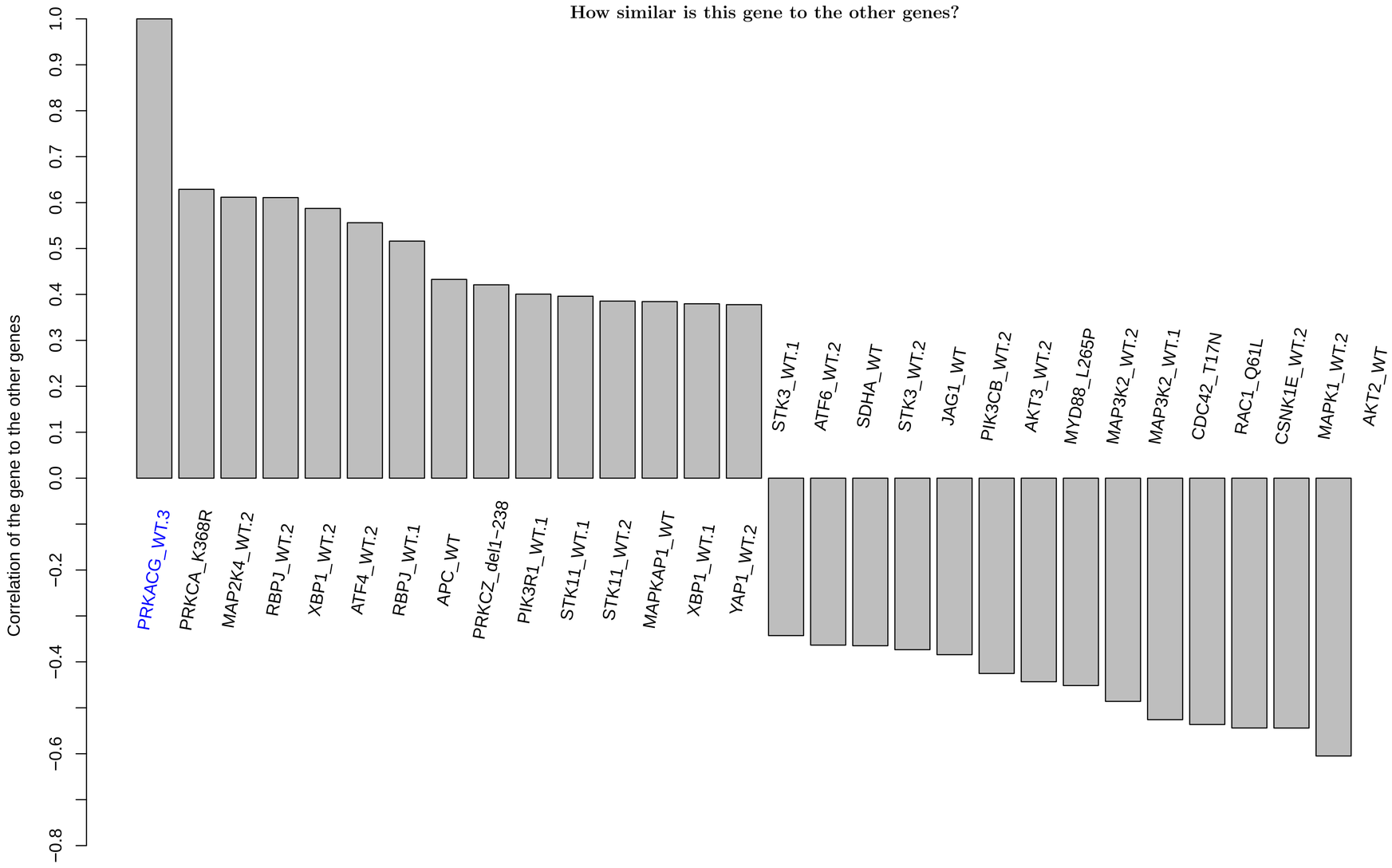
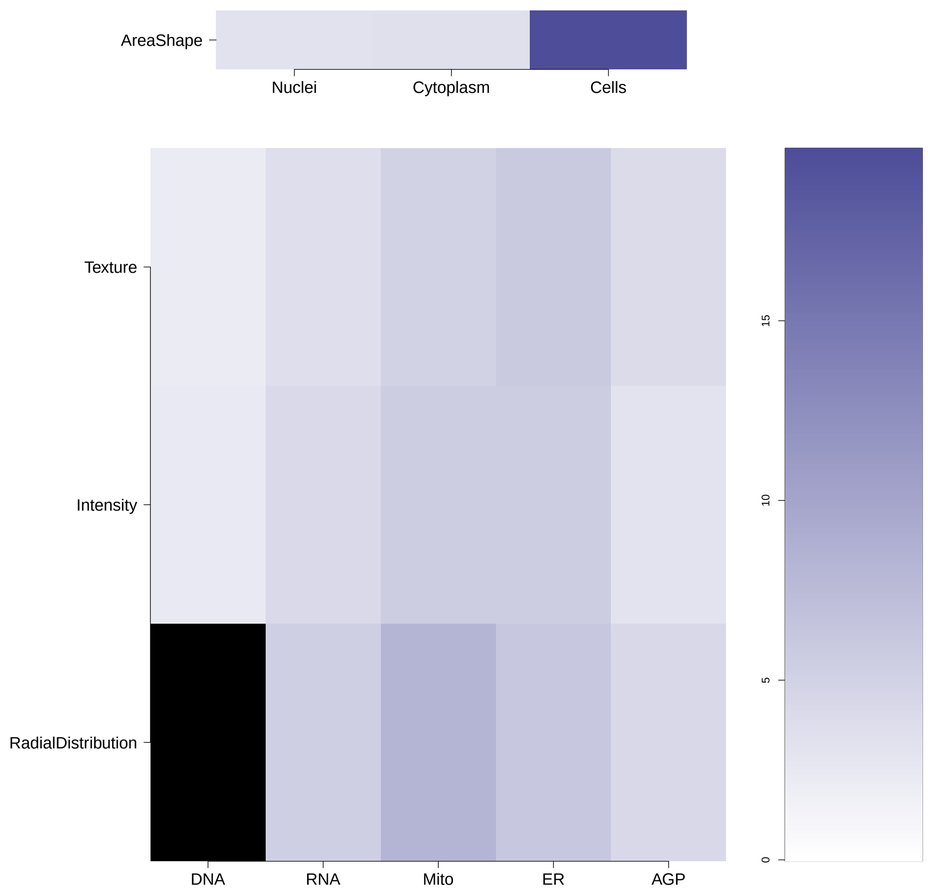
PRKACG_WT.3 - in PKA

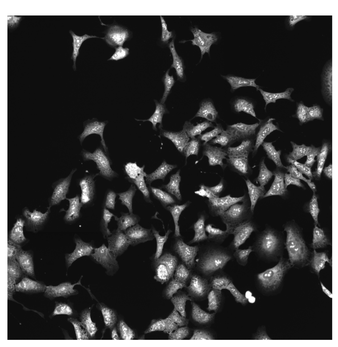
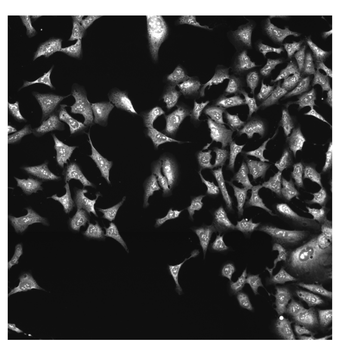
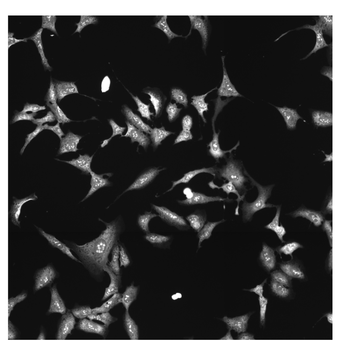
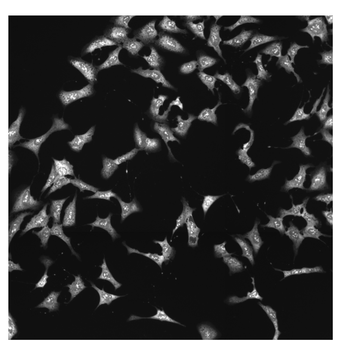
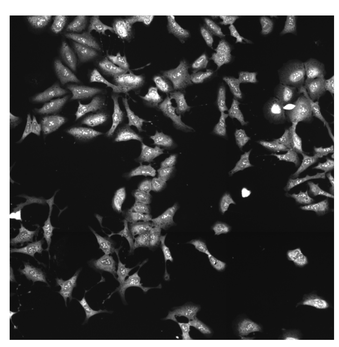
