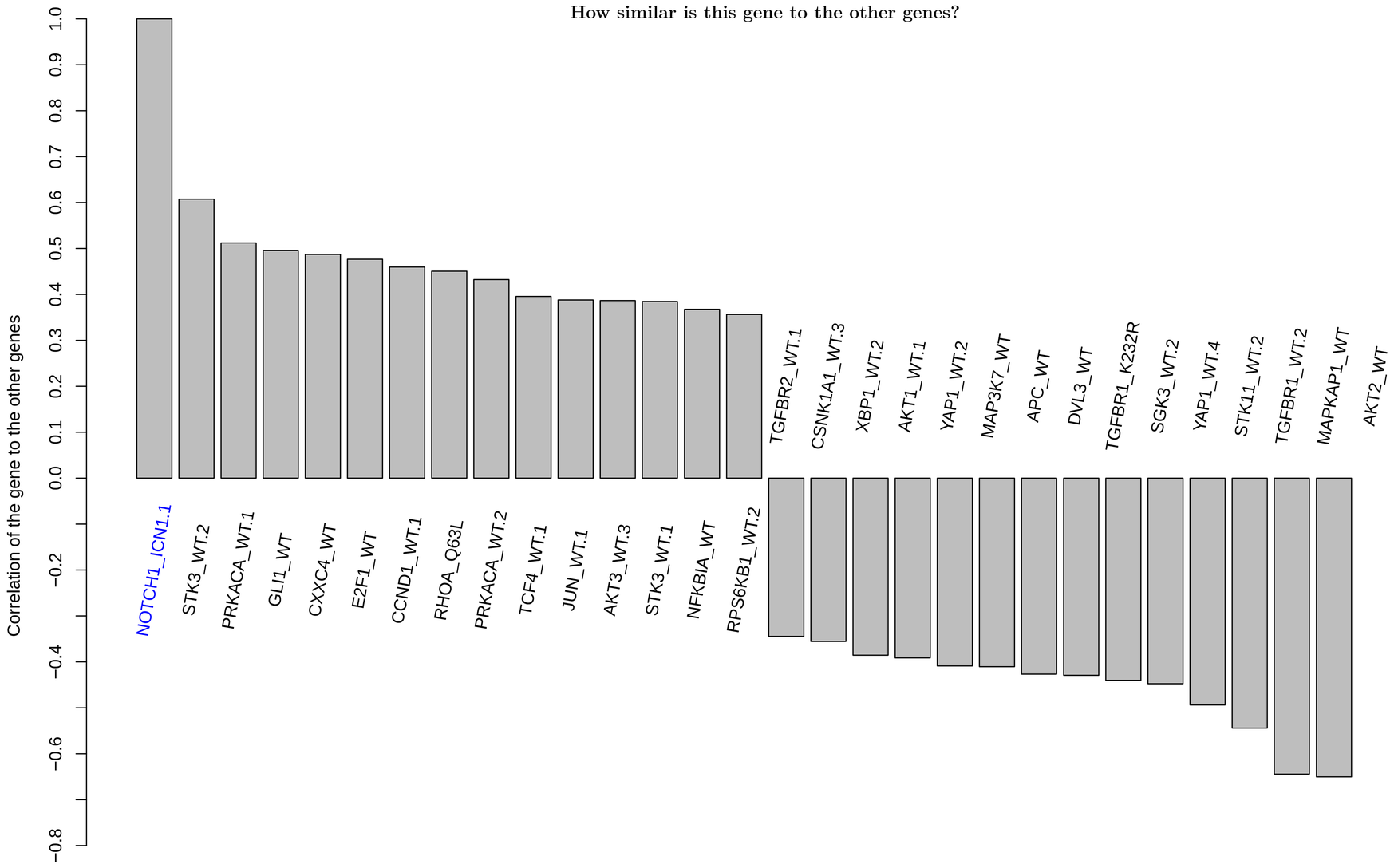
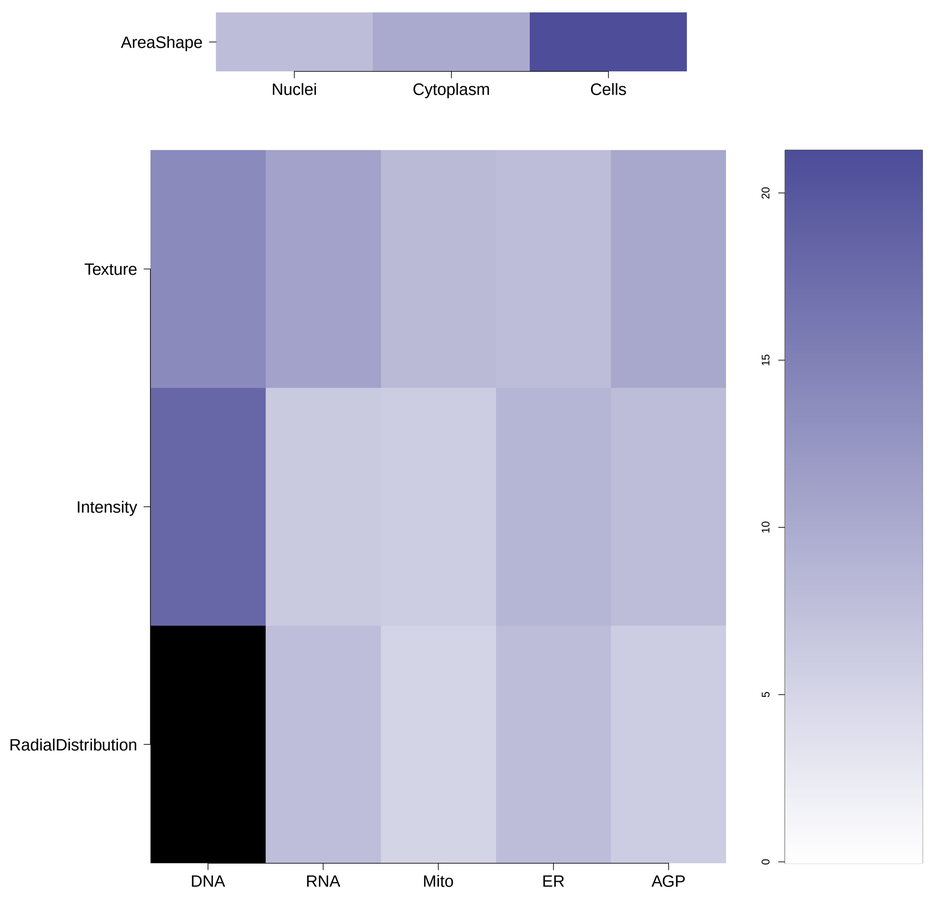
NOTCH1_ICN1.1 - in Canonical NOTCH

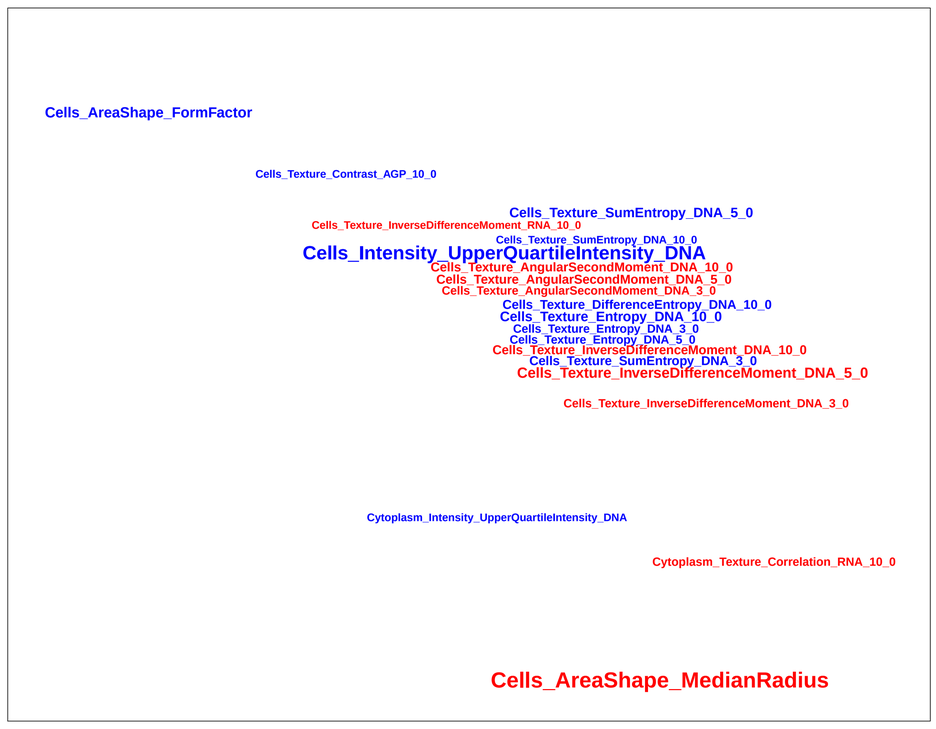
How similar is this gene to the other genes?

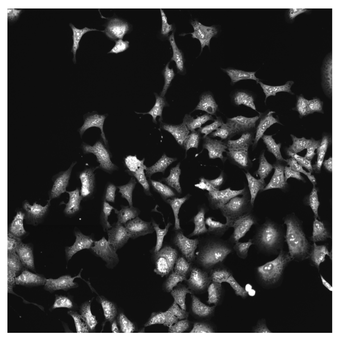
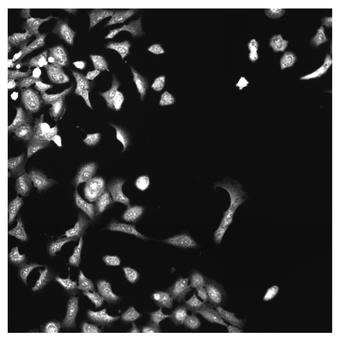
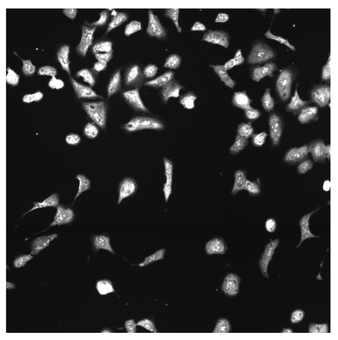
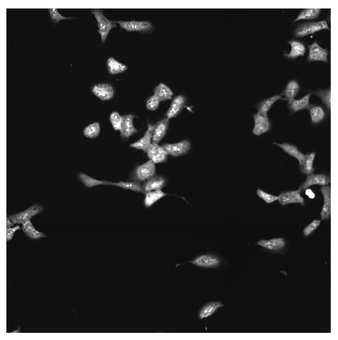
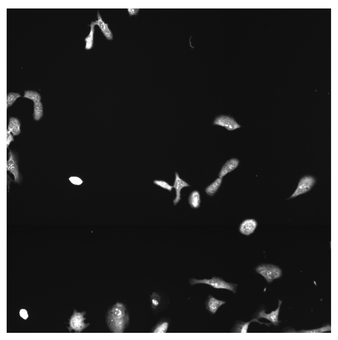
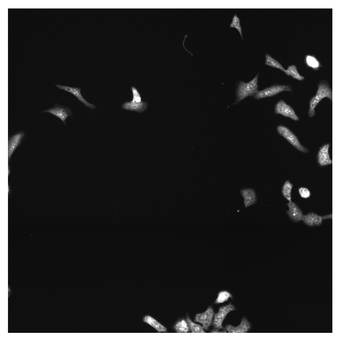
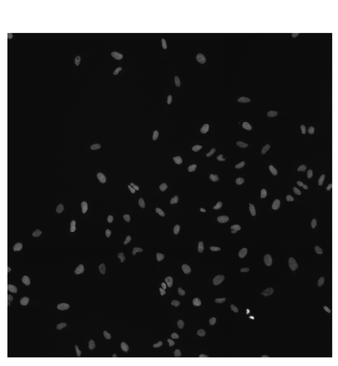
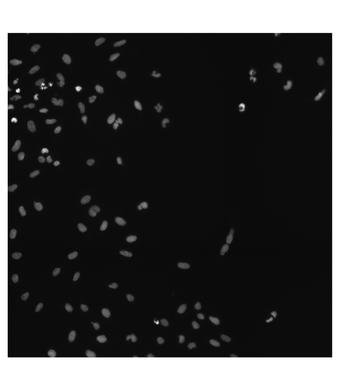
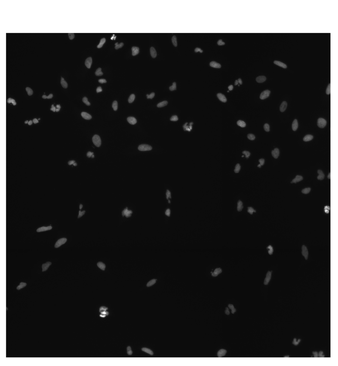
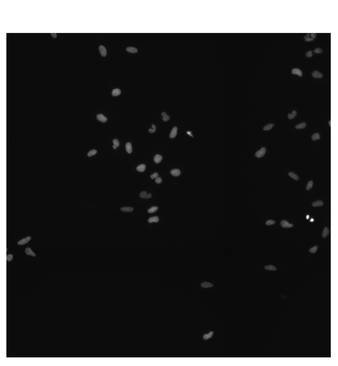
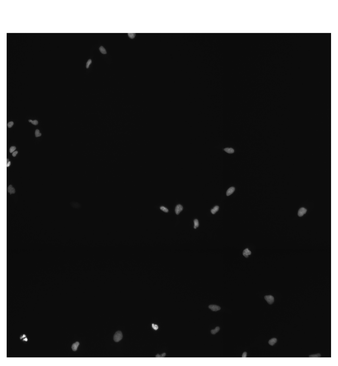
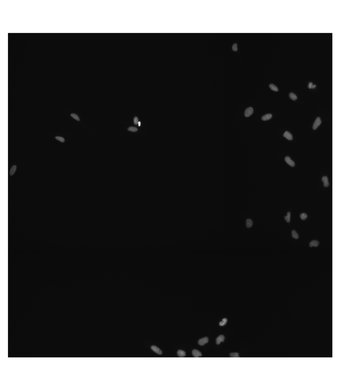


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

