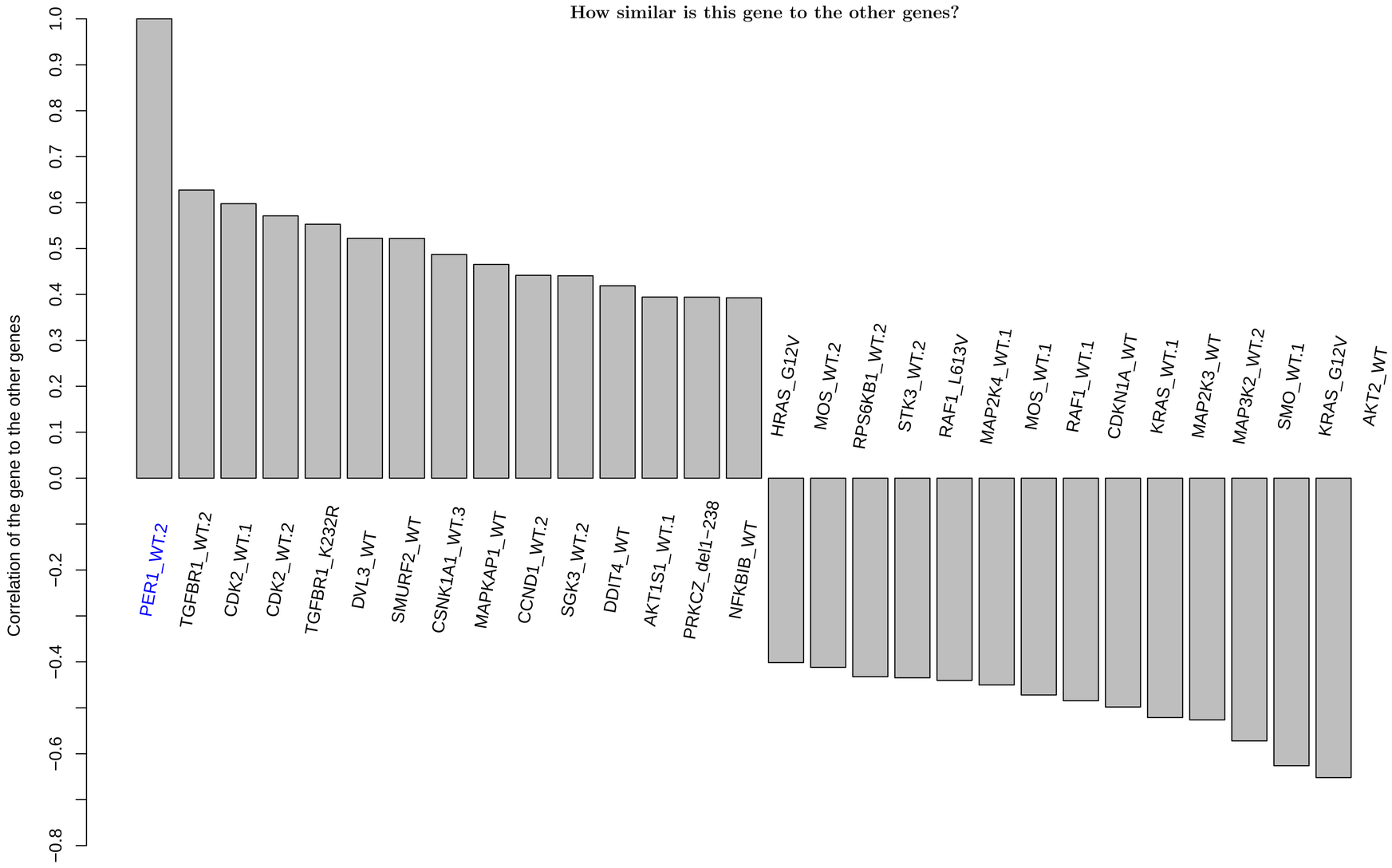
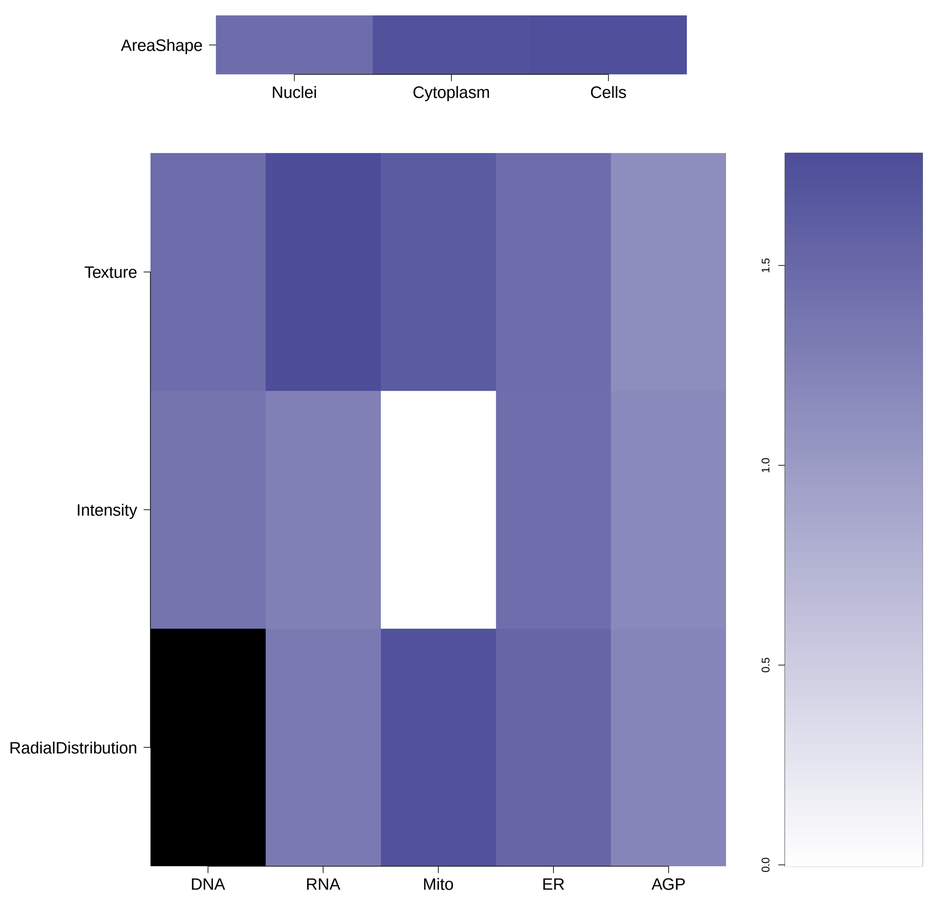
PER1_WT.2 - in Circadian Rhythm

