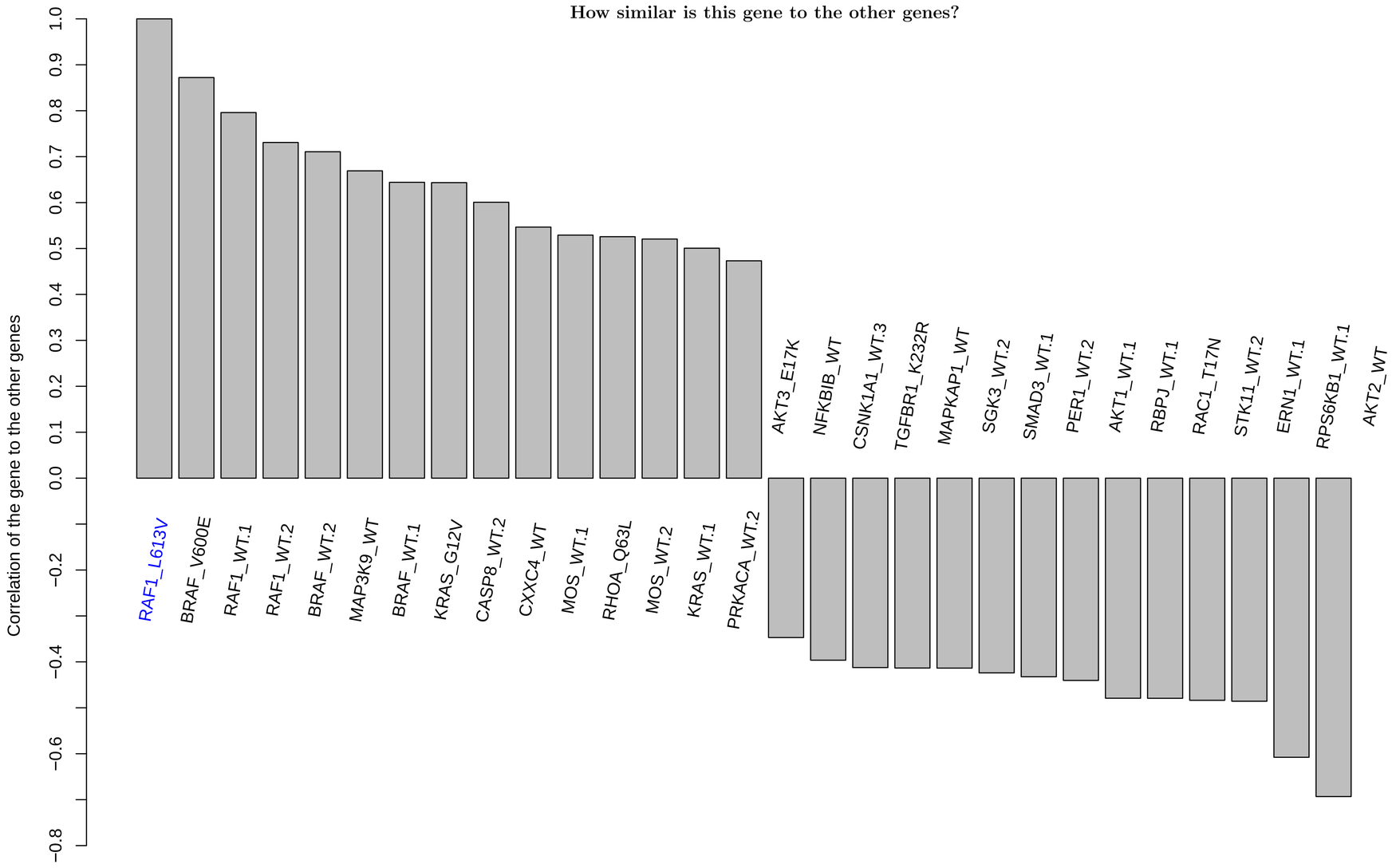
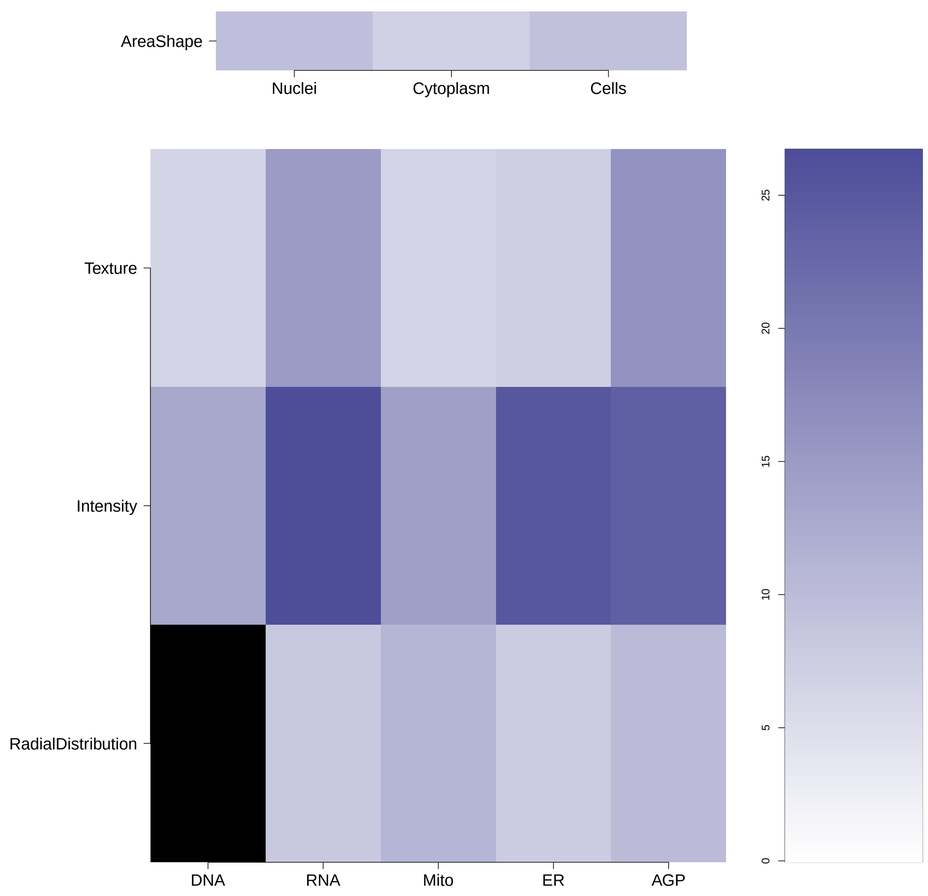
RAF1_L613V - in Canonical MAPK

