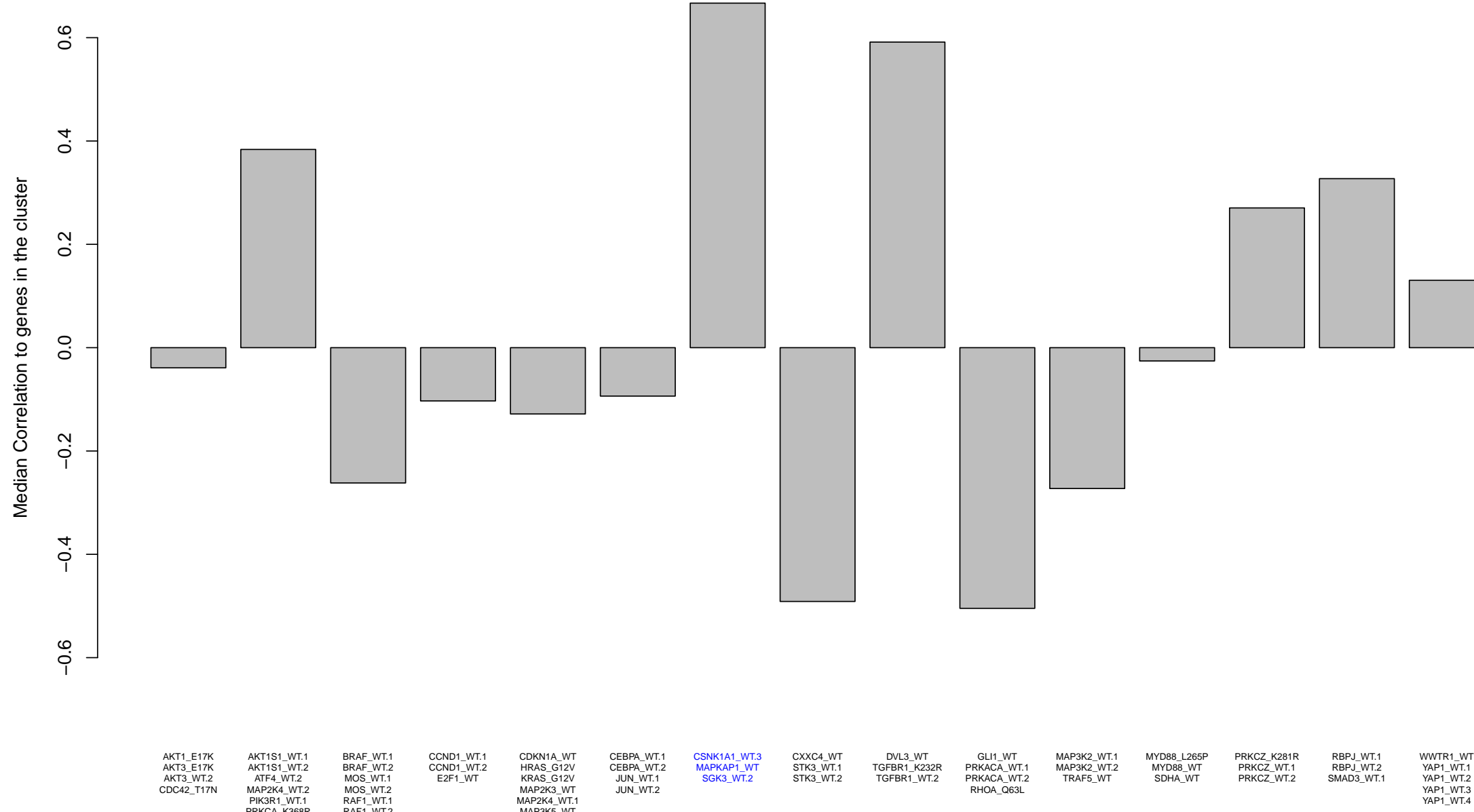


How similar is this cluster to the other clusters?

Genes in the cluster along with the pathways as annotated by experts

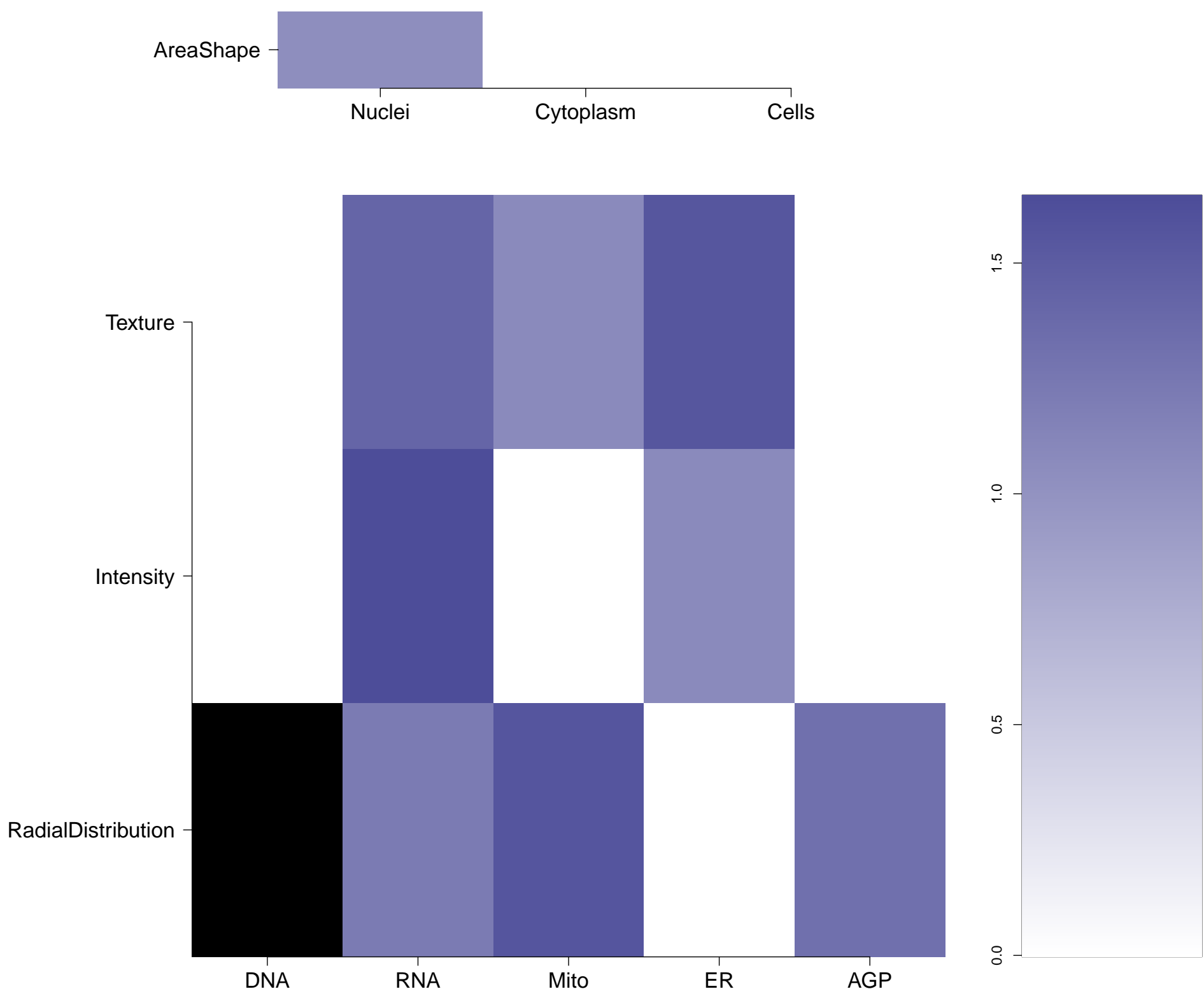
Expert Annotation		
Treatment	Pathway	Regulation Type
MAPKAP1.WT	Canonical TOR	Activator
SGK3.WT.2	Canonical TOR	Activator
CSNK1A1.WT.3	Canonical WNT	Inhibitor



Top 5 genes negatively correlated to the cluster

Expert Annotation			Mean Correlation	Standard Deviation
Treatment	Pathway	Regulation Type		
PRKACA.WT.2	Canonical PKA	Activator	-0.60	0.02
PRKACA.WT.1	Canonical PKA	Activator	-0.51	0.05
CXXC4.WT	WNT	Inhibitor	-0.50	0.12
STK3.WT.2	Canonical Hippo	Activator	-0.49	0.26
PIK3CB.WT.2	Canonical PI3K/AKT	Activator	-0.46	0.09

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



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



How strongly are genes within the cluster correlated?