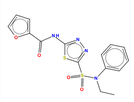
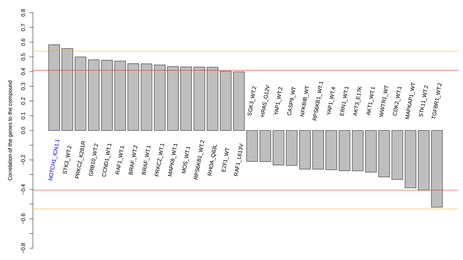
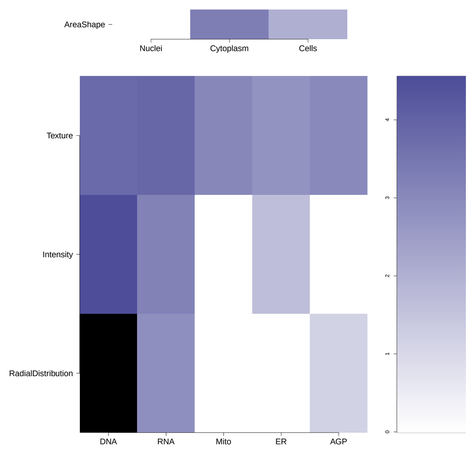
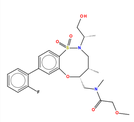
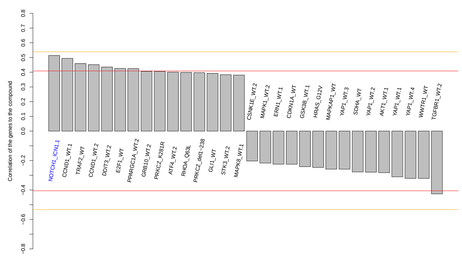
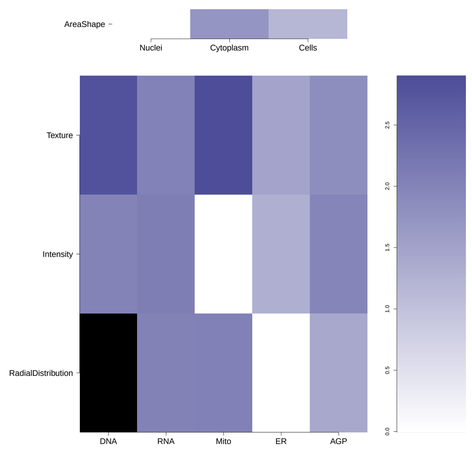
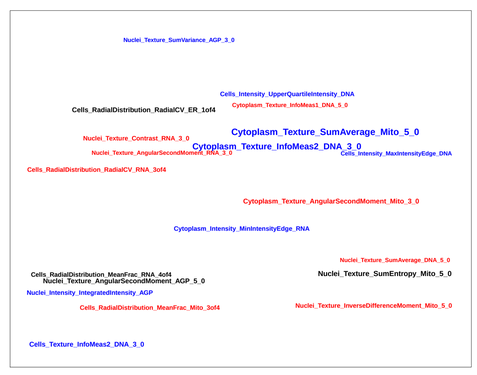
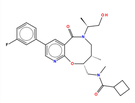
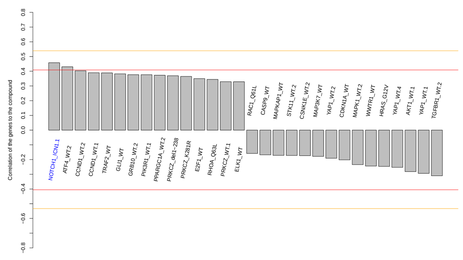
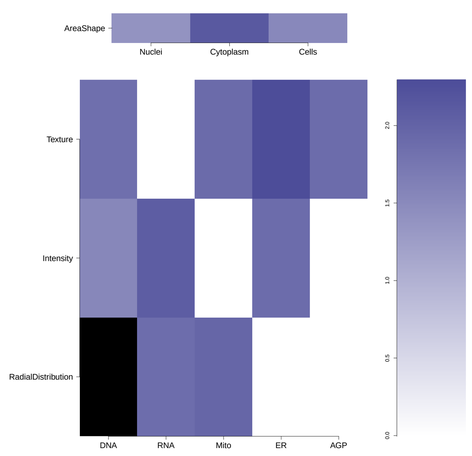
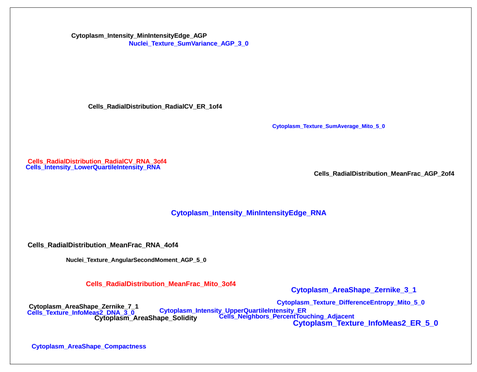
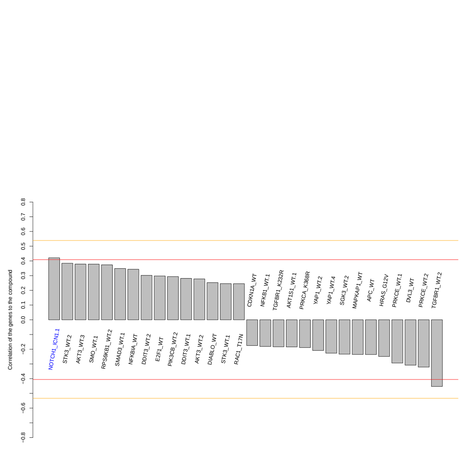
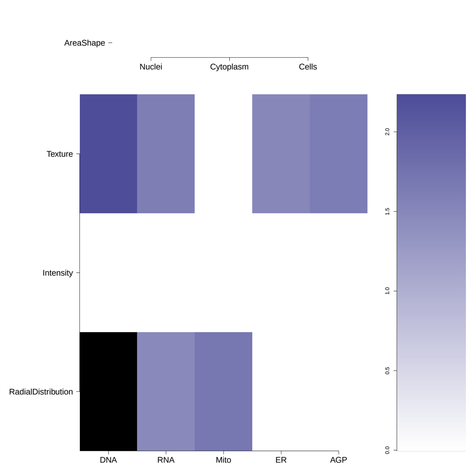
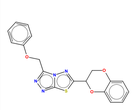


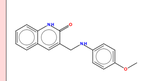
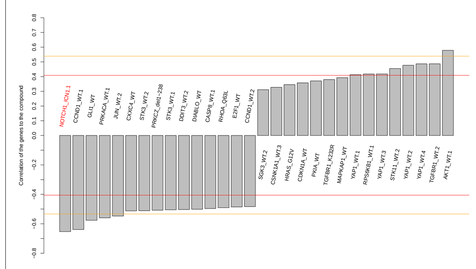
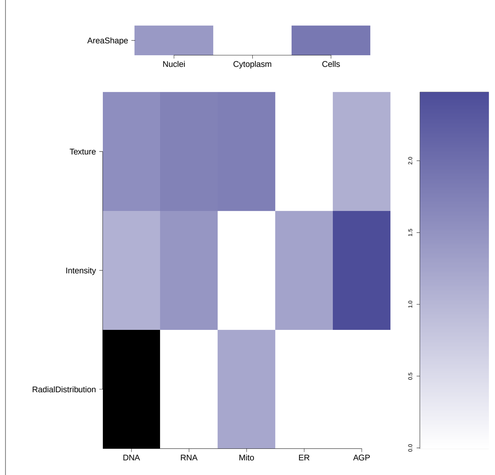
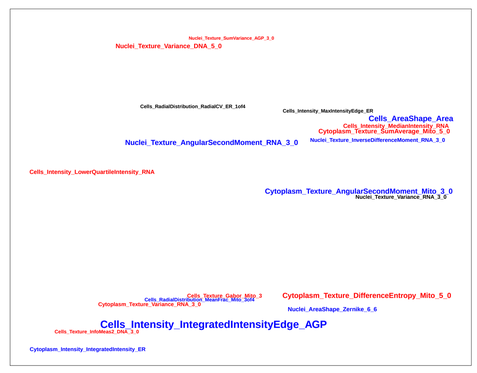
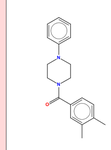