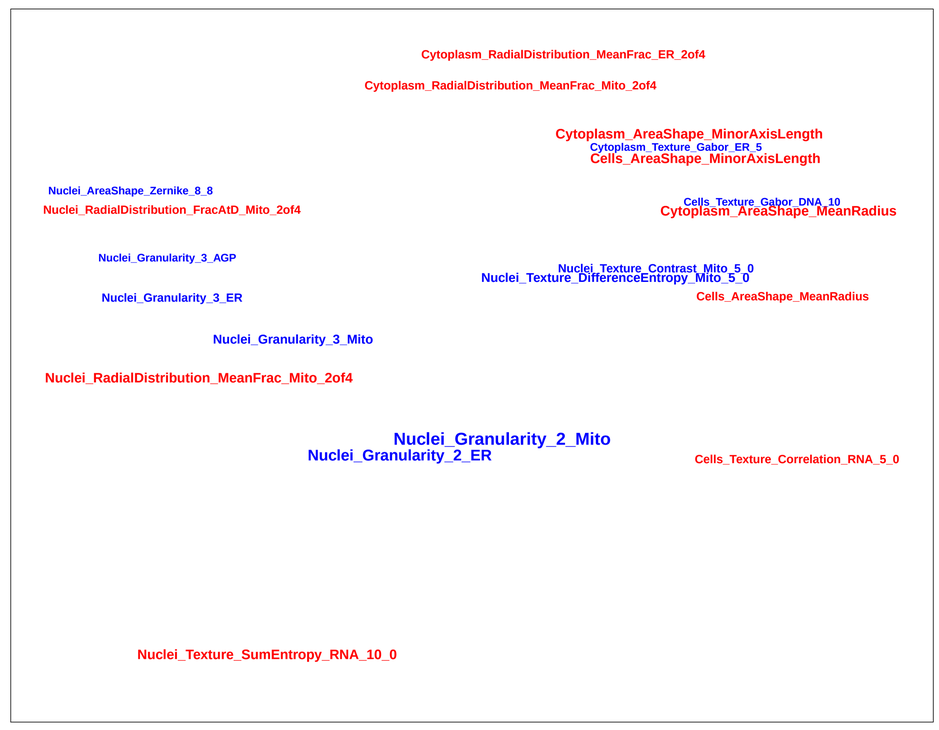
How similar is this gene to the other genes?



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

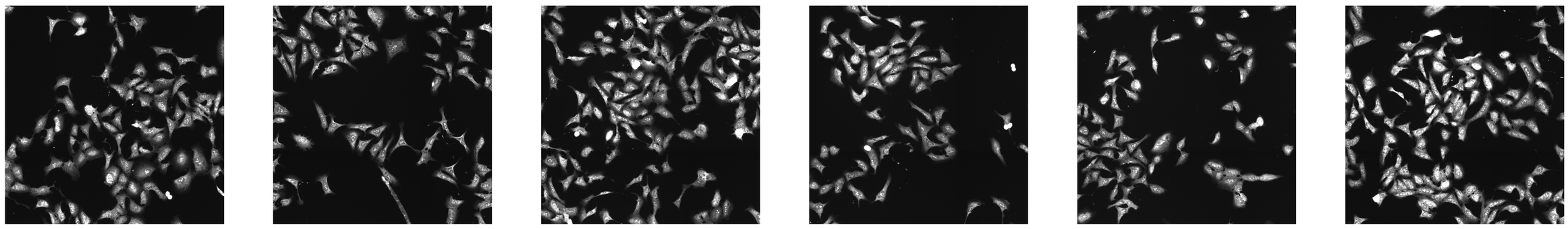


Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

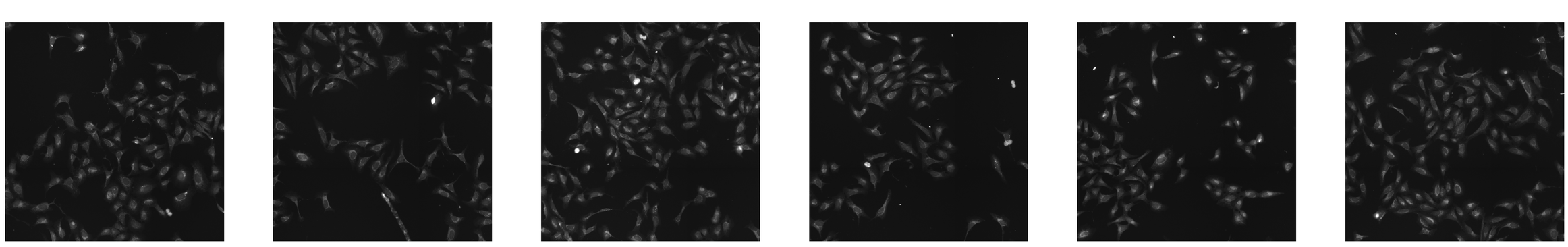


Empty | PER1_WT.2 (41744) | PER1_WT.2 (41755) | PER1_WT.2 (41756) | PER1_WT.2 (41757) | PER1_WT.2 (41754)