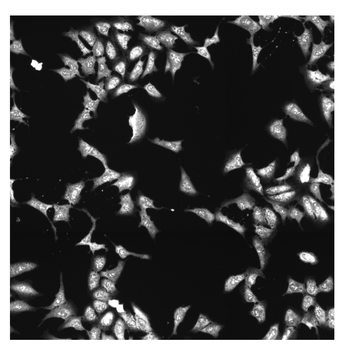
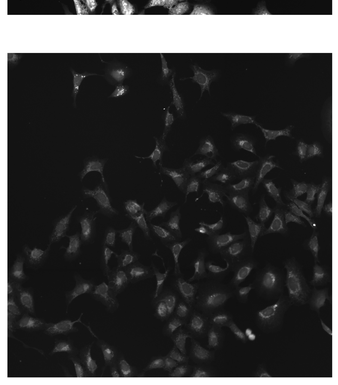
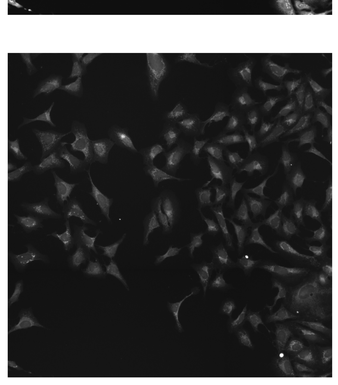
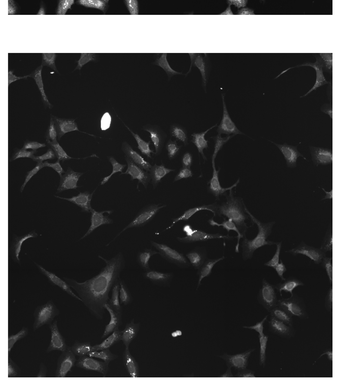
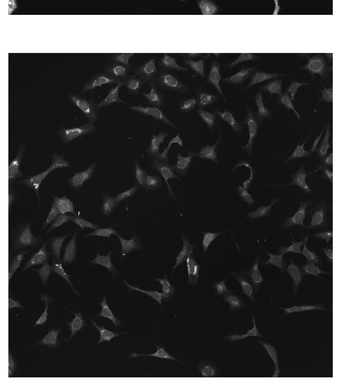
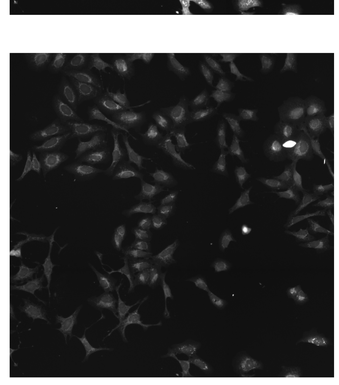
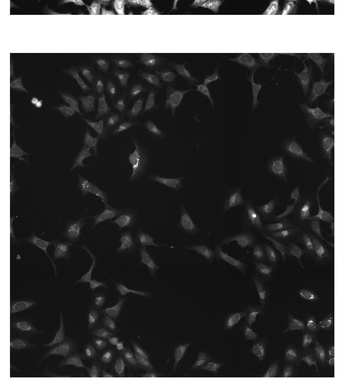
How similar is this gene to the other genes?



