BV-BRC Test Report

A22. Service – RNA-seq Analysis

Item to test	RNA-seq Analysis Service using transcriptomic read sets
URL	https://www.bv-brc.org/app/Rnaseq
Prerequisites	Transcriptomic read sets in workspace as fastq files
References	https://www.bv-brc.org/docs/quick_references/services/rna_seq_analysis_service.html https://www.bv-brc.org/docs/tutorial/rna_seq/rna_seq.html
Tester(s)	Rebecca Wattam, Maulik Shukla
Test date	08-May-2022 (follow-up from original test)
Test result	Partial Success (Bugs reported)

Overview

- Test the RNA-seq Analysis using exemplar transcriptomic reads sets.
- Test input options, i.e., single-end / paired-end read files.
- Test different strategies, i.e. Tuxedo and HTSeq.
- Test differential and non-differential analysis options.
- For each job submitted, verify successful completion of the job, presence of output files, their content and format.
- Review differential expression results using interactive gene list and heatmap viewer.

Test Data

Dataset	Rational	Input Format	Input
Acinetobacter baumannii AMR	Workshop	Fastq file	MHB_R1.fq.gz, MHB_R2.fq.gz
treatments	example		COL_R1.fq.gz, COL_R2.fq.gz
			MERO_R1.fq.gz, MERO_R2.fq.gz

• All test datasets and corresponding job results are available in the following public workspace: https://www.bv-brc.org/workspace/BVBRC@patricbrc.org/BVBRC%20Tests/RNA-seq%20Analysis

Test Results

- Most jobs completed successfully. However, some jobs failed with errors.
- All jobs that completed successfully, resulted in expected output files in corresponding job output directory, including fastqc results, bam files, read counts, fpkm and tpm values for each sample, and a TPM summary matrix.
- For differential expression option, the results included differential expression values as log fold change and z scores.
- The interactive gene list allowed filtering of the genes based on log ratio, z-score, and up or down regulation of genes in various contrasts.

- The heatmap provided visual representation of the differential expression results and clustering helped identify genes with similar expression patters a cross one or more samples.
- All test datasets and corresponding job results are available in the following public workspace: https://www.bv-brc.org/workspace/BVBRC@patricbrc.org/BVBRC%20Tests/RNA-seq%20Analysis
- Below are a series of screenshots showing successful completion of the jobs, availability of the result files in the workspace, interactive gene list and heatmap.

Parameters ()		Groups/Conditions	
STRATEGY			
HTSeq-DESeq	*	мнв	0
TARGET GENOME			v
Acinetobacter baumannii 34654	-	MHB	• ×
OUTPUT FOLDER		MERO	×
12 RNA-seq Analysis	-	COL	• ×
OUTPUT NAME			
Output Name			
Paired read library	Θ	Selected libraries	ittons.
↓2 f		P(MHB_R1.fq.gz, MHB_R2.fq.gz)	i • ×
READ FILE 2		P(COL_7fq.gz, COL_7fq.gz)	i • ×
12 MHB_R2.fq.gz	- 5	P(MEROfa.az, MEROfq.gz)	i 🛚 ×
CONDITION	The val	ue entered is not valid.	
МНВ	-		
Single read library	⊕		
READ FILE			
12	-		
CONDITION			
Condition Name	*		
SRA run accession	⊕		
SRR ACCESSION	-		
SRR			
CONDITION			
Condition Name	-		
Contrasts ()			
CONDITION 1	COR	IDITION 2	
Condition Name	- Co	ondition Name	0
MERO		MHB	×
COL		MHB	×

