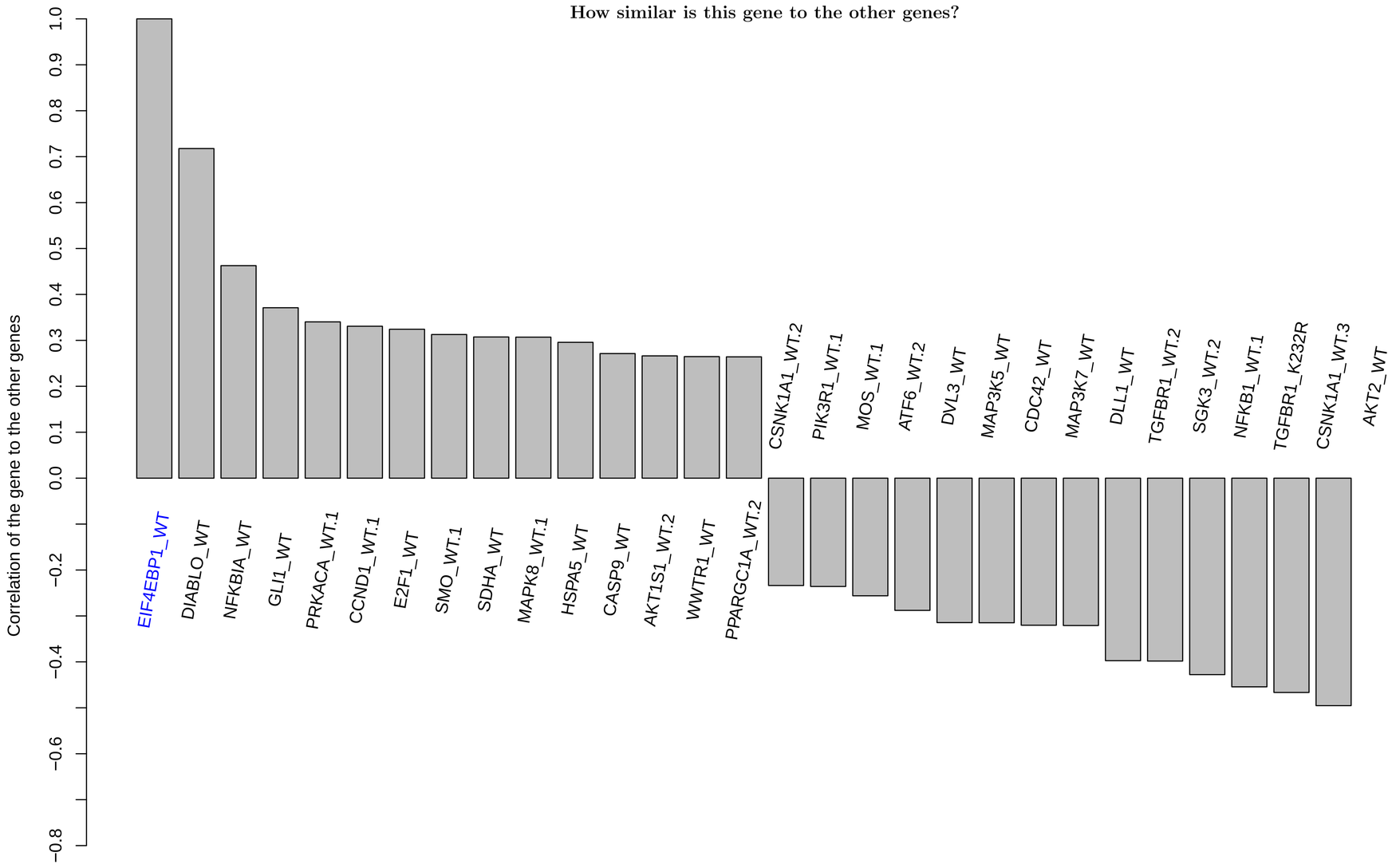
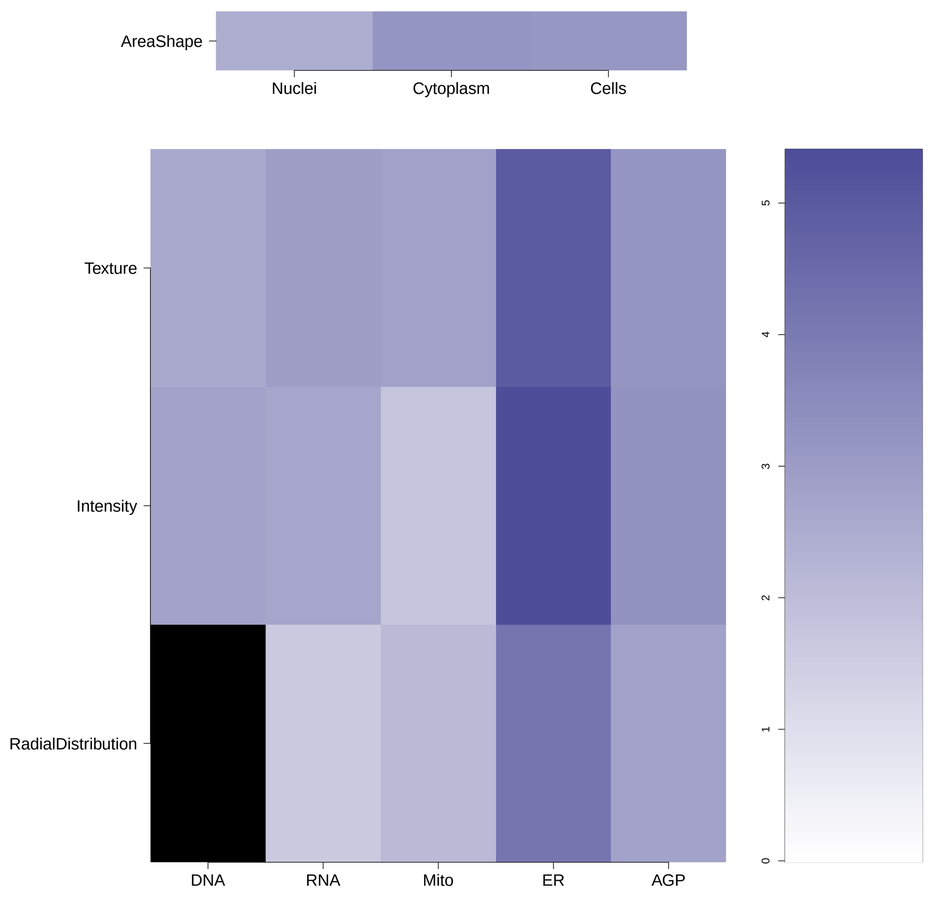
EIF4EBP1_WT - in Canonical TOR

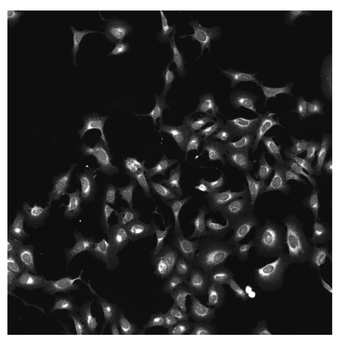
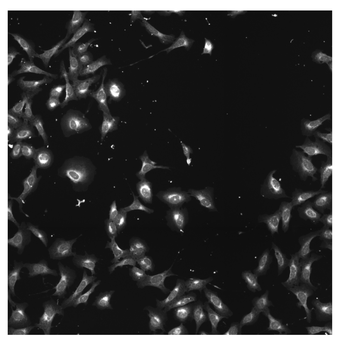
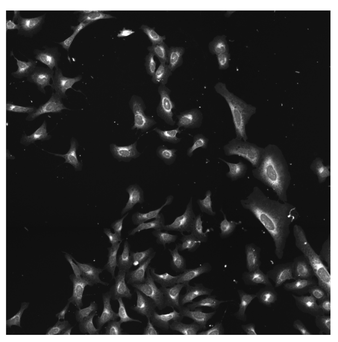
