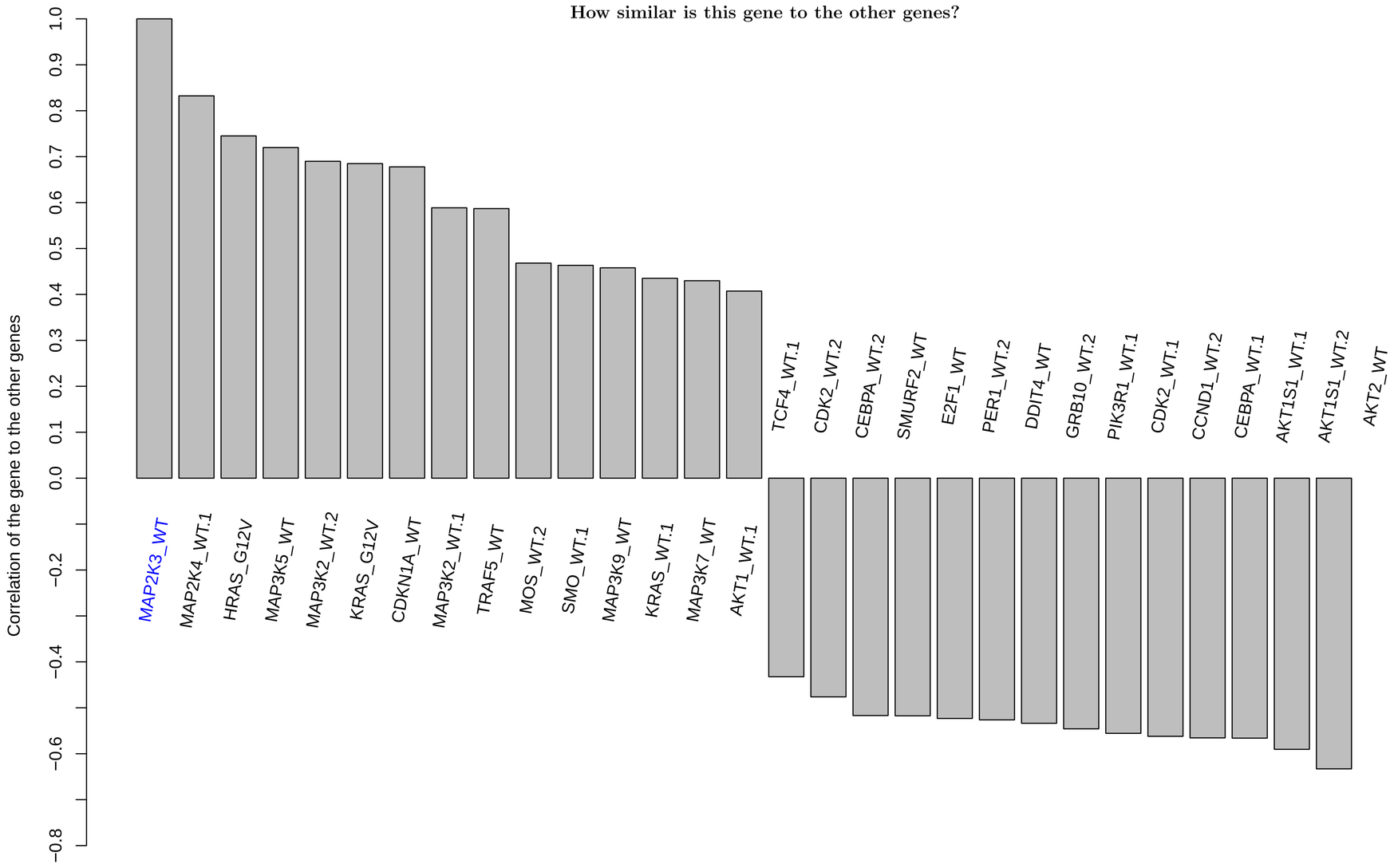
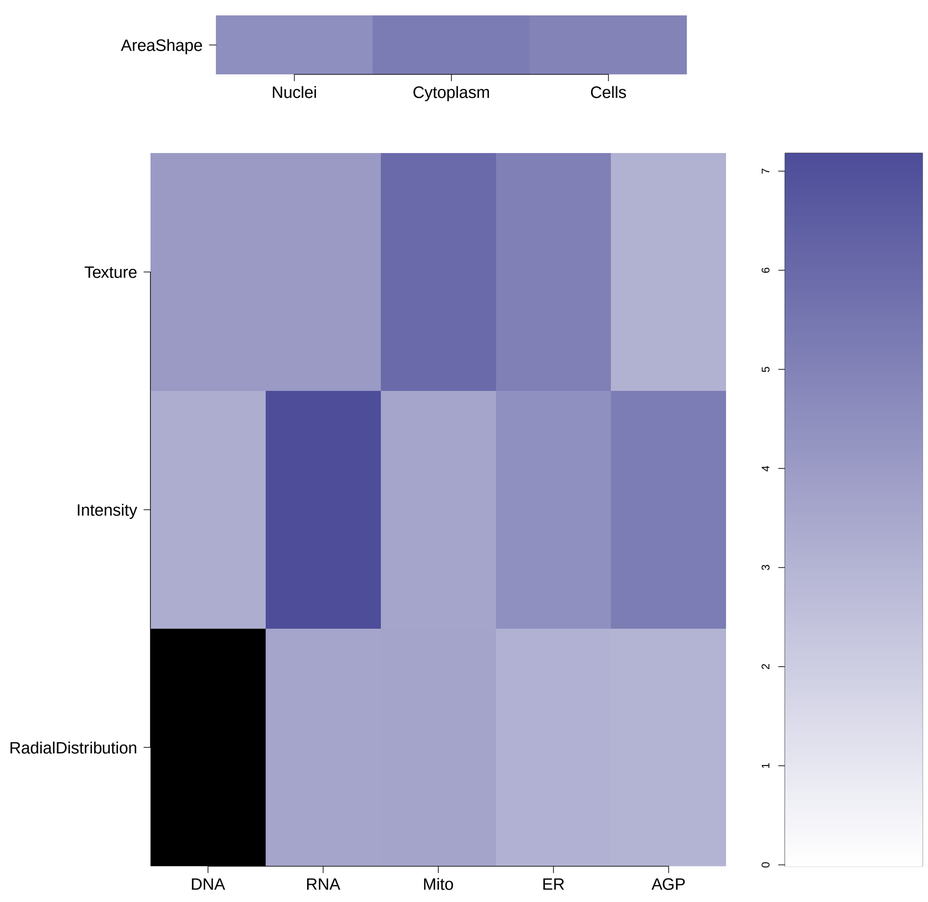
MAP2K3_WT - in Canonical MAPK