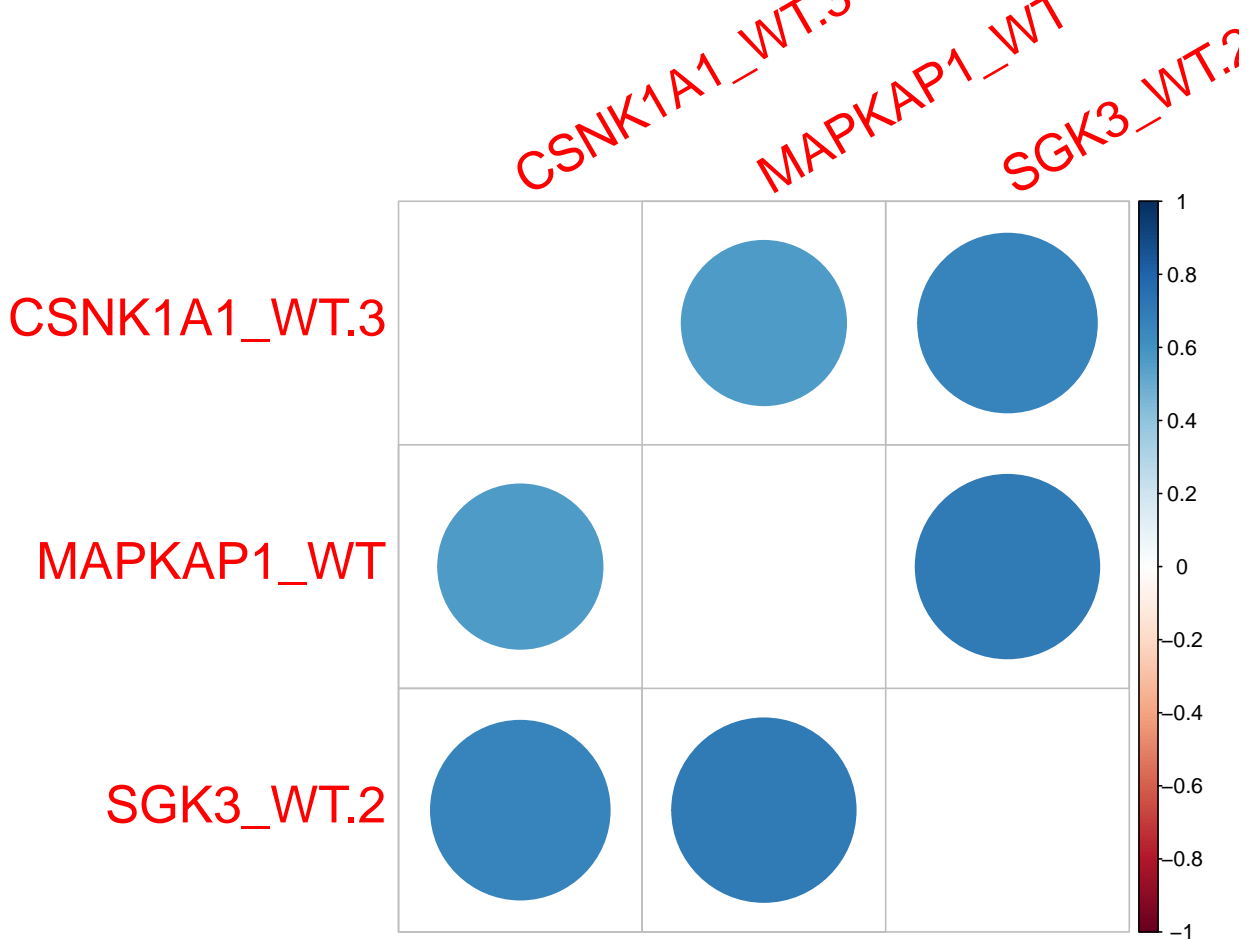


Plate : 41744 - Genes in the Cluster (Channels are sorted based on their dominance in the grid plot)