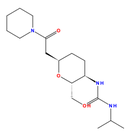
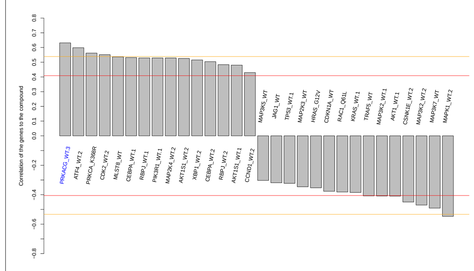
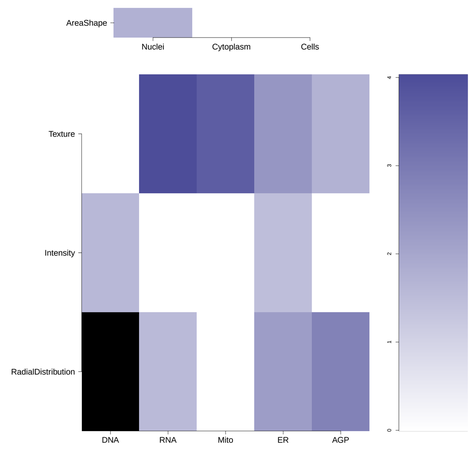
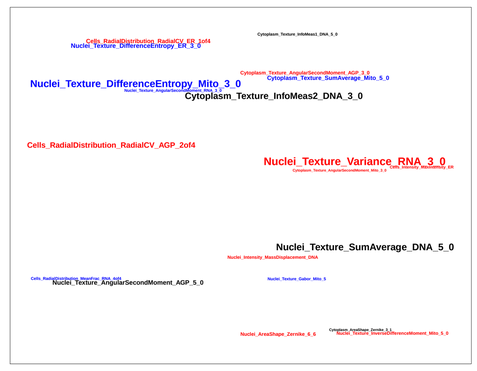
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

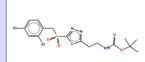
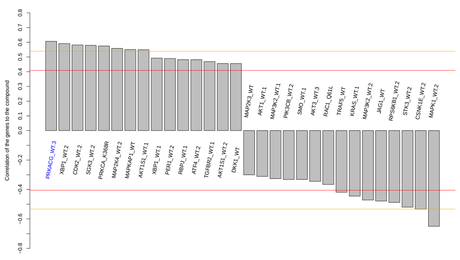
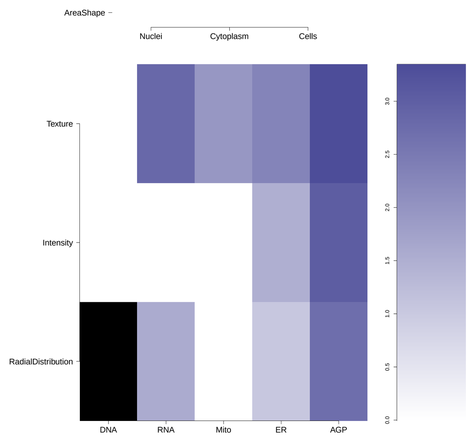


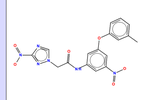
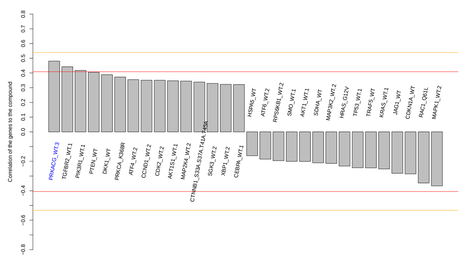
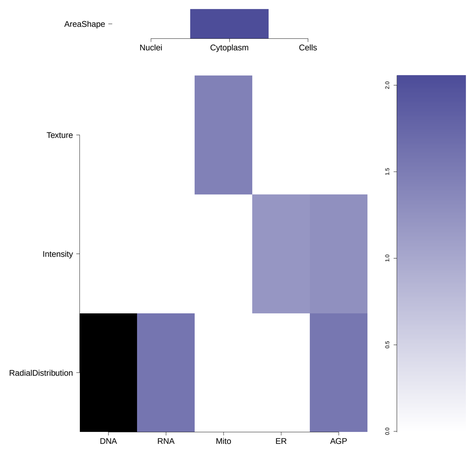
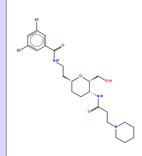
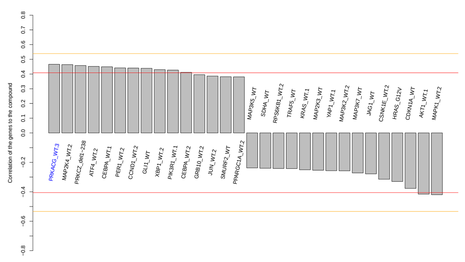
