Bins that were identified in the **merged** profile database '**merged profiles**' and stored in the database as "**METABAT**" collection, describe **48** bins accounting for **66,801,330** nucleotides, which represent **45.86%** of all nucleotides stored in the contigs database, and **45.86%** of nucleotides stored in the profile database.

Basics

The merged profile database that was generated with the minimum contig length of **1,000** contained **57,414** contigs, which correspond to **100%** of all contigs, and **100%** of all nucleotides found in the contigs database.

Profile DB (**merged profiles** w/ 3 samples).

Key	Value
Created on	2024-01-03 12:35:43
Version	38
Number of contigs	57,414
Number of splits	57,725
Contig length cutoff min	1,000
Contig length cutoff max	9,223,372,036,854,775,807
Samples in profile	BGR_130305_bam_sorted, BGR_130527_bam_sorted, BGR_130708_bam_sorted
Total nucleotides	145.68 Mb
SNVs profiled	True
SCVs profiled	False
IN/DELs profiled	True
Report variability full	False
Min coverage for variability	10.00

Contigs DB (**biol217**)

Key	Value
Project name	biol217
Created on	2024-01-03 11:47:37
Version	21
Total nucleotides	145.68 Mb
Number of contigs	57,414
Number of splits	57,725
Genes are called	True
External gene calls	False
External amino acid sequences	False
K-mer size	4
Split length	20,000
Splits consider gene calls	True
SCG taxonomy was run	True
Gene function sources	None :(
Summary reformatted contig names	False

Profile DB description

No description is provided

Summary of Bins (48)

Summary of of each bin. You can download the information below also as a TAB-delimited file (bins_summary.txt). Here is another TAB-delimited file that reports data for each single profile (such as number of reads mapped, etc) ().

Bin	Source	Taxonomy	Total Size	Num Contigs	N50	GC Content	Compl.	Red.	SCG Domain
METABAT__19	metabat2	Methanoculleus sp012797575	1.87 Mb	251	8,806	59.52%	97.37%	5.26%	archaea
METABAT__41	metabat2	Methanoculleus thermohydrogenotrophicum	1.35 Mb	352	3,836	59.96%	50.00%	5.26%	archaea
METABAT__23	metabat2	Methanosarcina flavescens	454.88 Kb	137	3,373	43.68%	39.47%	0.00%	archaea
METABAT__27	metabat2	DTU012 sp012837335	2.42 Mb	176	21,293	46.81%	97.18%	2.82%	bacteria
METABAT__12	metabat2	DTU010 sp900018335	2.30 Mb	76	58,532	56.54%	97.18%	2.82%	bacteria
METABAT__26	metabat2	UBA3906 sp002391555	2.05 Mb	105	25,490	40.46%	97.18%	0.00%	bacteria
METABAT__44	metabat2	DTU010 sp002391385	2.21 Mb	95	30,487	59.02%	95.77%	2.82%	bacteria
METABAT__30	metabat2	UBA4179 sp002381125	1.66 Mb	232	8,323	41.97%	94.37%	2.82%	bacteria
METABAT__40	metabat2	Fermentimonas sp012839475	3.01 Mb	204	22,864	49.33%	92.96%	2.82%	bacteria
METABAT__46	metabat2	UBA3910 sp002391465	1.98 Mb	33	119,063	52.01%	92.96%	4.23%	bacteria
METABAT__25	metabat2	UBA1179 sp002340405	1.72 Mb	234	9,084	46.68%	92.96%	7.04%	bacteria
METABAT__13	metabat2	UBA5436 sp012522435	1.61 Mb	200	10,823	36.70%	92.96%	2.82%	bacteria
METABAT__15	metabat2	DTU013 sp002385815	2.51 Mb	91	45,923	47.46%	91.55%	1.41%	bacteria
METABAT__3	metabat2	Thermoclostridium sp012518025	2.14 Mb	172	17,710	46.55%	91.55%	0.00%	bacteria
METABAT__42	metabat2	JAAZPQ01 sp012797175	1.76 Mb	153	16,005	52.67%	91.55%	0.00%	bacteria
METABAT__31	metabat2	DTU012 sp012520795	2.18 Mb	253	13,303	50.17%	90.14%	2.82%	bacteria
METABAT__22	metabat2	UBA3900 sp002391675	2.09 Mb	65	64,774	50.90%	90.14%	0.00%	bacteria
METABAT__47	metabat2	UBA4923 sp012841145	1.67 Mb	58	43,426	50.82%	90.14%	0.00%	bacteria
METABAT__18	metabat2	DTU067 sp001512995	1.39 Mb	177	9,168	47.47%	88.73%	0.00%	bacteria
METABAT__43	metabat2	UBA4971 sp900019985	1.69 Mb	236	8,971	49.66%	87.32%	1.41%	bacteria
METABAT__36	metabat2	UBA1402 sp002305085	2.05 Mb	320	7,913	46.27%	85.92%	0.00%	bacteria
METABAT__28	metabat2	Acetomicrobium sp012518015	1.34 Mb	170	10,453	45.19%	85.92%	0.00%	bacteria
METABAT__4	metabat2	UBA4923 sp012841015	1.91 Mb	266	9,045	47.57%	84.51%	4.23%	bacteria
METABAT__37	metabat2	UBA1361 sp002306335	888.46 Kb	82	16,193	36.25%	84.51%	0.00%	bacteria
METABAT__1	metabat2	DUQW01 sp012837585	612.22 Kb	134	4,737	31.72%	78.87%	0.00%	bacteria
METABAT__48	metabat2	JAAYSA01 sp012518455	754.06 Kb	136	6,359	33.68%	77.46%	11.27%	bacteria
METABAT__39	metabat2	DTU065 sp001512545	2.11 Mb	299	8,249	48.85%	76.06%	2.82%	bacteria
METABAT__45	metabat2	JAAYQA01 sp012519495	1.44 Mb	259	6,087	51.86%	74.65%	0.00%	bacteria
METABAT__24	metabat2	UBA4923 sp012798865	1.55 Mb	229	8,065	50.79%	73.24%	8.45%	bacteria
METABAT__10	metabat2	UBA3946 sp002385755	934.79 Kb	194	4,948	48.84%	71.83%	1.41%	bacteria
METABAT__9	metabat2	Lenti-01 sp002304915	1.34 Mb	252	5,730	59.78%	70.42%	2.82%	bacteria