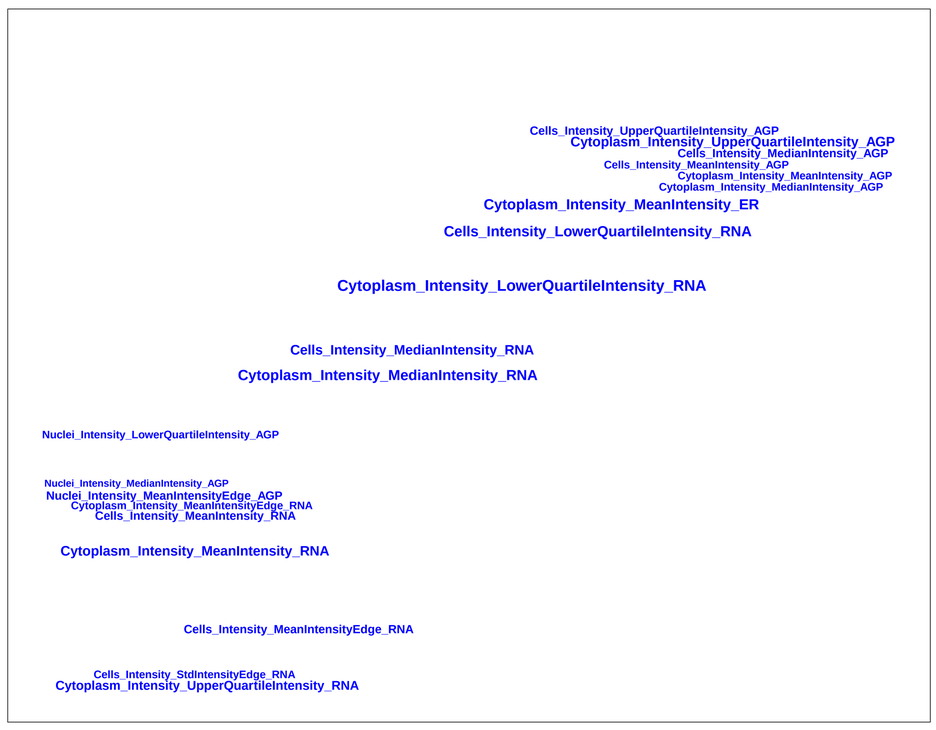
**How similar is this gene to the other genes?**