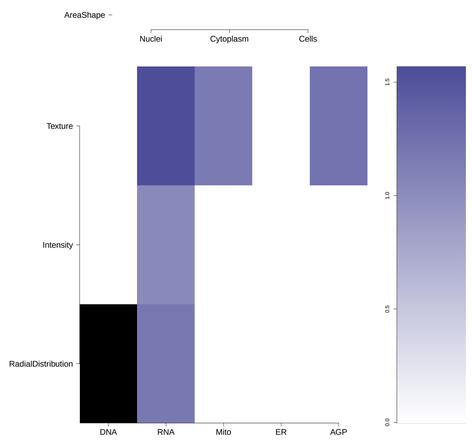
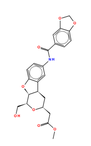
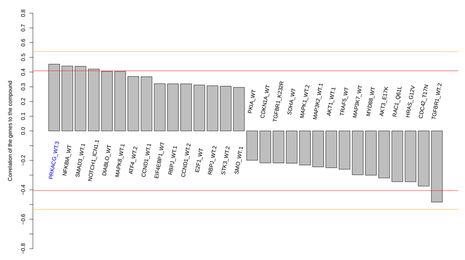
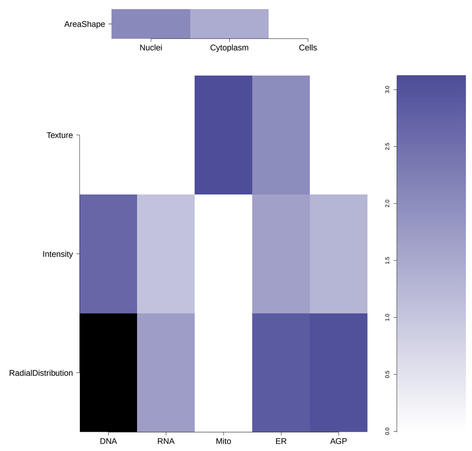
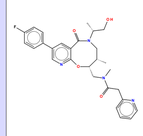
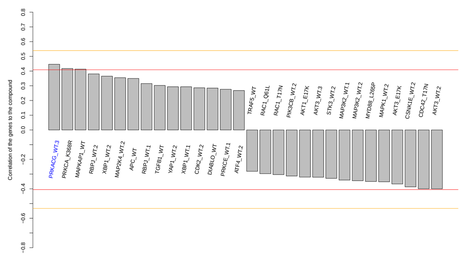
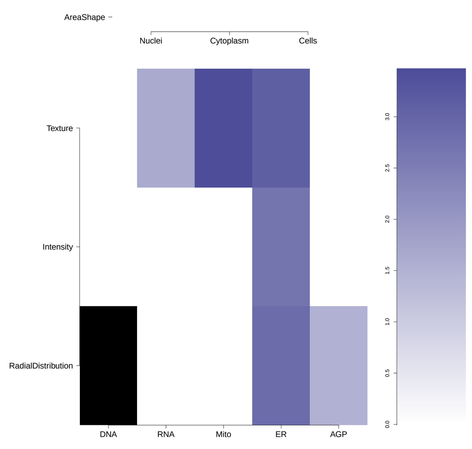
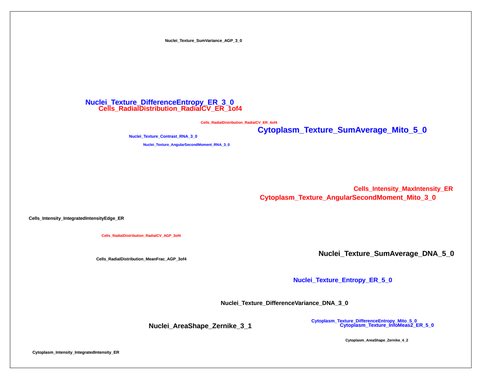
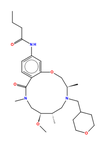
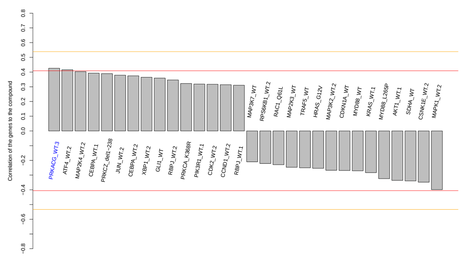
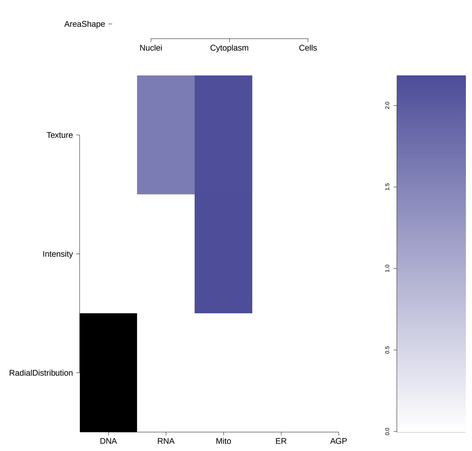
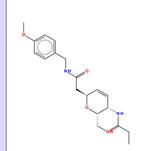
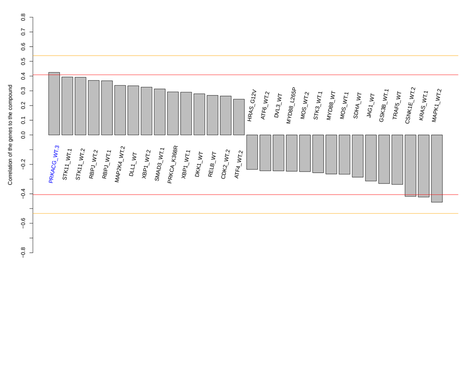
