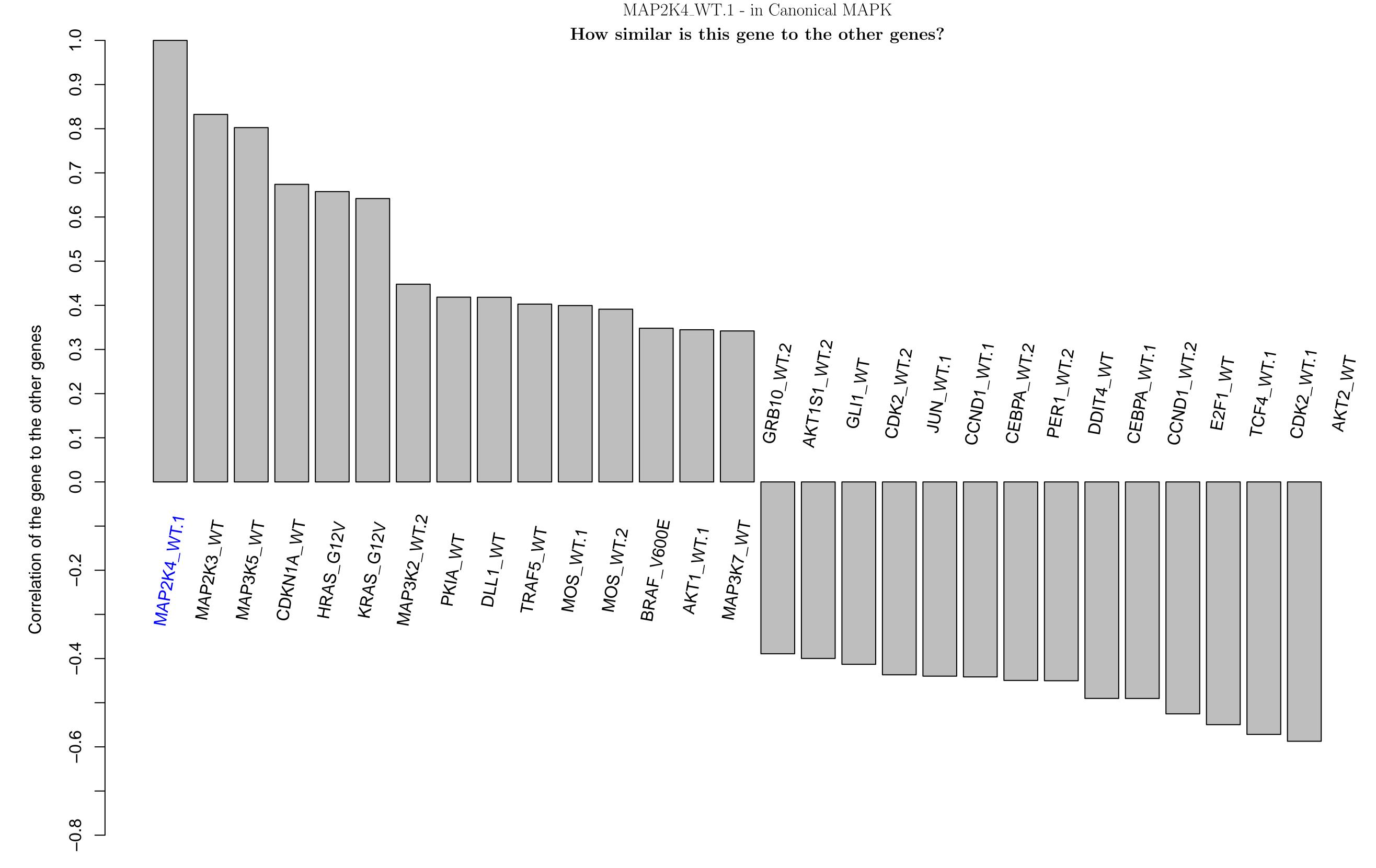
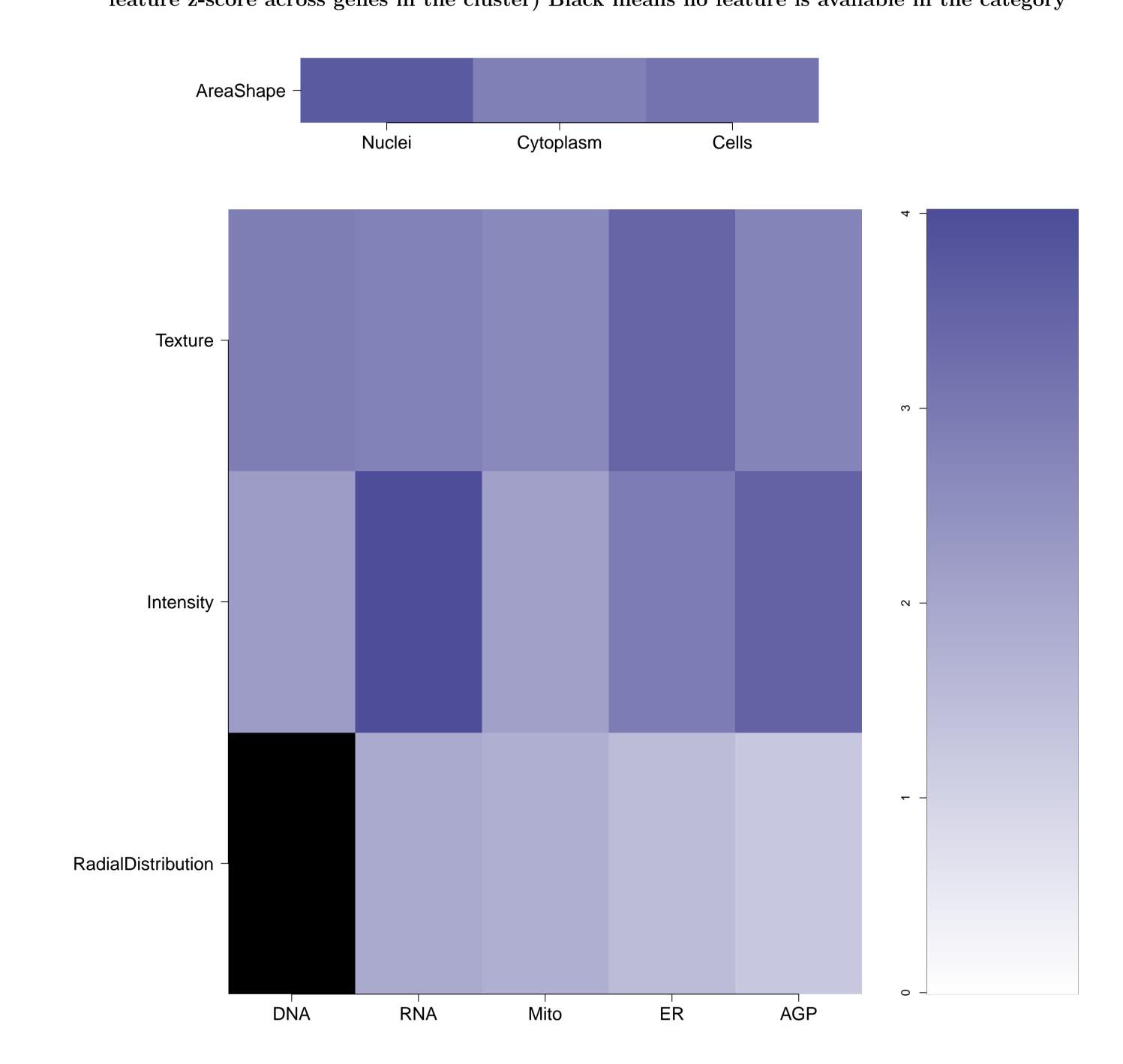
CONFIDENTIAL, contact the Imaging Platform to collaborate on the findings herein