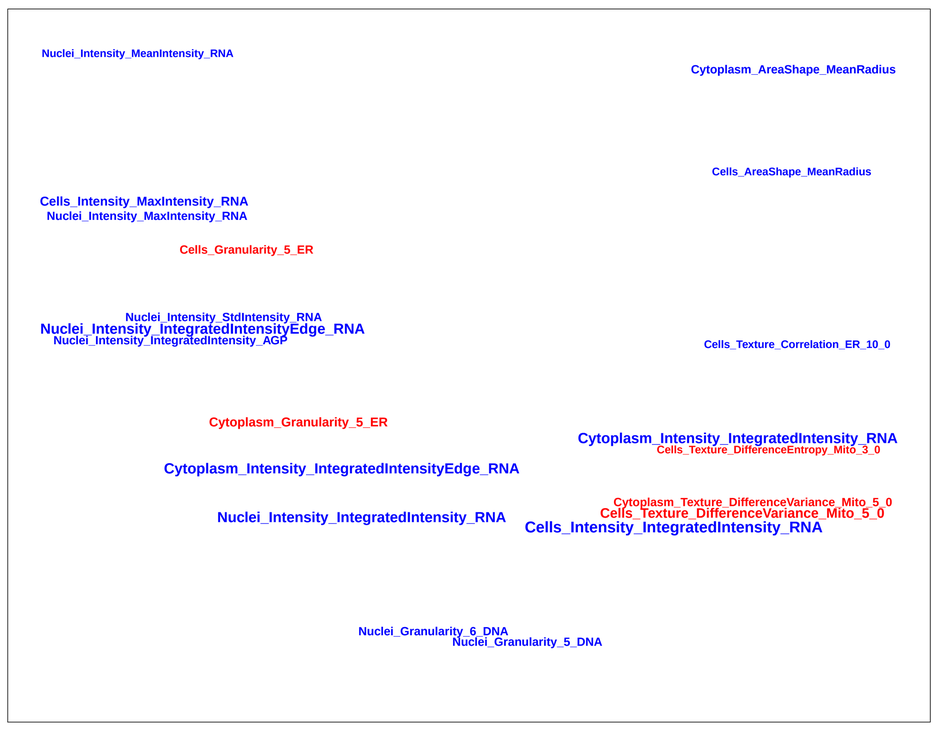
How similar is this gene to the other genes?