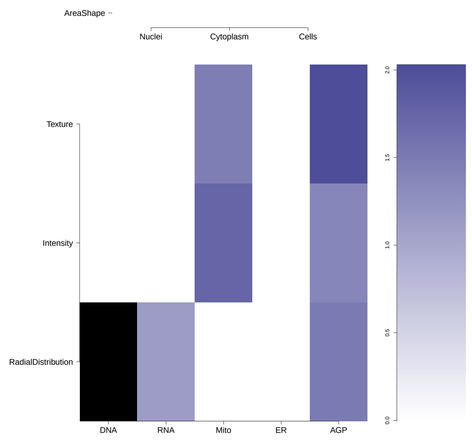
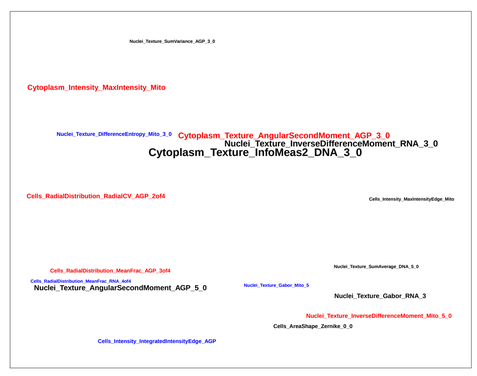
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

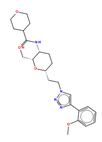
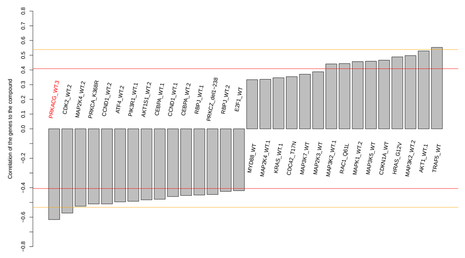
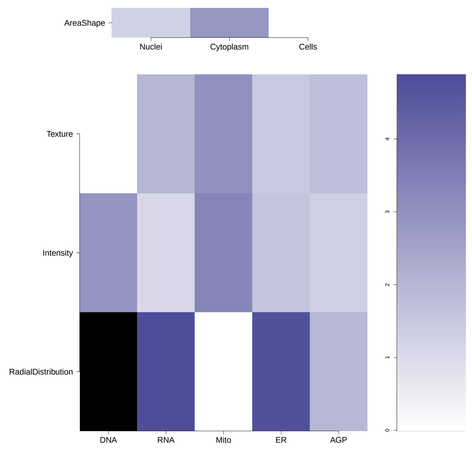
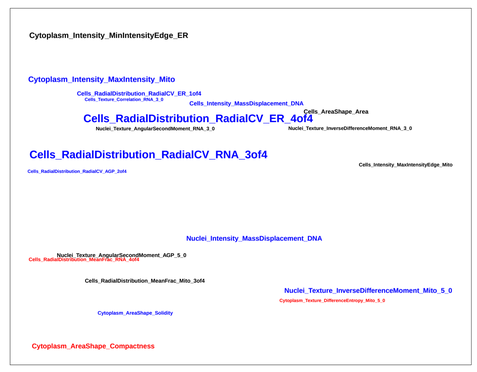
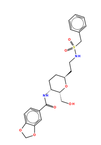
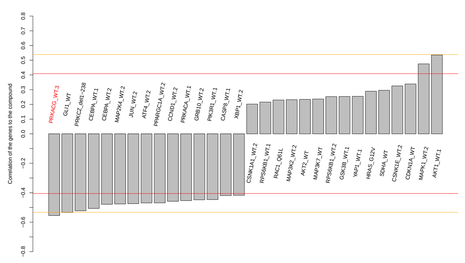
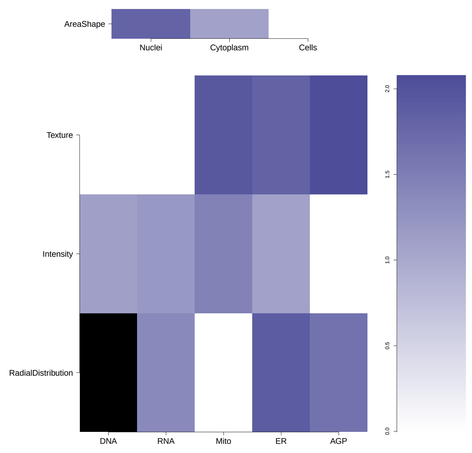
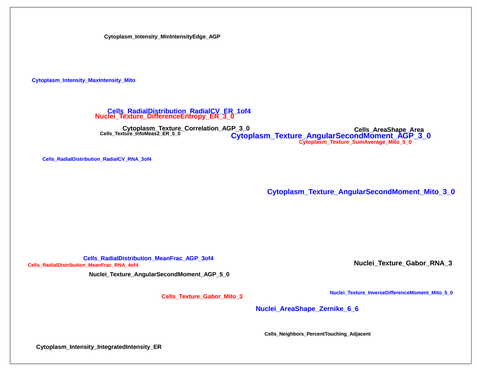
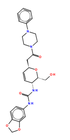