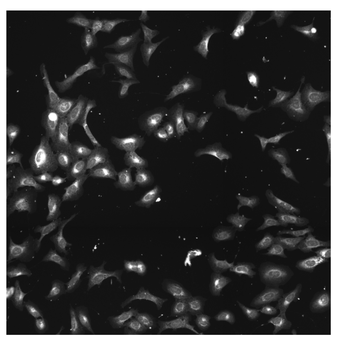
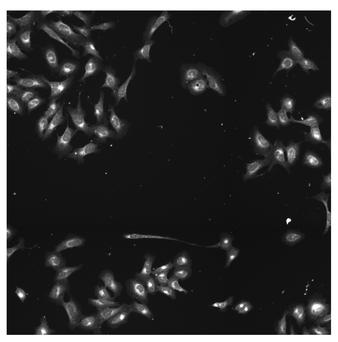
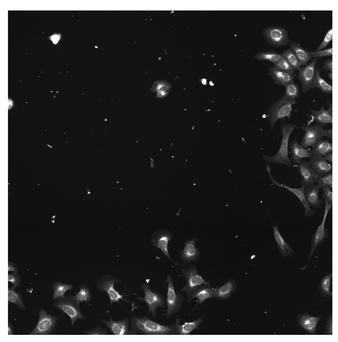
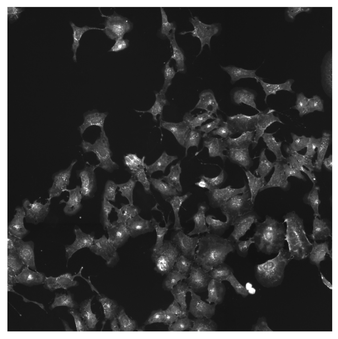
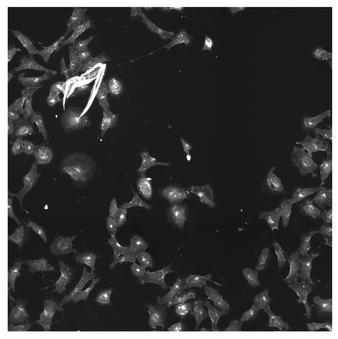