RNA

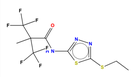


Mito



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 0.52)	Correlation between compound the gene	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)	Common distinguishing feature categories in the compound and the gene 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	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized

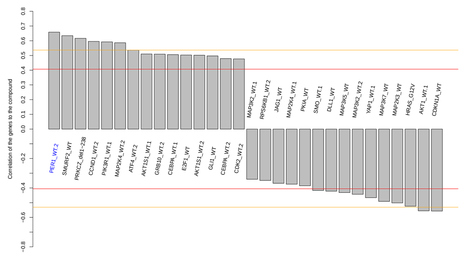
BRD-K22606571-001-05-1
ZINC02277811
AC1LCZ96
MLS000079219
HMS2426D20
ZINC2277811
STK759250
SMR000035371
ST049350
PubChem CID : 658691

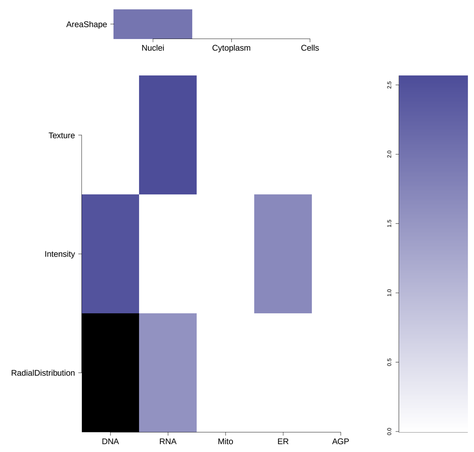


NA (in 1 replicates)

0.66

NA

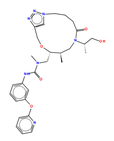




Total number of assays tested in: 760. Active in the following assays:

- Human A549 Lung Tumor Cell Growth Inhibition Assay (AID 371)
- CYP2C9 Assay (AID 777)
- qHTS Assay for Identification of Small Molecule Antagonists for Hypoxia Response Element Signaling Pathway (AID 915)
- Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1441)
- Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions. (AID 1504)
- qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688)
- Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975)
- Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 493221)
- Nrf2 qHTS screen for inhibitors (AID 504444)
- Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840)
- Dose responses of compounds that inhibit the Choline Transporter (CHT) - 10 point CRC (AID 588401)
- A Quantitative High throughput Screen to Identify Chemical Modulators of PINK1 Expression (AID 624263)
- qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288)
- Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483)
- 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)
- Confirmed inhibitors of the Choline Transporter (CHT) (AID 1053196)

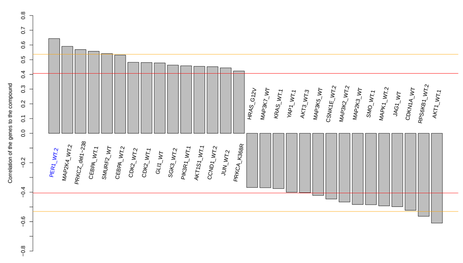
BRD-K04749191-001-02-8
MLS003129104
SMR001833550
PubChem CID : 44486960

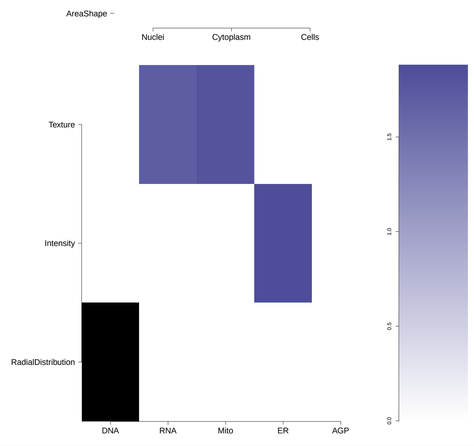


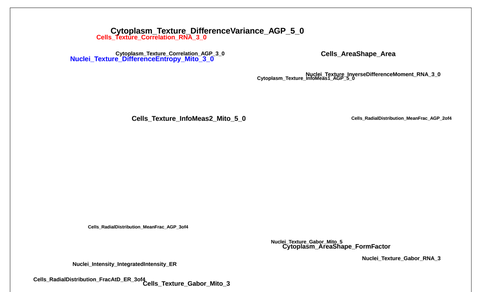
0.88 (in 3 replicates)

0.64

0.372

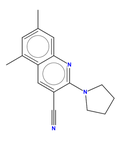






Total number of assays tested in: 88.

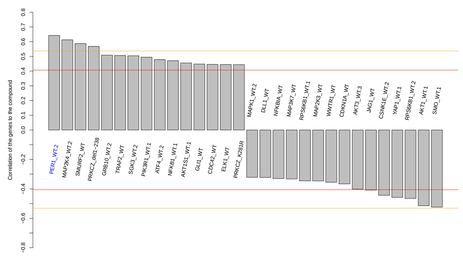
BRD-K84605058-001-04-3
MLS000033109
AC1LDJ3I
HMS2344C20
ZINC19801439
ASN 05814881
SMR000005593
PubChem CID : 648892