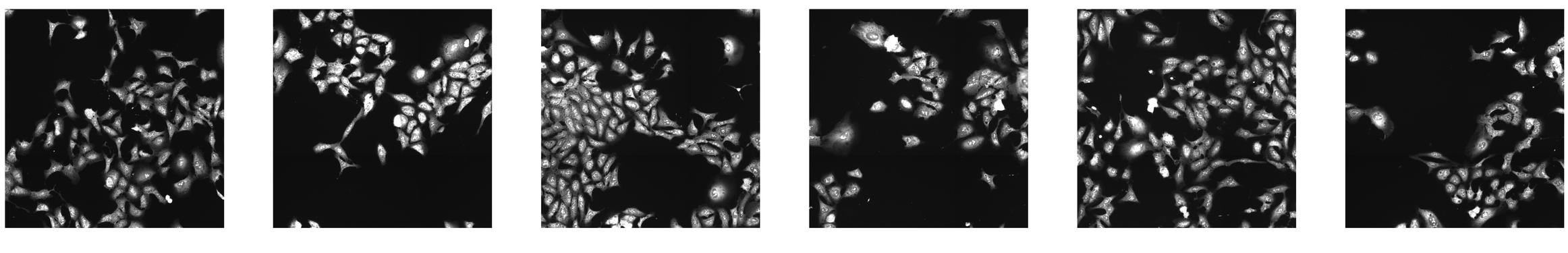


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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



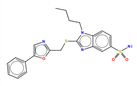
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.





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

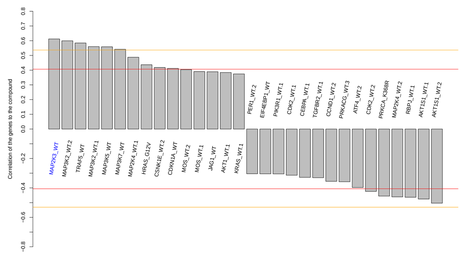
BRD-K97985992-001-05-0
T5346502
SMR000068681
MLS000098648
AC1MHC0E
MLS002633903
HMS2352B24
ZINC3449845
ZINC03449845
PubChem CID : 2999544

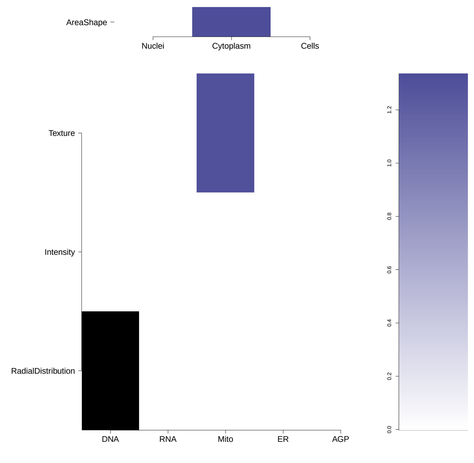


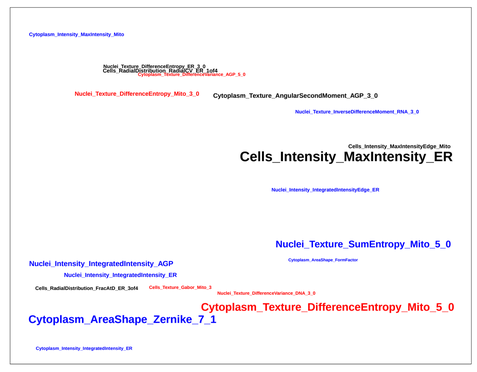
0.52 (in 4 replicates)

0.61

0.778







Total number of assays tested in: 761. Active in the following assays:

- Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7K cells) (AID 431)
- Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598)
- CYP2C9 Assay (AID 777)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Dose Response (AID 1047)
- uHTS absorbance assay for the identification of compounds that inhibit PHOSPHO1 (AID 1565)
- HCS for Compounds that Down-Regulate Insulin Promoter Activity in MIN6 Cells (AID 1628)
- Counterscreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2235)
- A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019)
- High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762)
- A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764)
- Fluorescence-based counterscreen for orexin 1 receptor (OX1R) antagonists: cell-based assay to identify antagonists of the parental CHO cell line (AID 463079)
- qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)
- Nrf2 qHTS screen for inhibitors (AID 504444)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511)
- Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466)
- HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 7013-01_Inhibitor_SinglePoint_HTS_Activity (AID 651610)
- qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
- Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of COUP-TFII (NR2F2) (AID 686940)
- 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)
- High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)