Empty

CSNK1A1.WT.3

MAPKAP1.WT

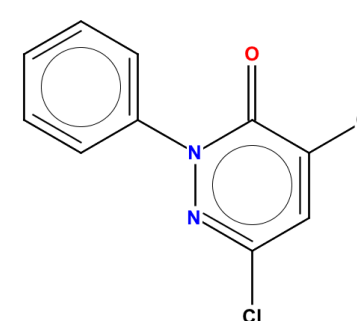
SGK3.WT.2

RNA

Mito

Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.54)	Mean \pm standard deviation correlation between compound and each gene in cluster; Tables contain data for individual genes	Mean compound rank when scored against genes in cluster using L1000 profiling \pm standard deviation; Tables contain data for individual genes	How similar is the compound signature to the gene clusters in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and genes in the cluster relative to the untreated samples	Distinguishing individual features for the compound relative to 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 cluster	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized
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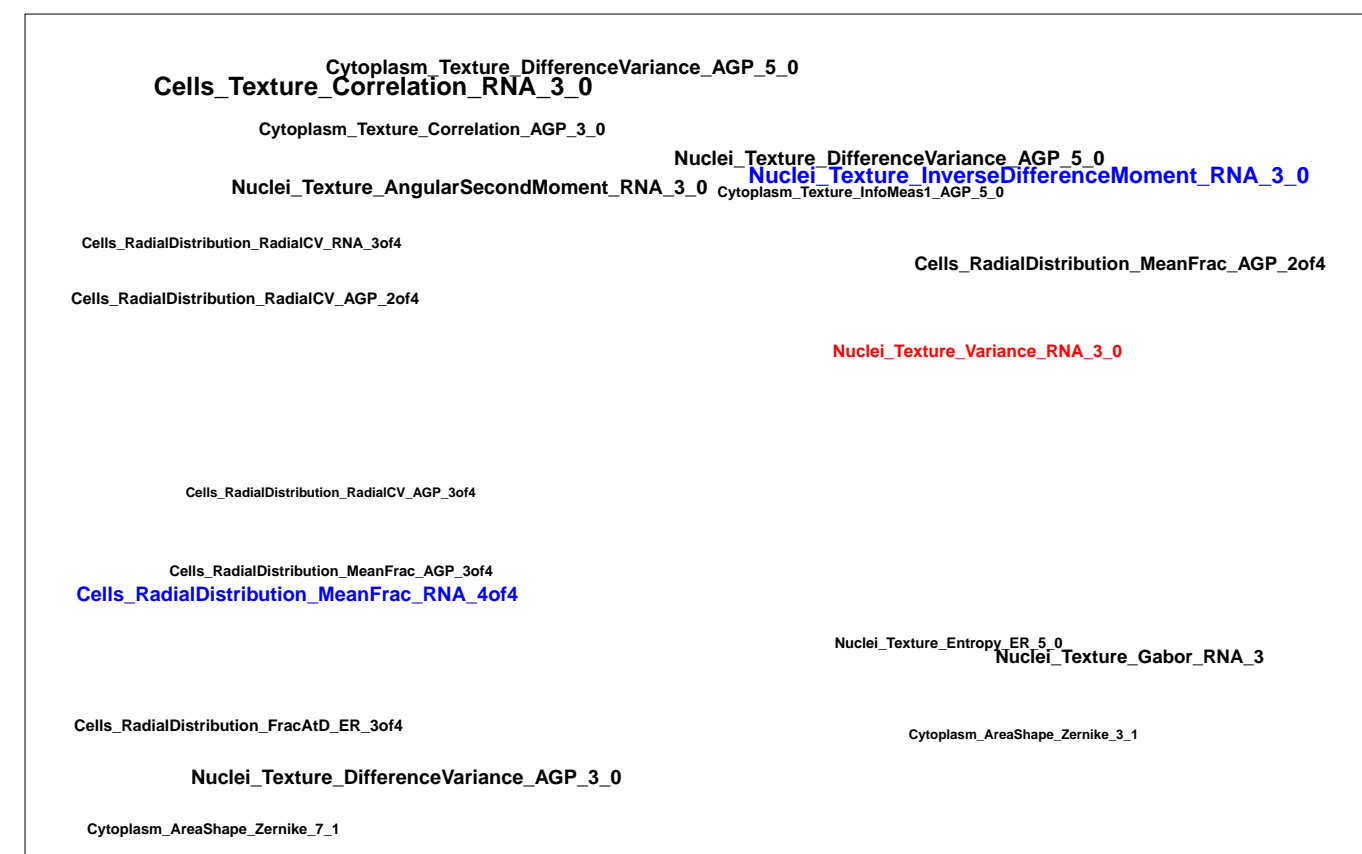
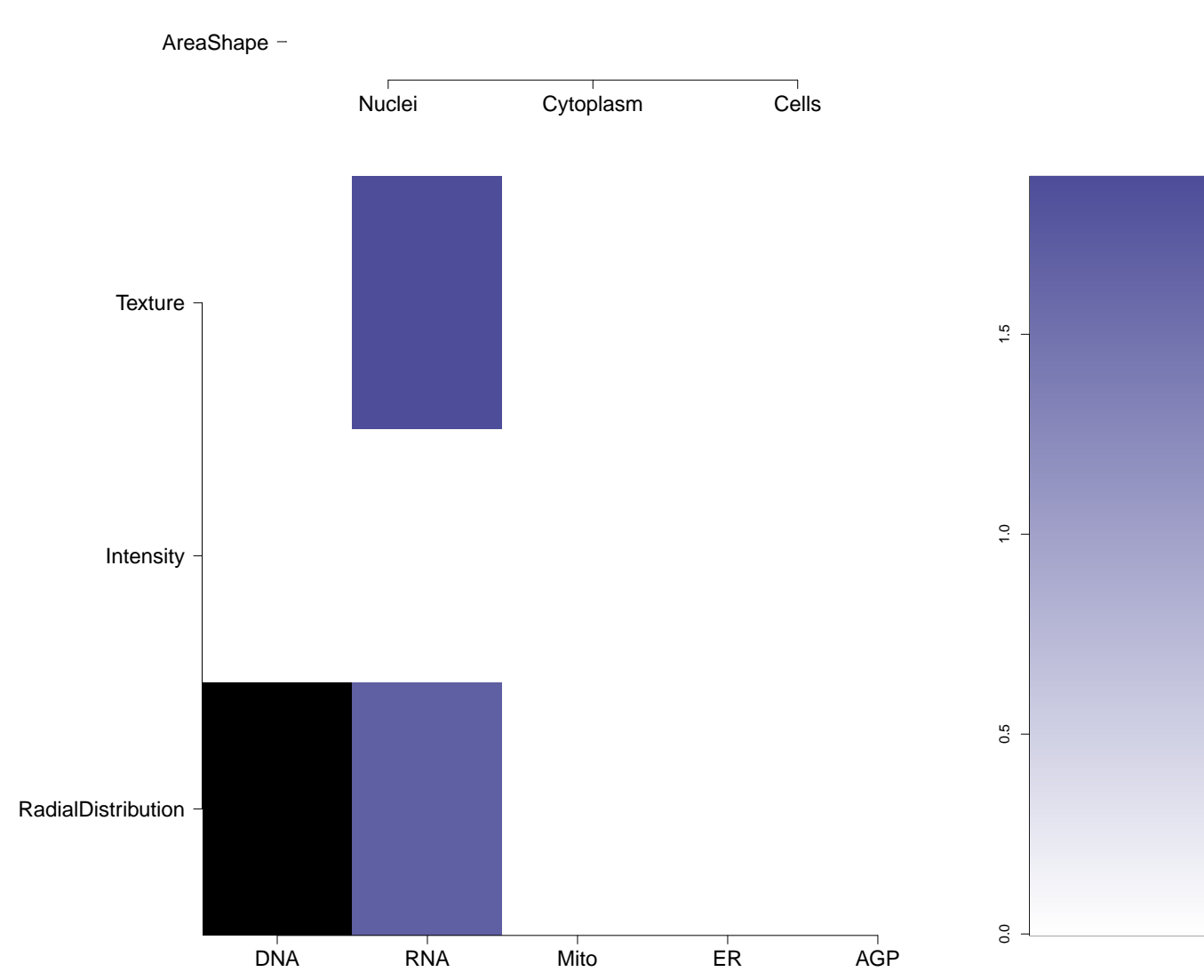
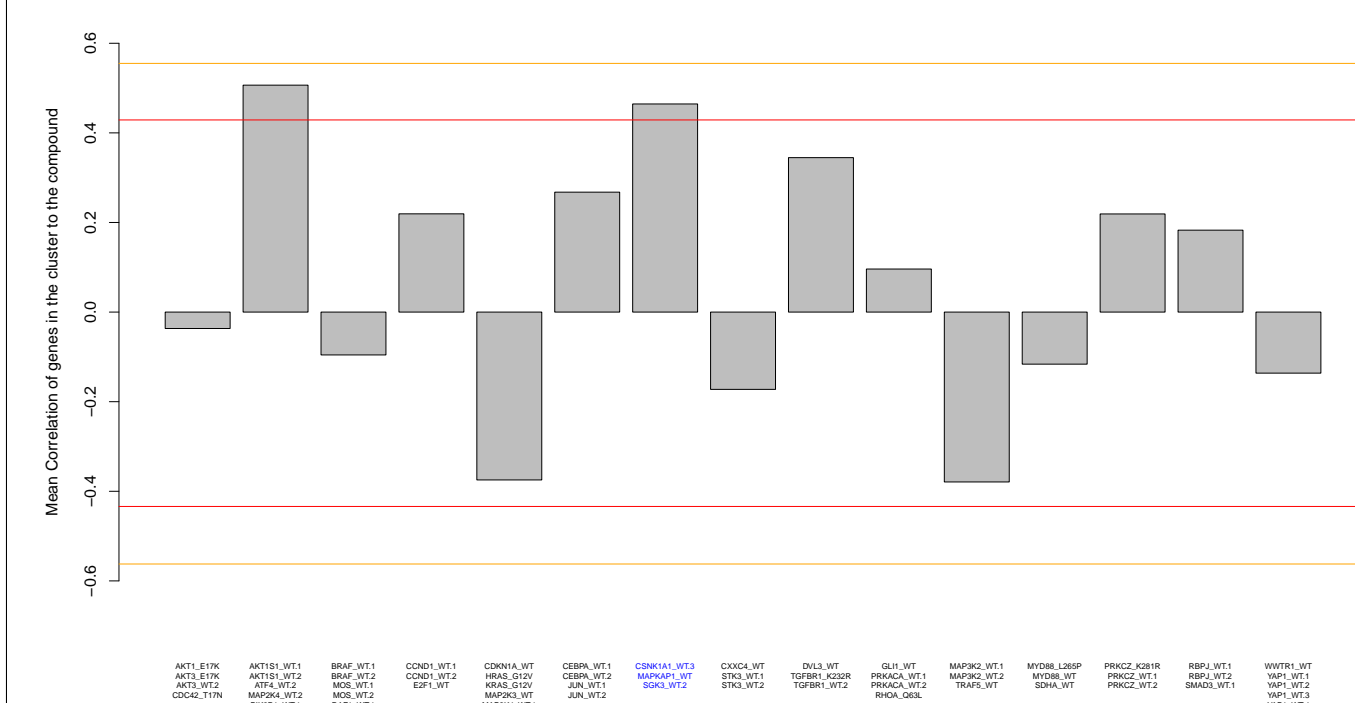
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ACILBONR
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HE199368
LS-192575
PubChem CID : 561606



