57.13 Genome Set 45787 N/A ICE Actinobacteria
 UMGs308_SRR4305073_bin.1_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_5_length_138764_cov_25.489074 Genome Set 138764 N/A ICE Actinobacteria
 UMGs1501_SRR5127533_bin.13_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_47_length_74876_cov_24.555940 Genome Set 74876 N/A ICE Actinobacteria
 UMGs50_ERR1293691_bin.12_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_18_length_160958_cov_30.067196 Genome Set 160958 N/A ICE Bacteroidetes
 NZ_GG661974.1_Helicobacter_winghamensis_ATCC_BAA-430_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 583100 N/A ICE Proteobacteria
 20298_3_21_Actinobacteria_Actinobacteria_Actinomycetales_Actinomycetaceae_Actinomyces_.20298_3_21.1 Genome Set 1496442 N/A ICE Actinobacteria
 21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_12.11 Genome Set 147821 N/A ICE Firmicutes
 13414_6_53_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Faecalibacterium_.13414_6_53.25 Genome Set 18741 N/A ICE Firmicutes
 NZ_JH379341.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_ScflD16__whole_genome_shotgun_sequence Genome Set 49182 N/A ICE Bacteroidetes
 UMGs709_SRR2992911_bin.12_Firmicutes_Clostridia_Clostridiales_Oscillospiraceae_Oscillibacter_NODE_31_length_96246_cov_15.4017 Genome Set 96246 N/A ICE Firmicutes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.8 Genome Set 133779 N/A ICE Firmicutes

UMGS1607_SRR6054490_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_167_length_44405_cov_6.507892 Genome Set 44405 N/A ICE Firmicutes

UMGS2053_SRR2912776_bin.56_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_8859_length_2686_cov_3.678069 Genome Set 2686 N/A ICE Firmicutes

NZ_CZPX01000005.1_Actinomyces_ihumii_strain_SD1__whole_genome_shotgun_sequence Genome Set 1390721 N/A N/A Actinobacteria

UMGS120_ERR1018284_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_1130_length_14941_cov_5.644297 Genome Set 14941 N/A ICE Bacteroidetes

UMGS1236_ERR1293842_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_76_length_93040_cov_11.595053 Genome Set 93040 N/A ICE Bacteroidetes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_14207_6_3.25 Genome Set 38355 N/A ICE Bacteroidetes

NZ_KI391947.1_Ruminococcaceae_bacterium_D16_genomic_scaffold_acsPy-supercont2.1__whole_genome_shotgun_sequence Genome Set 1703898 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_21673_4_87.5 Genome Set 213095 N/A ICE Firmicutes

UMGS1735_ERR525802_bin.17_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_89_length_69711_cov_11.1213 Genome Set 69711 N/A ICE Firmicutes

UMGS1433_SRR6028647_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_58_length_50086_cov_10.261898 Genome Set 50086 N/A ICE Bacteroidetes

21673_4_71_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_21673_4_71.28 Genome Set 48304 N/A ICE Firmicutes

NZ_LT594620.1_Culturomica_massiliensis_strain_Marseille-P2698__whole_genome_shotgun_sequence Genome Set 173787 N/A ICE Bacteroidetes

NZ_JH376875.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supercont1.6__whole_genome_shotgun_sequence Genome Set 276472 N/A ICE Firmicutes

NZ_GL890521.1_Lachnospiraceae_bacterium_3_1_46FAA_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 919149 N/A ICE Firmicutes

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_14207_7_43.3 Genome Set 227190 N/A ICE Firmicutes

NZ_FCEY01000008.1_Clostridium_sp._AT5_genome_assembly__contig_contig00008__whole_genome_shotgun_sequence Genome Set 1822226 N/A ICE Firmicutes

NZ_JALB01000023.1_Providencia_alcalifaciens_RIMD_1656011_ctgN84L48809C36.6694__whole_genome_shotgun_sequence Genome Set 48809 N/A Plasmid Proteobacteria

UMGS905_SRR6028570_bin.23_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_129_length_42604_cov_5.810595 Genome Set 42604 N/A ICE Firmicutes

UMGS59_ERR589527_bin.14_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_12_length_209425_cov_13.530477 Genome Set 209425 N/A ICE Firmicutes

UMGS1772_SRR341608_bin.22_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_163_length_48429_cov_1.819986 Genome Set 48429 N/A ICE
Firmicutes

NZ_KE150436.1_Coprococcus_sp._HPP0074_genomic_scaffold_acAqD-
supercont1.2__whole_genome_shotgun_sequence Genome Set 386540 N/A
ICE Firmicutes

UMGS1206_ERR414305_bin.35_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
1443_length_20391_cov_11.202301 Genome Set 20391 N/A ICE Firmicutes

NZ_DS499678.1_Clostridium_scindens_ATCC_35704_Scfld_02_0_genomic_scaffold
__whole_genome_shotgun_sequence Genome Set 112422 N/A ICE
Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.20
Genome Set 63295 N/A ICE Firmicutes

20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_
6_63.25 Genome Set 13328 N/A ICE Firmicutes

UMGS1680_SRR5558297_bin.55_Actinobacteria_Actinobacteria_Coriobacteriales
_Coriobacteriaceae_Collinsella_NODE_854_length_35967_cov_10.287545
Genome Set 35967 N/A ICE Actinobacteria

14207_7_95_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.14207_
7_95.4 Genome Set 221254 N/A ICE Firmicutes

20287_6_53_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.20287_6_53.11 Genome Set 281564 N/A ICE Bacteroidetes

UMGS1995_SRR3108064_bin.38_Firmicutes_Clostridia_Clostridiales_Peptostrep
tococcaceae_Clostridium_NODE_381_length_54859_cov_5.885556 Genome Set
54859 N/A N/A Firmicutes

NZ_KE150017.1_Lachnospiraceae_bacterium_2_1_46FAA_genomic_scaffold_aclXT-
supercont-complete__whole_genome_shotgun_sequence Genome Set 2219029
N/A ICE Firmicutes

UMGS413_ERR1305894_bin.87_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_145_length_98533_cov_19.400262 Genome Set 98533 N/A ICE
Firmicutes

UMGS400_ERR414279_bin.29_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyro
monadaceae_NA_NODE_878_length_28135_cov_18.525997 Genome Set 28135 N/A
ICE Bacteroidetes

UMGS1369_SRR5050586_bin.6_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Blautia_NODE_118_length_108617_cov_5.562913 Genome Set 108617
N/A ICE Firmicutes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_
7_84.9 Genome Set 119565 N/A ICE Firmicutes

UMGS480_ERR011241_bin.5_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenella
ceae_Alistipes_NODE_19_length_54238_cov_21.0064 Genome Set 54238 N/A
ICE Bacteroidetes

14207_7_70_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.14207_7_70.2 Genome Set 732726 N/A ICE Bacteroidetes

13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_33.6 Genome Set 244910 N/A ICE Firmicutes

13470_2_62_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.13470_2_62.4 Genome Set 253346 N/A ICE Bacteroidetes

13414_6_15_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_15.31 Genome Set 28176 N/A ICE Firmicutes

18048_2_90_Bacteroidetes_Bacteroidia_Bacteroidales_Porphryomonadaceae_Odo
ribacter_.18048_2_90.18 Genome Set 80499 N/A ICE Bacteroidetes

UMGS1017_ERR525737_bin.30_Tenericutes_Mollicutes_Erysipelotrichales_Erysi
pelotrichaceae_Solobacterium_NODE_313_length_47076_cov_16.185066
Genome Set 47076 N/A ICE Tenericutes

14207_7_70_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.14207_7_70.3 Genome Set 702390 N/A ICE Bacteroidetes

14207_7_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_18.1
Genome Set 664532 N/A ICE Firmicutes

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.14207_7_23.46 Genome Set 30411 N/A ICE Bacteroidetes

UMGS1353_ERR589584_bin.12_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_737_length_24663_cov_3.31502 Genome Set 24663 N/A ICE
Firmicutes

UMGS1155_ERR209170_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_449_length_9462_cov_9.844584 Genome Set 9462 N/A
N/A Bacteroidetes

NZ_HE978610.1_Brevibacterium_sp._JC43_genomic_scaffold_scaffold00011__wh
ole_genome_shotgun_sequence Genome Set 86061 N/A ICE Actinobacteria

13414_6_47_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
erium_.13414_6_47.19 Genome Set 51925 N/A ICE Firmicutes

NZ_GG730105.1_Bacteroides_sp._D20_genomic_scaffold_supercont1.1__whole_ge
nome_shotgun_sequence Genome Set 1436640 N/A ICE Bacteroidetes

NZ_EQ973215.1_Bacteroides_fragilis_3_1_12_supercont1.3_genomic_scaffold__
whole_genome_shotgun_sequence Genome Set 707880 N/A ICE
Bacteroidetes

UMGS2048_SRR1197080_bin.23_Tenericutes_Mollicutes_Erysipelotrichales_Erys
ipelotrichaceae_Solobacterium_NODE_3138_length_4221_cov_2.543687
Genome Set 4221 N/A ICE Tenericutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.37
Genome Set 25383 N/A ICE Firmicutes

14207_7_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_28.4
Genome Set 598963 N/A ICE Firmicutes

UMGS1678_ERR589505_bin.72_Firmicutes_Negativicutes_Selenomonadales_Veillo
nellaceae_Selenomonas_NODE_821_length_36065_cov_7.724021 Genome Set
36065 N/A N/A Firmicutes

UMGS96_SRR769526_bin.2_Firmicutes_Clostridia_Clostridiales_Lachnospiracea
e_NA_NODE_97_length_31505_cov_8.49657 Genome Set 31505 N/A ICE
Firmicutes

13470_2_64_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.13470_2_64.3 Genome Set 183539 N/A ICE Bacteroidetes

UMGS629_SRR5580103_bin.48_Actinobacteria_Actinobacteria_Coriobacteriales_
Coriobacteriaceae_NA_NODE_305_length_84371_cov_8.804328 Genome Set
84371 N/A ICE Actinobacteria

