Figure-2F-ERS-BC1-vs-DMSO.R

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```
# This Script Generates Figure 2F
# Script By: Eishani Kumar Sokolowski
# Empty the environment & suppress warnings
rm(list = ls())
options(warn=-1)
# Loading libraries
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(Seurat)
## Loading required package: SeuratObject
## Loading required package: sp
## 'SeuratObject' was built under R 4.4.0 but the current version is
## 4.4.1; it is recomended that you reinstall 'SeuratObject' as the ABI
## for R may have changed
##
## Attaching package: 'SeuratObject'
## The following object is masked from 'package:base':
##
##
       intersect
```

```
library(ggplot2)
library(tidyverse)
```

```
## — Conflicts — tidyverse_conflicts() —
## * dplyr::filter() masks stats::filter()
## * dplyr::lag() masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts
to become errors
```

```
library(Scillus)

# Load the seurat object
combined <- readRDS("./Combined_Islet_150_Islet_162_Islet_168_Islet_67_Islet_116_Islet_1
17_Cluster_All_Cell_Type_Identities_Finalized - Beta - ERS.rds")

# Loading the DEGs
Genes <- read.csv("./beta.DEGs_Bigger_Thapsi_vs_DMSO.csv")
Genes <- Genes[order(-Genes$avg_log2FC),]
Genes <- Genes$X

# Scaling
combined <- ScaleData(object = combined, features = rownames(combined))</pre>
```

Centering and scaling data matrix

```
## `use_raster` is automatically set to TRUE for a matrix with more than
## 2000 columns You can control `use_raster` argument by explicitly
## setting TRUE/FALSE to it.
##
## Set `ht_opt$message = FALSE` to turn off this message.
```