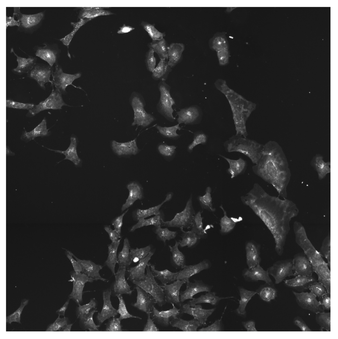
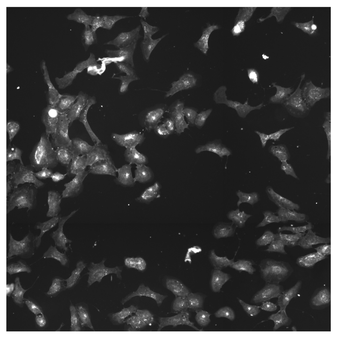
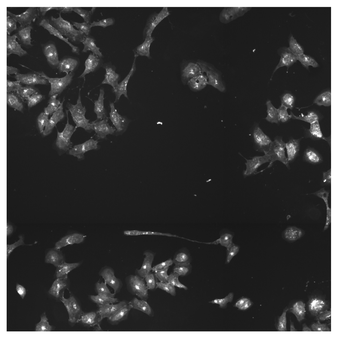
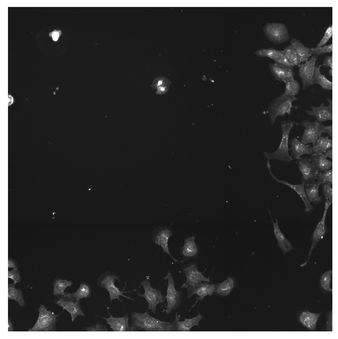
How similar is this gene to the other genes?