Bin	Source	Taxonomy	Total Size	Num Contigs	N50	GC Content	Compl.	Red.	SCG Domain
METABAT__34	metabat2	DTU010 sp012837385	1.22 Mb	279	4,496	53.98%	61.97%	0.00%	bacteria
METABAT__35	metabat2	JAAZLA01 sp012799545	1.09 Mb	243	4,678	39.16%	60.56%	1.41%	bacteria
METABAT__20	metabat2	JAAZJW01 sp012519835	866.93 Kb	212	4,202	39.72%	60.56%	0.00%	bacteria
METABAT__33	metabat2	UBA5453 sp002427375	562.29 Kb	143	3,710	32.68%	59.15%	33.80%	bacteria
METABAT__2	metabat2	UBA5420 sp012518325	1.95 Mb	378	5,398	52.94%	53.52%	4.23%	bacteria
METABAT__16	metabat2	Paludibacter sp012519425	1.75 Mb	355	5,181	40.63%	52.11%	1.41%	bacteria
METABAT__21	metabat2	Geofilum sp002411385	1.74 Mb	372	4,995	43.59%	45.07%	0.00%	bacteria
METABAT__11	metabat2	DTU012 sp900019385	882.54 Kb	238	3,622	53.79%	45.07%	0.00%	bacteria
METABAT__5	metabat2	DUPA01 sp012838515	376.07 Kb	111	3,274	41.94%	38.03%	1.41%	bacteria
METABAT__6	metabat2	DTU015 sp012837895	616.37 Kb	164	3,758	51.85%	33.80%	0.00%	bacteria
METABAT__29	metabat2	Mobilitalea sp012518975	457.60 Kb	135	3,348	37.64%	28.17%	0.00%	bacteria
METABAT__8	metabat2	DTU059 sp012523705	832.16 Kb	146	6,444	39.19%	22.54%	0.00%	bacteria
METABAT__17	metabat2	DTU059 sp012523705	231.75 Kb	42	5,898	39.50%	21.13%	0.00%	bacteria
METABAT__32	metabat2	UBA4923	388.24 Kb	31	27,868	44.94%	0.00%	0.00%	blank
METABAT__38	metabat2	N/A	369.23 Kb	64	6,602	39.81%	0.00%	0.00%	blank
METABAT__7	metabat2	N/A	238.44 Kb	57	4,235	41.79%	0.00%	0.00%	blank
METABAT__14	metabat2	Acetomicrobium sp012518015	229.22 Kb	39	6,133	44.45%	0.00%	0.00%	blank