Status	ID	Service	Output Name 🔺	Submit	Start	Completed	0
failed	7747945	RNA-Seq Analysis	Abaumannii - Tuxedo - no DE	5/8/22, 9:01 PM	5/8/22, 9:01 PM	5/8/22, 9:19 PM	
completed	7747946	RNA-Seq Analysis	Abaumannii - HTSeq - no DE	5/8/22, 9:01 PM	5/8/22, 9:01 PM	5/8/22, 9:19 PM	
completed	7748032	RNA-Seq Analysis	Abaumannii - Tuxedo - DE2	5/9/22, 7:09 AM	5/9/22, 7:09 AM	5/9/22, 7:34 AM	
failed	7748033	RNA-Seq Analysis	Abaumannii - Tuxedo - noDE2	5/9/22, 7:10 AM	5/9/22, 7:10 AM	5/9/22, 7:27 AM	

BV	BRC / BVBRC Tests / RNA-seq Analysis (11 items)			UPL	OAD ADD FOLDER	SHOW HIDDEN
	Name	Size	Owner	Members	Created	-0
t	Parent folder			-		
P	MERO_75_R1.fq.gz	43.7 MB	me	Public	5/8/22, 8:53	PM
P	README.txt	166 B	me	Public	5/8/22, 8:53	PM
P	COL_75_R1.fq.gz	42.9 MB	me	Public	5/8/22, 8:53	PM
₽	COL_75_R2.fq.gz	42.1 MB	me	Public	5/8/22, 8:53	PM
P	MERO_75_R2.fq.gz	43.0 MB	me	Public	5/8/22, 8:53	PM
Ð	MHB_R1.fq.gz	38.4 MB	me	Public	5/8/22, 8:53	PM
P	MHB_R2.fq.gz	38.3 MB	me	Public	5/8/22, 8:53	PM
29	Abaumannii - HTSeq - no DE	21.2 kB	me	Public	5/8/22, 9:19	PM
33	Abaumannii - Tuxedo - noDE2	18.3 kB	me	Public	5/9/22, 7:27	AM
3	Abaumannii - Tuxedo - DE2	27.5 kB	me	Public	5/9/22, 7:34	AM
3	Abaumannii - HTSeq - DE2	21.6 kB	me	Public	5/9/22, 7:52	AM