BRD-K33447421-001-05-9
SMR000003457
AC1LCMPN
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MLS000035797
MLS000888562
HMS2485N15
ZINC932098
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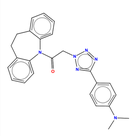
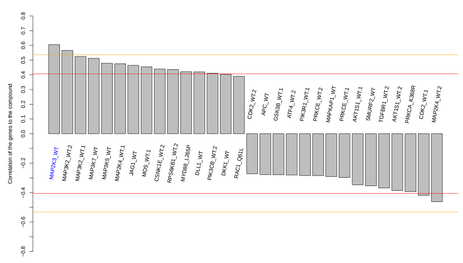
PubChem CID : 652670

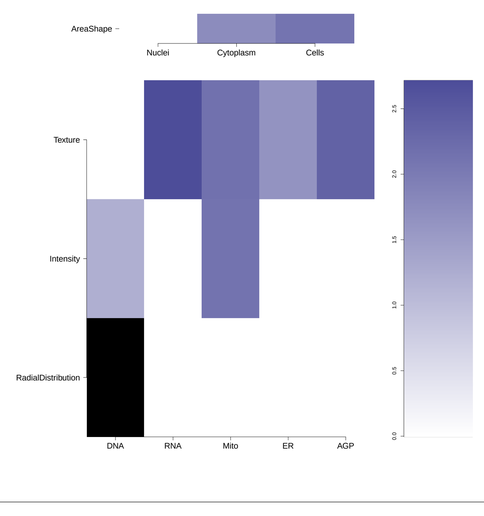


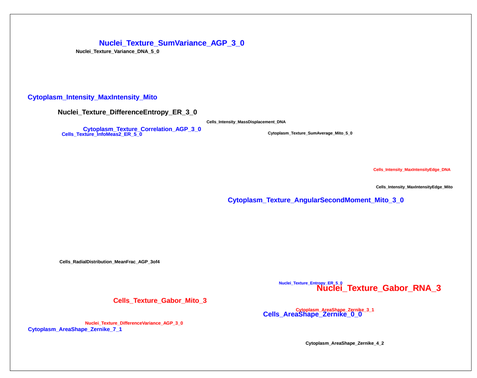
NA (in 1 replicates)

0.61

NA



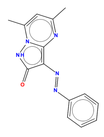




Total number of assays tested in: 789. Active in the following assays:

- Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598)
- Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709)
- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)
- qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)
- qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476)
- Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)

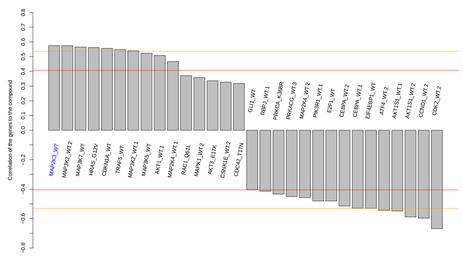
BRD-K64559563-001-05-1
AC1MWQV4
MLS000325274
HMS2182E12
STK063097
STL150982
ZINC18054886
ZINC18116461
SMR000161353
PubChem CID : 3803612

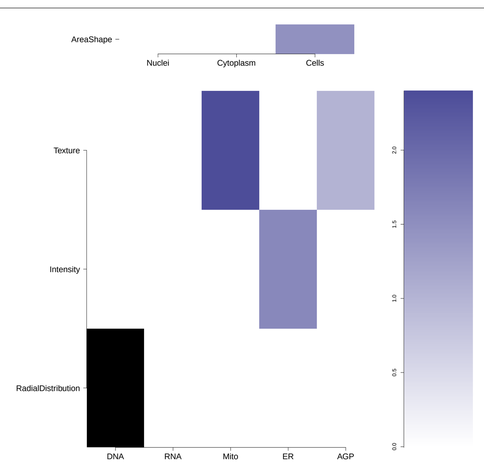


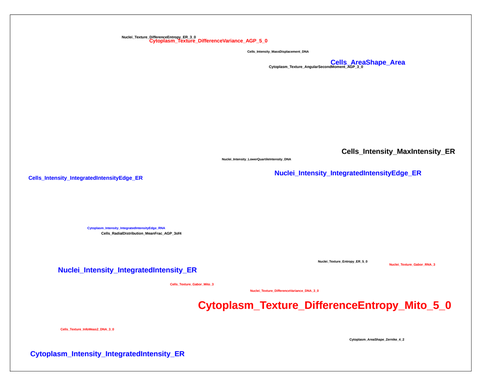
0.64 (in 2 replicates)