NA (in 1 replicates)

Treatment	Score
CSNK1A1.WT.3	0.39
MAPKAP1.WT	0.37
SGK3.WT.2	0.63

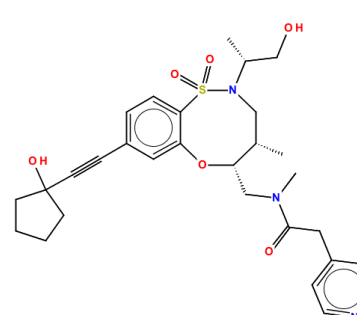
NA



Total number of assays tested in: 652. Active in the following assays:

- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta-Catenin Expression (AID 818)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827)
- qHTS Assay for Inhibitors of Adenosine Diphosphatase 1 (ALDH1A1) (AID 1039)
- Leishmanium major promastigote HTS (AID 1063)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1387)
- qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688)
- qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
- Luminescence Cell-Based Dose Retest to Identify Inhibitors of Heat Shock Factor 1 (HSF1) (AID 45504)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 46316)
- Concentration-Response Confirmation Assays for HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules (AID 46316)
- HTS-Luminescent assay for inhibitors of ALP by detection of hydrogen peroxide production. Measured in Biochemical System Using Plate Reader - 2036-02 Inhibitor-SinglePoint.HTS Activity (AID 48317)
- qHTS for Identification of Inhibitors of Akt/IKK interaction in luminescent format. (AID 48346)
- qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 50447)
- Confirmation screen for delayed death in inhibitors of the malarial parasite plasmod, 96 hour incubation (AID 50484)
- Confirmation screen for delayed death in inhibitors of the malarial parasite plasmod, 48 hour incubation (AID 50495)
- qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276)
- qHTS Assay for Inhibitors of Mammalian Senescence Protein Thioesterase Reductase 1 (TrxR1) (AID 588453)
- qHTS for Inhibitors of TGF-beta: Cytosolic Mesenteric (AID 58856)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 621296)
- qHTS for Inhibitors of ATXN expression (AID 651635)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS transcriptional activity Measured in Cell-Based System Using Plate Reader 701-041 Inhibitor SinglePoint.HTS Activity (AID 651661)
- qHTS of TDP-43 Inhibitors (AID 652104)
- qHTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-1 cells Measured in Cell-Based System Using Plate Reader - 705-041 Inhibitor-SinglePoint.HTS Activity (AID 652154)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS transcriptional activity Measured in Cell-Based System Using Plate Reader 701-041 Inhibitor Dose.CherryPick Activity (AID 686920)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)
- Luminescence cell-based Retest at Dose assay to determine EWS/Fl1 dependent TC71 mammalian cell cytotoxicity Measured in Cell-Based System Using Plate Reader 701-041 Inhibitor Dose.CherryPick Activity (AID 720570)
- Luminescence cell-based Retest at Dose assay to determine EWS/Fl1 dependent A673 mammalian cell cytotoxicity Measured in Cell-Based System Using Plate Reader 701-043 Inhibitor Dose.CherryPick Activity (AID 720587)
- HEK293 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 707-01 Inhibitor Dose.CherryPick.Activity.Set3 (AID 720588)
- qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 720589)
- High Throughput Screening for Foot and Mouth Disease Virus Antisera (AID 1159284)