UMGS151_ERR525714_bin.15_Firmicutes_Clostridia_Clostridiales_Lachnospirac
eae_Robinsoniella_NODE_951_length_12840_cov_5.22792 Genome Set 12840 N/A
N/A Firmicutes

UMGS624_ERR011095_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroid
aceae_Bacteroides_NODE_7_length_128673_cov_7.41245 Genome Set 128673
N/A ICE Bacteroidetes

UMGS21_ERR525840_bin.18_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_79
_length_114292_cov_33.4724 Genome Set 114292 N/A ICE Firmicutes

UMGS511_DRR042316_bin.21_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Collinsella_NODE_25_length_186654_cov_10.933125
Genome Set 186654 N/A ICE Actinobacteria

UMGS1236_ERR1293842_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_119_length_55682_cov_7.593687 Genome Set
55682 N/A ICE Bacteroidetes

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.3 Genome Set 284648 N/A ICE Firmicutes

18048_1_70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.18048_1_70.4 Genome Set 258203 N/A ICE Firmicutes

8080_1_80_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_ERS138178.8080_1_80.11 Genome Set 115840 N/A ICE Tenericutes

UMGS397_ERR1190862_bin.42_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_8_length_245134_cov_12.823269 Genome Set 245134 N/A ICE Actinobacteria

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_7_84.4 Genome Set 304438 N/A ICE Firmicutes

UMGS923_ERR2013566_bin.18_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_119_length_61470_cov_10.832354 Genome Set 61470 N/A ICE Firmicutes

20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_39.7 Genome Set 213138 N/A ICE Firmicutes

UMGS1369_SRR5050586_bin.6_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_394_length_34234_cov_5.781562 Genome Set 34234 N/A N/A Firmicutes

NZ_HE610718.1_Peptoniphilus_senegalensis_JC140__type_strain_JC140T__genomic_scaffold__scaffold00002__whole_genome_shotgun_sequenceGenome Set 815711 N/A ICE Firmicutes

UMGS622_ERR321346_bin.18_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_341_length_24322_cov_7.34891 Genome Set 24322 N/A N/A Bacteroidetes

UMGS365_SRR5558121_bin.15_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_53_length_151448_cov_7.017811 Genome Set 151448 N/A ICE Firmicutes

UMGS1747_SRR3917697_bin.34_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_35_length_115142_cov_52.3374 Genome Set 115142 N/A ICE Actinobacteria

18048_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_1_72.4 Genome Set 307071 N/A ICE Firmicutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_37.12 Genome Set 92754 N/A ICE Firmicutes

UMGS708_SRR2155372_bin.20_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_85_length_95213_cov_14.6286 Genome Set 95213 N/A ICE Firmicutes

18048_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.18048_1_72.11 Genome Set 34131 N/A N/A Firmicutes

UMGS629_SRR5580103_bin.48_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_NODE_1365_length_32885_cov_5.129846 Genome Set 32885 N/A N/A Actinobacteria

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_67.14 Genome Set 105232 N/A ICE Firmicutes

UMGS354_SRR4444801_bin.32_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_4_length_316779_cov_26.929188 Genome Set 316779 N/A ICE Firmicutes

UMGS607_ERR526073_bin.39_Bacteroidetes_Flavobacteriia_Flavobacteriales_Flavobacteriaceae_Flavobacterium_NODE_355_length_36269_cov_4.121804 Genome Set 36269 N/A ICE Bacteroidetes

NZ_KQ236098.1_Parabacteroides_sp._2_1_7_genomic_scaffold_supercont2.7__whole_genome_shotgun_sequence Genome Set 146439
 rep_cluster_1702,rep_cluster_1097 ICE Bacteroidetes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_14207_6_9.4 Genome Set 176550 N/A ICE Bacteroidetes

13414_6_43_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_13414_6_43.1 Genome Set 1011832 N/A ICE Firmicutes

NZ_GG705177.1_Bacteroides_sp._2_1_22_genomic_scaffold_supercont1.5__whole_genome_shotgun_sequence Genome Set 414061 N/A ICE
 Bacteroidetes

NZ_DS996922.1_[Bacteroides]_pectinophilus_ATCC_43243_Scflld_02_2_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 112627 N/A ICE
 Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13414_6_68.3 Genome Set 348365 N/A ICE Firmicutes

UMGS597_ERR1305903_bin.25_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_124_length_92902_cov_15.113832 Genome Set 92902 N/A N/A Firmicutes

21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_21673_4_12.7 Genome Set 221672 N/A ICE Firmicutes

NZ_GG730320.1_Clostridium_sp._M62_1_genomic_scaffold_Scflld11__whole_genome_shotgun_sequence Genome Set 30658 N/A ICE Firmicutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_21673_4_37.13 Genome Set 80682 N/A ICE Firmicutes

UMGS1293_SRR5558313_bin.90_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_NODE_11292_length_3909_cov_3.356733Genome Set 3909
 N/A ICE Actinobacteria

NZ_CCXH01000302.1_Actinomyces_polynesiensis_strain_MS2__whole_genome_shotgun_sequence Genome Set 32881 rep_cluster_1578 N/A Actinobacteria

NZ_JH379375.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_Scflld115__whole_genome_shotgun_sequence Genome Set 106628 N/A ICE
 Bacteroidetes

NZ_LN831785.1_Massilibacterium_senegalense_strain_mt8__whole_genome_shotgun_sequence Genome Set 521830 N/A ICE Firmicutes

UMGS1236_ERR1293842_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_439_length_16698_cov_9.520940 Genome Set 16698 N/A ICE Bacteroidetes

UMGS1294_ERR414346_bin.49_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_3891_length_10009_cov_3.919630 Genome Set 10009 N/A ICE Bacteroidetes

UMGS840_SRR3737012_bin.13_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_94_length_87111_cov_6.572907 Genome Set 87111 N/A
 ICE Bacteroidetes

NZ_GG663520.1_Butyrvibrio_crossotus_DSM_2876_genomic_scaffold_Scflld16__whole_genome_shotgun_sequence Genome Set 305755 N/A ICE Firmicutes

UMGS1236_ERR1293842_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1739_length_6159_cov_8.215596 Genome Set 6159
 N/A ICE Bacteroidetes

UMGS553_ERR209769_bin.23_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_160_length_58516_cov_3.773781 Genome Set 58516 N/A ICE
 Firmicutes

UMGS639_DRR042328_bin.21_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_2_length_962117_cov_15.533915
 Genome Set 962117 N/A ICE Actinobacteria

UMGS1204_SRR1761701_bin.34_Actinobacteria_Actinobacteria_Coriobacteriales
_Coriobacteriaceae_NA_NODE_515_length_22474_cov_7.95312 Genome Set
22474 N/A ICE Actinobacteria

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138176.8080_1_78.27 Genome Set 94624 N/A ICE Firmicutes

UMGS361_SRR5056748_bin.63_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
1551_length_29861_cov_7.880427 Genome Set 29861 N/A ICE Firmicutes

UMGS1314_ERR911958_bin.26_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_2996_length_13635_cov_167.319072 Genome Set
13635 N/A Plasmid Firmicutes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroi
des_14207_6_9.46Genome Set 28505 N/A ICE Bacteroidetes

NZ_GG730312.1_Clostridium_sp._M62_1_genomic_scaffold_Scfld3__whole_genome
_shotgun_sequenceGenome Set 412181 N/A ICE Firmicutes

NZ_DS990130.1_Bacteroides_plebeius_DSM_17135_Scfld_02_13_genomic_scaffold
__whole_genome_shotgun_sequence Genome Set 760260 N/A ICE
Bacteroidetes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.142
07_7_37.7 Genome Set 156954 N/A ICE Firmicutes

21673_4_77_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clos
tridium_.21673_4_77.2 Genome Set 1004140 N/A ICE Firmicutes

UMGS2037_SRR341620_bin.32_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_4573_length_5204_cov_1.870654 Genome Set 5204 N/A ICE
Firmicutes

UMGS29_ERR525845_bin.24_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
onadaceae_Butyricimonas_NODE_1_length_695009_cov_28.956 Genome Set
695009 N/A ICE Bacteroidetes

UMGS376_DRR042411_bin.15_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Collinsella_NODE_64_length_96913_cov_8.853815 Genome Set
96913 N/A ICE Actinobacteria

NZ_HE610960.1_Paenibacillus_senegalensis_JC66_genomic_scaffold__scaffold0
0004__whole_genome_shotgun_sequence Genome Set 601914 N/A ICE
Firmicutes

14207_7_90_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_90.30
Genome Set 39743 N/A ICE Firmicutes

13414_6_15_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_15.2 Genome Set 268840 N/A ICE Firmicutes

14207_6_13_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.14207_6_13.7 Genome Set 128978 N/A ICE Bacteroidetes

UMGS1049_ERR321543_bin.17_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_Odoribacter_NODE_1617_length_10624_cov_2.21166 Genome Set
10624 N/A Plasmid Bacteroidetes

UMGS1765_ERR525886_bin.15_Fusobacteria_Fusobacteriia_Fusobacteriales_Fuso
bacteriaceae_Fusobacterium_NODE_920_length_21923_cov_18.618118 Genome Set
21923 N/A ICE Fusobacteria

18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_.18048_2_82.3
Genome Set 145931 N/A ICE Firmicutes

NZ_LT608321.1_Prevotellaceae_bacterium_Marseille-
P2826__whole_genome_shotgun_sequence Genome Set 2762878 N/A ICE
Bacteroidetes

UMGS1353_ERR589584_bin.12_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_NA_NODE_829_length_21860_cov_6.30993 Genome Set 21860 N/A ICE
Firmicutes

NZ_GL892011.1_Dysgonomonas_mossii_DSM_22836_genomic_scaffold_supercont1.8
 __whole_genome_shotgun_sequence Genome Set 179789 N/A ICE
 Bacteroidetes

13414_6_66_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
 3414_6_66.9 Genome Set 148432 N/A ICE Firmicutes

UMGS156_SRR5558393_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_94_length_74079_cov_8.407557 Genome Set 74079 N/A
 ICE Bacteroidetes

21673_4_80_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.21673_4_80.1 Genome Set 1120401 N/A ICE Firmicutes