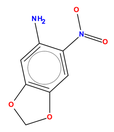
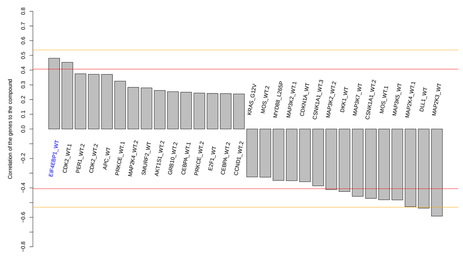
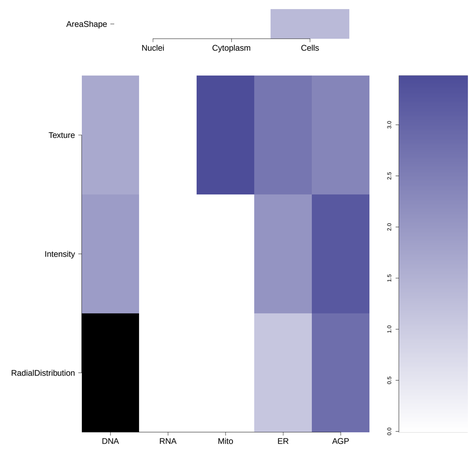
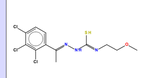
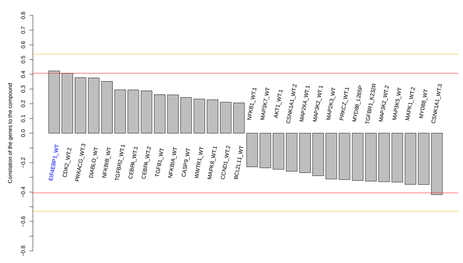
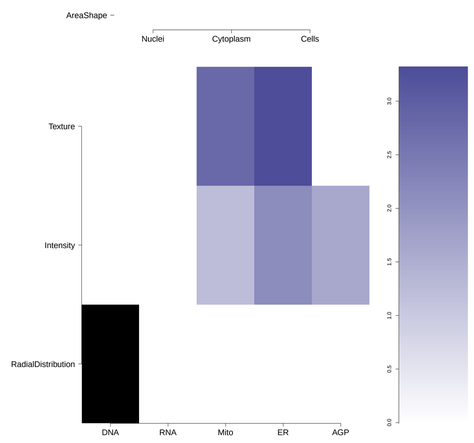
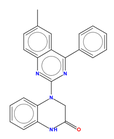
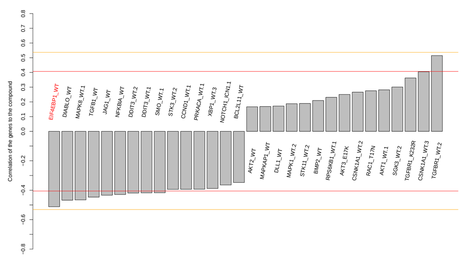
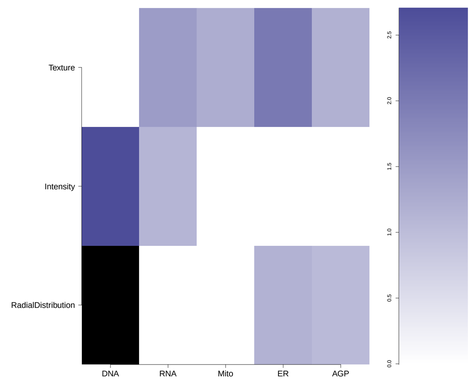
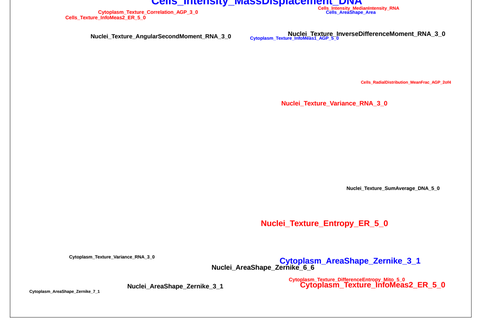
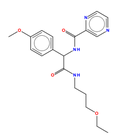
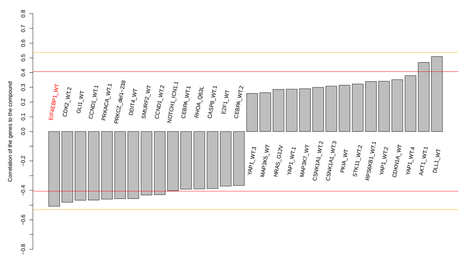
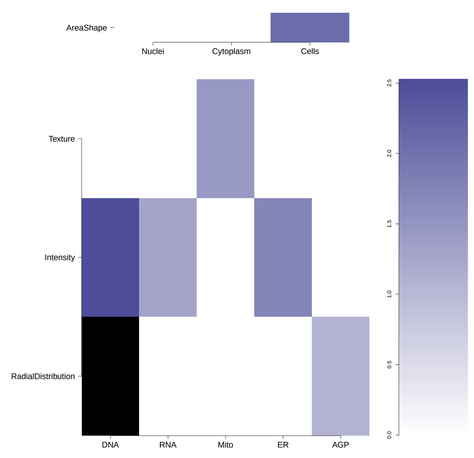
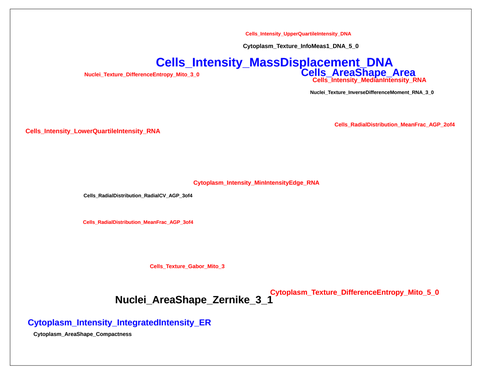
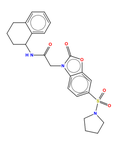
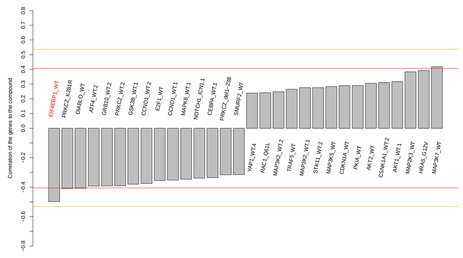
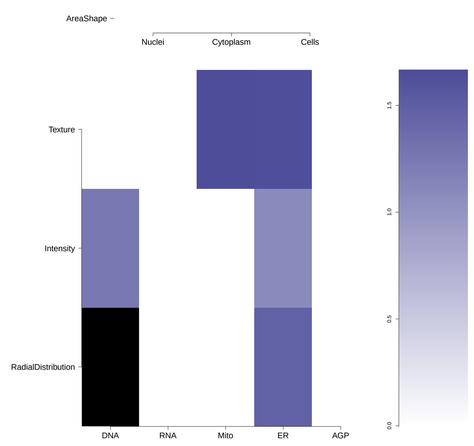
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

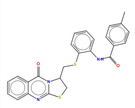
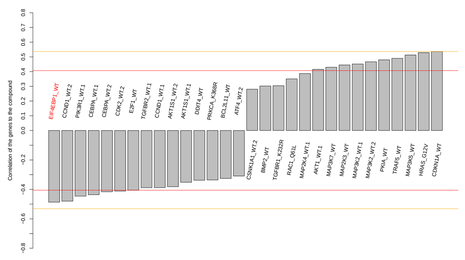
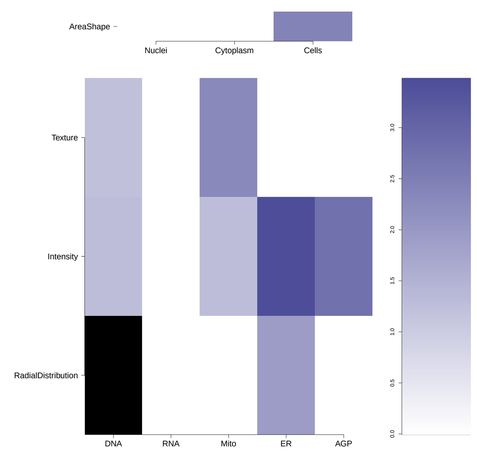