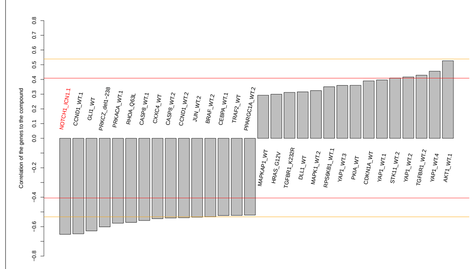
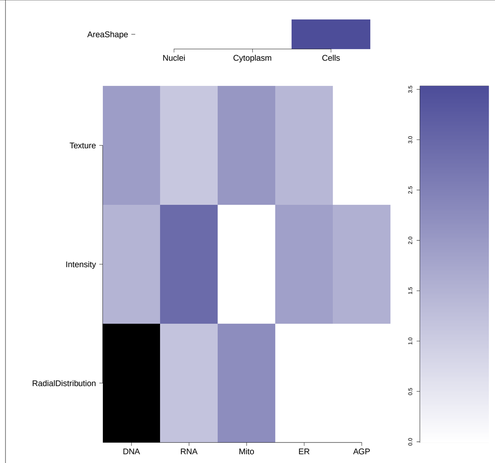
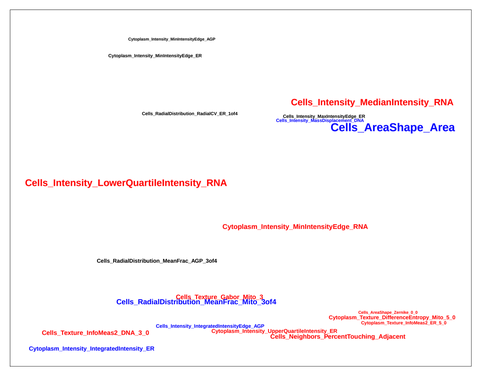
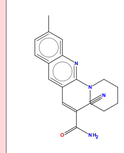
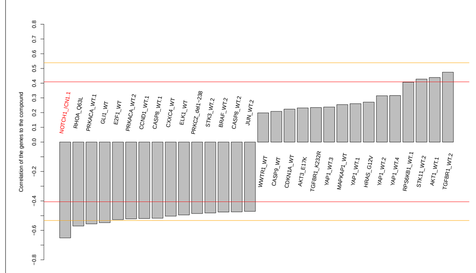
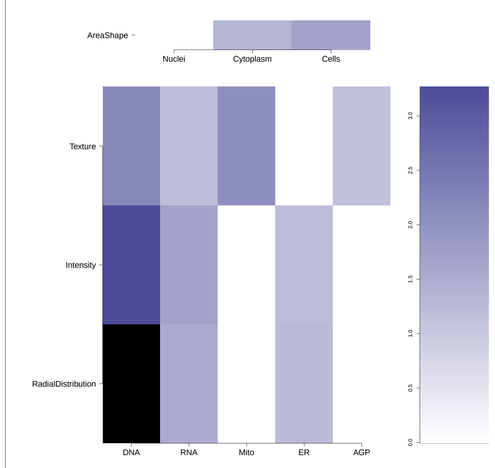
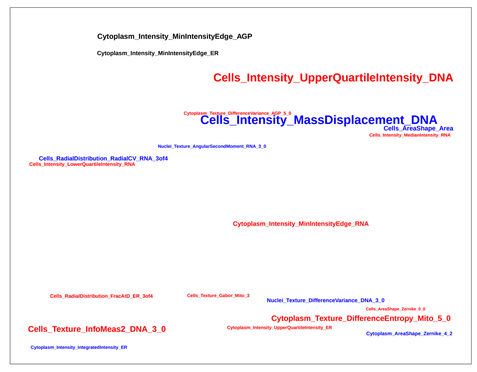
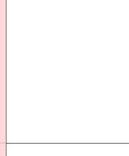
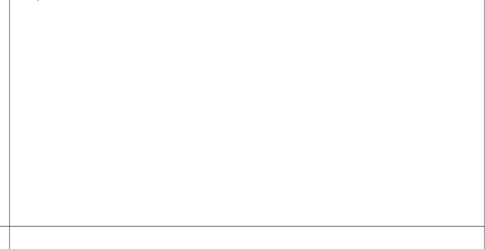
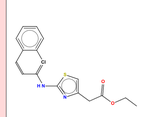
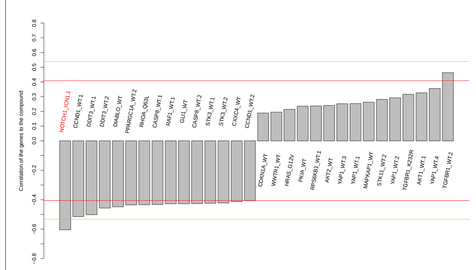
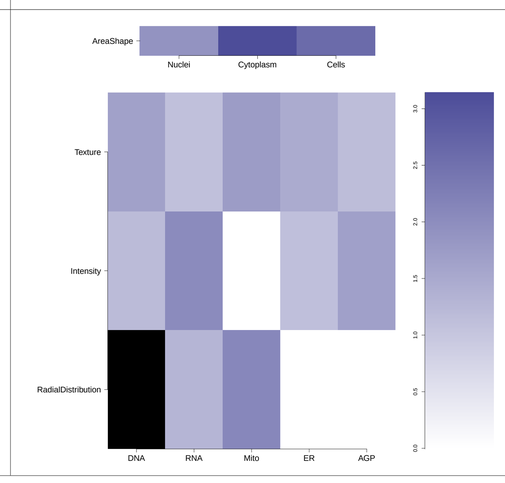
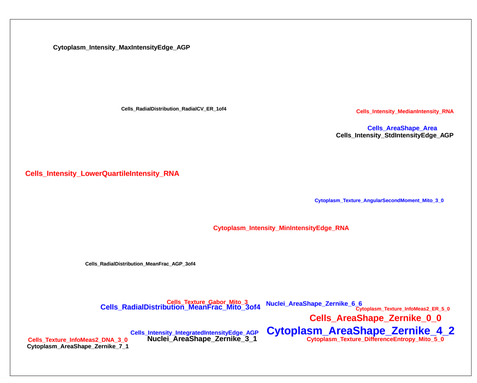
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

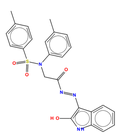
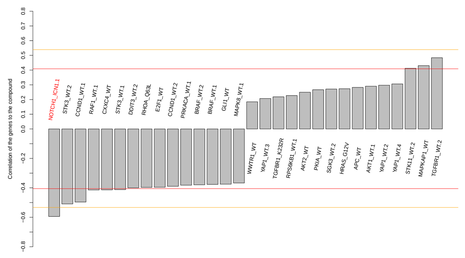
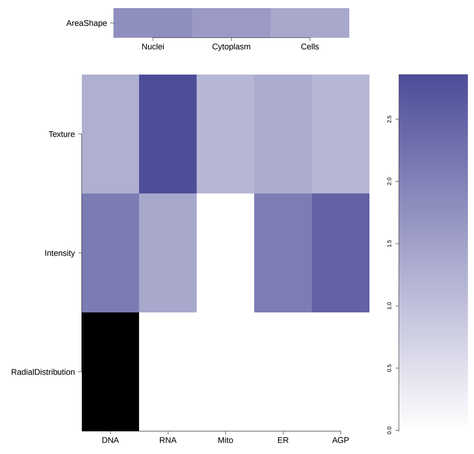
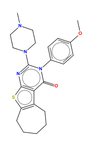