20298_3_48_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
 0298_3_48.34 Genome Set 18773 N/A ICE Firmicutes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_89.38
 Genome Set 33587 N/A ICE Firmicutes

UMGS1953_SRR5127782_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_657_length_9956_cov_5.000404 Genome Set 9956 N/A ICE Firmicutes

NZ_GL538348.1_Faecalibacterium_cf._prausnitzii_KLE1255_genomic_scaffold_ScflD702__whole_genome_shotgun_sequence Genome Set 12446 N/A ICE
 Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_68.8
 Genome Set 200861 N/A ICE Firmicutes

UMGS1126_ERR414269_bin.20_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_4054_length_6532_cov_7.024240 Genome Set 6532 N/A
 ICE Bacteroidetes

14207_6_3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.14207_6_3.7
 Genome Set 135988 N/A ICE Bacteroidetes

UMGS762_SRR5127675_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_184_length_29733_cov_44.413404 Genome Set 29733 N/A ICE Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_68.4
 Genome Set 292661 N/A ICE Firmicutes

20298_2_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.20298_2_23.19
 Genome Set 94876 N/A ICE Bacteroidetes

13414_6_10_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_NA_.13414_6_10.13
 Genome Set 52157 N/A ICE Tenericutes

UMGS320_SRR5279258_bin.3_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_7_length_208815_cov_13.470188
 Genome Set 208815 N/A ICE Actinobacteria

20287_6_70_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_.20287_6_70.2
 Genome Set 270850 N/A ICE Actinobacteria

21673_4_33_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_.21673_4_33.11
 Genome Set 203470 rep_cluster_663 ICE
 Bacteroidetes

12718_7_51_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_.12718_7_51.8
 Genome Set 175600 N/A ICE Firmicutes

UMGS505_ERR1293707_bin.3_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_52_length_86150_cov_4.270666 Genome Set 86150 N/A
 ICE Firmicutes

NZ_DS499577.1_Alistipes_putredinis_DSM_17216_ScflD_02_7_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 1197641 rep_cluster_1702
 ICE Bacteroidetes

13414_6_66_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_66.6
 Genome Set 193764 N/A ICE Firmicutes

12718_7_72_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_72.4
 Genome Set 270541 N/A ICE Firmicutes

NZ_KE993572.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold222__whole_genome_shotgun_sequence Genome Set 68276 N/A ICE Firmicutes

UMGS1549_SRR1761710_bin.1_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_394_length_28317_cov_2.395549
Genome Set 28317 N/A ICE Actinobacteria

UMGS1348_ERR1305901_bin.5_NA_NA_NA_NA_NA_NODE_537_length_74508_cov_6.213249
Genome Set 74508 N/A ICE NA

13414_6_53_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Faecalibacterium_13414_6_53.15 Genome Set 62018 N/A ICE Firmicutes

20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_20298_3_39.12
Genome Set 122533 N/A ICE Firmicutes

UMGS947_SRR1196456_bin.17_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_486_length_25864_cov_24.402495
Genome Set 25864 N/A N/A Firmicutes

UMGS881_SRR4033077_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Pseudobutyrvibrio_NODE_5599_length_3069_cov_15.672860
Genome Set 3069 N/A N/A Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_14207_7_37.3
Genome Set 187044 N/A ICE Firmicutes

UMGS790_SRR5279243_bin.1_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_137_length_85367_cov_6.370159
Genome Set 85367 N/A ICE Actinobacteria

UMGS761_SRR5056797_bin.113_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_1835_length_24185_cov_8.286656
Genome Set 24185 N/A ICE Firmicutes

UMGS789_SRR5057091_bin.53_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_77_length_95154_cov_8.227710
Genome Set 95154 N/A N/A Actinobacteria

NC_010371.1_Finegoldia_magna_ATCC_29328_plasmid_pFMC_DNA_complete_sequence
Genome Set 189163 rep_cluster_1411 Plasmid Firmicutes

NZ_JH379347.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_Scflld24__whole_genome_shotgun_sequence Genome Set 5911 N/A ICE Bacteroidetes

20298_3_35_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_20298_3_35.1
Genome Set 385819 N/A ICE Firmicutes

14207_7_59_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_59.4
Genome Set 213351 N/A ICE Firmicutes

UMGS1711_SRR5558284_bin.37_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_656_length_45764_cov_10.940749
Genome Set 45764 N/A N/A Firmicutes

UMGS1829_ERR209478_bin.33_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_1371_length_13317_cov_2.051124
Genome Set 13317 N/A ICE Bacteroidetes

UMGS503_SRR1196634_bin.19_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_187_length_33267_cov_8.88155
Genome Set 33267 N/A N/A Tenericutes

20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_20287_6_63.2
Genome Set 615097 N/A ICE Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13414_6_68.9
Genome Set 158658 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_20287_6_37.32
Genome Set 33449 N/A N/A Firmicutes

UMGS1730_SRR5275432_bin.16_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_672_length_19595_cov_8.634596
Genome Set 19595 N/A ICE Firmicutes

UMGS1423_ERR1018270_bin.44_Firmicutes_Clostridia_Clostridiales_Peptostrep-
tococcaceae_Clostridium_NODE_250_length_56511_cov_5.893475 Genome Set
56511 N/A N/A Firmicutes

UMGS658_SRR2155387_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_3
6_length_155406_cov_18.4847 Genome Set 155406 N/A ICE Firmicutes
18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_.18048_2_82.14
Genome Set 73373 N/A ICE Firmicutes

NZ_LN913013.1_Gabonibacter_massiliensis_strain_GM7__whole_genome_shotgun_
sequence Genome Set 2324047 N/A ICE Bacteroidetes
13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_
2_93.37 Genome Set 12214 N/A ICE Firmicutes

NZ_AAVN02000004.1_Collinsella_aerofaciens_ATCC_25986_C_aerofaciens-
2.0_Cont973__whole_genome_shotgun_sequence Genome Set 184100 N/A
ICE Actinobacteria

18048_1_70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.18048_
1_70.1 Genome Set 602315 N/A ICE Firmicutes
13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_33.1 Genome Set 323356 N/A ICE Firmicutes

NZ_HE978647.1_Alistipes_sp._JC50_genomic_scaffold__scaffold00001__whole_g
enome_shotgun_sequence Genome Set 2238564 N/A ICE Bacteroidetes
21673_4_12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_
4_12.36 Genome Set 8535 N/A ICE Firmicutes

UMGS664_ERR209886_bin.11_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_NA_NODE_90_length_68815_cov_4.744939 Genome Set 68815 N/A ICE
Firmicutes

NZ_KI271165.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold588
__whole_genome_shotgun_sequence Genome Set 1041 N/A N/A Firmicutes
20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_
6_63.3 Genome Set 307381 N/A ICE Firmicutes

UMGS1389_ERR1620298_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
3_length_440201_cov_21.639940 Genome Set 440201 N/A ICE
Firmicutes

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.12
Genome Set 79901 N/A ICE Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
erium_.20427_4_25.126 Genome Set 919 N/A N/A Firmicutes

20298_2_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.20298_2_23.9 Genome Set 144167 N/A ICE Bacteroidetes

UMGS1126_ERR414269_bin.20_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_NA_NODE_1650_length_13432_cov_4.830829 Genome Set 13432 N/A
ICE Bacteroidetes

UMGS537_ERR1297716_bin.14_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
7_length_192507_cov_11.219951 Genome Set 192507 N/A N/A
Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.33
Genome Set 16068 N/A N/A Firmicutes

UMGS1684_ERR011192_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
llaceae_Prevotella_NODE_2914_length_2016_cov_29.3121 Genome Set 2016
N/A ICE Bacteroidetes

14207_7_23_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bactero
ides_.14207_7_23.44 Genome Set 34696 N/A ICE Bacteroidetes

NZ_ADDR02000001.1_Desulfovibrio_sp._3_1_syn3_acqcX-
supercont2.1__whole_genome_shotgun_sequence Genome Set 2716392 N/A
ICE Proteobacteria

NZ_HE998567.1_Holdemania_sp._AP2_genomic_scaffold__scaffold00001__whole_g
enome_shotgun_sequence Genome Set 1685089 N/A ICE Tenericutes

UMGS945_ERR1620269_bin.39_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_647_length_25002_cov_8.417565Genome Set
25002 N/A ICE Firmicutes

NZ_GL629647.1_Prevotella_salivae_DSM_15606_genomic_scaffold_SCAFFOLD1__wh
ole_genome_shotgun_sequence Genome Set 3180194 N/A ICE
Bacteroidetes

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_47.4
Genome Set 460715 N/A ICE Firmicutes

UMGS1084_SRR4305433_bin.6_NA_NA_NA_NA_NA_NODE_136_length_49193_cov_12.121
474 Genome Set 49193 N/A ICE NA

11861_6_65_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.11861_
6_65.42 Genome Set 4391 N/A ICE Firmicutes

UMGS1989_ERR1190931_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
2831_length_11539_cov_3.258969 Genome Set 11539 N/A N/A Firmicutes

UMGS1410_ERR209454_bin.40_Tenericutes_NA_NA_NA_NA_NODE_313_length_39339_c
ov_7.704943Genome Set 39339 N/A N/A Tenericutes

UMGS1288_SRR341667_bin.16_Firmicutes_Clostridia_Clostridiales_Peptostrept
ococcaceae_Clostridium_NODE_3700_length_5931_cov_5.861300Genome Set 5931
N/A ICE Firmicutes

UMGS305_SRR3582148_bin.9_Actinobacteria_Actinobacteria_Coriobacteriales_C
oriobacteriaceae_Collinsella_NODE_34_length_123690_cov_10.649816
Genome Set 123690 N/A ICE Actinobacteria

UMGS119_ERR1620292_bin.17_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Blautia_NODE_266_length_52114_cov_21.576788 Genome Set 52114 N/A
ICE Firmicutes

NZ_KQ236096.1_Parabacteroides_sp._2_1_7_genomic_scaffold_supercont2.5__wh
ole_genome_shotgun_sequence Genome Set 3038395 N/A ICE
Bacteroidetes