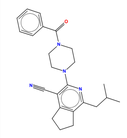
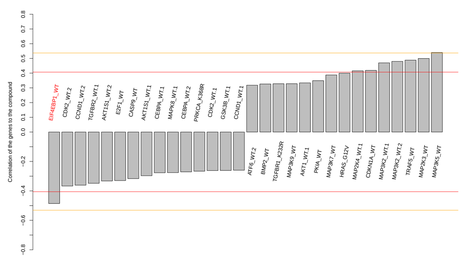
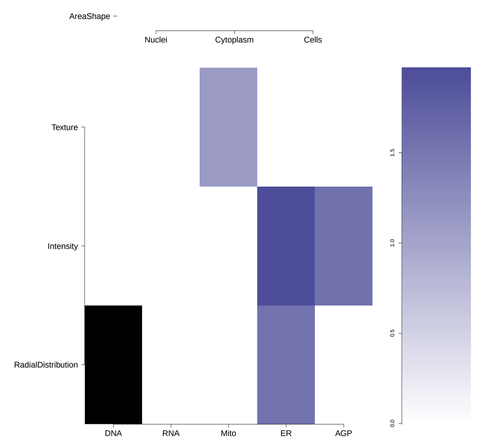


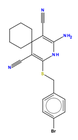
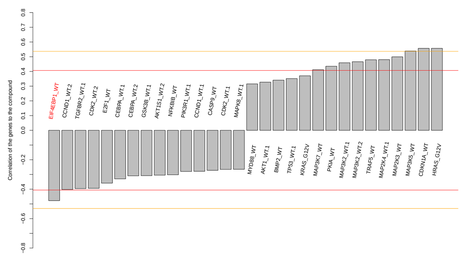
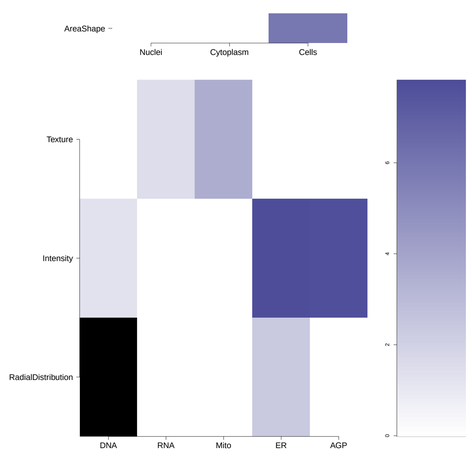
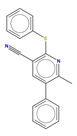
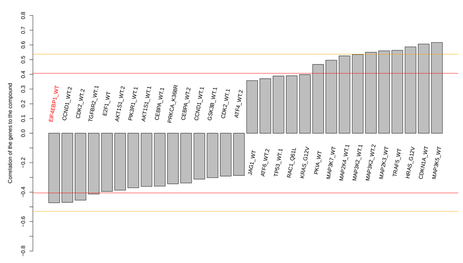
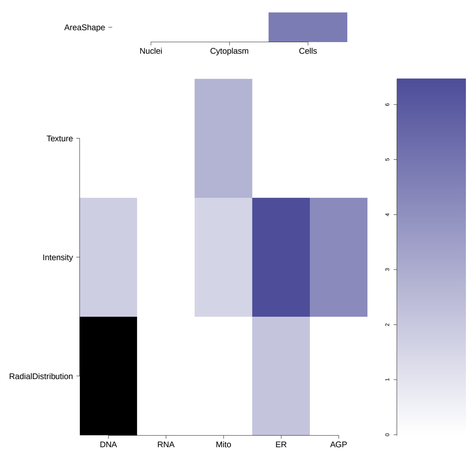
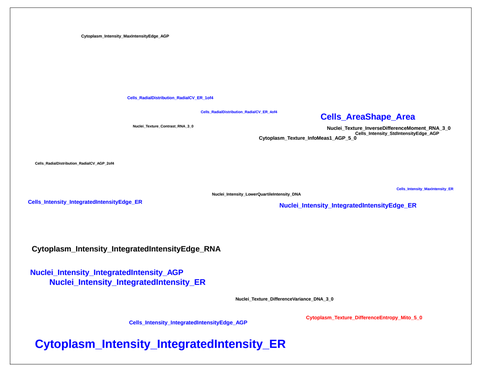
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

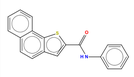
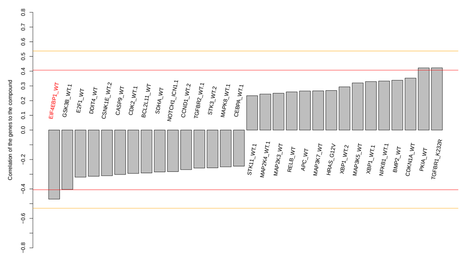
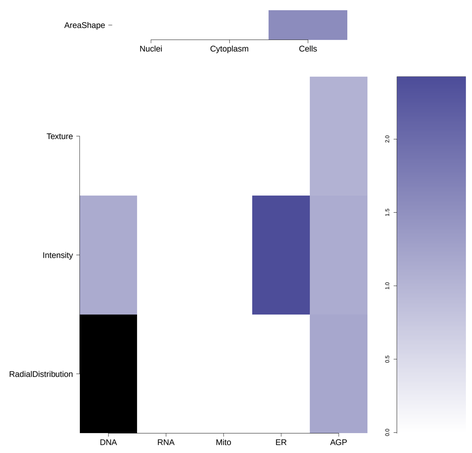
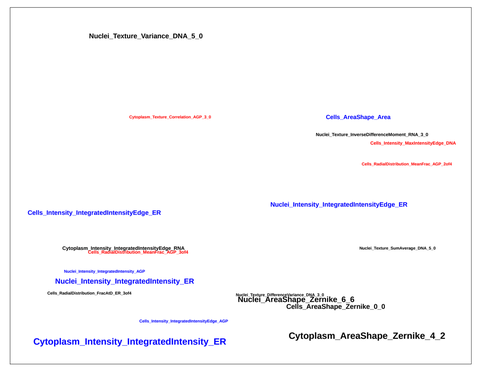
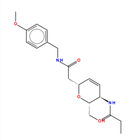
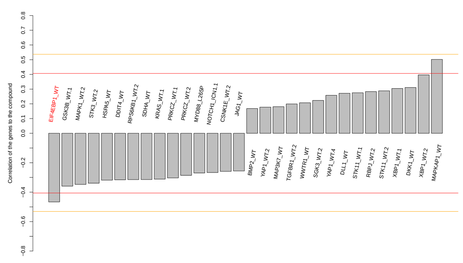
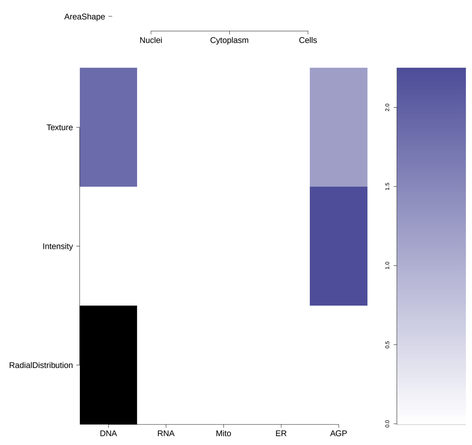
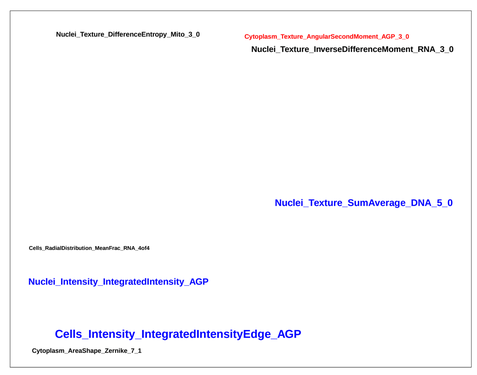
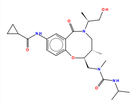
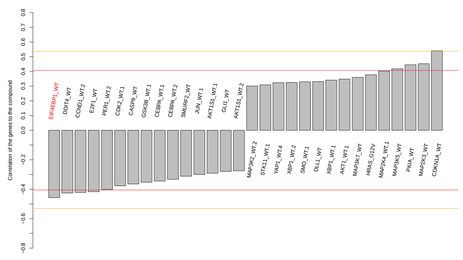
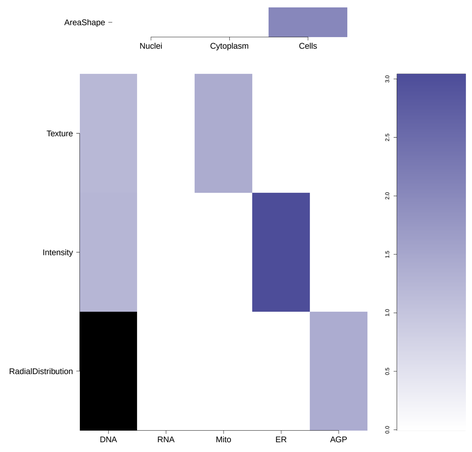