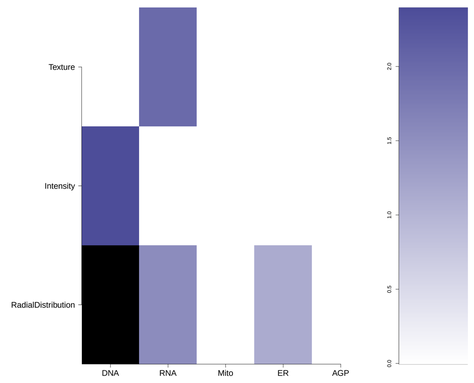


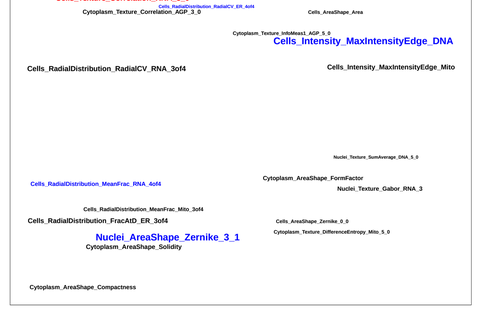
NA (in 1 replicates)

0.64

NA



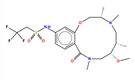




Total number of assays tested in: 757. Active in the following assays:

- qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589)
- qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590)
- HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629)
- Cell signaling CRE-BLA (Fsk stim) (AID 662)
- Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709)
- Non-Nucleoside Inhibitor of Measles Virus RNA-Dependent RNA Polymerase Complex Activity HTS Single Point (MLSMR Library) (AID 841)
- qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)
- Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456)
- qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)
- uHTS identification of SKN-1 Inhibitors in a fluoresence assay (AID 624304)
- qHTS Assay for Activators of ClpP (AID 651965)

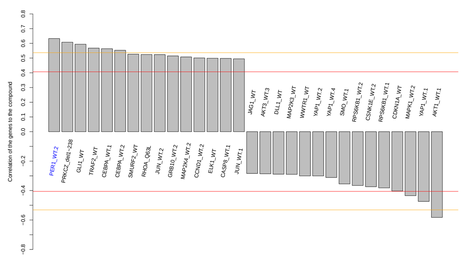
BRD-K54881917-001-01-3
PubChem CID : 54632606

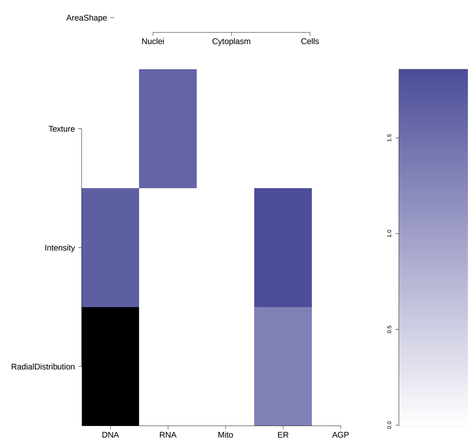


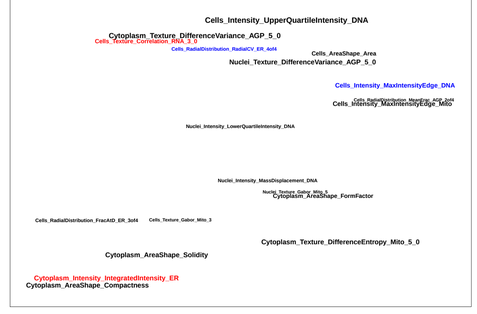
0.74 (in 4 replicates)

0.63

0.650

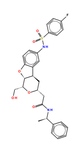






Total number of assays tested in: 35.

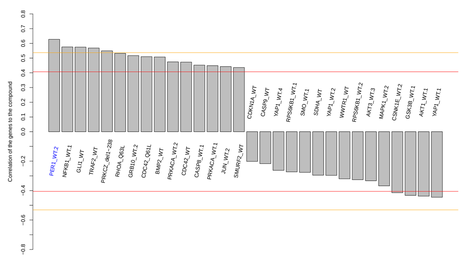
BRD-K19108281-001-01-3
PubChem CID : 54645936

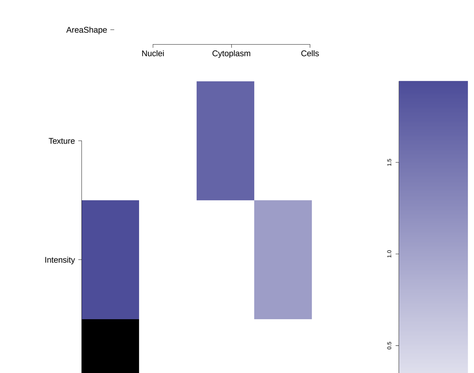


NA (in 1 replicates)

0.63

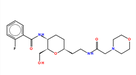
0.260





Total number of assays tested in: 43.

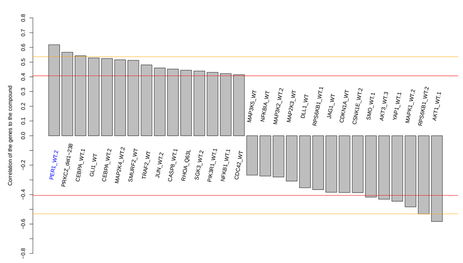
BRD-K68732617-001-01-5
PubChem CID : 54640466