UMGS1003_ERR525813_bin.62_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
llaceae_Prevotella_NODE_173_length_76734_cov_25.182618 Genome Set
76734 N/A N/A Bacteroidetes

NZ_KB905489.1_Bacteroides_sp._HPS0048_genomic_scaffold_acKdP-
supercont1.3__whole_genome_shotgun_sequence Genome Set 868688 N/A
ICE Bacteroidetes

UMGS2065_SRR2992944_bin.2_Tenericutes_NA_NA_NA_NA_NODE_75_length_13360_co
v_5.17926 Genome Set 13360 N/A N/A Tenericutes

UMGS57_SRR2155361_bin.23_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_4
34_length_25917_cov_11.868340 Genome Set 25917 N/A ICE Firmicutes

20298_3_57_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriace
ae_NA_.20298_3_57.5 Genome Set 369249 N/A ICE Actinobacteria

UMGS800_ERR1293918_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_NA_NODE_10_length_171207_cov_21.154909 Genome Set 171207
N/A ICE Bacteroidetes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_67.53 Genome Set 886 N/A N/A Firmicutes

NZ_FCEY01000007.1_Clostridium_sp._AT5_genome_assembly__contig_contig00007
__whole_genome_shotgun_sequence Genome Set 326237 rep_cluster_475
ICE Firmicutes

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.7
Genome Set 169021 N/A ICE Firmicutes

14207_7_42_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_
7_42.16 Genome Set 101356 N/A ICE Firmicutes

UMGS871_ERR414245_bin.26_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_362_length_50821_cov_6.991451 Genome Set
50821 N/A ICE Bacteroidetes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.21673_4_87.16 Genome Set 17400 N/A ICE Firmicutes

UMGS1767_SRR5275445_bin.35_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_1478_length_12457_cov_15.849299 Genome Set 12457 N/A N/A Actinobacteria

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.2 Genome Set 286851 N/A ICE Firmicutes

18048_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.18048_1_69.31 Genome Set 32366 N/A ICE Firmicutes

UMGS1534_ERR1620311_bin.17_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1_length_646692_cov_6.531094 Genome Set 646692 N/A ICE Bacteroidetes

UMGS262_SRR1761683_bin.19_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_273_length_48480_cov_47.324750 Genome Set 48480 N/A ICE Firmicutes

NZ_DS981457.1_Bacteroides_coprocola_DSM_17136_ScflD_02_30_genomic_scaffold_whole_genome_shotgun_sequence Genome Set 281116 N/A ICE Bacteroidetes

UMGS218_SRR5580022_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_185_length_28168_cov_6.164679 Genome Set 28168 N/A ICE Bacteroidetes

UMGS611_SRR5056929_bin.85_Tenericutes_NA_NA_NA_NA_NODE_2_length_372294_cov_10.401685 Genome Set 372294 N/A N/A Tenericutes

UMGS1677_ERR1190831_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_805_length_35021_cov_8.194274 Genome Set 35021 N/A N/A Firmicutes

8080_1_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_ERS13819.1.8080_1_93.13 Genome Set 87685 N/A ICE Firmicutes

UMGS511_DRR042316_bin.21_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_21_length_199171_cov_11.070869 Genome Set 199171 N/A ICE Actinobacteria

14207_7_42_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_7_42.48 Genome Set 42764 N/A ICE Firmicutes

14207_7_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.14207_7_37.26 Genome Set 50901 N/A ICE Firmicutes

20298_3_35_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.20298_3_35.3 Genome Set 239107 N/A ICE Firmicutes

NZ_AKCB01000001.1_Coprobaecillus_sp._D6_cont1.1_whole_genome_shotgun_sequence Genome Set 2786946 N/A ICE Tenericutes

13470_2_64_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_64.31 Genome Set 48108 N/A ICE Bacteroidetes

20298_3_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.20298_3_81.4 Genome Set 234766 N/A ICE Firmicutes

20298_2_49_Firmicutes_Bacilli_Lactobacillales_Streptococcaceae_Streptococcus_.20298_2_49.1 Genome Set 665222 N/A ICE Firmicutes

UMGS193_DRR042356_bin.29_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_Solobacterium_NODE_271_length_68870_cov_7.194129 Genome Set 68870 N/A ICE Tenericutes

14207_7_90_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_90.7 Genome Set 151497 N/A ICE Firmicutes

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.2
 Genome Set 649812 N/A ICE Firmicutes
 NZ_LN913000.1_Ruminococcus_sp._AT10_genome_assembly_Ruminococcus_phoceensis_scaffold_scaffold00004__whole_genome_shotgun_sequenceGenome Set
 710312 N/A ICE Firmicutes
 UMG5796_ERR1190945_bin.62_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_161_length_91200_cov_9.201591 Genome Set
 91200 N/A ICE Bacteroidetes
 UMG5282_ERR525699_bin.23_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_778_length_30050_cov_5.195699 Genome Set
 30050 N/A ICE Bacteroidetes
 13414_6_70_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_70.14 Genome Set 75536 N/A ICE Firmicutes
 12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_47.10
 Genome Set 56767 N/A ICE Firmicutes
 UMG51199_SRR3917587_bin.52_Tenericutes_NA_NA_NA_NA_NODE_719_length_25763_cov_6.929983 Genome Set 25763 N/A N/A Tenericutes
 21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.18
 Genome Set 57726 N/A ICE Firmicutes
 13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13470_2_81.42 Genome Set 31262 N/A N/A Firmicutes
 NZ_JH992948.1_Bacteroides_oleiciplenus_YIT_12058_genomic_scaffold_supercont1.9__whole_genome_shotgun_sequence Genome Set 50350 N/A ICE
 Bacteroidetes
 20287_6_18_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_18.10 Genome Set 86682 N/A ICE Firmicutes
 UMG5624_ERR011095_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_72_length_38289_cov_9.3033 Genome Set 38289 N/A
 ICE Bacteroidetes
 NZ_JH660546.1_Escherichia_sp._4_1_40B_supercont2.8__whole_genome_shotgun_sequence Genome Set 80575 IncFIB,IncFIIA,IncFII Plasmid
 Proteobacteria
 20287_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.20287_6_9.4 Genome Set 437212 N/A ICE Bacteroidetes
 UMG5200_SRR6028624_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_637_length_10302_cov_22.484044 Genome Set
 10302 N/A ICE Firmicutes
 NZ_LN866274.1_Clostridium_sp._GD3_genome_assembly_Clostridium_phoceensis_scaffold_scaffold00010__whole_genome_shotgun_sequence Genome Set
 3279315 N/A ICE Firmicutes
 NZ_DS499701.1_Clostridium_scindens_ATCC_35704_Scflld_02_23_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 173023 N/A ICE
 Firmicutes
 UMG5803_SRR5127411_bin.10_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_3273_length_5290_cov_10.564088 Genome Set
 5290 N/A N/A Firmicutes
 UMG5200_SRR6028624_bin.16_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_2234_length_3931_cov_4.394995 Genome Set 3931
 N/A ICE Firmicutes
 UMG5771_SRR5580101_bin.4_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_28_length_154325_cov_6.225773 Genome Set 154325
 N/A ICE Firmicutes

NZ_DS981478.1_Bacteroides_coprocola_DSM_17136_Scflld_02_51_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 58798 N/A ICE
Bacteroidetes

UMGS1102_ERR688524_bin.55_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_40_length_147589_cov_7.445890 Genome Set 147589 N/A
ICE Firmicutes

NZ_KQ236744.1_Dorea_sp._D27_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1018203 N/A ICE Firmicutes

UMGS916_SRR1761681_bin.7_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_250_length_36815_cov_17.458950 Genome Set 36815 N/A ICE
Firmicutes

NZ_DS981485.1_Bacteroides_coprocola_DSM_17136_Scflld_02_58_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 101864 rep_cluster_1702
ICE Bacteroidetes

13470_2_71_Tenericutes_Mollicutes_Erysipelotrichales_Erysipelotrichaceae_NA_.13470_2_71.5 Genome Set 189413 N/A ICE Tenericutes

UMGS212_SRR4305192_bin.3_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_5_length_123314_cov_58.346100 Genome Set
123314 N/A ICE Bacteroidetes

NZ_KB905488.1_Bacteroides_sp._HPS0048_genomic_scaffold_acKdP-supercont1.2__whole_genome_shotgun_sequence Genome Set 1254863 N/A
ICE Bacteroidetes

NZ_HE978577.1_Bacteroidales_bacterium_ph8_genomic_scaffold__scaffold00001__whole_genome_shotgun_sequence Genome Set 2110561 N/A ICE
Bacteroidetes

UMGS35_ERR525726_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_445_length_24938_cov_17.3165 Genome Set
24938 N/A ICE Firmicutes

NZ_KE150450.1_Actinomyces_sp._HPA0247_genomic_scaffold_acAqT-supercont1.1__whole_genome_shotgun_sequence Genome Set 1289359 N/A
ICE Actinobacteria

NZ_EQ973223.1_Bacteroides_fragilis_3_1_12_supercont1.11_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 37990 N/A N/A
Bacteroidetes

UMGS1021_ERR525737_bin.53_Tenericutes_NA_NA_NA_NA_NODE_1_length_582527_cov_34.471163 Genome Set 582527 N/A ICE Tenericutes

UMGS230_SRR1761716_bin.48_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_2_length_256835_cov_31.533663 Genome Set 256835 N/A
ICE Firmicutes

UMGS342_ERR688517_bin.19_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2214_length_13547_cov_21.286392 Genome Set 13547 N/A Plasmid
Firmicutes

NZ_HE578907.1_Anaerococcus_sp._JC48_genomic_scaffold__scaffold00001__whole_genome_shotgun_sequence Genome Set 1367741 N/A ICE Firmicutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.24 Genome Set 54726 N/A ICE Firmicutes

14207_7_50_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_50.20 Genome Set 28980 N/A ICE Firmicutes

UMGS803_SRR5127411_bin.10_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_4450_length_4219_cov_9.790826 Genome Set 4219
N/A N/A Firmicutes