• Non-DE analysis results

Name	•	Size	Owner	Members	Created	
Parent folder				-		
1310581.3			me	Public	5/8/22, 9:18 PM	1
Metadata.txt		97 B	me	Public	5/8/22, 9:18 PM	1
Pipeline.txt		7.6 kB	me	Public	5/8/22, 9:18 PM	1
report_images			me	Public	5/8/22, 9:18 PM	1
Name	*	Size	Owner	Members	Created	
Parent folder				-		
1310581.3.htseq.gene_counts.tsv		123.2 kB	me	Public	5/8/22, 9:19 PN	Λ
1310581.3.htseq.tpms.tsv		177.5 kB	me	Public	5/8/22, 9:19 PN	Λ
1310581.3_report.html		779.3 kB	me	Public	5/8/22, 9:19 PN	Λ
TPMCalculator_Output			me	Public	5/8/22, 9:19 PN	Λ
library_geometry.txt		119 B	me	Public	5/8/22, 9:19 PN	Λ
results			me	Public	5/8/22, 9:18 PN	1
Name	*	Size	Owner	Members	Created	
Parent folder				-		
MHB_R1_MHB_R2.bam		65.2 MB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.bam.bai		14.1 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.bam.samstat.html		237.5 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.bowtie		0 B	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.counts		103.0 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.infer		183 B	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2.samtools_stats		93.3 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2_tpm_calculator.err		8.6 MB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_MHB_R2_tpm_calculator.out		0 B	me	Public	5/8/22, 9:19 PM	1
MHB_R1_fastqc.html		262.0 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R1_fastqc.zip		283.1 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R2_fastqc.html		264.6 kB	me	Public	5/8/22, 9:19 PM	1
MHB_R2_fastqc.zip		287.3 kB	me	Public	5/8/22, 9:19 PM	1
Samstat_MHB_R1_MHB_R2.bam.samstat.html		130.5 kB	me	Public	5/8/22, 9:19 PM	1
	1310581.3 Metadata.txt Pipeline.txt report_images Name Parent folder 1310581.3.htseq.gene_counts.tsv 1310581.3.htseq.gene_counts.tsv 1310581.3.ntseq.tpms.tsv 1310581.3_report.html TPMCalculator_Output library_geometry.txt results MHB_R1_MHB_R2.bam MHB_R1_MHB_R2.bam.samstat.html MHB_R1_MHB_R2.bowtie MHB_R1_MHB_R2.counts MHB_R1_MHB_R2.threr MHB_R1_MHB_R2_tpm_calculator.err MHB_R1_fastqc.html MHB_R1_fastqc.html MHB_R1_fastqc.html	1310581.3 Metadata.txt Pipeline.txt report_images Name Parent folder 1310581.3.htseq.gene_counts.tsv 1310581.3.htseq.gene_counts.tsv 1310581.3.htseq.gene_counts.tsv 1310581.3.htseq.gene_counts.tsv 1310581.3.htseq.toms.tsv Name Parent folder MHB_R1_MHB_R2.bam.samstat.html MHB_R1_MHB_R2.tomts MHB_R1_MHB_R2.tomts MHB_R1_MHB_R2.tomts MHB_R1_MHB_R2.tom_calculator.eur MHB_R1_MHB_R2.pm_calculator.eur MHB_R1_MHB_R2.tomtin MHB_R1_MHB_R2.tomtin	1310581.3Metadata.bt97 BPipeline.bt7.6 kBreport_images5Name8Parent folder123.2 kB1310581.3.htseq.gene_counts.tsv123.2 kB1310581.3.htseq.tpms.tsv123.2 kB1310581.3.htseq.tpms.tsv779.3 kB1310581.3.htseq.tpms.tsv779.3 kB1310581.3.htseq.tpms.tsv779.3 kB1310581.3.htseq.tpms.tsv119 Bresults119 Bresults5Name65.2 MBMHB_R1_MHB_R2.bam.bai64.2 kBMHB_R1_MHB_R2.bam.bai14.1 kBMHB_R1_MHB_R2.bowie0 BMHB_R1_MHB_R2.bowie03.0 kBMHB_R1_MHB_R2.tomts103.0 kBMHB_R1_MHB_R2.tomts103.0 kBMHB_R1_MHB_R2.tomts0.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm10.8 kBMHB_R1_fastqc.thm1 <t< td=""><td>1310581.3meMetadata.bt97 BmePipeline.bt7.6 kBmereport_imagesnemeName6SizeVariant123.2 kBme1310581.3.htseq.gene_counts.tsv123.2 kBme1310581.3.htseq.gene_counts.tsv123.2 kBme1310581.3.htseq.gene_counts.tsv177.5 kBme1310581.3.htseq.tpms.tsv177.5 kBme1310581.3.htseq.tpms.tsv177.5 kBme1310581.3.htseq.tpms.tsv179.3 kBme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpms.tsv119.Bme1910541.3.tseq.tpm119.Bme1910555114.1me1910566114.1me1910567114.1meMHB_R1_MHB_R2.tom.bai114.1meMHB_R1_MHB_R2.tom.bai113.0meMHB_R1_MHB_R2.tom.bai113.0meMHB_R1_MHB_R2.tom133.0meMHB_R1_MHB_R2.tom133.0meMHB_R1_MHB_R2.tom133.0meMHB_R1_MHB_R2.tom133.0meMHB_R1_MHB_R2.tom_coluclator.er0.8me<</td><td>1310581.3mePublicMetadata.bt97 BmePublicPipeline.bt7.6 kBmePublicreport_imagesmePublicNameSizeOwnerMembersParent folder123.2 kBmePublic1310581.3.htseq.gene_counts.tsv123.2 kBmePublic1310581.3.htseq.gene_counts.tsv123.2 kBmePublic1310581.3.htseq.gene_counts.tsv123.2 kBmePublic1310581.3.report.html177.5 kBmePublic1310581.3.report.html177.5 kBmePublic1310581.3.report.htmlmePublicme1310581.3.report.html119.BmePublicIbrary_geometry.td119.BmePublicresultsmePublicmePublicMHB_R1_MHB_R2.bam.bai14.1 kBmePublicMHB_R1_MHB_R2.bam.bai14.1 kBmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_R1_MHB_R2.bam.bai130.8 MmePublicMHB_</td><td>1310581.3 me Public 5/8/22, 918 PM Pipeline.td 7.8 kB me Public 5/8/22, 918 PM report_images 7.8 kB me Public 5/8/22, 918 PM Name Public 5/8/22, 918 PM Public 5/8/22, 918 PM Parent folder - 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- - - 1310581.3.htseq.gene_counts.tsv 123.2 kB me Public 5/8/22, 919 PM 1310581.3.htseq.gene_counts.tsv 177.3 kB me Public 5/8/22, 919 PM 1310581.3.pert.html 779.3 kB me Public 5/8/22, 919 PM 1310581.3.pert.html 779.3 kB me Public 5/8/22, 919 PM TPMCalculator_Output me Public 5/8/22, 919 PM Ibrary_geometry.tst me Public 5/8/22, 919 PM results - - - - MHB_R1_MHB_R2.bam 65.2 MB me Public 5/8/22, 919 PM MHB_R1_MHB_R2.bam 65.2 MB me Public 5/8/22, 919 PM MHB_R1_MHB_R2.bam 65.2 MB me Public 5/8