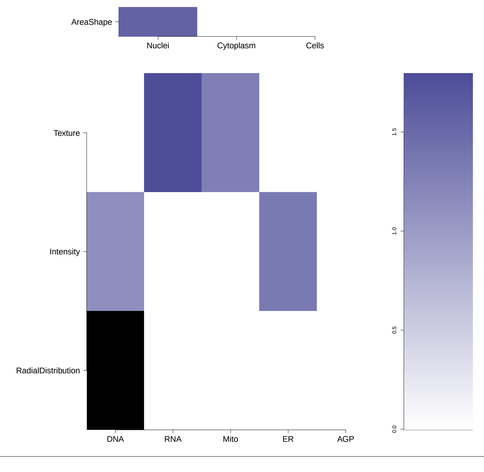


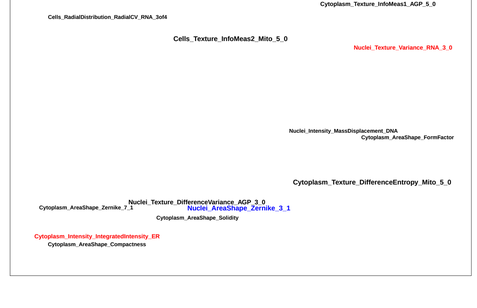
0.90 (in 4 replicates)

0.62

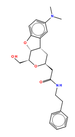
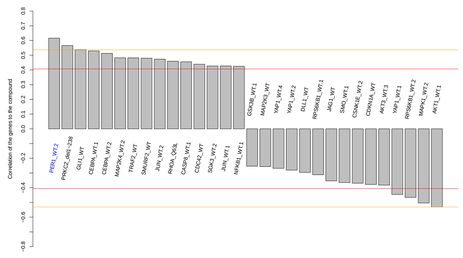
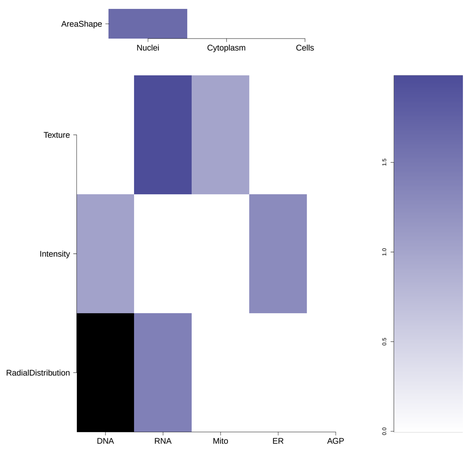
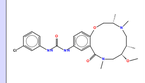
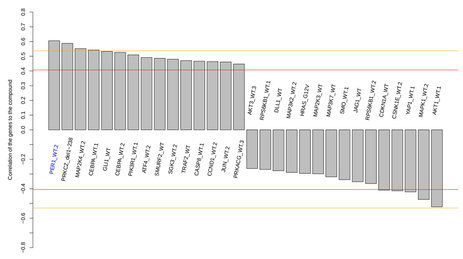
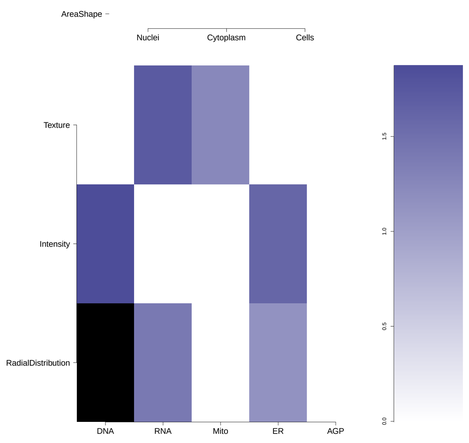
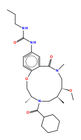
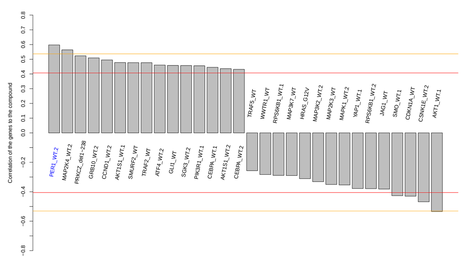
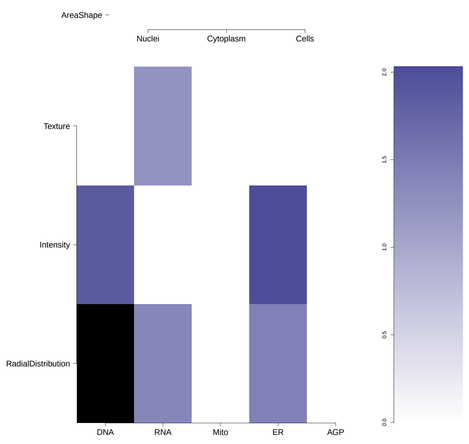
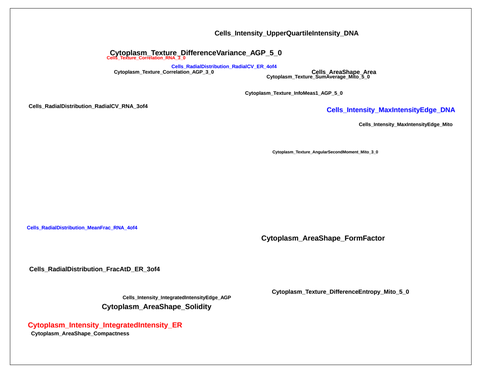
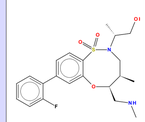
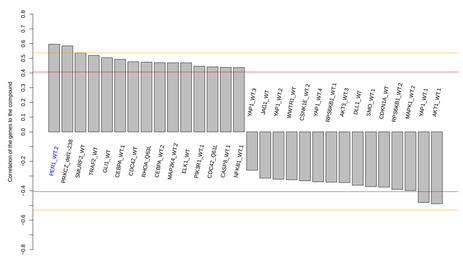
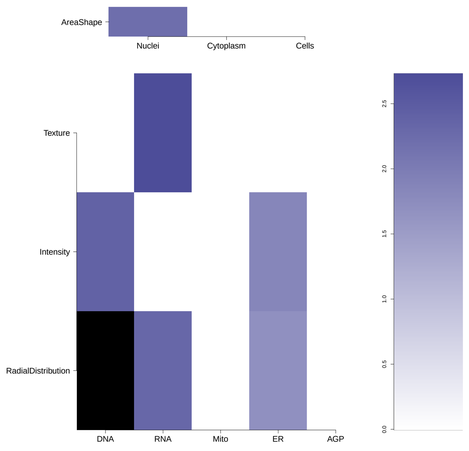
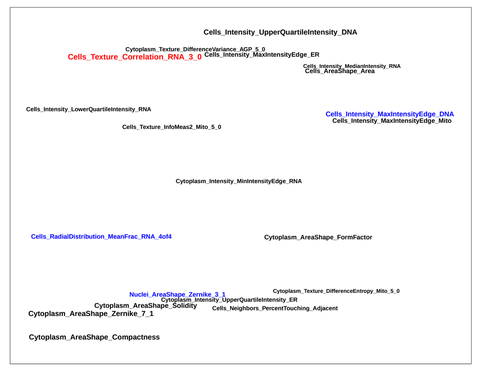
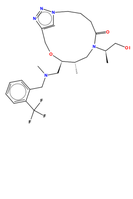
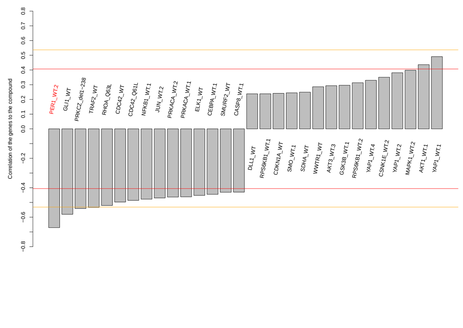
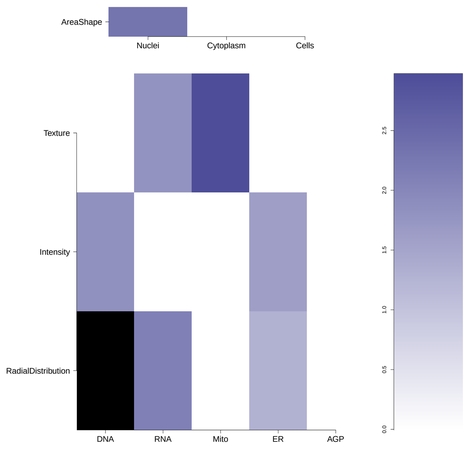
0.888