NZ_GG730106.1_Bacteroides_sp._D20_genomic_scaffold_supercont1.2__whole_genome_shotgun_sequence Genome Set 1323254 N/A ICE Bacteroidetes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.216
73_4_87.9 Genome Set 120334 N/A ICE Firmicutes
NZ_DS483503.1_Faecalibacterium_prausnitzii_M21_2_ScflD_02_24_genomic_scaf
fold__whole_genome_shotgun_sequence Genome Set 999620 N/A ICE
Firmicutes
NZ_EQ973213.1_Bacteroides_fragilis_3_1_12_supercont1.1_genomic_scaffold__
whole_genome_shotgun_sequence Genome Set 2558453 N/A ICE
Bacteroidetes
18048_1_70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.18048_
1_70.16 Genome Set 50829 N/A ICE Firmicutes
12718_7_56_Firmicutes_Bacilli_Lactobacillales_Lactobacillaceae_Lactobacil
lus_.12718_7_56.56 Genome Set 7846 N/A Plasmid Firmicutes
UMGS1135_ERR209469_bin.1_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_3
03_length_34553_cov_6.027915 Genome Set 34553 N/A ICE Firmicutes
NZ_GL883880.1_Paraprevotella_xylaniphila_YIT_11841_genomic_scaffold_ScflD
303__whole_genome_shotgun_sequence Genome Set 126970 N/A ICE
Bacteroidetes
UMGS1155_ERR209170_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_5886_length_2027_cov_6.618154 Genome Set 2027
N/A Plasmid Bacteroidetes
NZ_HG005174.1_Nesterenkonia_massiliensis_strain_NP1__whole_genome_shotgun
_sequence Genome Set 46703 N/A Plasmid Actinobacteria
20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_
6_88.2 Genome Set 476531 N/A ICE Firmicutes
UMGS1268_ERR525890_bin.1_Firmicutes_Clostridia_Clostridiales_Lachnospirac
eae_Anaerostipes_NODE_238_length_47338_cov_4.46308 Genome Set 47338 N/A
ICE Firmicutes
NZ_KQ033906.1_Parabacteroides_sp._HGS0025_genomic_scaffold_aczIs-
supercont1.5__whole_genome_shotgun_sequence Genome Set 110595 N/A
ICE Bacteroidetes
14207_7_87_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_87.18
Genome Set 83858 N/A ICE Firmicutes
UMGS1777_SRR5275432_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospir
aceae_NA_NODE_1472_length_10910_cov_7.355136 Genome Set 10910 N/A ICE
Firmicutes
20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
erium_.20427_4_25.16 Genome Set 73535 N/A ICE Firmicutes
UMGS904_SRR1761720_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospirac
eae_Lachnobacterium_NODE_151_length_50023_cov_8.263188 Genome Set
50023 N/A ICE Firmicutes
UMGS1165_ERR1913008_bin.26_Actinobacteria_Actinobacteria_Coriobacteriales
_Coriobacteriaceae_Collinsella_NODE_214_length_42534_cov_8.227924
Genome Set 42534 N/A N/A Actinobacteria
NZ_GL892007.1_Dysgonomonas_mossii_DSM_22836_genomic_scaffold_supercont1.4
__whole_genome_shotgun_sequence Genome Set 404348 N/A ICE
Bacteroidetes
UMGS456_ERR209453_bin.40_Firmicutes_Clostridia_Clostridiales_Ruminococcac
eae_Ruminococcus_NODE_67_length_91624_cov_14.770315 Genome Set 91624 N/A
ICE Firmicutes
14207_7_9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira
_.14207_7_9.11 Genome Set 92147 N/A ICE Firmicutes
8080_1_69_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_ERS13816
7.8080_1_69.9 Genome Set 101153 N/A ICE Firmicutes

UMGS871_ERR414245_bin.26_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_2712_length_11784_cov_5.409924 Genome Set 11784 N/A ICE Bacteroidetes

UMGS607_ERR526073_bin.39_Bacteroidetes_Flavobacteriia_Flavobacteriales_Flavobacteriaceae_Flavobacterium_NODE_688_length_24371_cov_3.876789 Genome Set 24371 N/A ICE Bacteroidetes

NZ_LT160637.1_Neglecta_timonensis_strain_SN17__whole_genome_shotgun_sequence Genome Set 227250 N/A ICE Firmicutes

UMGS803_SRR5127411_bin.10_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_2076_length_7369_cov_9.923298Genome Set 7369 N/A ICE Firmicutes

14207_7_83_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_.14207_7_83.24 Genome Set 70020 N/A ICE Firmicutes

UMGS1710_ERR1293845_bin.21_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_1034_length_9323_cov_3.350129 Genome Set 9323 N/A N/A Bacteroidetes

UMGS791_ERR1190658_bin.15_Firmicutes_Negativicutes_Selenomonadales_Acidaminococcaceae_Phascolarctobacterium_NODE_3_length_294712_cov_12.567348 Genome Set 294712 N/A ICE Firmicutes

UMGS174_SRR1761690_bin.37_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_NODE_72_length_96072_cov_93.906340 Genome Set 96072 N/A ICE Firmicutes

21673_4_46_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.21673_4_46.19 Genome Set 71344 N/A ICE Bacteroidetes

21673_4_33_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_.21673_4_33.6 Genome Set 285921 N/A ICE Bacteroidetes

21673_4_53_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.21673_4_53.3Genome Set 391546 N/A ICE Firmicutes

NZ_EQ973216.1_Bacteroides_fragilis_3_1_12_supercont1.4_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 501393 rep_cluster_663 ICE Bacteroidetes

UMGS564_SRR2726136_bin.31_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnoclostridium_NODE_56_length_124917_cov_11.594240 Genome Set 124917 N/A ICE Firmicutes

13470_2_65_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.13470_2_65.17 Genome Set 139608 N/A ICE Bacteroidetes

NZ_DS996920.1_[Bacteroides]_pectinophilus_ATCC_43243_ScflD_02_0_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 29332 N/A ICE Firmicutes

UMGS725_SRR6054488_bin.26_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_799_length_11330_cov_8.175166Genome Set 11330 N/A ICE Firmicutes

UMGS698_ERR414252_bin.16_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_73_length_119172_cov_33.443060 Genome Set 119172 N/A ICE Bacteroidetes

NZ_ACCL02000002.1_Marvinbryantia_formatexigens_DSM_14469_B_formatexigens-1.0.1_Cont1.1__whole_genome_shotgun_sequence Genome Set 319694 N/A ICE Firmicutes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobacterium_.20427_4_25.18 Genome Set 52463 N/A ICE Firmicutes

UMGS469_SRR5275479_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_NA_NA_NODE_32_length_130808_cov_27.579635 Genome Set 130808 N/A ICE Bacteroidetes

UMGS372_SRR6028394_bin.25_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_3_length_261985_cov_12.244752 Genome Set 261985
N/A ICE Bacteroidetes

21673_4_18_Firmicutes_Clostridia_Clostridiales_NA_NA_.21673_4_18.7
Genome Set 215741 N/A ICE Firmicutes

UMGS1096_SRR5057037_bin.59_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_827_length_41532_cov_6.330617 Genome Set 41532 N/A
N/A Firmicutes

UMGS1546_SRR5056698_bin.29_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_1058_length_27934_cov_15.550701
Genome Set 27934 N/A ICE Actinobacteria

UMGS2011_ERR2013565_bin.54_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_3877_length_10072_cov_3.612858 Genome Set 10072 N/A N/A Firmicutes

12718_7_94_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.12718_7_94.16
Genome Set 70133 N/A ICE Firmicutes

20298_3_39_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_39.2
Genome Set 479178 N/A ICE Firmicutes

UMGS1367_SRR4408158_bin.11_Firmicutes_Bacilli_Lactobacillales_Enterococcaceae_Enterococcus_NODE_609_length_11015_cov_18.4545 Genome Set 11015 N/A
Plasmid Firmicutes

NZ_GG662012.1_Coprococcus_comes_ATCC_27758_genomic_scaffold_Scflld7__whole_genome_shotgun_sequence Genome Set 307897 N/A ICE Firmicutes

13414_6_34_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.13414_6_34.13 Genome Set 201508 N/A ICE Firmicutes

UMGS363_ERR1305900_bin.6_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_155_length_102011_cov_8.363824 Genome Set 102011 N/A N/A Firmicutes

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_ERS138176.8080_1_78.32
Genome Set 83786 N/A ICE Firmicutes

13414_6_17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_.13414_6_17.17 Genome Set 69805 N/A ICE Firmicutes

UMGS1126_ERR414269_bin.20_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_7451_length_3988_cov_5.113654 Genome Set 3988 N/A
Plasmid Bacteroidetes

20298_3_30_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_.20298_3_30.12
Genome Set 74664 N/A ICE Bacteroidetes

UMGS1684_ERR011192_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_558_length_11413_cov_23.0836 Genome Set 11413 N/A ICE Bacteroidetes

UMGS1111_ERR414291_bin.37_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_624_length_35281_cov_3.775649 Genome Set 35281 N/A
ICE Bacteroidetes

20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_88.8
Genome Set 280286 N/A ICE Firmicutes

NZ_LN909053.1_Paenibacillus_sp._MT18_genome_assembly_Paenibacillus_rubifantis__scaffold_scaffold00007__whole_genome_shotgun_sequence Genome Set 2414 N/A N/A Firmicutes

NZ_DS547029.1_Clostridium_sp._SS2_1_Scflld_03_33_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 587063 N/A ICE Firmicutes

NZ_JH376876.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supercont1.7__whole_genome_shotgun_sequence Genome Set 268514 N/A ICE Firmicutes

UMGS1064_ERR321174_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Parabacteroides_NODE_409_length_14853_cov_3.68692 Genome Set 14853 N/A ICE Bacteroidetes

UMGS1938_SRR5963258_bin.3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Dysgonomonas_NODE_2_length_618099_cov_108.033797 Genome Set 618099 N/A ICE Bacteroidetes

UMGS199_SRR4408188_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_NODE_25_length_72439_cov_21.6815 Genome Set 72439 N/A ICE Firmicutes

20287_6_88_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_88.17 Genome Set 120030 N/A ICE Firmicutes