	Name	^	Size	Owner	Members	Created	•
t	Parent folder				-		
	COL_75_R1_COL_75_R2_genes.ent		254.9 kB	me	Public	5/8/22, 9:19 PM	
	COL_75_R1_COL_75_R2_genes.out		438.2 kB	me	Public	5/8/22, 9:19 PM	
	COL_75_R1_COL_75_R2_genes.uni		254.8 kB	me	Public	5/8/22, 9:19 PM	
	MERO_75_R1_MERO_75_R2_genes.ent		252.0 kB	me	Public	5/8/22, 9:19 PM	
	MERO_75_R1_MERO_75_R2_genes.out		433.3 kB	me	Public	5/8/22, 9:19 PM	
	MERO_75_R1_MERO_75_R2_genes.uni		251.9 kB	me	Public	5/8/22, 9:19 PM	
	MHB_R1_MHB_R2_genes.ent		248.9 kB	me	Public	5/8/22, 9:19 PM	
	MHB_R1_MHB_R2_genes.out		427.6 kB	me	Public	5/8/22, 9:19 PM	
	MHB_R1_MHB_R2_genes.uni		248.9 kB	me	Public	5/8/22, 9:19 PM	

KEYWORDS

All Columns Filter Reset

Ge	ne	COL_75_R1_COL_75_R2	MERO_75_R1_MERO_75_R2	MHB_R1_MHB_R2
fig	1310581.3.peg.3776	7.42184	0	1.94289
fig	1310581.3.peg.90	113.715	138.774	147.353
fig	1310581.3.peg.956	653.212	417.17	232.1
fig	1310581.3.peg.2546	83.4984	138.168	86.6918
fig	1310581.3.peg.3871	56.363	215.632	154.924
fig	1310581.3.peg.519	60.3779	51.0831	43.9305
fig	1310581.3.peg.1858	38.8229	66.2121	15.9074
fig	1310581.3.peg.244	343.929	418.953	128.125
fig	1310581.3.peg.1347	9.18466	4.57498	3.09131
fig	1310581.3.peg.3107	30.2115	9.57644	12.9416
fig	1310581.3.peg.1048	11.9087	2.96593	5.34421
fig	1310581.3.peg.646	229.354	274.682	150.362
fig	1310581.3.peg.1283	8.61361	1.87711	1.69115
fig	1310581.3.peg.2811	961.458	2735.59	3826.26
fig	1310581.3.peg.2282	99.8588	79.133	51.3314
fig	1310581.3.peg.3948	26.6373	23.2196	27.8924
fig	1310581.3.peg.2181	144.525	22.9058	17.1972
fig	1310581.3.peg.482	71.7129	26.4473	17.3289
fig	1310581.3.peg.1414	10.8937	0	4.27762
fig	1310581.3.peg.1982	101.856	137.217	119.987
fig	1310581.3.peg.2657	159.097	400.643	134.201
fig	1310581.3.peg.51	131.209	20.5874	20.6088
fig	1310581.3.peg.2398	43.2116	0	0
fig	1310581.3.peg.1224	11.9663	13.9079	3.13253
fig	1310581.3.peg.2735	37.4977	130.746	193.518
fig	1310581.3.peg.2145	18.0676	25.5928	13.3023
	11210581 2 000 2862	81 3851	108 0/8	CORN 83
- 200 (of 3958 results			< 1 2 3 20