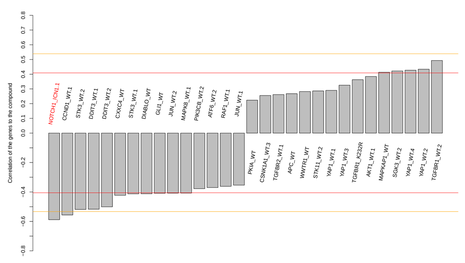
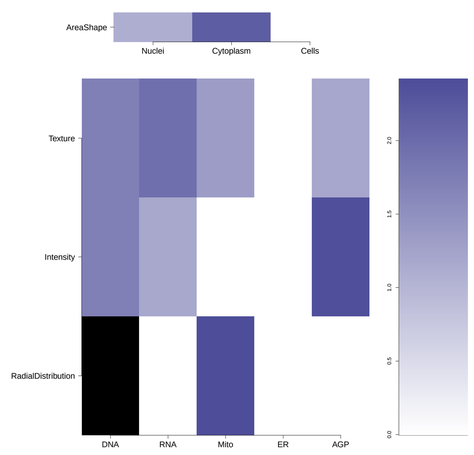
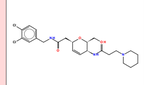
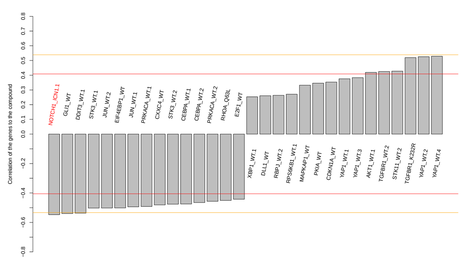
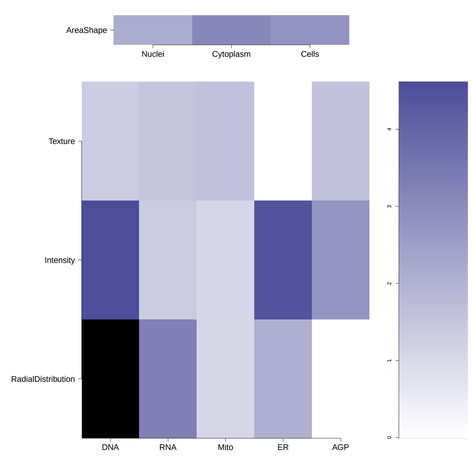
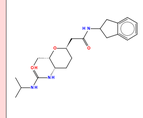
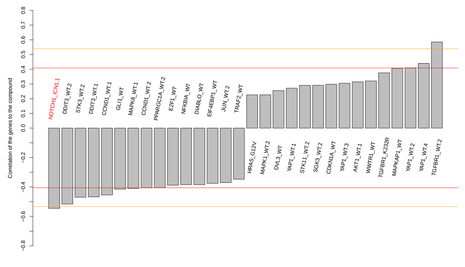
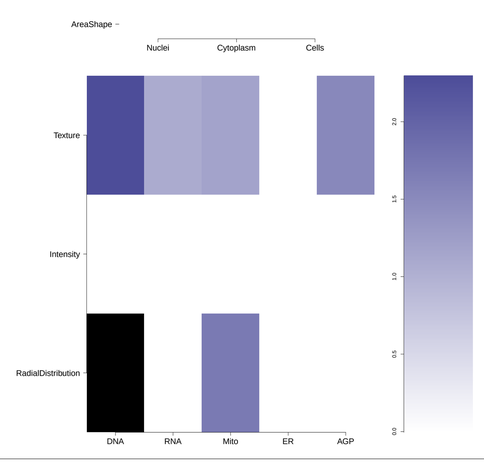
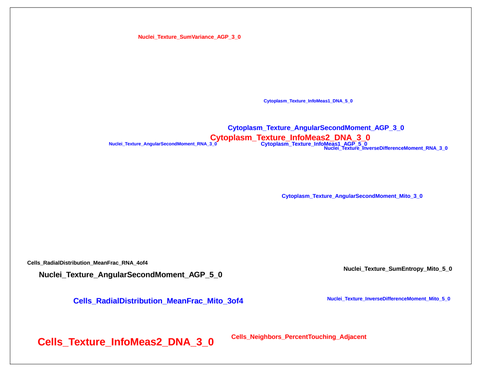
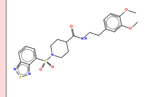
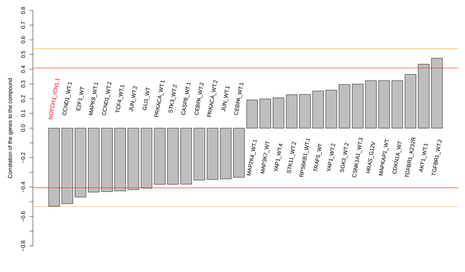
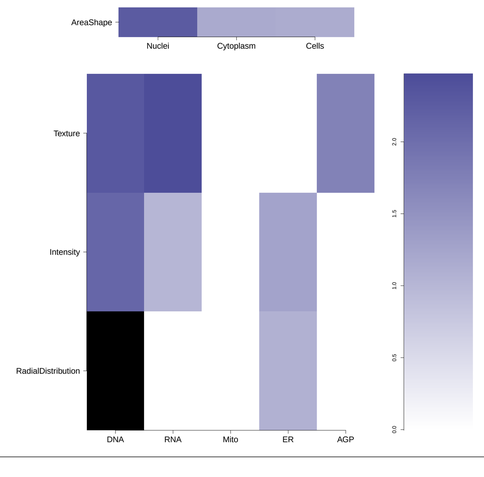
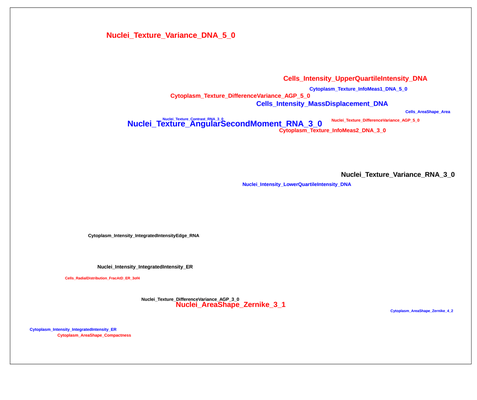


Empty	NOTCH1_ICN1.1 (41744)	NOTCH1_ICN1.1 (41755)	NOTCH1_ICN1.1 (41756)	NOTCH1_ICN1.1 (41757)	NOTCH1_ICN1.1 (41754)
RNA						
DNA						