13414_6_33_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_6_33.2 Genome Set 291015 N/A ICE Firmicutes

UMGS1234_SRR3582140_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_345_length_27477_cov_8.887207 Genome Set 27477 N/A ICE Firmicutes

13414_6_60_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_60.8 Genome Set 136515 N/A ICE Firmicutes

UMGS1297_SRR3917587_bin.20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_10_length_259892_cov_26.361808 Genome Set 259892 N/A ICE Firmicutes

NZ_LT594621.1_Culturomica_massiliensis_strain_Marseille-P2698__whole_genome_shotgun_sequence Genome Set 4124789 N/A ICE Bacteroidetes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_7_84.5 Genome Set 289744 N/A ICE Firmicutes

UMGS161_ERR525920_bin.17_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_10_length_201557_cov_7.82203 Genome Set 201557 N/A ICE Firmicutes

20287_6_6_Proteobacteria_Gammaproteobacteria_Enterobacteriales_Enterobacteriaceae_Klebsiella_.20287_6_6.23 Genome Set 33706 IncFII Plasmid Proteobacteria

11861_6_58_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.11861_6_58.23 Genome Set 49668 N/A ICE Firmicutes

13470_2_81_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13470_2_81.5 Genome Set 146457 N/A ICE Firmicutes

UMGS1234_SRR3582140_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_112_length_54952_cov_11.258338 Genome Set 54952 N/A ICE Firmicutes

UMGS474_ERR1305901_bin.42_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_3494_length_14625_cov_7.111462 Genome Set 14625 N/A ICE Firmicutes

UMGS698_ERR414252_bin.16_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_66_length_122552_cov_34.078230 Genome Set 122552 N/A ICE Bacteroidetes

NZ_GL882693.1_Bacteroides_fluxus_YIT_12057_genomic_scaffold_ScflD385__whole_genome_shotgun_sequence Genome Set 96535 N/A ICE Bacteroidetes

UMGS50_ERR1293691_bin.12_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipes_NODE_1_length_459252_cov_26.627145 Genome Set 459252 N/A ICE Bacteroidetes

UMGS35_ERR525726_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_494_length_21272_cov_41.3535 Genome Set 21272 N/A ICE Firmicutes

UMGS785_ERR1297697_bin.13_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_133_length_81764_cov_7.997981 Genome Set 81764 N/A ICE Firmicutes

NZ_KQ235848.1_[Clostridium]_bolteae_WAL-
14578_genomic_scaffold_supercont1.4__whole_genome_shotgun_sequence
Genome Set 625355 N/A ICE Firmicutes

NZ_LN877939.1_Gabonia massiliensis_strain_GM3__whole_genome_shotgun_seque
nce Genome Set 1352085 N/A ICE Bacteroidetes

8080_1_78_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clost
ridium_ERS138176.8080_1_78.37 Genome Set 72352 N/A ICE Firmicutes

UMGS467_SRR5127501_bin.31_Actinobacteria_Actinobacteria_Coriobacteriales_
Coriobacteriaceae_Collinsella_NODE_139_length_52930_cov_10.242686
Genome Set 52930 N/A ICE Actinobacteria

NZ_GL882697.1_Bacteroides_fluxus_YIT_12057_genomic_scaffold_Scflld446__who
le_genome_shotgun_sequence Genome Set 132721 N/A ICE
Bacteroidetes

UMGS991_ERR1620299_bin.39_Firmicutes_Clostridia_Clostridiales_Ruminococca
ceae_NA_NODE_374_length_65081_cov_7.190739 Genome Set 65081 N/A ICE
Firmicutes

NZ_JH815222.1_Clostridium_sp._7_2_43FAA_genomic_scaffold_supercont2.3__wh
ole_genome_shotgun_sequence Genome Set 3226588 N/A ICE Firmicutes

UMGS531_ERR1018228_bin.33_Tenericutes_Mollicutes_NA_NA_NA_NODE_159_length
_80230_cov_25.673265 Genome Set 80230 N/A Plasmid Tenericutes

NZ_KI260449.1_Ruminococcus_callidus_ATCC_27760_genomic_scaffold_Scaffold5
49__whole_genome_shotgun_sequence Genome Set 118054 N/A ICE
Firmicutes

NZ_JH379466.1_Prevotella_stercorea_DSM_18206_genomic_scaffold_Scflld1385__
whole_genome_shotgun_sequence Genome Set 17608 N/A ICE
Bacteroidetes

UMGS120_ERR1018284_bin.6_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenell
aceae_Alistipes_NODE_7_length_81099_cov_7.224557 Genome Set 81099 N/A
ICE Bacteroidetes

NZ_DS499718.1_Clostridium_scindens_ATCC_35704_Scflld_02_40_genomic_scaffol
d__whole_genome_shotgun_sequence Genome Set 383277 N/A ICE
Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.61
Genome Set 5656 N/A Plasmid Firmicutes

NZ_HE611014.1_Senegalimassilia_anaerobia_JC110__type_strain_JC110T__genom
ic_scaffold__scaffold00001__whole_genome_shotgun_sequenceGenome Set
782271 N/A ICE Actinobacteria

UMGS1717_SRR5057039_bin.40_Firmicutes_Clostridia_Clostridiales_Oscillospi
raceae_Oscillibacter_NODE_3584_length_12687_cov_7.039503 Genome Set
12687 N/A ICE Firmicutes

14207_7_86_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_86.2
Genome Set 619054 N/A ICE Firmicutes

21673_4_87_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_.216
73_4_87.1 Genome Set 949954 N/A ICE Firmicutes

13414_6_20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_20.1Genome Set 625992 N/A ICE Firmicutes

21673_4_37_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_
4_37.7 Genome Set 157631 N/A ICE Firmicutes

14207_7_56_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_56.37
Genome Set 11954 N/A ICE Firmicutes

NZ_KQ033909.1_Parabacteroides_sp._HGS0025_genomic_scaffold_aczIs-
supercont1.8__whole_genome_shotgun_sequence Genome Set 30788 N/A ICE
Bacteroidetes

UMGS342_ERR688517_bin.19_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2561_length_12166_cov_22.112707 Genome Set 12166 N/A ICE Firmicutes

UMGS1315_SRR2155318_bin.4_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_55_length_96039_cov_12.063688 Genome Set 96039 N/A ICE Firmicutes

UMGS601_SRR6028332_bin.7_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_NA_NODE_4_length_145256_cov_17.874023 Genome Set 145256 N/A ICE Bacteroidetes

13414_6_20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_20.6 Genome Set 212672 N/A ICE Firmicutes

14207_6_9_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_.14207_6_9.52 Genome Set 23983 N/A ICE Bacteroidetes

UMGS1540_SRR3993002_bin.12_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_7617_length_6459_cov_3.765121 Genome Set 6459 N/A N/A Firmicutes

UMGS218_SRR5580022_bin.2_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_14_length_123968_cov_7.152901 Genome Set 123968 N/A ICE Bacteroidetes

UMGS1151_ERR414319_bin.36_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_869_length_30974_cov_3.579902 Genome Set 30974 N/A ICE Firmicutes

UMGS328_ERR1293610_bin.26_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_266_length_44415_cov_9.342651 Genome Set 44415 N/A ICE Bacteroidetes

UMGS375_DRR042341_bin.5_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_44_length_94556_cov_12.667873 Genome Set 94556 N/A ICE Actinobacteria

12718_7_73_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.12718_7_73.6 Genome Set 356163 N/A ICE Firmicutes

UMGS1558_ERR1578626_bin.68_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_457_length_51337_cov_5.134219 Genome Set 51337 N/A ICE Actinobacteria

UMGS335_ERR1190610_bin.12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_1108_length_7565_cov_4.89587 Genome Set 7565 N/A ICE Firmicutes

20298_3_62_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_.20298_3_62.1 Genome Set 713764 N/A ICE Firmicutes

UMGS57_SRR2155361_bin.23_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_643_length_19055_cov_8.986579 Genome Set 19055 N/A ICE Firmicutes

UMGS1199_SRR3917587_bin.52_Tenericutes_NA_NA_NA_NA_NODE_502_length_34326_cov_5.803974 Genome Set 34326 N/A N/A Tenericutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.35 Genome Set 21187 N/A Plasmid Firmicutes

UMGS1607_SRR6054490_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_192_length_40723_cov_11.253000 Genome Set 40723 N/A ICE Firmicutes

NZ_KI271189.1_Eubacterium_ramulus_ATCC_29099_genomic_scaffold_Scaffold864_whole_genome_shotgun_sequence Genome Set 1691 N/A N/A Firmicutes

UMGS1651_SRR3917587_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_5109_length_4384_cov_24.083391 Genome Set 4384 N/A N/A Firmicutes

UMGS1628_SRR5056930_bin.3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_1639_length_17344_cov_4.012956 Genome Set 17344 N/A ICE Firmicutes

UMGS1488_SRR5057076_bin.64_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_4861_length_10443_cov_3.729111 Genome Set 10443 N/A ICE Firmicutes

UMGS669_SRR5275456_bin.26_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Ruminococcus_NODE_1156_length_21467_cov_68.0243 Genome Set
21467 N/A ICE Firmicutes

UMGS658_SRR2155387_bin.7_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_1
06_length_80246_cov_21.1442 Genome Set 80246 N/A ICE Firmicutes

21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.2
1673_4_19.24 Genome Set 35860 N/A ICE Firmicutes

UMGS929_SRR6054493_bin.5_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_2
84_length_18339_cov_38.253336 Genome Set 18339 N/A ICE Firmicutes

UMGS1534_ERR1620311_bin.17_Bacteroidetes_Bacteroidia_Bacteroidales_Bacter
oidaceae_Bacteroides_NODE_21_length_212253_cov_7.318208 Genome Set
212253 N/A ICE Bacteroidetes

UMGS476_SRR6028211_bin.4_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_1012_length_8027_cov_53.958731 Genome Set 8027
N/A ICE Bacteroidetes

NZ_LN898211.1_Olsenella_sp._SIT9_genome_assembly_Olsenella_massiliensis_
scaffold_scaffold00013__whole_genome_shotgun_sequence Genome Set
903327 N/A ICE Actinobacteria