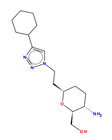
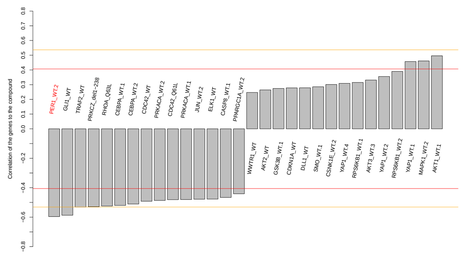
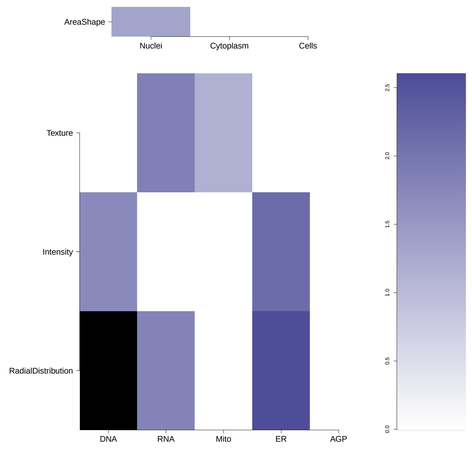
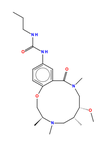
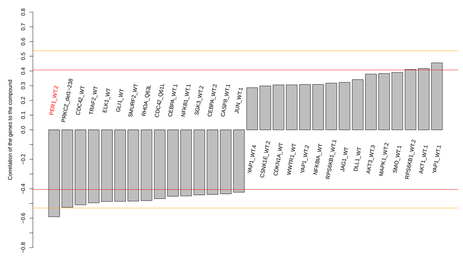
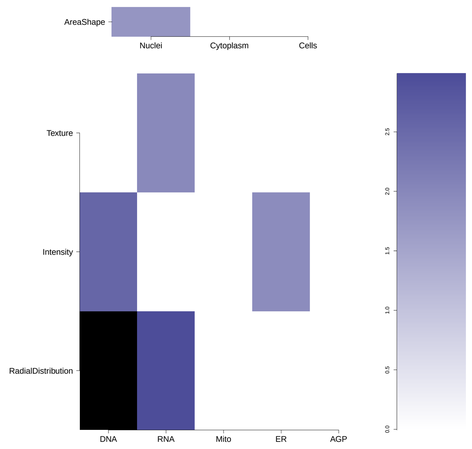
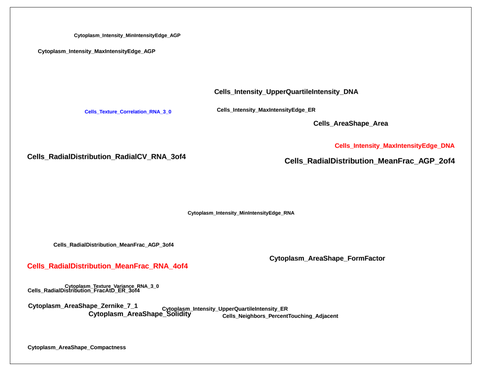
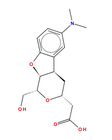
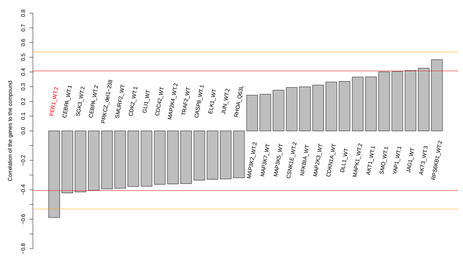
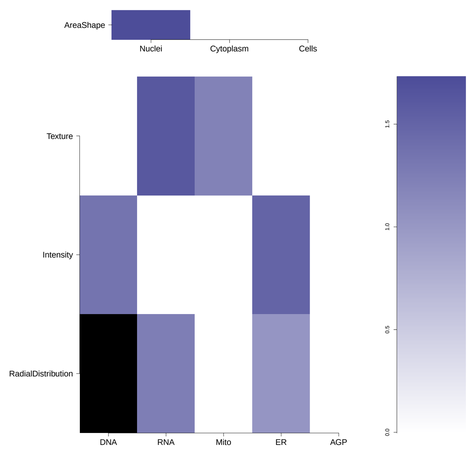
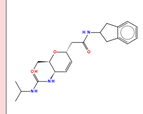
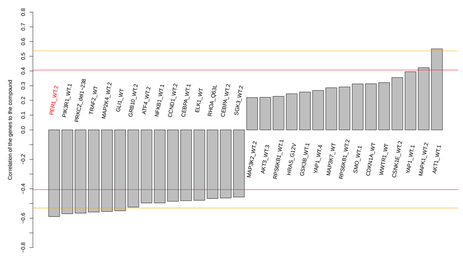
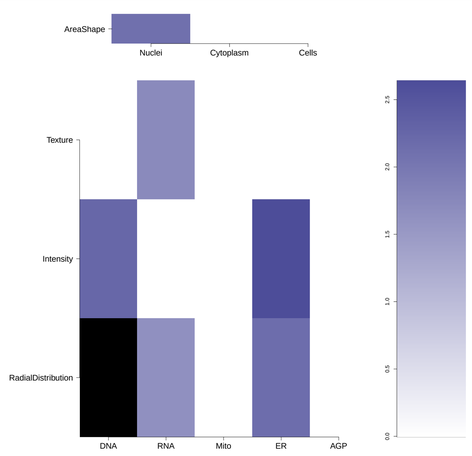