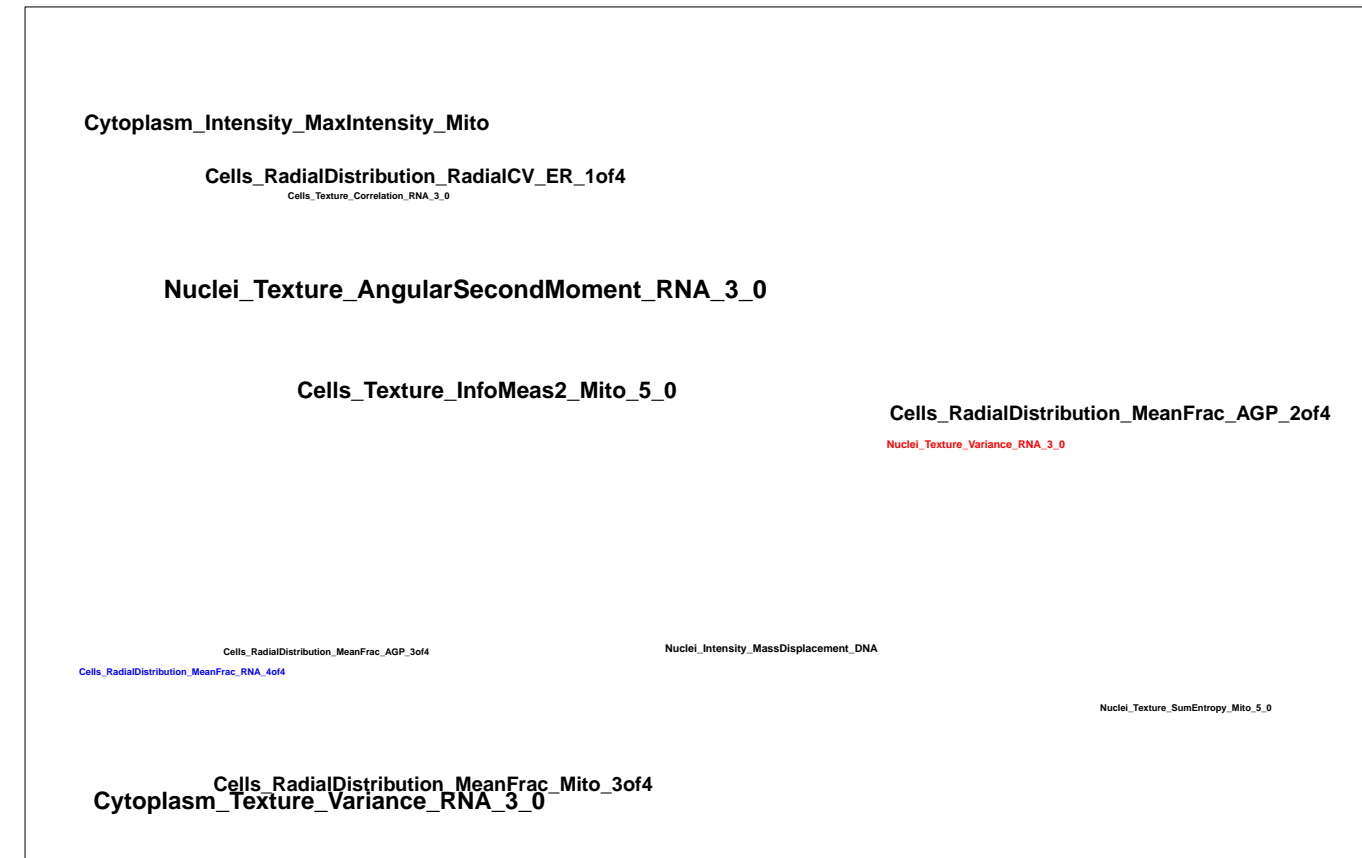
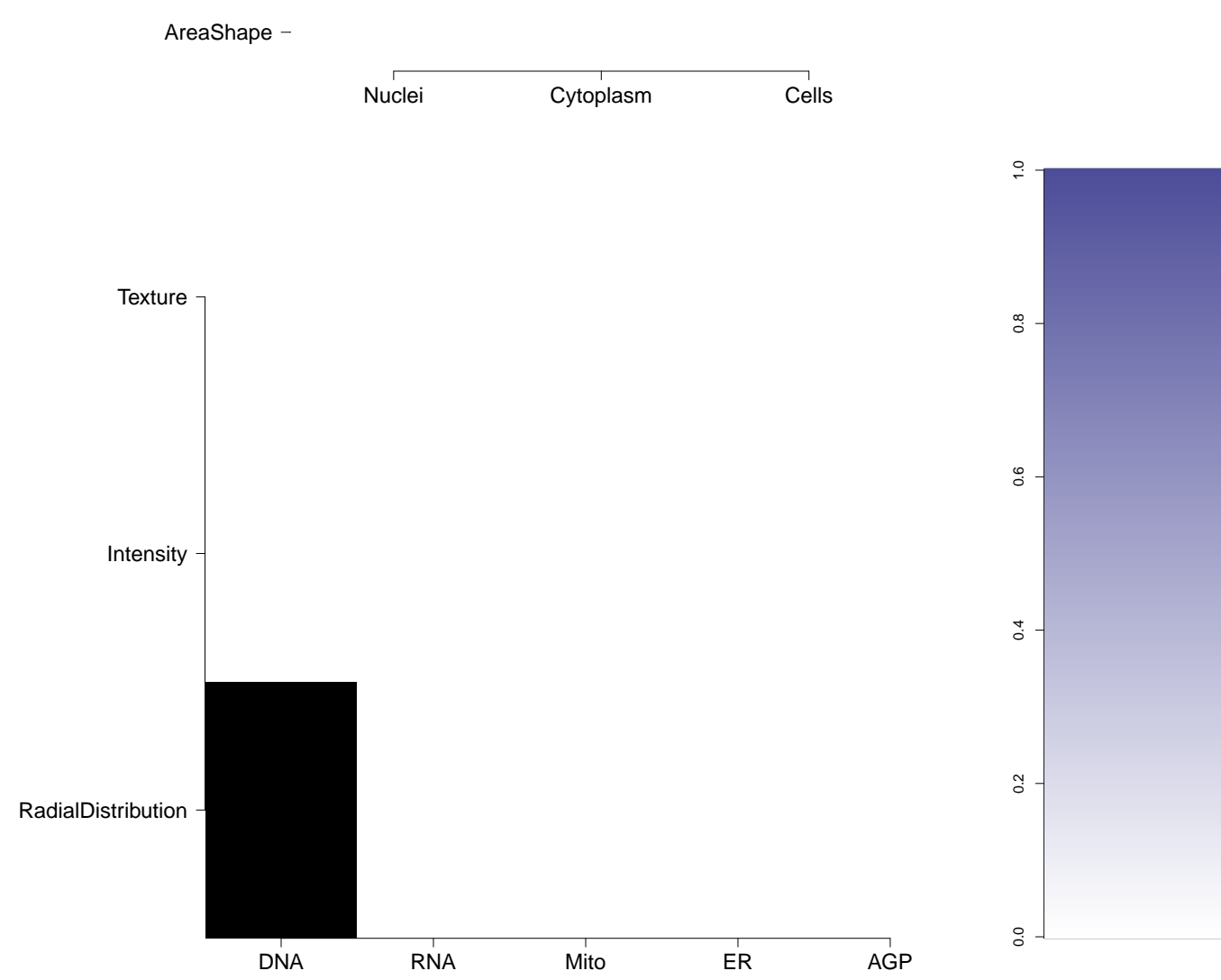
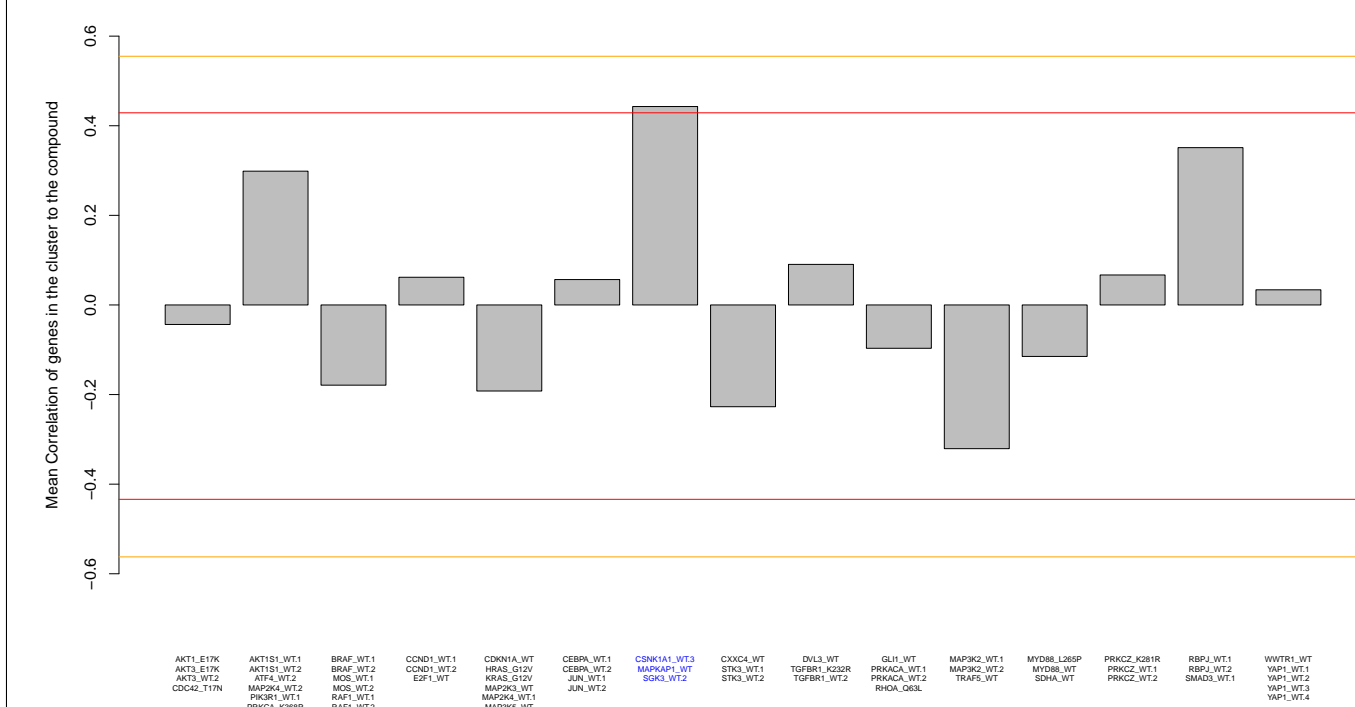
BRD-K02630067-001-01-5
PubChem CID : 54619891



0.66 (in 4 replicates)

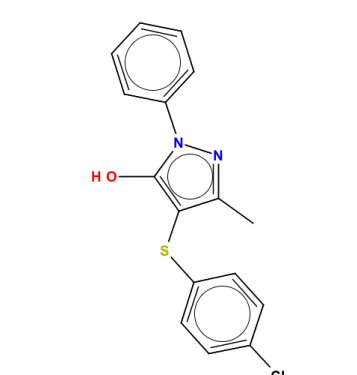
Treatment	Score
CNNK1A1.WT.3	0.40
MAPKAP1.WT	0.41
SGK3.WT.2	0.52

NA



Total number of assays tested in: 37.