0.57

NA







Total number of assays tested in: 664. Active in the following assays:

- High throughput screening of inhibitors of transient receptor potential cation channel C6 (TRPC6) (AID 2553)
- Specificity screen against TRPC4 for compounds that inhibit transient receptor potential cation channel C6 (TRPC6) (AID 2777)
- Counter screen for compounds that inhibit transient receptor potential cation channel C6 (TRPC6) (AID 2780)
- FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270)
- Counterscreen for antagonists of the orexin 1 receptor (OX1R; HCRTR1): Homogenous time resolved fluorescence (HTRF)-based cell-based assay to identify antagonists of the parental CHO-K1 cell line (AID 493232)
- qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)

BRD-K50920395-001-05-5
SMR000021483
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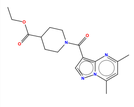
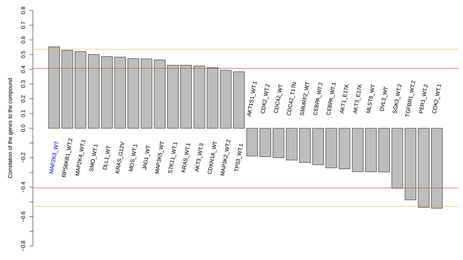
MLS000044072
HMS2321D17
CCG-26113
EU-0053628
PubChem CID : 3244226

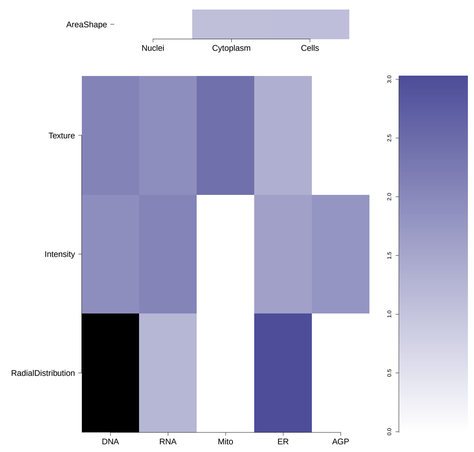


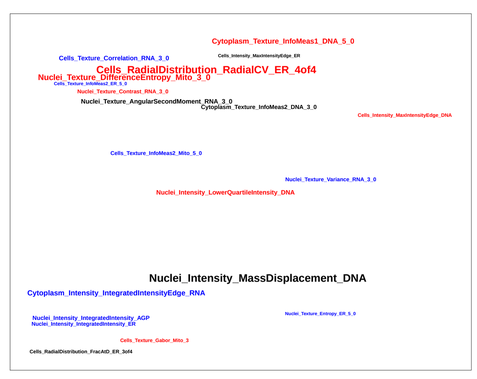
NA (in 1 replicates)

0.55

NA







Total number of assays tested in: 790. Active in the following assays:

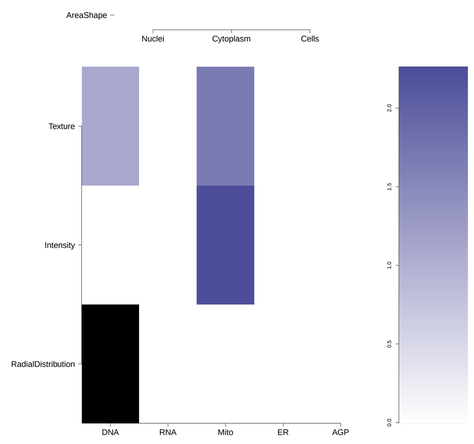
- Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709)
- qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)
- Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726)
- Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616)
- qHTS Assay for Activators of ClpP (AID 651965)
- Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluroescence-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141)

BRD-K09450441-001-06-7
MLS001242663
SMR000673930
PubChem CID : 24792599

0.56 (in 4 replicates)

0.45

0.778



Total number of assays tested in: 513. Active in the following assays:

- Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)
- Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 binding to MEK Kinase 2 Wildtype (AID 1531)
- Epi-absorbance-based confirmation assay for common VIM-2 and IMP-1 inhibitors: biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase. (AID 2187)
- An HTS Cytotoxicity Screen to evaluate New Inhibitors of Respiratory Syncytial Virus (RSV) (AID 2410)
- Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717)
- Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748)
- Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE_sh_eGFP (AID 463074)
- uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)
- Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)
- Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format - Set 2 (AID 504601)
- Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)
- Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brca1/Bard1 BiLC Counterscreen assay. (AID 504668)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- qHTS for Inhibitors of Cell Surface uPA Generation (AID 540303)
- HTS Assay for Peg3 Promoter Inhibitors (AID 588405)
- HTS to identify compounds that promote myeloid differentiation with MLPCN compound set (AID 624256)
- qHTS for Inhibitors of ATXN expression (AID 651635)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_SinglePoint_HTS_Activity (AID 651661)
- qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)
- HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01_Inhibitor_SinglePoint_HTS_Activity (AID 652154)
- Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_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)
- qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580)
- Luminescence cell-based Retest at Dose assay to determine EWS/Fli1 dependent A673 mammalian cell cytotoxity Measured in Cell-Based System Using Plate Reader - 7014-03_Inhibitor_Dose_CherryPick_Activity (AID 720587)
- HEK293 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-01_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 720588)
- HepG2 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-02_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 720589)
- qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K47707616-001-06-3
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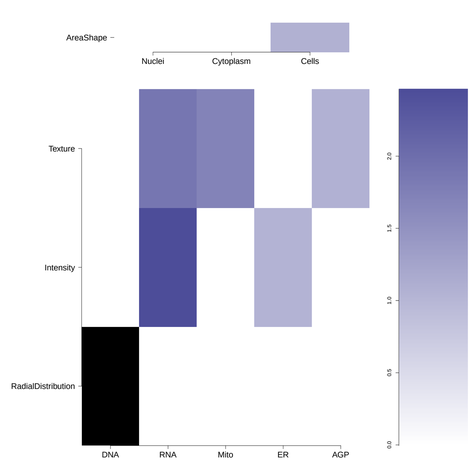
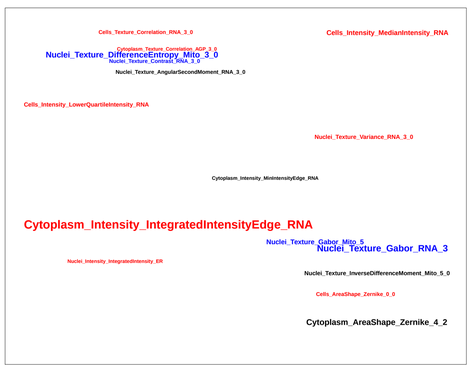
3B3-001248
PubChem CID : 14562

NA (in 1 replicates)