Across Samples (3)

std coverage   mean coverage   mean coverage Q2Q3   detection   abundance   variability

TAB-delimited matrix file for std_coverage: bins_across_samples/std_coverage.txt (bins_across_samples/std_coverage.txt)

Bin	BGR_1 ...	BGR_1 ...	BGR_1 ...
METABAT__19	4.22	3.43	2.82
METABAT__27	1.36	4.11	2.11
METABAT__12	7.14	4.84	7.71
METABAT__26	5.99	8.21	5.07
METABAT__44	11.05	11.66	7.71
METABAT__30	3.78	8.91	3.71
METABAT__40	0.91	0.81	6.58
METABAT__46	5.14	10.13	4.42
METABAT__25	3.62	1.50	4.37
METABAT__13	1.62	7.63	1.40
METABAT__15	4.04	3.60	6.23
METABAT__3	3.50	2.16	3.00
METABAT__42	2.92	2.54	2.52
METABAT__31	2.43	0.51	3.53
METABAT__22	7.91	4.97	14.63
METABAT__47	2.20	5.51	7.60
METABAT__18	2.13	0.87	3.96
METABAT__43	2.85	0.93	2.32

Bin	BGR_1 ...	BGR_1 ...	BGR_1 ...
METABAT__36	2.39	0.18	4.09
METABAT__28	2.96	2.86	2.44
METABAT__4	3.50	0.54	1.18
METABAT__37	3.05	4.72	7.67
METABAT__1	9.44	2.88	3.33
METABAT__48	2.96	3.92	7.46
METABAT__39	2.25	1.69	2.33
METABAT__45	2.56	1.36	1.56
METABAT__24	2.45	6.57	3.15
METABAT__10	2.05	1.50	2.71
METABAT__9	3.07	0.04	2.40
METABAT__34	0.97	2.16	2.01
METABAT__35	2.64	1.79	3.00
METABAT__20	2.18	2.98	1.80
METABAT__33	1.57	5.41	2.67
METABAT__2	1.58	2.09	2.13
METABAT__16	1.45	1.97	4.08
METABAT__41	2.39	1.44	2.12
METABAT__21	2.61	1.18	1.99
METABAT__11	1.76	0.12	2.08
METABAT__23	2.54	0.11	1.88
METABAT__5	0.50	2.14	2.07
METABAT__6	1.44	0.76	2.16
METABAT__29	2.05	1.38	3.13
METABAT__8	2.60	3.11	2.55
METABAT__17	3.20	2.59	2.98
METABAT__32	2.29	5.46	9.15
METABAT__38	2.54	2.83	3.04
METABAT__7	2.03	3.83	1.86
METABAT__14	2.48	3.19	2.30

Percent Recruitment

This panel shows how much of the mapped data is recruited by each bin (and how much of the mapped data was not binned under 'splits_not_binned' column). The way these percents calculated is quite simple: summarize the mean coverage of each split in each bin, and normalize every bin with respect to each other. It is critical to remember that these values do not take the unasssambled data into account. This is how you should read this table: *"X percent of all mapped reads in Sample Y mapped to splits that were binned into bin Z"*.

TAB-delimited matrix file for percent recruitment: bins_across_samples/bins_percent_recruitment.txt (bins_across_samples/bins_percent_recruitment.txt)

Sample	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	METAB ...	...
BGR_130305_bam_sorted	0.99	0.28	0.31	1.28	0.16	0.07	0.56	0.26	0.11	0.27	...
BGR_130527_bam_sorted	0.25	0.15	0.01	0.62	1.58	0.12	0.45	0.44	0.07	0.05	...
BGR_130708_bam_sorted	0.21	0.35	0.34	1.19	0.10	0.05	0.86	1.15	0.08	0.60	...

Gene calls (their functions, coverage and detection across samples, etc)

An overview of genes and functions based on the information found in the contigs database. If you haven't assigned any functions, these tables will only contain coverages of ORFs across samples.