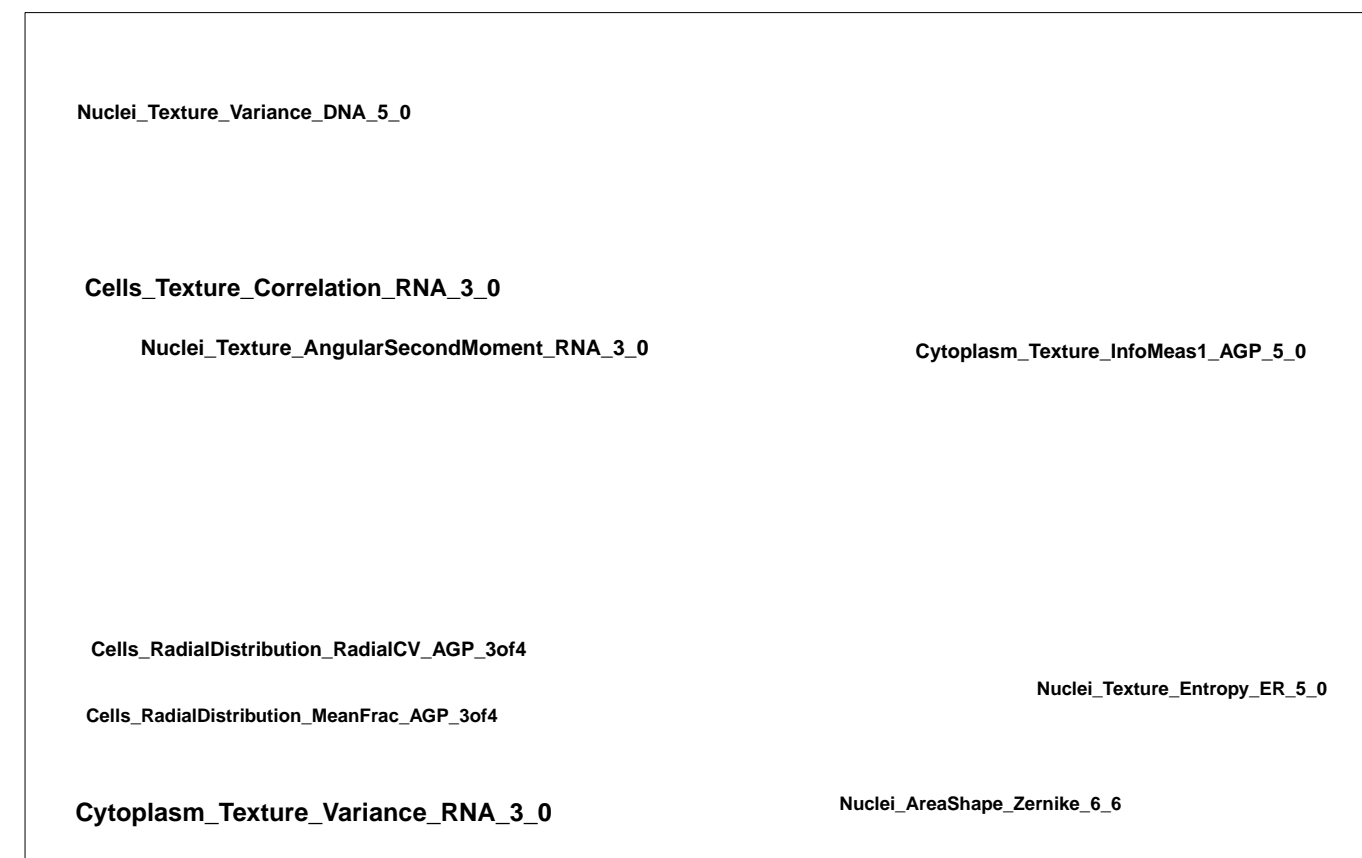
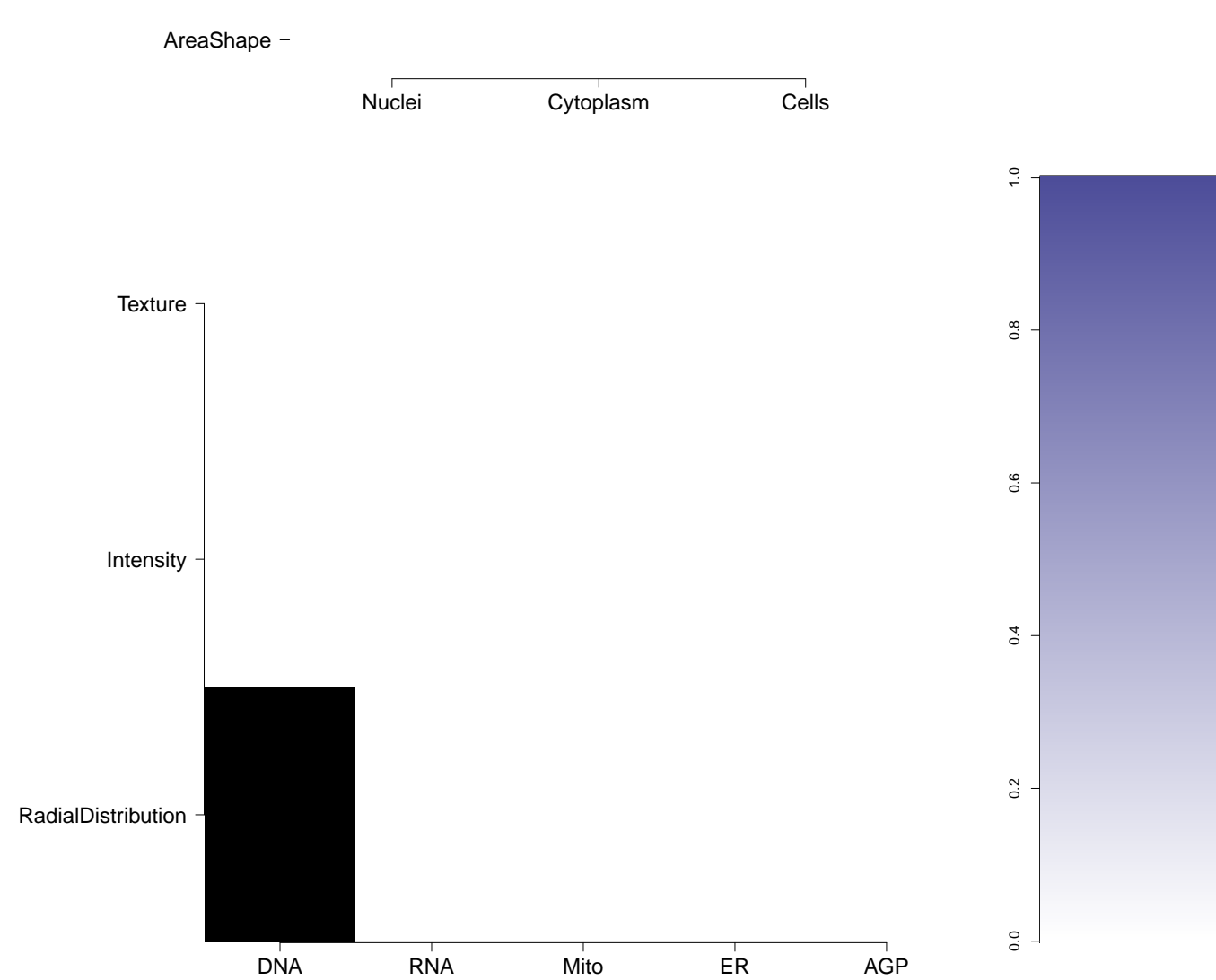
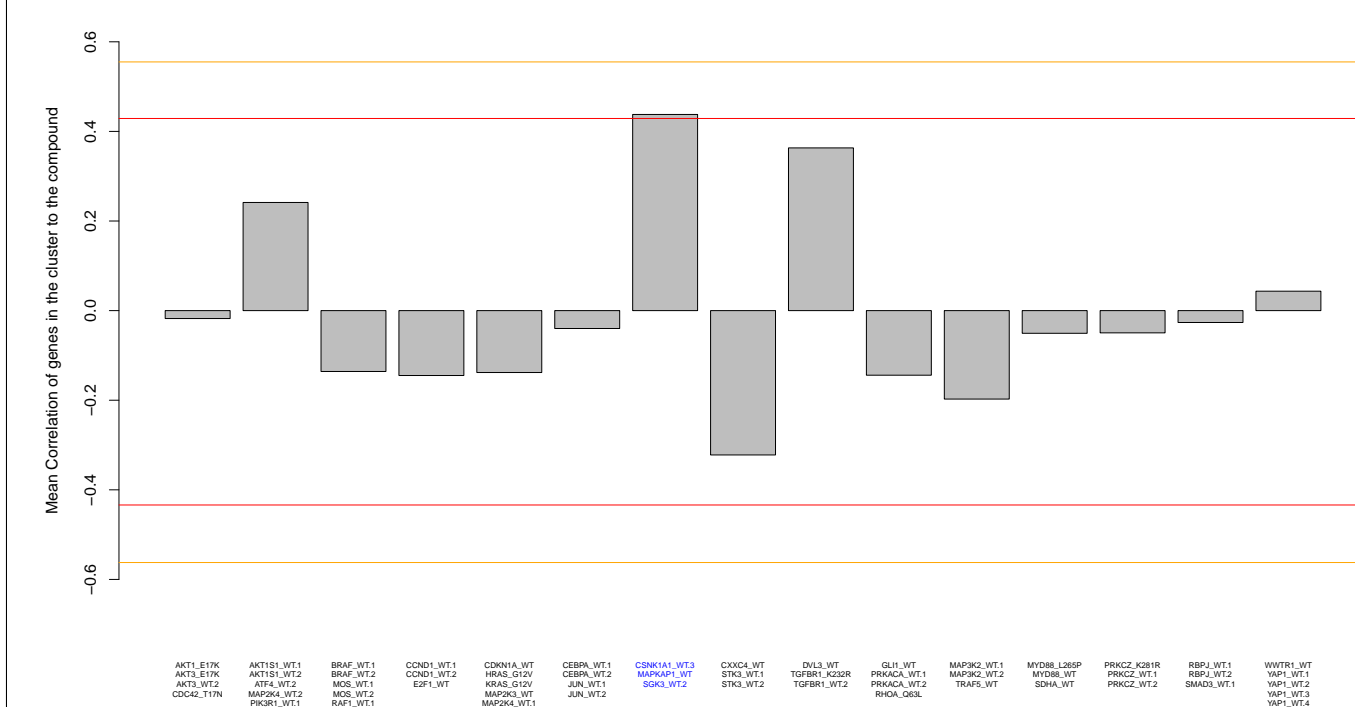
BRD-K05950645-001-07-2
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BDBM48497
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HMS2379O21
IDI1 022358
F1386-0259
T0500-8534
PubChem CID : 828338