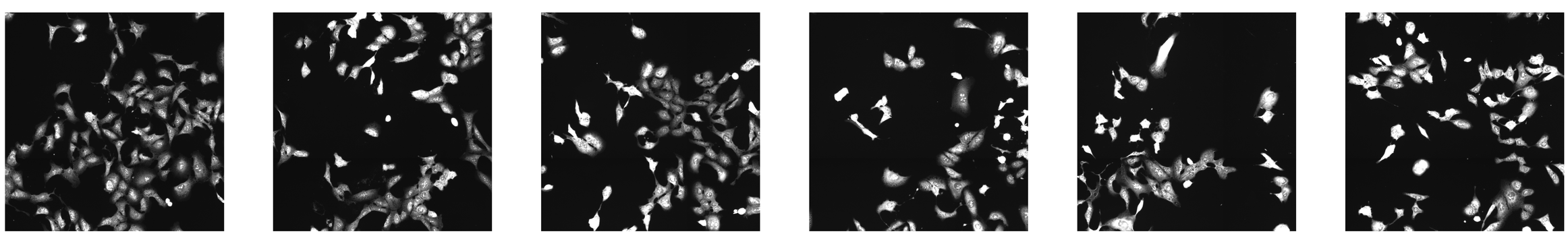



What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

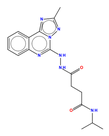
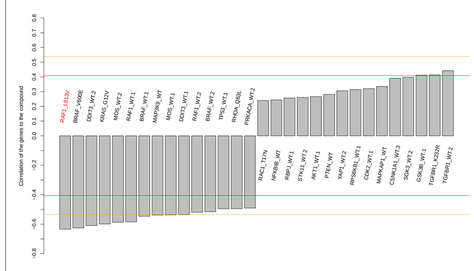
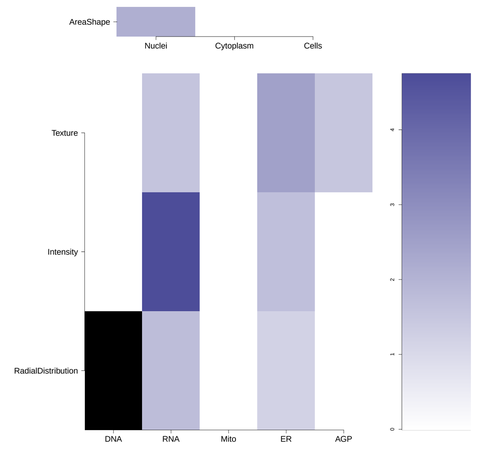
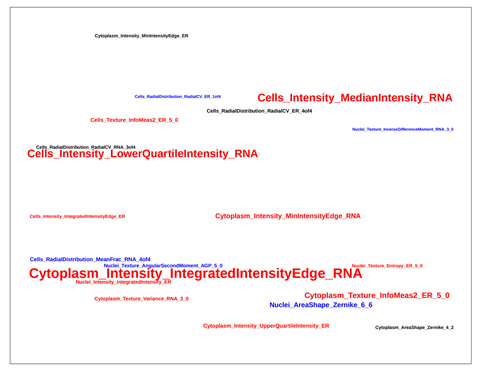



Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

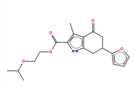



| Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster | Chemical structure | Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52) | Correlation between 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-K53719842-001-06-5<br>SMR000206475<br>MLS000582489<br>HMS2517A04<br>HMS3376B19<br>ZINC4958796<br>PubChem CID : 12004860 |  | NA (in 1 replicates) | -0.63 | NA |  |  |  | Total number of assays tested in: 633. Active in the following assays:<br>• Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions, specifically RGS16-Galphao. (AID 1441)<br>• Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions. (AID 1504)<br>• MLPCN maternal gene expression-MEX-5 TCR-2 binding assay-Primary Screen (AID 1832)<br>• Fluorescent Polarization Homogeneous Dose Retest to Confirm Inhibitors of Mex-5 Binding to TCR-2 (AID 449745)<br>• Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) |

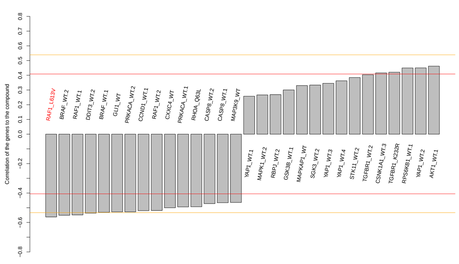
BRD-A39837162-001-09-2
SMR000093467
MLS000116497
ST50642529
AC1NSDBV
BDBM37461
HMS2260C19
STK405754
PubChem CID : 5307805

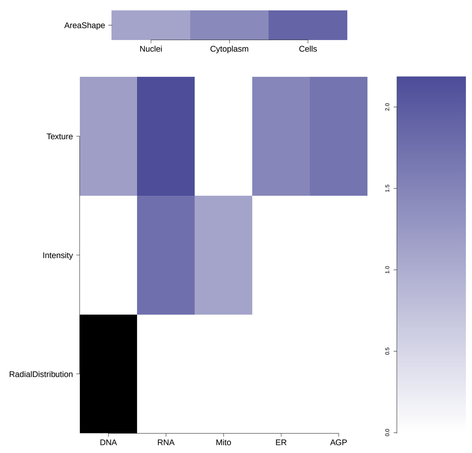


NA (in 1 replicates)

-0.56

NA





Total number of assays tested in: 759. Active in the following assays:

- Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7 cells) (AID 430)
- Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7K cells) (AID 431)
- Cell Proliferation and Viability (Cytotoxicity) Primary Assay 60K MLSMR (AID 463)
- Cell Proliferation and Viability (Cytotoxicity) Dose Response Assay 60K MLSMR (AID 464)
- Primary HTS assay for chemical inhibitors of antigen receptor-induced NF-kappaB activation (AID 465)
- Primary HTS Assay for S1P3 Antagonists (AID 485)
- Primary Cell Based High Throughput Screening Assay for Antagonists of the 5-Hydroxytryptamine Receptor Subtype 1E (5HT1E) (AID 571)
- Human H69AR Lung Tumor Cell Growth Inhibition Assay (AID 580)
- Dose-response cell-based assay for chemical inhibitors of antigen receptor-induced NF-kappaB activation (AID 586)
- Primary HTS assay for 5-Hydroxytryptamine (Serotonin) Receptor Subtype 1a (5HT1a) antagonists (AID 612)
- Luminescent HTS for small molecule inhibitors of MT1-MMP transcription (AID 618)
- Fluorescent HTS Cytotoxicity/Cell viability assay (HT1080 cells) (AID 620)
- Discovery of Novel Allosteric Modulators of the M1 Muscarinic Receptor: Agonist Primary Screen (AID 626)
- Discovery of novel allosteric modulators of the M1 muscarinic receptor: Antagonist Primary Screen (AID 628)
- Cell signaling CRE-BLA (Fsk stim) (AID 662)
- CYP2C9 Assay (AID 777)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Pilot Screen (AID 823)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Pilot Screen (AID 824)
- qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030)
- High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239)
- Primary screen for compounds that inhibit Alzheimer's amyloid precursor protein (APP) translation (AID 1285)
- Primary cell-based high throughput assay for inhibitors of the Janus kinase 2 mutant JAK2V617F (AID 1446)
- Counterscreen for inhibitors of Janus kinase 2 mutant JAK2V617F: Cell-based high throughput assay to identify inhibitors of parental Ba/F3 cell viability. (AID 1486)
- High Throughput Imaging Assay for Beta-Catenin (AID 1665)
- Primary cell-based high throughput screening assay to identify inhibitors of kruppel-like factor 5 (KLF5) (AID 1700)
- Discovery of novel allosteric modulators of the M1 muscarinic receptor: Agonist Counterscreen with M4 Receptor (AID 1741)
- Luminescence-based counterscreen assay for KLF5 inhibitors: cell-based high throughput screening assay to identify cytotoxic compounds using the IEC-6 intestinal epithelial cell line. (AID 1825)
- Luminescence-based confirmation cell-based high throughput screening assay to identify inhibitors of kruppel-like factor 5 (KLF5) (AID 1834)
- Luminescence-based counterscreen assay for KLF5 inhibitors: cell-based high throughput screening assay to identify cytotoxic compounds using the IEC-6 intestinal epithelial cell line in triplicate. (AID 1905)
- Luminescence-based confirmation cell-based assay for cytotoxic compounds using the IEC-6 intestinal epithelial cell line. (AID 1907)
- Luminescence Cell-Based Dose Response HTS to Identify Compounds Cytotoxic to BJ-TERT RAS-Independent Fibroblast (AID 1933)
- uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012)
- High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment (AID 2417)
- uHTS luminescence assay for the identification of chemical inhibitors of T-cell specific antigen receptor-induced NF-kB activation (AID 435003)
- Luminescence Cell-Free Homogeneous Dose Retest to Confirm Inhibitors of GSK-3 alpha (AID 463203)
- qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314)
- uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)
- qHTS Assay for the Inhibitors of L3MBTL1 (AID 485360)
- Inhibitors of Prion Protein 5' UTR mRNA Measured in Cell-Based System Using Plate Reader - 2078-01_Inhibitor_SinglePoint_HTS_Activity (AID 488862)
- HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Inhibitor_SinglePoint_HTS_Activity (AID 488896)
- Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)
- HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Inhibitor_Dose_CherryPick_Activity (AID 493194)
- qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
- qHTS Assay for Inhibitors of BAZ2B (AID 504333)
- Inhibitors of Prion Protein 5' UTR mRNA Measured in Cell-Based System Using Plate Reader - 2078-01_Inhibitor_Dose_CherryPick_Activity_Set2 (AID 504539)
- Inhibitors of Prion Protein 5' UTR mRNA Measured in Cell-Based System Using Plate Reader - 2078-01_Inhibitor_SinglePoint_CherryPick_Activity (AID 504592)
- 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)
- qHTS Assay for the Inhibitors of L3MBTL1: Hit Validation (AID 540279)
- qHTS for Inhibitors of Polymerase Kappa (AID 588579)
- qHTS for Inhibitors of Polymerase Eta (AID 588591)
- Novel Modifiers of Toll-like and RIG-like Receptor Signaling-Poly IC Stimulus (AID 602277)
- Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase coactivator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297)
- uHTS identification of small molecule inhibitors of Low Molecular Weight Protein Tyrosine Phosphatase, LMPTP, via a fluorescence intensity assay (AID 651560)
- qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-NT fibrosarcoma cell line (AID 686970)
- qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971)
- 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)