18048_2_82_Firmicutes_Clostridia_Clostridiales_NA_NA_.18048_2_82.28
Genome Set 44529 N/A ICE Firmicutes

NZ_GG730309.1_Clostridium_sp._M62_1_genomic_scaffold_ScflD0__whole_genome
_shotgun_sequenceGenome Set 947737 N/A ICE Firmicutes

8080_1_72_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_ERS
138170.8080_1_72.1 Genome Set 896810 N/A ICE Firmicutes

20298_3_59_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_59.6
Genome Set 542219 N/A ICE Firmicutes

13414_6_39_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.13414_
6_39.6 Genome Set 172853 N/A ICE Firmicutes

UMGS1684_ERR011192_bin.15_Bacteroidetes_Bacteroidia_Bacteroidales_Prevote
llaceae_Prevotella_NODE_37_length_67171_cov_22.1585Genome Set 67171 N/A
ICE Bacteroidetes

UMGS1045_SRR3108056_bin.25_Tenericutes_NA_NA_NA_NA_NODE_774_length_36912_
cov_14.900263 Genome Set 36912 N/A Plasmid Tenericutes

NZ_CYUJ01000002.1_Neofamilia_massiliensis_strain_SIT13__whole_genome_shot
gun_sequence Genome Set 940216 rep_cluster_1663 ICE Firmicutes

13414_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.13414_6_37.3
Genome Set 174567 N/A ICE Firmicutes

13414_6_67_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_67.5 Genome Set 148362 N/A ICE Firmicutes

UMGS1369_SRR5050586_bin.6_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Blautia_NODE_65_length_155880_cov_5.464027 Genome Set 155880
N/A ICE Firmicutes

UMGS1016_ERR688512_bin.48_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Lachnobacterium_NODE_192_length_72327_cov_17.659204 Genome Set
72327 N/A ICE Firmicutes

NZ_GG730311.1_Clostridium_sp._M62_1_genomic_scaffold_ScflD2__whole_genome
_shotgun_sequenceGenome Set 463016 N/A ICE Firmicutes

12718_7_84_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.12718_
7_84.1 Genome Set 559371 N/A ICE Firmicutes

13414_6_68_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13414_
6_68.10 Genome Set 102183 N/A ICE Firmicutes

UMGS1953_SRR5127782_bin.22_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE
_4309_length_3236_cov_3.282930 Genome Set 3236 N/A N/A Firmicutes

UMGS1654_ERR636353_bin.86_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_769_length_43368_cov_31.903447 Genome Set 43368 N/A ICE Bacteroidetes

NZ_KE340299.1_Propionibacterium_sp._HGH0353_genomic_scaffold_achMY-supercont1.1__whole_genome_shotgun_sequence Genome Set 2735781 N/A ICE Actinobacteria

12718_7_47_Firmicutes_Clostridia_Clostridiales_NA_NA_.12718_7_47.5 Genome Set 354833 N/A ICE Firmicutes

NZ_JH414706.1_Subdoligranulum_sp._4_3_54A2FAA_genomic_scaffold_supercont1.9__whole_genome_shotgun_sequence Genome Set 1729404 N/A ICE Firmicutes

14207_7_50_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_50.4 Genome Set 228941 N/A ICE Firmicutes

NC_011593.1_Bifidobacterium_longum_subsp._infantis_ATCC_15697__complete_genome Genome Set 2832748 rep_cluster_475 ICE Actinobacteria

21673_4_3_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.21673_4_3.12 Genome Set 48307 N/A ICE Firmicutes

13470_2_91_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_91.14 Genome Set 58221 N/A ICE Firmicutes

UMGS38_ERR209883_bin.22_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_84_length_54359_cov_6.276738 Genome Set 54359 N/A ICE Firmicutes

UMGS1187_ERR011350_bin.8_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_150_length_29933_cov_6.83426 Genome Set 29933 N/A ICE Firmicutes

14207_7_89_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_89.8 Genome Set 105254 N/A ICE Firmicutes

UMGS21_ERR525840_bin.18_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_11_length_246105_cov_28.5995 Genome Set 246105 N/A ICE Firmicutes

20298_3_65_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20298_3_65.1 Genome Set 307032 N/A ICE Firmicutes

NZ_GL520132.1_Erysipelotrichaceae_bacterium_3_1_53_genomic_scaffold_supercont1.1__whole_genome_shotgun_sequence Genome Set 524289 N/A ICE Tenericutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.13470_2_93.12 Genome Set 108184 N/A ICE Firmicutes

NZ_KE993553.1_Clostridium_sp._ATCC_29733_genomic_scaffold_Scaffold18__whole_genome_shotgun_sequence Genome Set 176422 N/A ICE Firmicutes

UMGS1533_ERR1190600_bin.25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_NODE_569_length_42337_cov_4.098032 Genome Set 42337 N/A ICE Firmicutes

UMGS1205_ERR209515_bin.8_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_373_length_31059_cov_54.425397 Genome Set 31059 N/A ICE Bacteroidetes

20298_2_28_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_2_28.4 Genome Set 364327 N/A ICE Firmicutes

NZ_KQ033914.1_Parabacteroides_goldsteinii_DSM_19448_=WAL_12034_genomic_scaffold_aczIT-supercont1.3__whole_genome_shotgun_sequence Genome Set 389600 N/A ICE Bacteroidetes

NZ_HG005167.1_Nesterenkonia_massiliensis_strain_NP1__whole_genome_shotgun_sequence Genome Set 348664 N/A ICE Actinobacteria

13414_6_47_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospiraceae_13414_6_47.8 Genome Set 183534 N/A ICE Firmicutes

NZ_HE978578.1_Bacteroidales_bacterium_ph8_genomic_scaffold_scaffold00002
 __whole_genome_shotgun_sequence Genome Set 1048151 N/A ICE
 Bacteroidetes

UMGS1019_SRR1757434_bin.5_Firmicutes_Negativicutes_Selenomonadales_Veillonellaceae_Dialister_NODE_1_length_239157_cov_7.736560 Genome Set
 239157 N/A ICE Firmicutes

UMGS1617_ERR525879_bin.28_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_1801_length_17587_cov_7.758841 Genome Set 17587 N/A ICE
 Firmicutes

NZ_ACFY01000158.1_Roseburia_inulinivorans_DSM_16841_R_inulinivorans-1.0.1_Cont569.1__whole_genome_shotgun_sequence Genome Set 57343 N/A
 ICE Firmicutes

NZ_AAVM02000003.1_Bacteroides_caccae_ATCC_43185_B_caccae-MSIQ_Cont1328__whole_genome_shotgun_sequence Genome Set 500031 N/A
 ICE Bacteroidetes

NZ_HG726023.1_Bacteroides_neonati_strain_MS4__whole_genome_shotgun_sequence Genome Set 595790 N/A ICE Bacteroidetes

13414_6_20_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_20.11 Genome Set 120295 N/A ICE Firmicutes

13414_6_32_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.13414_6_32.4 Genome Set 380409 N/A ICE Firmicutes

UMGS341_ERR688549_bin.7_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_137_length_83820_cov_16.009228 Genome Set
 83820 N/A ICE Firmicutes

14207_7_43_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.14207_7_43.4 Genome Set 173976 N/A ICE Firmicutes

21673_4_53_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.21673_4_53.11 Genome Set 133473 N/A ICE Firmicutes

NZ_FLKL01000002.1_Clostridium_sp._Marseille-P2538__whole_genome_shotgun_sequence Genome Set 4143223 N/A ICE
 Firmicutes

14207_7_9_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnospira_.14207_7_9.13 Genome Set 16292 N/A ICE Firmicutes

NZ_AP012324.1_Bifidobacterium_breve_DSM_20213 = JCM_1192_DNA__complete_genome Genome Set 2269415 N/A ICE Actinobacteria

20298_3_36_Firmicutes_Clostridia_Clostridiales_Clostridiales_Family_XI_Peptoniphilus_.20298_3_36.1 Genome Set 695826 N/A ICE Firmicutes

NZ_GG730310.1_Clostridium_sp._M62_1_genomic_scaffold_Scflld1__whole_genome_shotgun_sequence Genome Set 648183 N/A ICE Firmicutes

UMGS1576_ERR2013621_bin.20_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_NODE_258_length_65317_cov_7.371303 Genome Set
 65317 N/A ICE Firmicutes

8080_1_83_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_ERS138181.8080_1_83.4 Genome Set 294170 N/A ICE Firmicutes

18048_1_70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.18048_1_70.3 Genome Set 310645 N/A ICE Firmicutes

18048_1_70_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.18048_1_70.2 Genome Set 478237 N/A ICE Firmicutes

UMGS2027_SRR1761721_bin.40_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Prevotella_NODE_1068_length_13820_cov_12.028333 Genome Set
 13820 N/A ICE Bacteroidetes

UMGS412_ERR525865_bin.1_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_726_length_22220_cov_27.2433 Genome Set 22220 N/A ICE
 Firmicutes

UMGS1938_SRR5963258_bin.3_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyr
omonadaceae_Dysgonomonas_NODE_98_length_75998_cov_112.586952 Genome Set
75998 N/A ICE Bacteroidetes

UMGS1433_SRR6028647_bin.11_Bacteroidetes_Bacteroidia_Bacteroidales_Prevot
ellaceae_Prevotella_NODE_164_length_25443_cov_8.323617 Genome Set
25443 N/A ICE Bacteroidetes

NZ_KQ235850.1_[Clostridium]_bolteae_WAL-
14578_genomic_scaffold_supercont1.6__whole_genome_shotgun_sequence
Genome Set 333146 N/A ICE Firmicutes

UMGS947_SRR1196456_bin.17_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_
3701_length_4981_cov_15.257410 Genome Set 4981 N/A N/A Firmicutes

13414_6_66_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_66.4 Genome Set 295338 N/A ICE Firmicutes

NZ_DS990131.1_Bacteroides_plebeius_DSM_17135_Scflld_02_14_genomic_scaffold
__whole_genome_shotgun_sequence Genome Set 192302 N/A ICE
Bacteroidetes