Bin	Total Size	Num Genes Identified	Tabular data

Bin	Total Size	Num Genes Identified	Tabular data
METABAT__19	1.87 Mb	2,015	genes (bin_by_bin/METABAT__19/METABAT__19-gene_calls.txt) | gene_coverages | detection
METABAT__27	2.42 Mb	2,362	genes (bin_by_bin/METABAT__27/METABAT__27-gene_calls.txt) | gene_coverages | detection
METABAT__12	2.30 Mb	2,289	genes (bin_by_bin/METABAT__12/METABAT__12-gene_calls.txt) | gene_coverages | detection
METABAT__26	2.05 Mb	1,925	genes (bin_by_bin/METABAT__26/METABAT__26-gene_calls.txt) | gene_coverages | detection
METABAT__44	2.21 Mb	2,206	genes (bin_by_bin/METABAT__44/METABAT__44-gene_calls.txt) | gene_coverages | detection
METABAT__30	1.66 Mb	1,566	genes (bin_by_bin/METABAT__30/METABAT__30-gene_calls.txt) | gene_coverages | detection
METABAT__40	3.01 Mb	2,346	genes (bin_by_bin/METABAT__40/METABAT__40-gene_calls.txt) | gene_coverages | detection
METABAT__46	1.98 Mb	1,945	genes (bin_by_bin/METABAT__46/METABAT__46-gene_calls.txt) | gene_coverages | detection
METABAT__25	1.72 Mb	1,556	genes (bin_by_bin/METABAT__25/METABAT__25-gene_calls.txt) | gene_coverages | detection
METABAT__13	1.61 Mb	1,445	genes (bin_by_bin/METABAT__13/METABAT__13-gene_calls.txt) | gene_coverages | detection
METABAT__15	2.51 Mb	2,242	genes (bin_by_bin/METABAT__15/METABAT__15-gene_calls.txt) | gene_coverages | detection
METABAT__3	2.14 Mb	1,985	genes (bin_by_bin/METABAT__3/METABAT__3-gene_calls.txt) | gene_coverages | detection
METABAT__42	1.76 Mb	1,693	genes (bin_by_bin/METABAT__42/METABAT__42-gene_calls.txt) | gene_coverages | detection
METABAT__31	2.18 Mb	2,163	genes (bin_by_bin/METABAT__31/METABAT__31-gene_calls.txt) | gene_coverages | detection
METABAT__22	2.09 Mb	1,634	genes (bin_by_bin/METABAT__22/METABAT__22-gene_calls.txt) | gene_coverages | detection
METABAT__47	1.67 Mb	1,441	genes (bin_by_bin/METABAT__47/METABAT__47-gene_calls.txt) | gene_coverages | detection
METABAT__18	1.39 Mb	1,394	genes (bin_by_bin/METABAT__18/METABAT__18-gene_calls.txt) | gene_coverages | detection
METABAT__43	1.69 Mb	1,700	genes (bin_by_bin/METABAT__43/METABAT__43-gene_calls.txt) | gene_coverages | detection
METABAT__36	2.05 Mb	1,812	genes (bin_by_bin/METABAT__36/METABAT__36-gene_calls.txt) | gene_coverages | detection
METABAT__28	1.34 Mb	1,429	genes (bin_by_bin/METABAT__28/METABAT__28-gene_calls.txt) | gene_coverages | detection
METABAT__4	1.91 Mb	1,739	genes (bin_by_bin/METABAT__4/METABAT__4-gene_calls.txt) | gene_coverages | detection
METABAT__37	888.46 Kb	848	genes (bin_by_bin/METABAT__37/METABAT__37-gene_calls.txt) | gene_coverages | detection
METABAT__1	612.22 Kb	626	genes (bin_by_bin/METABAT__1/METABAT__1-gene_calls.txt) | gene_coverages | detection
METABAT__48	754.06 Kb	762	genes (bin_by_bin/METABAT__48/METABAT__48-gene_calls.txt) | gene_coverages | detection
METABAT__39	2.11 Mb	2,141	genes (bin_by_bin/METABAT__39/METABAT__39-gene_calls.txt) | gene_coverages | detection
METABAT__45	1.44 Mb	1,582	genes (bin_by_bin/METABAT__45/METABAT__45-gene_calls.txt) | gene_coverages | detection
METABAT__24	1.55 Mb	1,485	genes (bin_by_bin/METABAT__24/METABAT__24-gene_calls.txt) | gene_coverages | detection
METABAT__10	934.79 Kb	925	genes (bin_by_bin/METABAT__10/METABAT__10-gene_calls.txt) | gene_coverages | detection
METABAT__9	1.34 Mb	1,296	genes (bin_by_bin/METABAT__9/METABAT__9-gene_calls.txt) | gene_coverages | detection
METABAT__34	1.22 Mb	1,386	genes (bin_by_bin/METABAT__34/METABAT__34-gene_calls.txt) | gene_coverages | detection
METABAT__35	1.09 Mb	1,054	genes (bin_by_bin/METABAT__35/METABAT__35-gene_calls.txt) | gene_coverages | detection
METABAT__20	866.93 Kb	899	genes (bin_by_bin/METABAT__20/METABAT__20-gene_calls.txt) | gene_coverages | detection
METABAT__33	562.29 Kb	612	genes (bin_by_bin/METABAT__33/METABAT__33-gene_calls.txt) | gene_coverages | detection
METABAT__2	1.95 Mb	2,194	genes (bin_by_bin/METABAT__2/METABAT__2-gene_calls.txt) | gene_coverages | detection
METABAT__16	1.75 Mb	1,484	genes (bin_by_bin/METABAT__16/METABAT__16-gene_calls.txt) | gene_coverages | detection
METABAT__41	1.35 Mb	1,541	genes (bin_by_bin/METABAT__41/METABAT__41-gene_calls.txt) | gene_coverages | detection
METABAT__21	1.74 Mb	1,647	genes (bin_by_bin/METABAT__21/METABAT__21-gene_calls.txt) | gene_coverages | detection
METABAT__11	882.54 Kb	994	genes (bin_by_bin/METABAT__11/METABAT__11-gene_calls.txt) | gene_coverages | detection

