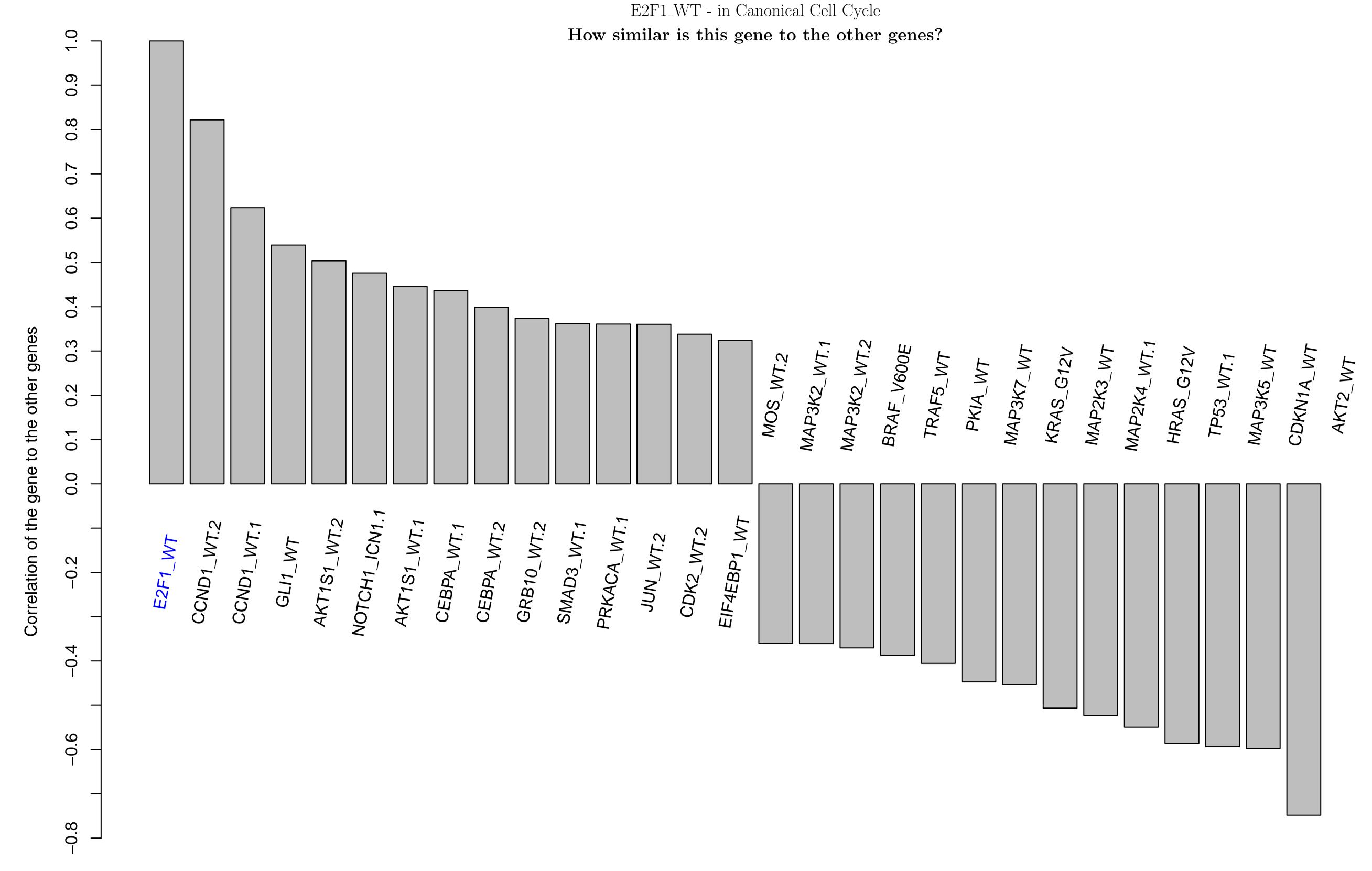
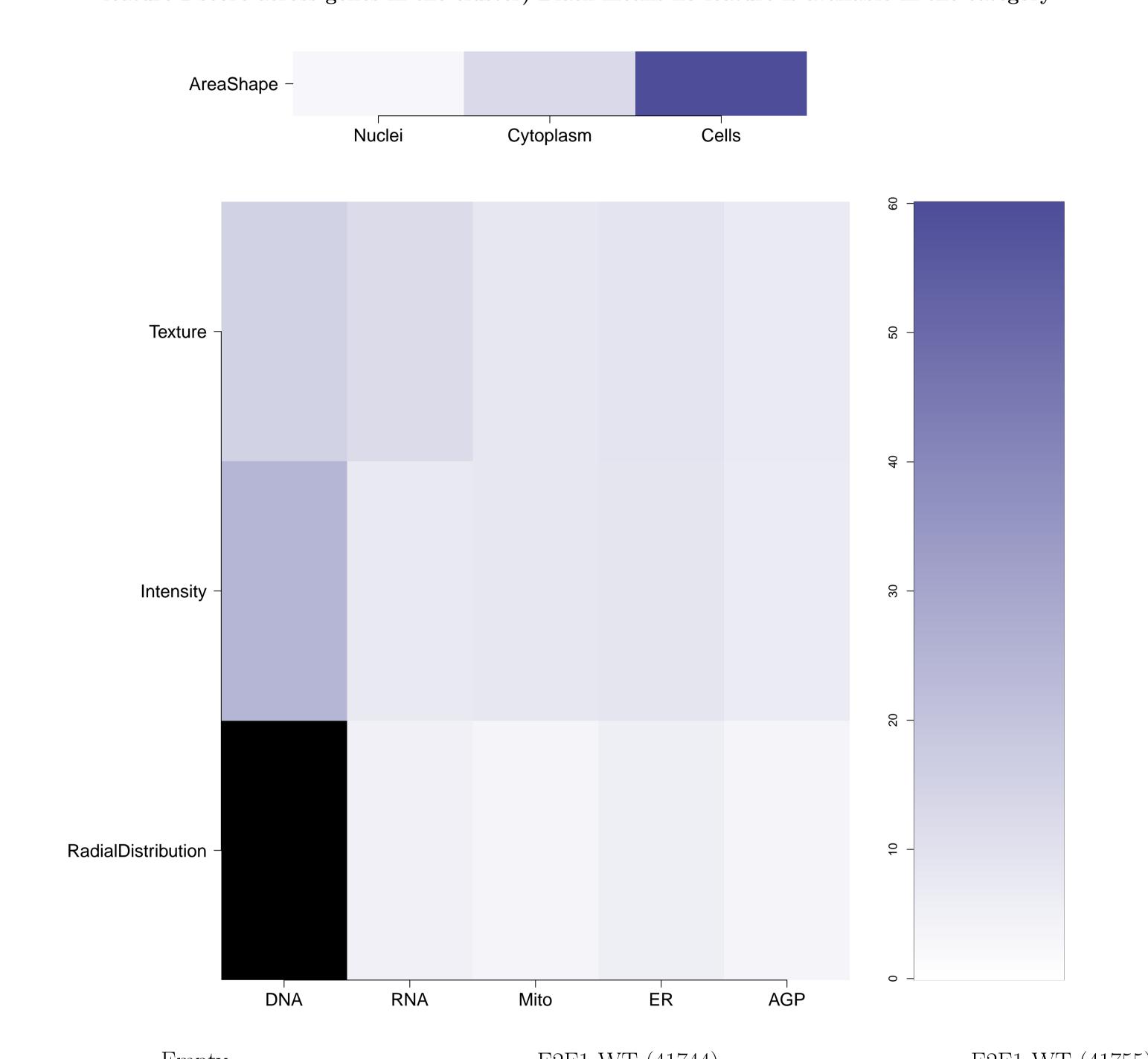
CONFIDENTIAL, contact the Imaging Platform to collaborate on the findings herein