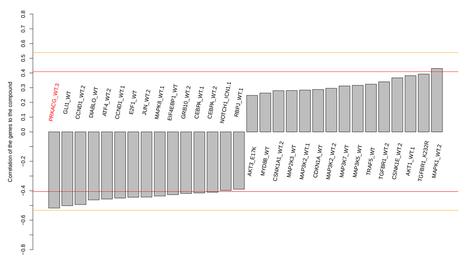
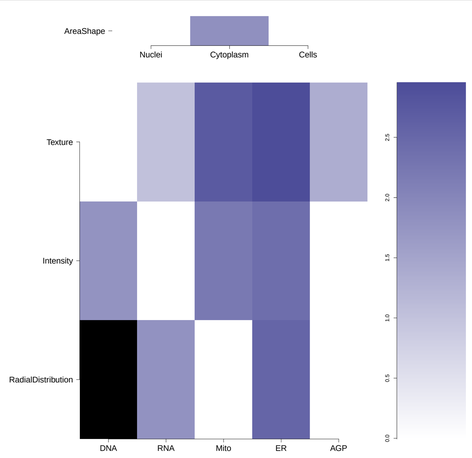
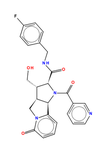
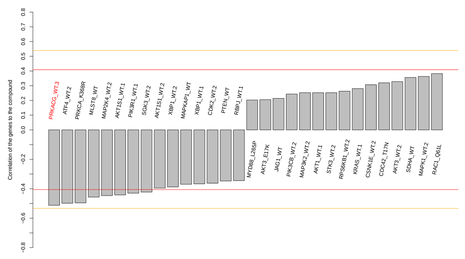
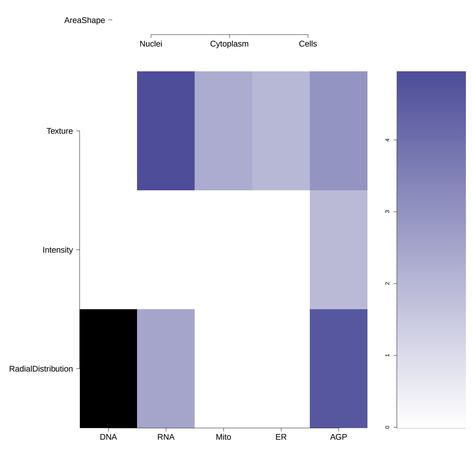
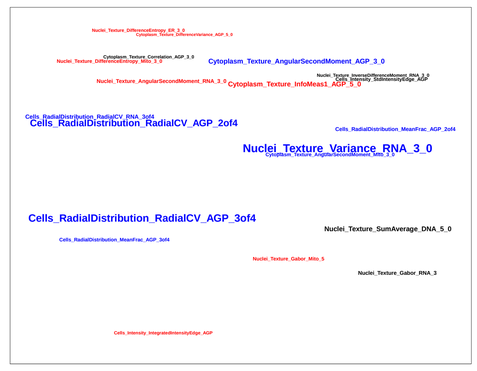
Empty	PRKACG_WT.3 (41744)	PRKACG_WT.3 (41755)	PRKACG_WT.3 (41756)	PRKACG_WT.3 (41757)	PRKACG_WT.3 (41754)
RNA						
Mito						

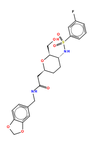
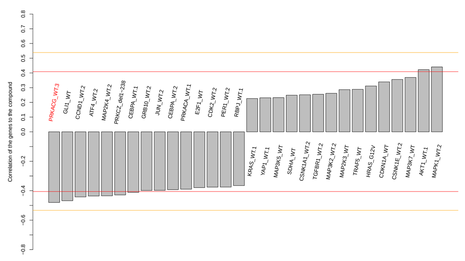
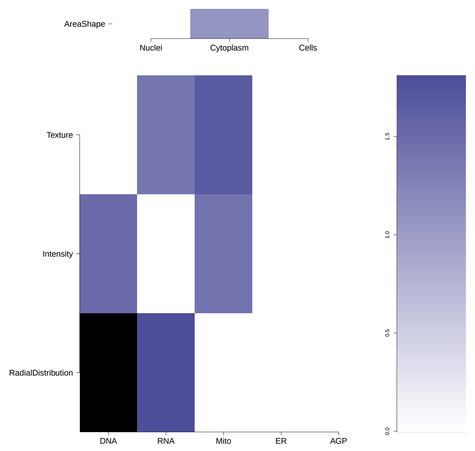
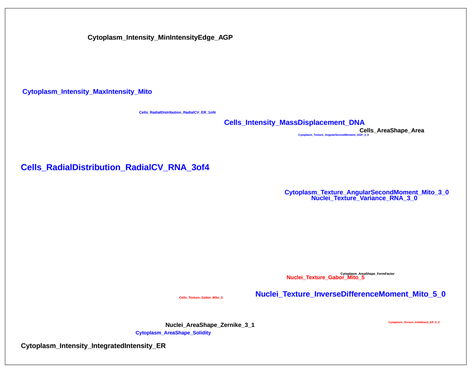