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-K19608696-001-04-5 MLS001121487 HMS1859H04 HMS2253I17 ZINC6818267 ZINC06818267 SMR000626594 E157-5383 PubChem CID : 16017323		NA (in 1 replicates)	0.58	NA				Total number of assays tested in: 508. Active in the following assays: • qHTS Screen for Compounds that Selectively Target Cancer Cells with p53 Mutations: Cytotoxicity of p53ts Cells at the Nonpermissive Temperature (AID 902) • qHTS Screen for Compounds that Selectively Target Cancer Cells with p53 Mutations: Cytotoxicity of p53 Null Cells at the Nonpermissive Temperature (AID 904) • A screen for compounds that inhibit cell wall-associated teichoic acid synthesis in Staphylococcus aureus (AID 463173) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718) • Absorbance-based biochemical high throughput confirmation assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651822)
BRD-K01023753-001-01-3 PubChem CID : 54618527		0.76 (in 4 replicates)	0.51	0.014				Total number of assays tested in: 37.
BRD-K11652878-001-01-7 PubChem CID : 54619350		0.57 (in 4 replicates)	0.46	0.763				Total number of assays tested in: 38.
BRD-A41298308-001-04-9 SMR000092771 MLS000115745 AC1N9VEX BDBM34511 HMS2260A06 STK498268 CCG-119883 PubChem CID : 4416981		0.56 (in 2 replicates)	0.42	NA				Total number of assays tested in: 804. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633) • HIV-1 RT-RNase H MLSCN HTS MH077605 Confirmation Assay (AID 651) • HIV-1 RT-RNase H MLSCN MH077605 Probe Assessment: Dose response Assay (AID 652) • Estrogen Receptor-alpha Coactivator Binding Inhibitors Dose Response Confirmation (AID 713) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • uHTS absorbance assay for the identification of compounds that inhibit PHOSPHO1 (AID 1565) • TR-FRET-based primary biochemical high-throughput screening assay to identify inhibitors of Hepatitis C Virus (HCV) core protein dimerization (AID 1899) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • HTS for Inhibitors of HP1-beta Chromodomain Interactions with Methylated Histone Tails (AID 540317) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • qHTS for Inhibitors of PI5P4K: Confirmation in Primary Assay (AID 743286)
BRD-K17293545-001-01-7 PubChem CID : 54633912		0.55 (in 3 replicates)	0.42	0.763				Total number of assays tested in: 36.