-0.63

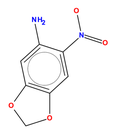
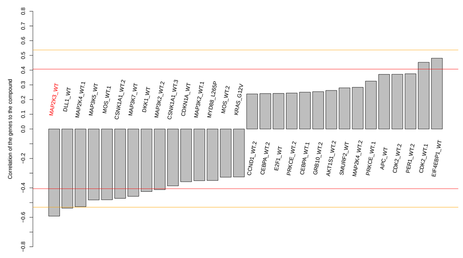
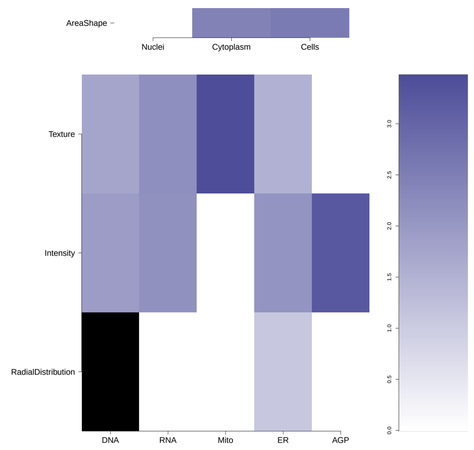
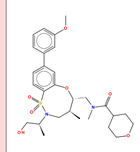
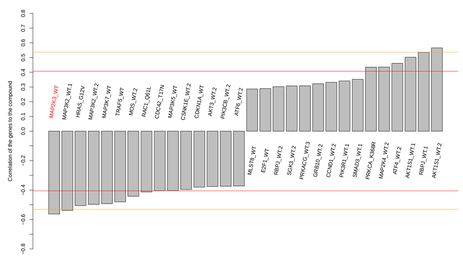
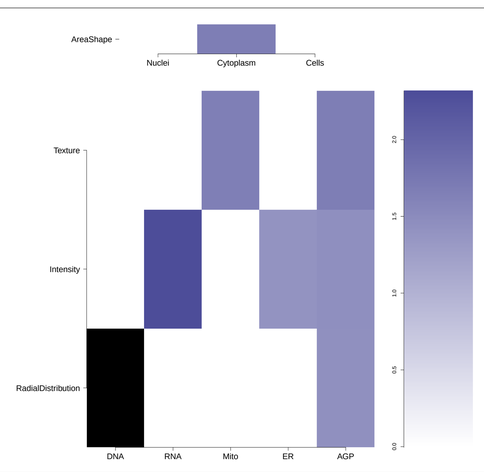
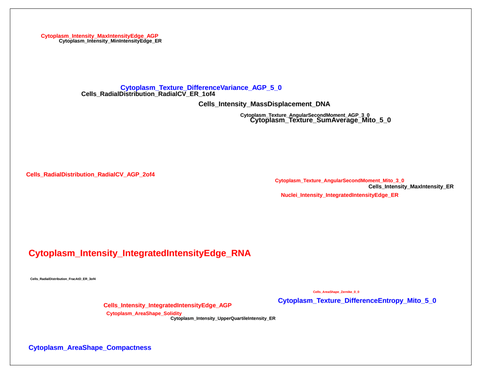
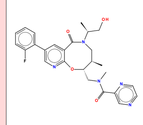
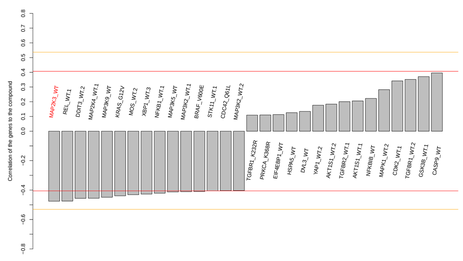
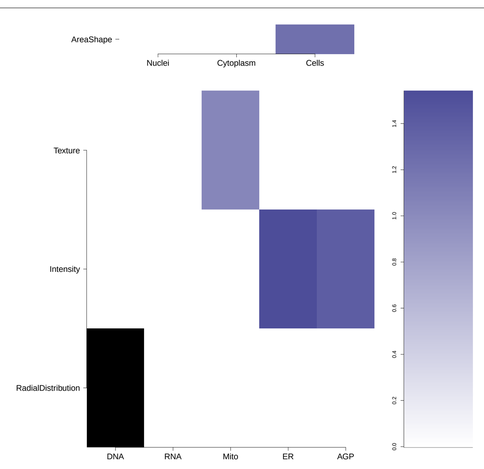
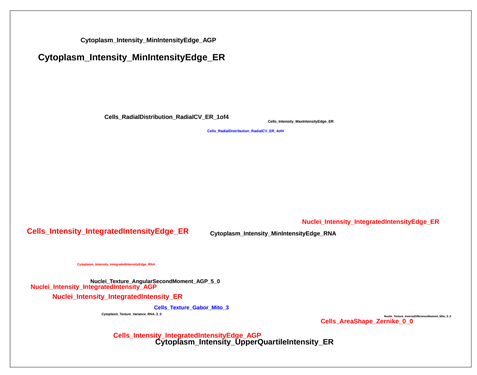
NA

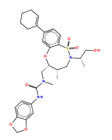
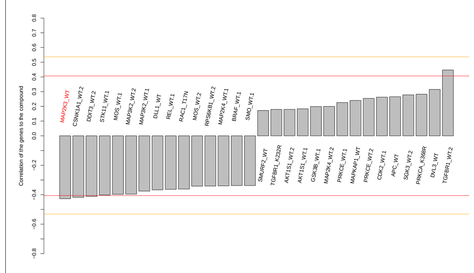
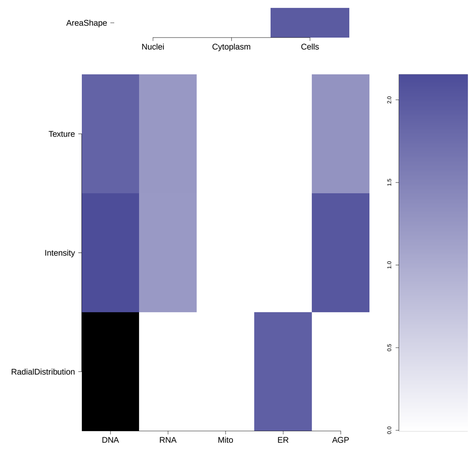