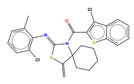
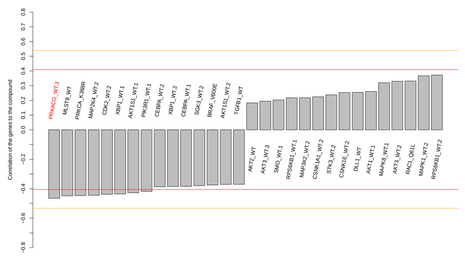
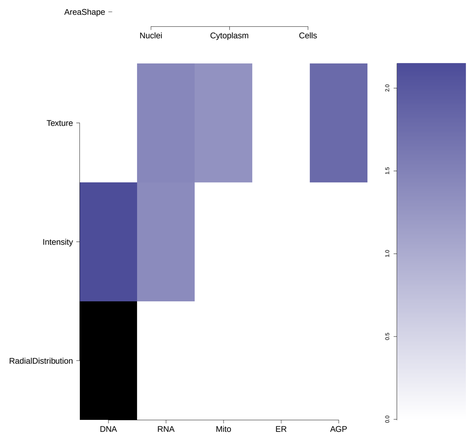
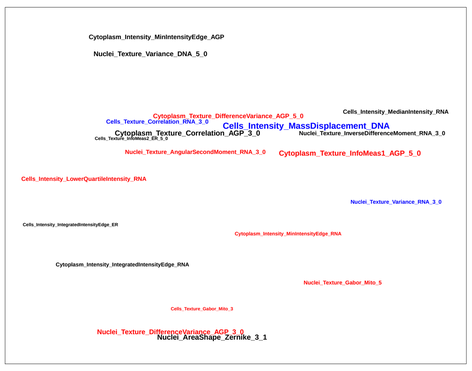
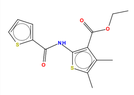
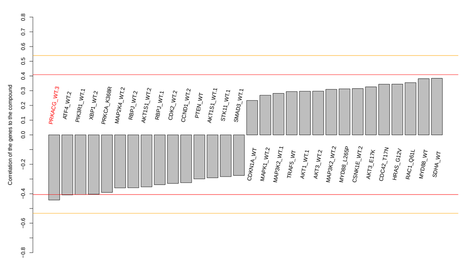
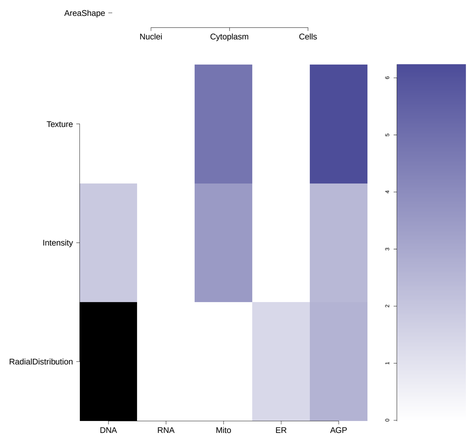
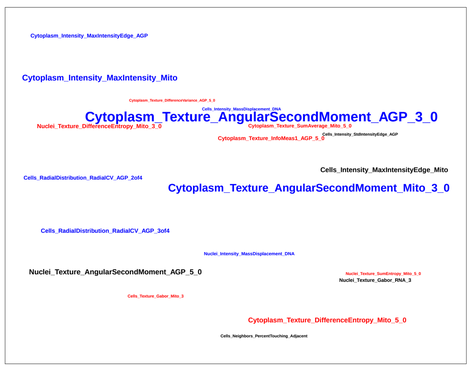
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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-K43695862-001-01-6 PubChem CID : 54641228		NA (in 1 replicates)	0.63	NA				Total number of assays tested in: 35.