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



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

replicates

correlation of the

compound signature

(95th DMSO

replicate correlation

is 0.52)

Chemical

structure

RNA

DNA

common names (where

available); blue/red colored

box means the matching

compound is

positively/negatively

correlated with the cluster

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

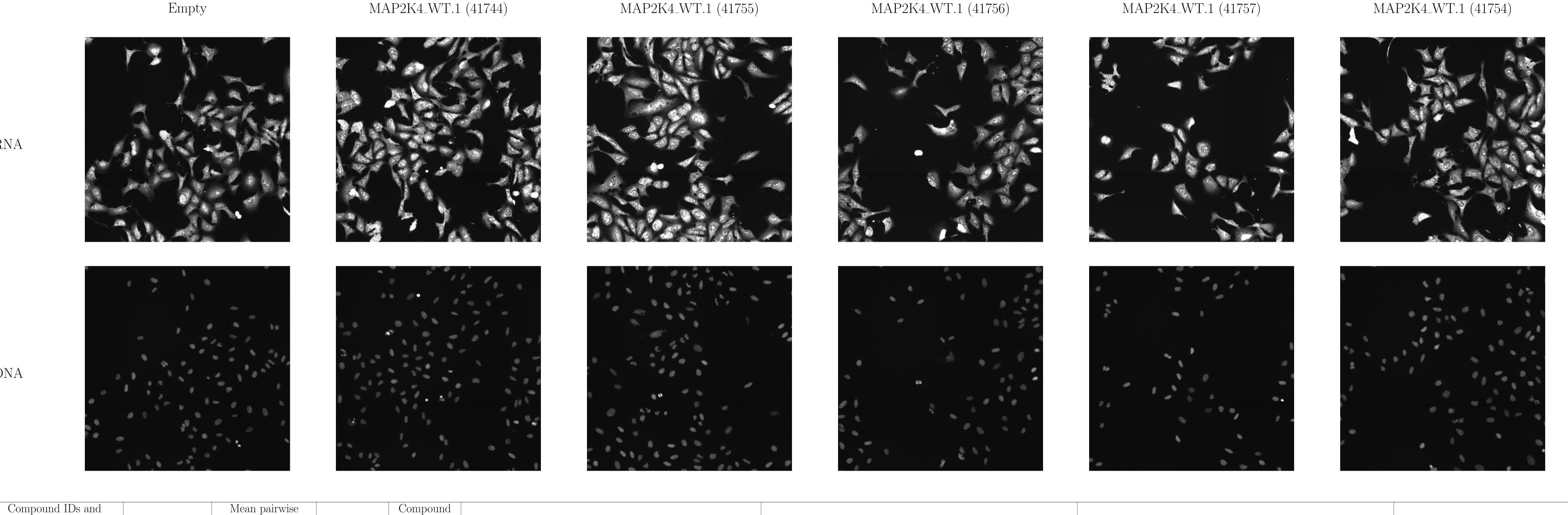
itemized

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

Cytoplasm Cytoplasm\_Intensity\_MinIntensityEdge\_AGP
Nuclei\_Texture\_SumVariance\_AGP\_3\_0 Texture -Cells\_RadialDistribution\_RadialCV\_ER\_10f4
Nuclei\_Texture\_InverseDifferenceMoment\_RNA\_3\_0 Nuclei\_Texture\_Contrast\_RNA\_3\_0 Cytoplasm\_Texture\_InfoMeas2\_DNA\_3\_0 BRD-K77953075-001-01-1 PubChem CID : 54646077 Total number of assays tested in: 41. NA (in 1 replicates) -0.60 0.954Intensity -Cells\_Intensity\_IntegratedIntensityEdge\_ER Nuclei\_Texture\_SumEntropy\_Mito\_5\_0 Cytoplasm\_Intensity\_IntegratedIntensityEdge\_RNA Nuclei\_Texture\_Gabor\_Mito\_5 Cytoplasm\_Texture\_Variance\_RNA\_3\_0

Nuclei\_Texture\_DifferenceVariance\_DNA\_3\_0
Cytoplasm\_AreaShape\_Zernike\_3\_1

Nuclei\_AreaShape\_Zernike\_6\_6 Cytoplasm\_AreaShape\_Zernike\_4\_2 RadialDistribution -ER