Total number of assays tested in: 835. Active in the following assays:

- NCI Yeast Anticancer Drug Screen. Data for the rad50 strain (AID 155)
- NCI Yeast Anticancer Drug Screen. Data for the mec2-1 strain (AID 157)
- NCI Yeast Anticancer Drug Screen. Data for the sgs1 mgt1 strain (AID 161)
- NCI Yeast Anticancer Drug Screen. Data for the cln2 rad14 strain (AID 165)
- NCI Yeast Anticancer Drug Screen. Data for the bub3 strain (AID 167)
- NCI Yeast Anticancer Drug Screen. Data for the mlh1 rad18 strain (AID 175)
- Aggregation and Clearance of Mutant Huntingtin Protein (AID 483)
- qHTS Assay for Tau Filament Binding (AID 596)
- qHTS Assay for Inhibitors of 15-hLO-2 (15-human lipoxygenase 2) (AID 881)
- qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886)
- qHTS Assay for Inhibitors of 15-hLO (15-human lipoxygenase) (AID 887)
- qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893)
- Primary Cell-based High Throughput Screening Assay for Inhibitors of Wee1 Degradation (AID 1321)
- Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789)
- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
- QFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 1822)
- Luminescence-based confirmation biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1846)
- Luminescence-based dose response biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1913)
- qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
- HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317)
- qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
- qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467)
- In vivo-based yeast HTS to detect compounds rescuing yeast growth/survival of Plasmodium Falciparum HSP40-mediated toxicity Measured in Whole Organism System Using Plate Reader - 2120-01_Inhibitor_SinglePoint_HTS_Activity (AID 504582)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
- Beta-Arrestin HTS for Positive Allosteric Modulators of the Human D2 Dopamine Receptor: Potentiators (AID 624464)
- qHTS Assay for Activators of ClpP (AID 651965)
- qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)

BRD-K11392760-001-05-2 64993-07-3 MLS000416366 SMR000264114 F0239-0652 ZINC03888819 AC1LCM1D AC1Q50SI AC1Q52FY BDBM50440 CTK5C2001 HMS2589B15 ZINC3888819 7419AE EE-0756 RP10930 HE039121 TR-022178 BB 0246594 EU-0043951 FT-0681976 ST50052198 EN300-13711 L-4613 I01-12564 3B1-007030 T0513-9536 PubChem CID : 602665		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 623. Active in the following assays: • uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay using a high concentration of mannose 6-phosphate (AID 1220) • Dose Response Confirmation for Mcl-1/Noxa Interaction Inhibitors (AID 1417) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of myeloid cell leukemia sequence 1 (MCL1) interactions with BIM-BH3 peptide. (AID 2057) • Counterscreen for MCL1 inhibitors: fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2166) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of myeloid cell leukemia sequence 1 (MCL1) interactions with BIM-BH3 peptide. (AID 2168) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • qHTS Assay for the Inhibitors of L3MBTL1 (AID 485360) • uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for the Inhibitors of L3MBTL1: Hit Validation (AID 540279) • Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105)
BRD-K26421164-001-01-3 PubChem CID : 54618114		0.62 (in 4 replicates)	-0.56	0.222				Total number of assays tested in: 35.
BRD-K51234905-001-01-2 PubChem CID : 54618104		0.65 (in 4 replicates)	-0.48	0.222				Total number of assays tested in: 38.
BRD-K67787765-001-01-0 PubChem CID : 44619149		0.57 (in 4 replicates)	-0.47	NA				Total number of assays tested in: 35.
BRD-K81859633-001-01-9 PubChem CID : 54618664		0.68 (in 4 replicates)	-0.44	0.222				Total number of assays tested in: 38. Active in the following assays: • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115)
BRD-K82161520-001-01-5 PubChem CID : 44498639		0.75 (in 4 replicates)	-0.43	NA				Total number of assays tested in: 46. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654)

BRD-K04278887-001-01-9 PubChem CID : 54618150		0.66 (in 4 replicates)	-0.43	0.222				Total number of assays tested in: 33.