Bin	Total Size	Num Genes Identified	Tabular data
METABAT__23	454.88 Kb	460	🔗 genes (bin_by_bin/METABAT__23/METABAT__23-gene_calls.txt) | gene_coverages | detection
METABAT__5	376.07 Kb	440	🔗 genes (bin_by_bin/METABAT__5/METABAT__5-gene_calls.txt) | gene_coverages | detection
METABAT__6	616.37 Kb	669	🔗 genes (bin_by_bin/METABAT__6/METABAT__6-gene_calls.txt) | gene_coverages | detection
METABAT__29	457.60 Kb	462	🔗 genes (bin_by_bin/METABAT__29/METABAT__29-gene_calls.txt) | gene_coverages | detection
METABAT__8	832.16 Kb	806	🔗 genes (bin_by_bin/METABAT__8/METABAT__8-gene_calls.txt) | gene_coverages | detection
METABAT__17	231.75 Kb	236	🔗 genes (bin_by_bin/METABAT__17/METABAT__17-gene_calls.txt) | gene_coverages | detection
METABAT__32	388.24 Kb	380	🔗 genes (bin_by_bin/METABAT__32/METABAT__32-gene_calls.txt) | gene_coverages | detection
METABAT__38	369.23 Kb	334	🔗 genes (bin_by_bin/METABAT__38/METABAT__38-gene_calls.txt) | gene_coverages | detection
METABAT__7	238.44 Kb	197	🔗 genes (bin_by_bin/METABAT__7/METABAT__7-gene_calls.txt) | gene_coverages | detection
METABAT__14	229.22 Kb	220	🔗 genes (bin_by_bin/METABAT__14/METABAT__14-gene_calls.txt) | gene_coverages | detection

Hits for non-single-copy gene HMM profiles

This panel shows you the result of non-single copy gene hits in your bins and contigs for each HMM profile. Here is a table that shows the total number of HMM hits in each bin for each HMM search type (from bins_across_samples/hmm_hit_totals.txt (bins_across_samples/hmm_hit_totals.txt)):

Bin	Ribosomal_RNA_28S	Ribosomal_RNA_12S	Ribosomal_RNA_23S	Ribosomal_RNA_16S	Ribosomal_RNA_5S	Ribosomal_RNA_18S
METABAT__19	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__19/METABAT__19-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__27	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__27/METABAT__27-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__12	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__12/METABAT__12-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__26	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__26/METABAT__26-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__44	None (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_12S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__44/METABAT__44-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__30	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__30/METABAT__30-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__40	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__40/METABAT__40-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__46	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__46/METABAT__46-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__25	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__25/METABAT__25-Ribosomal_RNA_18S-hmm-sequences.txt)