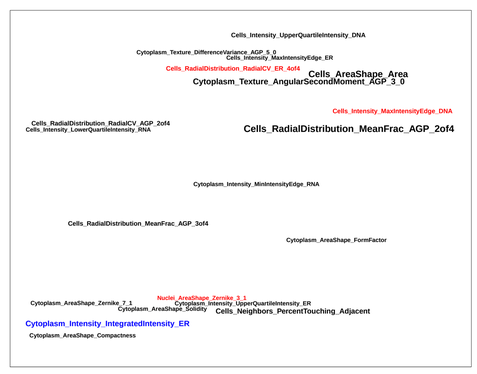
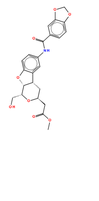
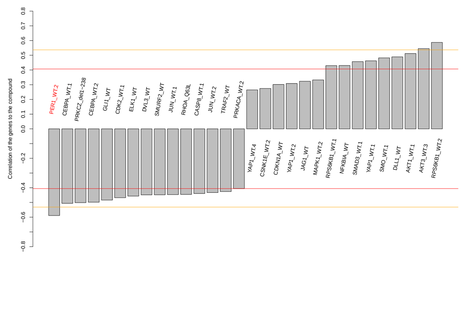
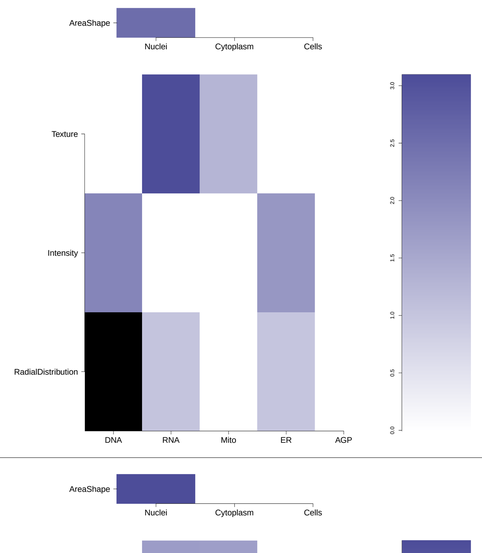
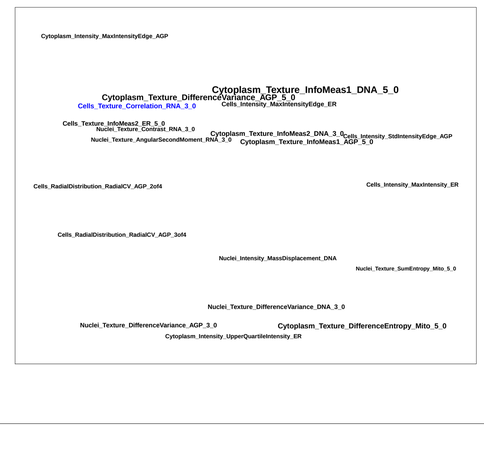
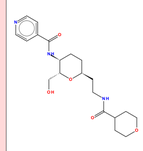
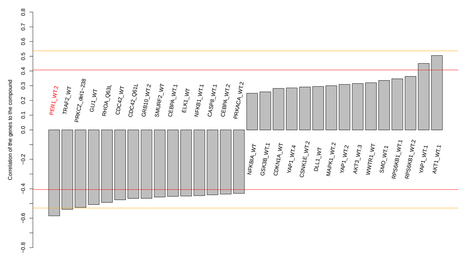
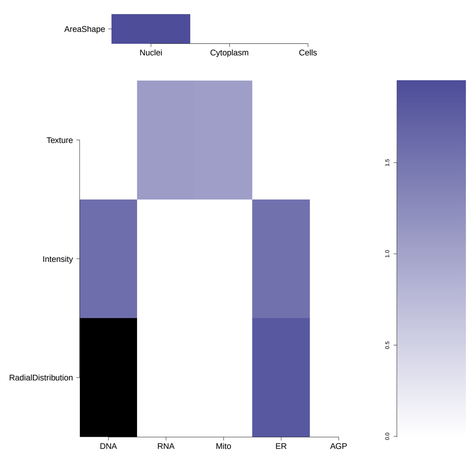
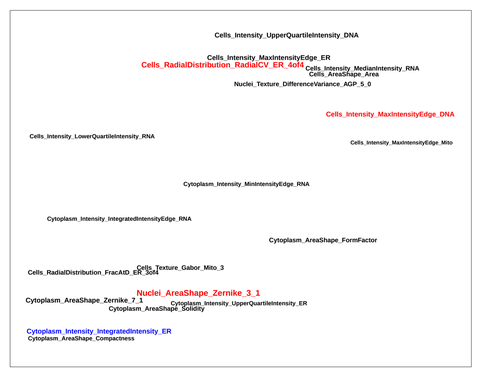
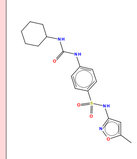
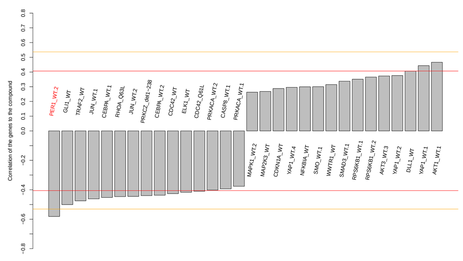
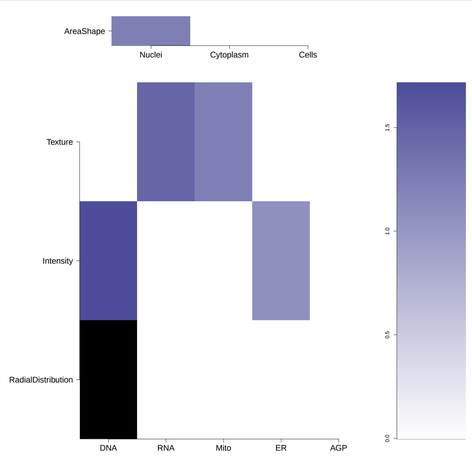
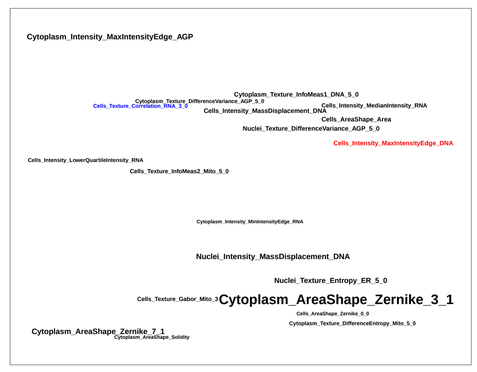