Differential Expression Results ٠

	Name	▲ Size		Owner	Members	Created	•
t	Parent folder				-		
	1310581.3			me	Public	5/9/22, 7:33 AM	1
	1310581.3.bed	1.3	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.1.bt2	5.6	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.2.bt2	1.0	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.3.bt2	953	В	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.4.bt2	1.0	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.fai	3.4	kB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.rev.1.bt2	5.6	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.fna.rev.2.bt2	1.0	MB	me	Public	5/9/22, 7:33 AM	1
	1310581.3.gff	1.2	MB	me	Public	5/9/22, 7:33 AM	1
183	Abaumannii - Tuxedo - DE2_diffexp	1.6	kB	me	Public	5/9/22, 7:33 AM	1
	Metadata.txt	86 E	З	me	Public	5/9/22, 7:33 AM	1
Ê	Pipeline.txt	6.3	kB	me	Public	5/9/22, 7:33 AM	1

	Name	Size	Owner	Members	Created	0
t	Parent folder			-		
	COL		me	Public	5/9/22, 7:34 AM	
	MERO		me	Public	5/9/22, 7:33 AM	
	MHB		me	Public	5/9/22, 7:33 AM	
Ē	bias_params.info	196.2 kB	me	Public	5/9/22, 7:33 AM	
	cds.count_tracking	12 B	me	Public	5/9/22, 7:33 AM	
	cds.diff	115 B	me	Public	5/9/22, 7:33 AM	
	cds.fpkm_tracking	91 B	me	Public	5/9/22, 7:33 AM	
Ē	cds.read_group_tracking	115 B	me	Public	5/9/22, 7:33 AM	
	cds_exp.diff	124 B	me	Public	5/9/22, 7:33 AM	
Ē	contrasts.txt	41 B	me	Public	5/9/22, 7:34 AM	
	diff_exp_params.json	333 B	me	Public	5/9/22, 7:33 AM	
	gene_exp.diff	959.1 kB	me	Public	5/9/22, 7:33 AM	
	gene_exp.gmx	96.2 kB	me	Public	5/9/22, 7:33 AM	
	genes.count_tracking	306.6 kB	me	Public	5/9/22, 7:33 AM	
	genes.fpkm_tracking	574.4 kB	me	Public	5/9/22, 7:33 AM	
	genes.read_group_tracking	519.0 kB	me	Public	5/9/22, 7:33 AM	
	gtf_manifest.txt	193 B	me	Public	5/9/22, 7:33 AM	
	isoform_exp.diff	124 B	me	Public	5/9/22, 7:33 AM	
	isoforms.count_tracking	343.8 kB	me	Public	5/9/22, 7:33 AM	
	isoforms.fpkm_tracking	725.2 kB	me	Public	5/9/22, 7:33 AM	
	isoforms.read_group_tracking	605.2 kB	me	Public	5/9/22, 7:33 AM	
	library_geometry.txt	108 B	me	Public	5/9/22, 7:33 AM	
	merged_annotation		me	Public	5/9/22, 7:33 AM	
	promoters.diff	399.9 kB	me	Public	5/9/22, 7:33 AM	
	read_groups.info	363 B	me	Public	5/9/22, 7:33 AM	