What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the category



RNA

DNA

Compound IDs and

common names (where

available); blue/red colored

box means the matching

compound is

positively/negatively

correlated with the cluster

Mean pairwise

replicates

correlation of the

compound signature

(95th DMSO

replicate correlation

is 0.52)

Chemical

structure

Compound

rank when

scored

against the

gene using

L1000

profiling

How similar is the compound signature to the genes in this

experiment? (Yellow and red lines correspond to top/bottom

1st and 5th percentile DMSO correlation to all the genes)

Correlation

between

compound

the gene

Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

Distinguishing individual features for the compound relative to Number of PubChem assays in which

the compound was tested; assays in

which the compound was active are

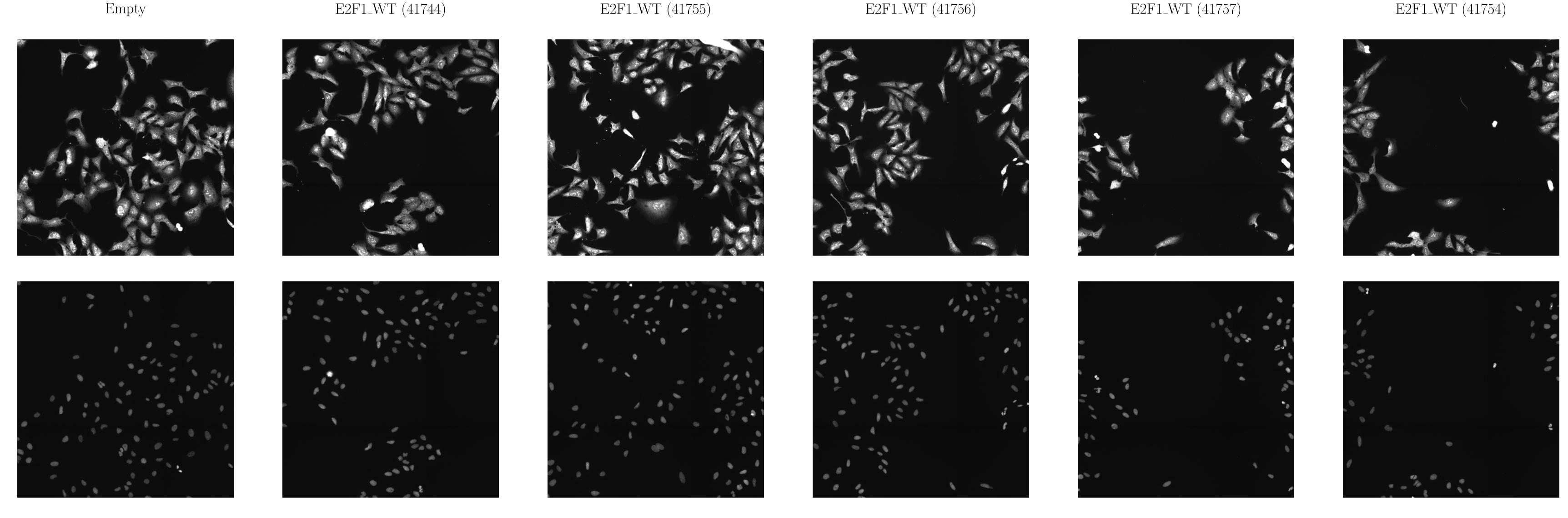
itemized

untreated samples. Black means a mismatch; i.e. active (= high

z-score in magnitude) in the compound, and either inactive (=

small z-score in magnitude) or oppositely active in the gene





Common distinguishing feature categories in the compound and

the gene relative to the untreated samples

AreaShape -Nuclei_Texture_Variance_DNA_5_0 Texture -BRD-K87904079-001-01-8 MLS003129325 Cells_RadialDistribution_RadialCV_RNA_3of4 Cells_RadialDistribution_RadialCV_AGP_2of4 Cells_Intensity_MaxIntensityEdge_Mito 0.58 (in 7 replicates) Total number of assays tested in: 228. Cytoplasm_Texture_AngularSecondMoment_Mito_3_0 SMR001833771 PubChem CID : 44496392 Intensity -Cells_RadialDistribution_MeanFrac_RNA_4of4 Cells_AreaShape_Zernike_0_0 Cells_Texture_InfoMeas2_DNA_3_0
Cytoplasm_Intensity_IntegratedIntensity_ER RadialDistribution -Mito DNA RNA