13414_6_32_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_.1
3414_6_32.13 Genome Set 80018 N/A ICE Firmicutes

NZ_KI391950.1_Ruminococcaceae_bacterium_D16_genomic_scaffold_acsPy-
supercont2.4__whole_genome_shotgun_sequence Genome Set 141141 N/A
ICE Firmicutes

UMGS1210_SRR5106299_bin.4_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenel
laceae_Alistipes_NODE_7806_length_4065_cov_5.919759 Genome Set 4065 N/A
N/A Bacteroidetes

UMGS793_ERR2013564_bin.23_Firmicutes_Clostridia_Clostridiales_Lachnospira
ceae_Pseudobutyrvibrio_NODE_59_length_102099_cov_6.336708 Genome Set
102099 N/A ICE Firmicutes

11861_6_61_Bacteroidetes_Bacteroidia_Bacteroidales_Rikenellaceae_Alistipe
s_.11861_6_61.4 Genome Set 331872 N/A ICE Bacteroidetes

NZ_JH599901.1_Coprobacillus_sp._8_2_54BFAA_genomic_scaffold_supercont1.1_
_whole_genome_shotgun_sequence Genome Set 1676117 N/A ICE
Tenericutes

NZ_DS990117.1_Bacteroides_plebeius_DSM_17135_Scflld_02_0_genomic_scaffold_
_whole_genome_shotgun_sequence Genome Set 7643 N/A N/A
Bacteroidetes

20427_4_25_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Lachnobact
erium_.20427_4_25.8 Genome Set 134183 N/A ICE Firmicutes

UMGS483_SRR5558388_bin.21_Tenericutes_NA_NA_NA_NA_NODE_14_length_297410_c
ov_9.787403 Genome Set 297410 N/A ICE Tenericutes

NZ_ACCL02000022.1_Marvinbryantia_formatexigens_DSM_14469_B_formatexigens-
1.0.1_Cont21.1__whole_genome_shotgun_sequence Genome Set 84557 N/A ICE
Firmicutes

NZ_KE340303.1_Prevotella_oralis_HGA0225_genomic_scaffold_acAqJ-
supercont1.3__whole_genome_shotgun_sequence Genome Set 291101 N/A
ICE Bacteroidetes

NZ_JH379027.1_Hungatella_hathewayi_WAL-
18680_supercont1.1__whole_genome_shotgun_sequence Genome Set 3507896
N/A ICE Firmicutes

UMGS1118_SRR341650_bin.4_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotel
laceae_Prevotella_NODE_1310_length_9499_cov_3.62569 Genome Set 9499 N/A
N/A Bacteroidetes

NZ_FLKM01000009.1_Emergencia_timonensis_strain_SN18__whole_genome_shotgun
_sequence Genome Set 2288933 N/A ICE Firmicutes

NZ_LN913016.1_Anaerococcus_sp._MT16_genome_assembly_Anaerococcus_rubiinfantis_scaffold_scaffold00003__whole_genome_shotgun_sequence Genome Set 1764657 rep_cluster_1663 ICE Firmicutes

20287_6_63_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_.20287_6_63.7 Genome Set 166925 N/A ICE Firmicutes

UMGS1045_SRR3108056_bin.25_Tenericutes_NA_NA_NA_NODE_250_length_68291_cov_16.023624 Genome Set 68291 N/A ICE Tenericutes

UMGS651_SRR2912799_bin.35_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_119_length_80866_cov_22.355063 Genome Set 80866 N/A ICE Actinobacteria

14207_7_54_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_54.12 Genome Set 68903 N/A ICE Firmicutes

NZ_GL870815.1_Clostridium_sp._D5_genomic_scaffold_supercont1.7__whole_genome_shotgun_sequence Genome Set 263337 N/A ICE Firmicutes

NZ_HG726024.1_Bacteroides_neonati_strain_MS4__whole_genome_shotgun_sequence Genome Set 272930 N/A ICE Bacteroidetes

UMGS566_ERR525865_bin.5_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Dorea_NODE_734_length_22014_cov_58.3496 Genome Set 22014 N/A ICE Firmicutes

20287_6_37_Firmicutes_Clostridia_Clostridiales_NA_NA_.20287_6_37.6 Genome Set 133756 N/A ICE Firmicutes

UMGS1607_SRR6054490_bin.8_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_496_length_20164_cov_6.531006 Genome Set 20164 N/A ICE Firmicutes

NZ_DS981439.1_Bacteroides_coprocola_DSM_17136_Scflld_02_12_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 84241 N/A ICE Bacteroidetes

UMGS176_SRR2992899_bin.7_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Ruminococcus_NODE_1980_length_17427_cov_5.983170 Genome Set 17427 N/A N/A Firmicutes

11861_6_65_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_NA_.11861_6_65.9 Genome Set 168714 N/A ICE Firmicutes

UMGS2036_ERR1620302_bin.45_Tenericutes_NA_NA_NA_NODE_3036_length_7999_cov_2.754406 Genome Set 7999 N/A N/A Tenericutes

UMGS220_SRR5057033_bin.5_Firmicutes_Clostridia_Clostridiales_Ruminococcaceae_Anaeromassilibacillus_NODE_9275_length_3139_cov_7.008755 Genome Set 3139 N/A N/A Firmicutes

NZ_DS483499.1_Faecalibacterium_prausnitzii_M21_2_Scflld_02_20_genomic_scaffold__whole_genome_shotgun_sequence Genome Set 155107 N/A ICE Firmicutes

20298_3_59_Firmicutes_Clostridia_Clostridiales_NA_NA_.20298_3_59.4 Genome Set 558507 N/A ICE Firmicutes

UMGS1353_ERR589584_bin.12_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_NODE_379_length_45410_cov_5.84954 Genome Set 45410 N/A ICE Firmicutes

14207_7_87_Firmicutes_Clostridia_Clostridiales_NA_NA_.14207_7_87.23 Genome Set 51606 N/A ICE Firmicutes

UMGS963_SRR4305041_bin.1_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_20_length_74634_cov_29.3483 Genome Set 74634 N/A ICE Bacteroidetes

UMGS2_ERR1190731_bin.19_Bacteroidetes_Bacteroidia_Bacteroidales_Porphyromonadaceae_Dysgonomonas_NODE_1_length_1374485_cov_10.3758 Genome Set 1374485 N/A ICE Bacteroidetes

UMGS1355_ERR414360_bin.44_Firmicutes_Clostridia_Clostridiales_Ruminococcaeae_Ruminococcus_NODE_4507_length_9193_cov_2.526483 Genome Set 9193
N/A N/A Firmicutes

UMGS1697_SRR5580035_bin.43_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_NODE_876_length_31071_cov_8.108602 Genome Set 31071 N/A ICE Bacteroidetes

UMGS1529_SRR5279269_bin.27_Firmicutes_Clostridia_Clostridiales_Eubacteriaceae_Eubacterium_NODE_742_length_50220_cov_9.257523 Genome Set 50220 N/A N/A Firmicutes

12718_7_51_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Ruminococcus_12718_7_51.17 Genome Set 105801 N/A ICE Firmicutes

12718_7_46_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_NA_12718_7_46.1 Genome Set 469285 N/A ICE Actinobacteria

UMGS828_SRR2992893_bin.21_Firmicutes_Clostridia_Clostridiales_NA_NA_NODE_665_length_41577_cov_19.358193 Genome Set 41577 N/A ICE Firmicutes

18048_2_85_Firmicutes_Clostridia_Clostridiales_Peptostreptococcaceae_Clostridium_18048_2_85.22 Genome Set 55257 N/A ICE Firmicutes

NZ_CCFG01000010.1_bacterium_MS4_genome_assembly_Amazonia_massiliensis_contig_contig00010_whole_genome_shotgun_sequence Genome Set 438186 N/A ICE Firmicutes

13470_2_93_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_13470_2_93.2 Genome Set 252339 N/A ICE Firmicutes

13470_2_58_Firmicutes_Clostridia_Clostridiales_NA_NA_13470_2_58.8 Genome Set 190174 N/A ICE Firmicutes

UMGS310_SRR4451622_bin.66_Actinobacteria_Actinobacteria_Coriobacteriales_Coriobacteriaceae_Collinsella_NODE_643_length_48329_cov_14.516904 Genome Set 48329 N/A ICE Actinobacteria

UMGS1073_ERR1190946_bin.14_Bacteroidetes_Bacteroidia_Bacteroidales_Prevotellaceae_Paraprevotella_NODE_1513_length_33181_cov_8.308036 Genome Set 33181 N/A ICE Bacteroidetes

NZ_GL945164.1_Lachnospiraceae_bacterium_1_4_56FAA_genomic_scaffold_superc cont1.2_whole_genome_shotgun_sequence Genome Set 505769 N/A ICE Firmicutes

NZ_JH376881.1_Clostridium_clostridioforme_2_1_49FAA_genomic_scaffold_supe rcont1.12_whole_genome_shotgun_sequence Genome Set 79205 N/A ICE Firmicutes

UMGS1436_ERR1190898_bin.13_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_NODE_3370_length_7244_cov_17.915844 Genome Set 7244 N/A ICE Firmicutes

21673_4_19_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Blautia_21673_4_19.26 Genome Set 30011 N/A ICE Firmicutes

21673_4_46_Bacteroidetes_Bacteroidia_Bacteroidales_Bacteroidaceae_Bacteroides_21673_4_46.4 Genome Set 180787 N/A ICE Bacteroidetes

14207_7_59_Firmicutes_Clostridia_Clostridiales_NA_NA_14207_7_59.12 Genome Set 113152 N/A ICE Firmicutes

14207_7_42_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_NA_14207_7_42.22 Genome Set 80674 N/A ICE Firmicutes

NZ_FLM01000008.1_Emergencia_timonensis_strain_SN18_whole_genome_shotgun _sequence Genome Set 2076040 N/A ICE Firmicutes

14207_7_83_Firmicutes_Clostridia_Clostridiales_Lachnospiraceae_Roseburia_14207_7_83.41 Genome Set 25458 N/A ICE Firmicutes