

Sample RNASeq Report

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Setup Environment

This is a sample report generated using the `quartoReport` package.

```
library(quartoReport)
```

Setup Analysis

```
# meta_fn <- "~/data/reporter_testing/deseq2_2_samples/sample-sheet.txt"
# contrasts_fn <- "~/data/reporter_testing/deseq2_2_samples/contrasts.txt"
# count_fn <- "~/data/reporter_testing/deseq2_2_samples/gene_count_matrix_fixed.csv"
#
# op_dir <- "~/data/reporter_testing/testing_quartoReport/"
#
# use_threshold <- 0.05
```

DESeq2 Analysis Setup

```
meta_df <- read_meta_data(params$meta_fn)
count_mat <- read_count_mat(fn = params$count_fn, meta_df = meta_df)
contrasts_df <- get_contrasts(fn = params$contrasts_fn)

dds <- make_deseq_object(count_mat = count_mat, meta_df = meta_df)
vs_data <- stabilize_count_data(dds)

save_objects(dds, op_dir = params$op_dir)
save_objects(vs_data, op_dir = params$op_dir)
```

```
res_df <- get_single_result(dds, comp_df = contrasts_df[1, ])  
all_plots <- make_all_plots(res_df = res_df, vs_data = vs_data,  
                           thresh = params$use_threshold, op_dir = params$op_dir)  
save_results(res_df = res_df, op_dir = params$op_dir, thresh = params$use_threshold)  
  
res_df_2 <- get_single_result(dds = dds, comp_df = contrasts_df[2, ])  
all_plots_2 <- make_all_plots(res_df = res_df_2, vs_data = vs_data,  
                             thresh = params$use_threshold, op_dir = params$op_dir)  
save_results(res_df = res_df_2, op_dir = params$op_dir, thresh = params$use_threshold)
```