BRD-K93520959-001-04-3 AC1LD8YV MLS000040033 HMS1551O14 HMS2339D15 ZINC8581356 STK771944 ZINC08581356 SMR000059741 ST4083401 PubChem CID : 663197		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 763. Active in the following assays: • qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590) • CYP2C19 Assay (AID 778) • qHTS Assay for Identification of Small Molecule Antagonists for Hypoxia Response Element Signaling Pathway (AID 915) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay using a high concentration of mannose 6-phosphate (AID 1220) • AlphaScreen confirmatory assay for validation of inhibitors of SUMOylation (AID 2018) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • uHTS identification of small molecule modulators of myocardial damage (AID 588492) • Discovery of small molecule inhibitors of the oncogenic and cytokinetic protein MgcRacGAP - Primary and Confirmatory Screens (AID 624330) • Discovery of small molecule inhibitors of the oncogenic and cytokinetic protein MgcRacGAP - Counter Screen Coupled Enzyme (AID 624351)
BRD-K82535917-001-05-2 ST042991 ZINC00029939 AC1LDLZ6 MLS000107661 ZINC29939 HMS2504L08 SMSF0006667 STK080853 CB01805 SMR000103626 T5677917 PubChem CID : 669360		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 776. Active in the following assays: • CYP2C19 Assay (AID 778) • qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938) • Counterscreen for inhibitors of PP5: fluorescence-based biochemical high throughput primary assay to identify inhibitors of Protein Phosphatase 1 (PP1). (AID 2235) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment (AID 2417) • High Throughput Screen to Identify Inhibitors Targeting HIV-1 Vif-dependent Degradation of Human APOBEC3G: A time-resolved fluorescence resonance energy transfer (TR-FRET) assay for HIV-1 Vif-APOBEC3G interaction (AID 1117319)
BRD-K72545968-001-06-9 MLS000391760 SMR000260795 AC1O211V BDBM52498 HMS2624P14 ZINC25330034 ST4079895 T0505-4729 PubChem CID : 6162602		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 649. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Fluorescent Polarization Homogeneous Dose Response HTS to Indentify Inhibitors of POS-1 Binding to mex-3-RNA (AID 1964) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215) • uHTS identification of small molecule inhibitors of the catalytic domain of the SUMO protease, SENP1 in a FRET assay (AID 624204) • Single concentration confirmation of small molecule inhibitors of the catalytic domain of the SUMO protease, SENP1 in a FRET assay (AID 651678) • Single concentration confirmation of small molecule inhibitors of the catalytic domain of the SUMO protease, SENP1 in a kinetic FRET assay (AID 651690) • Dose response confirmation of small molecule inhibitors of the catalytic domain of the SUMO protease, SENP1 in a kinetic FRET assay (AID 651697) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)
BRD-K07726175-001-06-4 MLS000101513 SMR000017682 F0600-1566 ZINC02723956 AC1M1ZD5 MLS002152803 BDBM39509 HMS2244B03 ZINC2723956 PubChem CID : 2159329		NA (in 1 replicates)	-0.64	NA				Total number of assays tested in: 760. Active in the following assays: • Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633) • Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 803) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021) • uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022) • Dose Response Confirmation for Mcl-1/Bid Interaction Inhibitors (AID 1418) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) • qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580)
BRD-K83821605-001-05-2 ST50183659 AC1LTBU0 MLS000711257 HMS2628J07 ZINC13401949 BAS 02140097 SMR000281024 PubChem CID : 1556125		NA (in 1 replicates)	-0.60	NA				Total number of assays tested in: 610. Active in the following assays: • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820)

BRD-K83426826-001-06-1 SMR000207607 AC1O1ODV MLS000585826 HMS2561O13 STL086726 PubChem CID : 6176152		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 651. Active in the following assays: • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529) • High Throughput Imaging Assay for Beta-Catenin (AID 1665) • HCS assay for microtubule stabilizers (AID 2205) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • 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) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • HTS to Find Inhibitors of Pathogenic Pemphigus Antibodies (AID 588358) • Specificity screen against KCNQ2 for identification of compounds that inhibit KCNQ1 potassium channels (AID 651746) • Specificity screen against KCNQ1/KCNE1 for identification of compounds that inhibit KCNQ1 potassium channels (AID 652147) • 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)
BRD-K93036943-001-05-6 SMR000048767 AC1LDI1F MLS000042562 MLS001306498 HMS2423B07 ZINC2365851 STK590260 PubChem CID : 667410		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 750. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Human Endothelial Cell Proliferation Assay in 384-well format (AID 648) • CYP2C19 Assay (AID 778) • ALDH1A1 Assay for Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • High-content cell-based screening for modulators of autophagy (AID 463193) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • 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)
BRD-K29081836-001-01-0 PubChem CID : 54641093		NA (in 1 replicates)	-0.55	NA				Total number of assays tested in: 40.
BRD-K25367375-001-01-4 PubChem CID : 54641172		NA (in 1 replicates)	-0.55	NA				Total number of assays tested in: 38.
BRD-K89467820-001-05-7 SMR000026324 AC1MMP6W MLS000091777 MLS000876883 HMS2333I14 ZINC4077889 STK853905 ZINC04077889 PubChem CID : 3242258		NA (in 1 replicates)	-0.53	NA				Total number of assays tested in: 766. Active in the following assays: • uHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb via a fluorescence resonance energy transfer (FRET) assay. (AID 1496) • Cytochrome panel assay with activity outcomes (AID 1851)