	Empty	EIF4EBP1_WT (41744)	EIF4EBP1_WT (41755)	EIF4EBP1_WT (41756)	EIF4EBP1_WT (41757)	EIF4EBP1_WT (41754)
ER						
AGP						

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-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)	0.48	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-K38777862-001-05-0 T0514-7538 MLS001033083 ZINC13132983 SMR000385530 PubChem CID : 9609021		0.54 (in 4 replicates)	0.42	NA				Total number of assays tested in: 626. Active in the following assays: • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • uHTS identification of small molecule antagonists of the APJ receptor via a luminescent beta-arrestin assay (AID 2521) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • qHTS of GLP-1 Receptor Inverse Agonists: Cytotox Screen (AID 624418) • 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-K26720351-001-04-5 F0324-0011 SMR000235950 AC1N2WPT MLS000722326 HMS594A03 HMS2562D13 ZINC754028 ZINC00754028 EU-0037277 PubChem CID : 4078248		NA (in 1 replicates)	-0.51	NA				Total number of assays tested in: 585. 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 (AID 818) • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021) • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045) • Primary Cell-based High Throughput Screening Assay for Inhibitors of Wee1 Degradation (AID 1321) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • HTS to identify compounds that promote myeloid differentiation with MLPCN compound set (AID 624256) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • 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)
BRD-A75281937-001-05-0 STK142432 SMR000021994 AC1MMAYC MLS000044210 MLS002585963 HMS2317B15 PubChem CID : 3235906		NA (in 1 replicates)	-0.51	NA				Total number of assays tested in: 774.