Total number of assays tested in: 36.

BRD-K65077386-001-01-7 PubChem CID : 54646151		0.82 (in 4 replicates)	0.62	0.650				Total number of assays tested in: 41.
BRD-K80630598-001-01-8 PubChem CID : 54634114		0.75 (in 3 replicates)	0.61	0.650				Total number of assays tested in: 36.
BRD-K39734779-001-01-1 PubChem CID : 54632600		0.69 (in 4 replicates)	0.60	0.650				Total number of assays tested in: 19.
BRD-K37657049-001-01-0 PubChem CID : 54619422		0.79 (in 4 replicates)	0.60	0.959				Total number of assays tested in: 34.
BRD-K27772696-001-01-5 PubChem CID : 44505661		0.81 (in 3 replicates)	-0.67	0.350				Total number of assays tested in: 44.
BRD-K70783031-001-01-2 PubChem CID : 54646032		NA (in 1 replicates)	-0.63	0.027				Total number of assays tested in: 43.
BRD-K74823284-001-01-6 PubChem CID : 54646361		0.61 (in 4 replicates)	-0.60	0.725				Total number of assays tested in: 40.

BRD-K41451401-001-01-4 PubChem CID : 54640244		0.84 (in 4 replicates)	-0.60	0.075				Total number of assays tested in: 36.
BRD-K84241565-001-01-9 PubChem CID : 54633423		0.81 (in 4 replicates)	-0.59	0.139				Total number of assays tested in: 44. Active in the following assays: • DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640)
BRD-K11088254-001-01-8 PubChem CID : 54646213		0.68 (in 3 replicates)	-0.59	0.725				Total number of assays tested in: 39.
BRD-K26038019-001-01-2 PubChem CID : 54638508		0.81 (in 4 replicates)	-0.59	0.350				Total number of assays tested in: 34.
BRD-K82204596-001-01-2 PubChem CID : 54645805		NA (in 1 replicates)	-0.59	0.809				Total number of assays tested in: 40.
BRD-K63107801-001-01-1 PubChem CID : 54639800		0.68 (in 4 replicates)	-0.58	0.345				Total number of assays tested in: 36.
BRD-K48093976-001-06-1 SMR000077643 MLS000050366 AC1LLZL3 MLS002546870 ARONIS007364 HMS2436D03 ZINC814481 STL069050 BAS 09079079 KB-97435 PubChem CID : 1093288		NA (in 1 replicates)	-0.58	NA				Total number of assays tested in: 789. Active in the following assays: • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483)