Bin	Ribosomal_RNA_28S	Ribosomal_RNA_12S	Ribosomal_RNA_23S	Ribosomal_RNA_16S	Ribosomal_RNA_5S	Ribosomal_RNA_18S
METABAT__13	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__13/METABAT__13-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__15	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__15/METABAT__15-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__3	None (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_12S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_23S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__3/METABAT__3-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__42	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__42/METABAT__42-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__31	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__31/METABAT__31-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__22	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__22/METABAT__22-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__47	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__47/METABAT__47-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__18	None (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_12S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_23S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__18/METABAT__18-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__43	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__43/METABAT__43-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__36	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__36/METABAT__36-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__28	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__28/METABAT__28-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__4	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__4/METABAT__4-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__37	None (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_12S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__37/METABAT__37-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__1	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__1/METABAT__1-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__48	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__48/METABAT__48-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__39	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__39/METABAT__39-Ribosomal_RNA_18S-hmm-sequences.txt)

Bin	Ribosomal_RNA_28S	Ribosomal_RNA_12S	Ribosomal_RNA_23S	Ribosomal_RNA_16S	Ribosomal_RNA_5S	Ribosomal_RNA_18S
METABAT__45	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__45/METABAT__45-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__24	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__24/METABAT__24-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__10	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__10/METABAT__10-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__9	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__9/METABAT__9-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__34	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__34/METABAT__34-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__35	None (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_23S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__35/METABAT__35-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__20	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__20/METABAT__20-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__33	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__33/METABAT__33-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__2	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__2/METABAT__2-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__16	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__16/METABAT__16-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__41	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__41/METABAT__41-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__21	None (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_23S-hmm-sequences.txt)	1 (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__21/METABAT__21-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__11	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__11/METABAT__11-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__23	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__23/METABAT__23-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__5	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__5/METABAT__5-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__6	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__6/METABAT__6-Ribosomal_RNA_18S-hmm-sequences.txt)

Bin	Ribosomal_RNA_28S	Ribosomal_RNA_12S	Ribosomal_RNA_23S	Ribosomal_RNA_16S	Ribosomal_RNA_5S	Ribosomal_RNA_18S
METABAT__29	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__29/METABAT__29-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__8	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__8/METABAT__8-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__17	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__17/METABAT__17-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__32	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__32/METABAT__32-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__38	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__38/METABAT__38-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__7	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__7/METABAT__7-Ribosomal_RNA_18S-hmm-sequences.txt)
METABAT__14	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_28S-hmm-sequences.txt)	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_12S-hmm-sequences.txt)	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_23S-hmm-sequences.txt)	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_16S-hmm-sequences.txt)	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_5S-hmm-sequences.txt)	None (bin_by_bin/METABAT__14/METABAT__14-Ribosomal_RNA_18S-hmm-sequences.txt)

The distribution of each HMM item found in your HMM collections is shown below. Different search types will be presented in their cognate tabs.

| Ribosomal RNA 28S | Ribosomal RNA 12S | Ribosomal RNA 23S | Ribosomal RNA 16S | Ribosomal RNA 5S | Ribosomal RNA 18S |

HMM hits in bins for Ribosomal_RNA_28S (from bins_across_samples/hmms_Ribosomal_RNA_28S.txt (bins_across_samples/hmms_Ribosomal_RNA_28S.txt)):

Bin	28S_r ...
METABAT__19	None
METABAT__27	None
METABAT__12	None
METABAT__26	None
METABAT__44	None
METABAT__30	None
METABAT__40	None
METABAT__46	None
METABAT__25	None
METABAT__13	None
METABAT__15	None
METABAT__3	None
METABAT__42	None
METABAT__31	None
METABAT__22	None
METABAT__47	None
METABAT__18	None
METABAT__43	None
METABAT__36	None
METABAT__28	None
METABAT__4	None

Bin	28S_r ...
METABAT__37	None
METABAT__1	None
METABAT__48	None
METABAT__39	None
METABAT__45	None
METABAT__24	None
METABAT__10	None
METABAT__9	None
METABAT__34	None
METABAT__35	None
METABAT__20	None
METABAT__33	None
METABAT__2	None
METABAT__16	None
METABAT__41	None
METABAT__21	None
METABAT__11	None
METABAT__23	None
METABAT__5	None
METABAT__6	None
METABAT__29	None
METABAT__8	None
METABAT__17	None
METABAT__32	None
METABAT__38	None
METABAT__7	None
METABAT__14	None

Misc Data

For layers

The directory misc data layers (misc_data_layers/) contains TAB-delimited files for additional data stored under the following data group names for each **sample/layer** found in the merged database: default.

The **default** data group, which often is added by anvi'o automatically and contains important information, contained these keys: **total_reads_mapped**, **total_reads_kept**, **num_INDELs_reported**, **num_SNVs_reported**.

For items

None found :(