BRD-K24598397-001-08-4 MLS000041932 SMR000046713 ZINC02419575 AC1LDDTU MLS002583822 CHEMBL259018 BDBM66247 HMS2273E06 ZINC2419575 STL348854 PubChem CID : 665449		NA (in 1 replicates)	0.61	NA				Total number of assays tested in: 814. Active in the following assays: • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 584) • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 585) • Primary HTS assay for 5-Hydroxytryptamine (Serotonin) Receptor Subtype 1a (5HT1a) antagonists (AID 612) • Isolation of Inhibitors of Her-Kinase Expression - 66K library screen (AID 645) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Confirmation Concentration-Response Assay for Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 1002) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) • uHTS luminescence assay for the identification of compounds that inhibit NOD2 (AID 1566) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688) • Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094) • Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of A1 Apoptosis. (AID 2462) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Inhibition of beta-lactamase AmpC (AID 318865) • Inhibition of beta-lactamase AmpC in presence of 0.1% Triton X-100 (AID 318866) • Inhibition of chymotrypsin (AID 318867) • Inhibition of chymotrypsin in presence of 0.1% Triton X-100 (AID 318868) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010) • Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaB-Intein Splicing Activity (AID 449749) • Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE.sh.eGFP (AID 463074) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028) • A Cell Based Secondary Assay to Explore Compounds that Modulate Non-Replicating, Drug-tolerant Compounds in Replicating H37Rv TB of Mycobacterium tuberculosis (AID 492952) • XBP1 DR counterscreen for CHOP (AID 504313) • CHOP Confirmatory Screen (AID 504437) • Antagonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504810) • Inverse Agonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504812) • TRFRET-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): antagonists of MC4R (AID 540295) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • uHTS identification of cystic fibrosis induced NFkb Inhibitors in a fluoresence assay (AID 588850) • qHTS for Inhibitors of TGF-b (AID 588855) • qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856) • TRFRET-based cell-based high throughput confirmation assay for biased ligands (antagonists) of the melanocortin 4 receptor (MC4R) (AID 602195) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator 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 MCF 10a normal breast cells. (AID 624296) • Single concentration confirmation of uHTS inhibitor hits of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 624325) • Dose response confirmation of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a kinetic, fluorescence intensity assay (AID 624326) • Dose response confirmation of uHTS inhibitor hits of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 624327) • Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612) • qHTS for Inhibitors of ATXN expression (AID 651635) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • 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) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K23860736-001-04-8 BAS 00535158 AC1LYXQ4 MLS000566921 HMS2574L15 ZINC2287951 STK342654 ZINC02287951 SMR000175371 ST50686648 PubChem CID : 1910052		NA (in 1 replicates)	0.48	NA				Total number of assays tested in: 586. Active in the following assays: • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - 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) • Leishmania major promastigote HTS (AID 1063) • Counterscreen for PME1 inhibitors: fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of lysophospholipase 2 (LYPLA2). (AID 2177) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the plasma platelet activating factor acetylhydrolase (pPAFAH) (AID 463082) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • Fluorescence-based biochemical high throughput screening primary assay to identify inhibitors of Crimean-Congo Hemorrhagic Fever (CCHF) viral ovarian tumor domain protease (vOTU): Pep-AMC substrate (AID 651958) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-gamma1). (AID 720700)
BRD-K10301055-001-01-7 PubChem CID : 54640732		0.72 (in 4 replicates)	0.47	0.025				Total number of assays tested in: 36.
BRD-K74287511-001-01-9 PubChem CID : 54645804		NA (in 1 replicates)	0.45	0.048				Total number of assays tested in: 40.
BRD-K46718584-001-01-0 PubCID : 54618515		0.59 (in 4 replicates)	0.45	0.194				Total number of assays tested in: 37.
BRD-K82073510-001-01-4 PubCID : 54632730		0.55 (in 4 replicates)	0.43	NA				Total number of assays tested in: 40.
BRD-K45134947-001-01-3 PubCID : 54641064		NA (in 1 replicates)	0.43	NA				Total number of assays tested in: 37.

BRD-K73980669-001-01-0 PubChem CID : 54641250		NA (in 1 replicates)	-0.62	NA				Total number of assays tested in: 37.
BRD-K08899466-001-01-7 PubChem CID : 54639932		0.64 (in 4 replicates)	-0.56	0.160				Total number of assays tested in: 36.
BRD-K59223592-001-01-5 PubChem CID : 54641275		NA (in 1 replicates)	-0.52	NA				Total number of assays tested in: 40.
BRD-K94081674-001-01-5 PubChem CID : 54661062		0.65 (in 4 replicates)	-0.51	NA				Total number of assays tested in: 31.
BRD-K16469239-001-01-5 PubChem CID : 54641244		NA (in 1 replicates)	-0.50	NA				Total number of assays tested in: 37.
BRD-K06127304-001-01-1 PubChem CID : 54646684		0.55 (in 3 replicates)	-0.50	0.312				Total number of assays tested in: 38.
BRD-K16068142-001-01-1 PubChem CID : 54649227		0.74 (in 2 replicates)	-0.49	0.312				Total number of assays tested in: 38.

BRD-K48556518-001-01-3 PubChem CID : 54640049		0.53 (in 4 replicates)	-0.48	0.793				Total number of assays tested in: 36.
BRD-K07079807-001-05-6 MLS000757021 NSC310325 HMS542B07 HMS2886D13 AC1L7462 ZINC1569236 ZINC01569236 NSC-310325 SMR000528914 PubChem CID : 329164		NA (in 1 replicates)	-0.46	NA				Total number of assays tested in: 573. Active in the following assays: • 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 antagonize MrgX1 receptor signaling (AID 588676) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • Luminescent GLuc Reporter Gene Assay Primary HTS to Identify Small Molecule Activator of Glucose Dependent Insulin Secretion Measured in Cell-Based System Using Plate Reader - 7055-01_Activator_SinglePoint_HTS_Activity (AID 743287)
BRD-K64260848-001-05-3 SMR000008813 MLS000069000 AC1LCIQT MLS002537577 HMS2178N03 ZINC247412 STK371178 ZINC00247412 CCG-103902 BAS 00396332 ST50911748 VU0187250-4 PubChem CID : 650856		0.53 (in 4 replicates)	-0.44	NA				Total number of assays tested in: 795. 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) • Cell signaling CRE-BLA (Fsk stim) (AID 662) • Fluorescence-based cell-based primary high throughput screening assay to identify positive allosteric modulators (PAMs) of the human cholinergic receptor, muscarinic 5 (CHRM5) (AID 624038) • 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)