ilter By ↑ ↓ ↑↓								D
Title	Strain	BRC ID	RefSeg Locus	Gene Symbol	Product	Comparisons	Up	Down
□ □ 🗹 MHB vs COL			Tag				-	
MHB vs MERO		fig 1310581.3.peg.32	J480_3379		hypothetical protein	2	0	2
		fig 1310581.3.peg.18	J480_1924		UDP-glucose 6-dehydrogenase (EC 1.1.1.22)	2	1	0
		fig 1310581.3.peg.45	J480_0466		Nitronate monooxygenase (EC 1.13.12.16)	1	1	0
		fig 1310581.3.peg.39	J480_0409		Bsu YqfO NIF3/CutA domain	1	1	0
		fig 1310581.3.peg.12	J480_1261		Osmosensitive K+ channel histidine kinase KdpD	1	1	0
		fig 1310581.3.peg.12	J480_1253		hypothetical protein	2	0	2
		fig 1310581.3.peg.17	J480_1829	maiA	Maleylacetoacetate isomerase (EC 5.2.1.2) @ Glutath	2	0	1
		fig 1310581.3.peg.13	J480_1438		Acyl-CoA dehydrogenase, short-chain specific (EC 1.	2	1	0
		fig 1310581.3.peg.16	J480_1748		Phenylacetic acid degradation protein PaaY	2	1	0
		fig 1310581.3.peg.18	J480_1950		putative membrane protein	2	2	0
iler by Genome:		fig 1310581.3.peg.37	J480_3874	hflX	Ribosome LSU-associated GTP-binding protein HflX	2	0	1
Select a genome to filter	-	fig 1310581.3.peg.11	J480_1148		DNA helicase (EC 3.6.4.12), phage-associated	1	1	0
Filter by one or more keywords or loo	cus tags	fig 1310581.3.peg.30	J480_3175		Membrane protein insertion efficiency factor YidD	2	0	2
		fig 1310581.3.peg.15	J480_1650		Rhomboid family protein	2	0	1
		fig 1310581.3.peg.30	J480_3154		Membrane-bound lytic murein transglycosylase B	2	1	0
		fig 1310581.3.peg.49	J480_0507		probable periplasmic protein NMA1059	2	1	1
		fig 1310581.3.peg.17	J480_1821	hutU	Urocanate hydratase (EC 4.2.1.49)	2	0	1
ilter by Log Ratio : 1		fig 1310581.3.peg.19	J480_2061		Phage protein	2	1	0
ilter by Z-score : 0		fig 1310581.3.peg.12	J480_1262	kdpC	Potassium-transporting ATPase C chain (EC 3.6.3.12	1	1	0
Filter		fig 1310581.3.peg.12	J480_0013		putative lipoprotein	2	2	0
		fig 1310581.3.peg.24	J480_2552		Lactam utilization protein LamB	2	1	0
		fig 1310581.3.peg.26	J480_0278		Outer membrane protein W precursor	2	2	0
		fig 1310581.3.peg.14	J480_1539	rep	ATP-dependent DNA helicase Rep	2	0	2
		fig 1310581.3.peg.23	J480_2471	ispF	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthas	2	0	1
		fig 1310581.3.peg.28	J480_2997		putative lipoprotein	2	0	1
		fig 1310581.3.peg.25	J480_0266	fadB	Enoyl-CoA hydratase (EC 4.2.1.17) / Delta(3)-cis-delta	2	1	0

C Search columns	↑ red - black - green ♣	Cluster	Advanced	Show	Save SVG
	Genes				
MHB vs COL					
MHB vs MERO					

Note

- Issue: When Tuxedo No DE recipe is selected, the service produces expected results. However, job is marked as failed.
- Resolution: The bug has been identified and being fixed. It will be deployed to production in the next release.

References

- <u>RNA-seq Analysis Service Quick Reference Guide</u>
- <u>RNA-seq Analysis Service Tutorial</u>