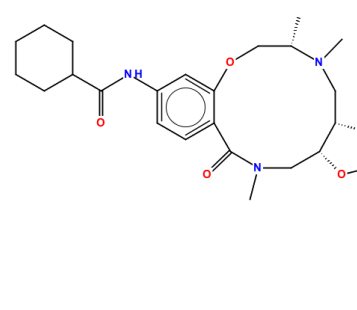
NA (in 1 replicates)

Treatment	Score
CSNK1A1.WT.3	0.32
MAPKAP1.WT	0.41
SGK3.WT.2	0.55

NA



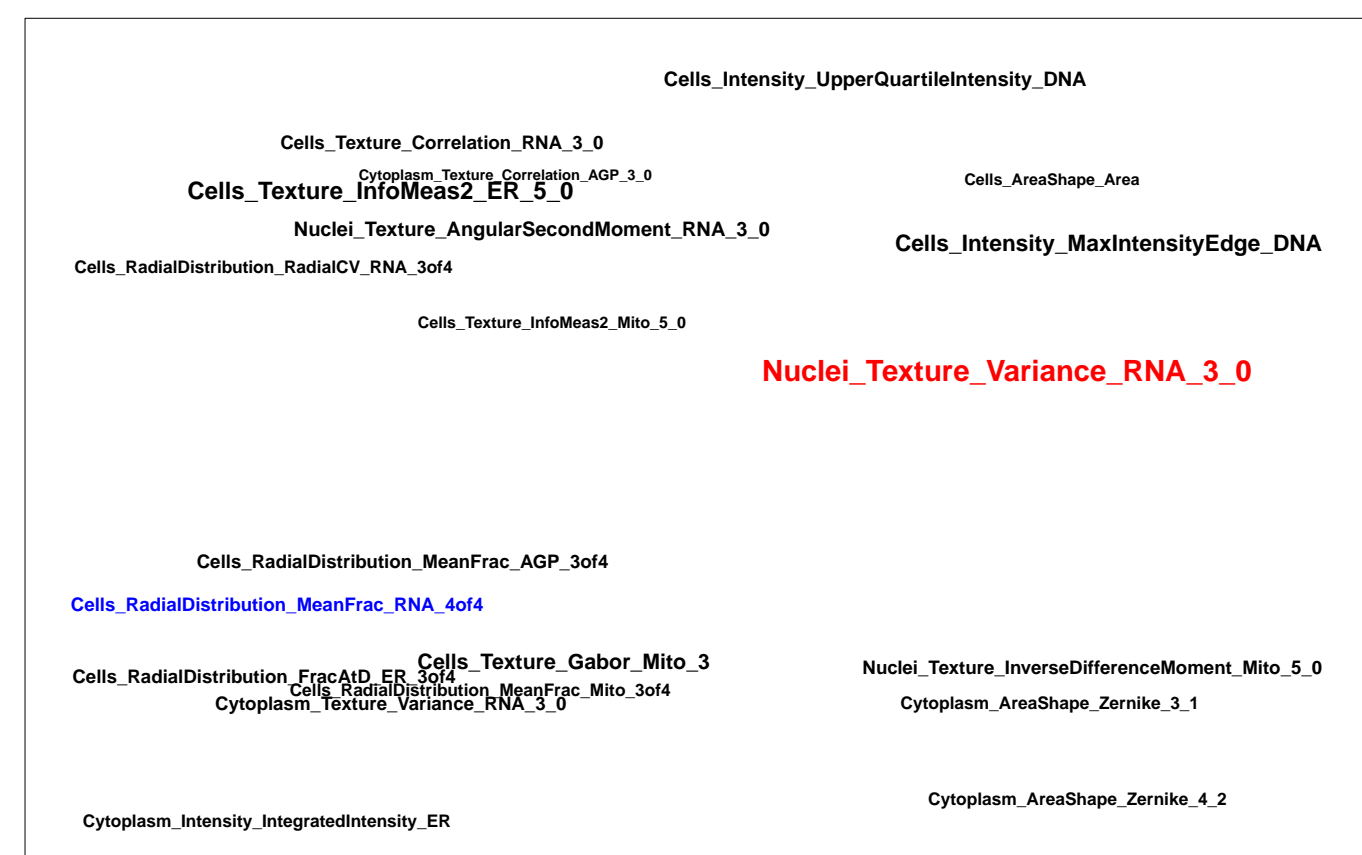
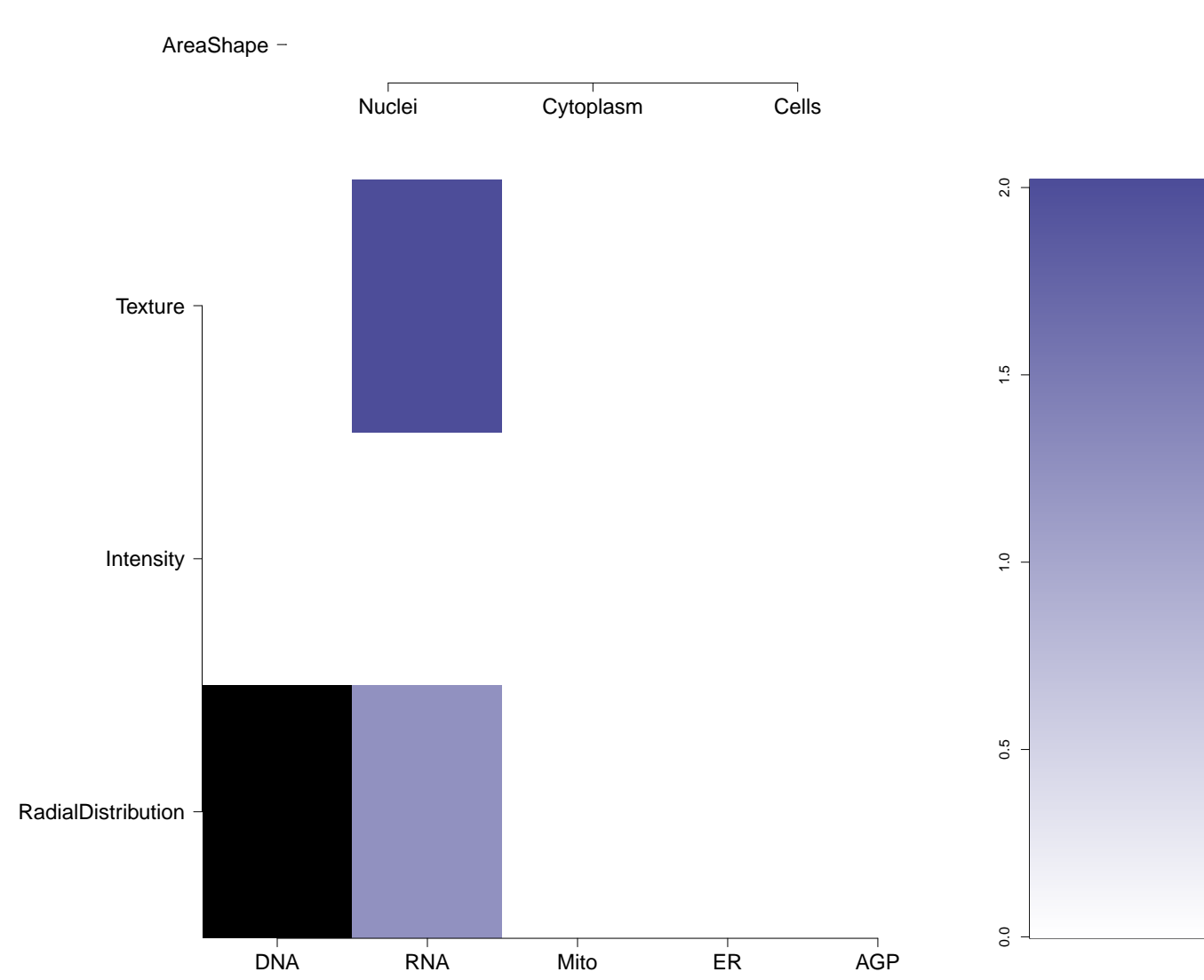
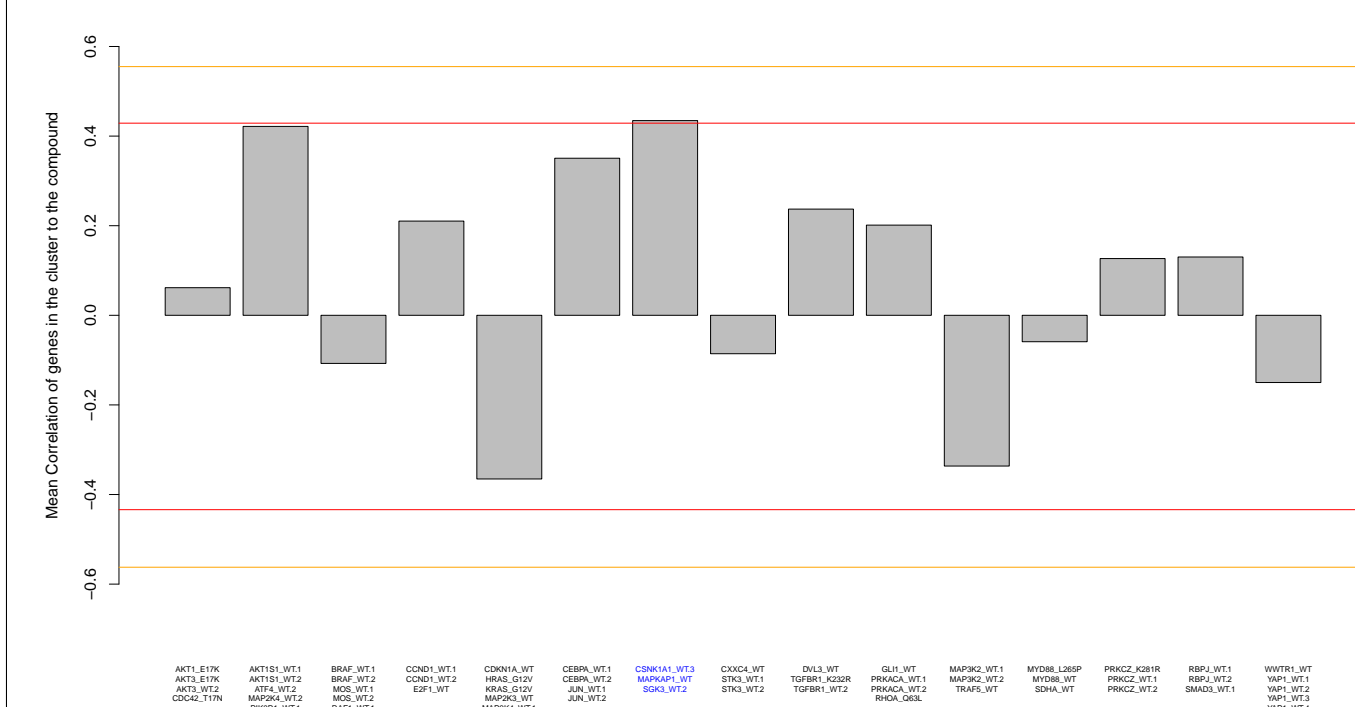
701. Total number of assays tested in:
 - HTS for Estrogen Receptor-beta Coactivator Binding Inhibitors (AID 633)
 - Screening for Modulators of Post-Golgi Transport, Control Screen (AID 738)
 - CYP2C9 Assay (AID 777)
 - CYP2C19 Assay (AID 778)
 - Inhibitors of Plasmodium falciparum M17 Family Leucine Aminopeptidase (MTLPA) (AID 1619)
 - Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of RecA-Intein Splicing Activity (AID 2221)
 - Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968)
 - Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010)
 - Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaE-Intein Splicing Activity (AID 435970)
 - Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Intein Splicing Activity (AID 435970)

BRD-K11696795-001-01-4
PubChem CID : 54634120

0.67 (in 3 replicates)

Treatment	Score
CSNK1A1.WT.3	0.29
MAPKAP1.WT	0.41
SGK3.WT.2	0.61

Treatment	Score
CSNK1A1.WT.3	0.762
MAPKAP1.WT	0.321
SGK3.WT.2	0.256



Total number of assays tested in: 37.