BRD-A63068258-001-05-6 MLS000119951 SMR000096872 AC1NSE38 BDBM34507 HMS2252B10 CCG-33028 PubChem CID : 5308150		NA (in 1 replicates)	-0.50	NA				Total number of assays tested in: 762. Active in the following assays: • HIV-1 RT-RNase H MLSCN HTS MH077605 (AID 565) • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 585) • 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) • CYP2C9 Assay (AID 777) • Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 803) • Leishmania major promastigote HTS (AID 1063) • qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476) • qHTS Assay for Inhibitors Targeting the Menin-MLL Interaction in MLL Related Leukemias: Competition With Texas Red Labeled MLL-derived Mutant Peptide (AID 1768) • Fluorescence-based counterscreen for orexin 1 receptor (OX1R) antagonists: cell-based assay to identify antagonists of the parental CHO cell line (AID 463079) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131)

BRD-A57474391-001-05-2 1P-321S SMR000179494 AC1NEMD4 MLS000326886 HMS2284G11 PubChem CID : 4594520		0.66 (in 4 replicates)	-0.49	0.302				Total number of assays tested in: 666. Active in the following assays: • Non-Nucleoside Inhibitor of Measles Virus RNA-Dependent RNA Polymerase Complex Activity HTS Single Point (MLSMR Library) (AID 841) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021) • Leishmania major promastigote HTS (AID 1063) • Anti-Viral Drugs Against Arbovirus Infections, a Primary Screen (AID 1251) • 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 assay for cytotoxic compounds using the IEC-6 intestinal epithelial cell line. (AID 1907) • A Cell Based HTS Approach for the Discovery of New Inhibitors of Respiratory syncytial virus (RSV) (AID 2391) • An HTS Cytotoxicity Screen to evaluate New Inhibitors of Respiratory Syncytial Virus (RSV) (AID 2410) • 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 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) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504850) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • A Cell-Based Confirmatory Screen for Compounds that Inhibit VEEV, TC-83 (AID 588727)
BRD-K69464508-001-05-7 SMR000148196 AC1MT1T7 MLS000557279 HMS2405J05 STL303957 ZINC13144315 PubChem CID : 3543597		0.60 (in 3 replicates)	-0.49	NA				Total number of assays tested in: 683. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Confirmatory Screen (AID 1361) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • Cytochrome panel assay with activity outcomes (AID 1851) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Primary cell-based high-throughput screening assay for identification of compounds that allosterically potentiate transient receptor potential cation channel C4 (TRPC4) (AID 2227) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS Assay for Activators of ClpP (AID 651965) • qHTS of TDP-43 Inhibitors (AID 652104)

BRD-K20929305-001-06-0 SMR000114666 AC1LO70Z MLS000594415 HMS2388C12 ZINC4396724 ZINC04396724 PubChem CID : 1215650		0.52 (in 4 replicates)	-0.48	NA				Total number of assays tested in: 674. Active in the following assays: • Leishmania major promastigote HTS (AID 1063) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • Counterscreen qHTS for Inhibitors of Tau Fibril Formation, Fluorescence Polarization (AID 1463) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918) • Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyes cerevisiae_specifically_ MEP2_MLPCN. (AID 2016) • Multiplex HTS Screen of TOR pathway GFP-fusion proteins in Saccharomyes cerevisiae_specifically_ RPL19A_MLPCN. (AID 2025) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Fluorescence-based counterscreen for orexin 1 receptor (OX1R) antagonists: cell-based assay to identify antagonists of the parental CHO cell line (AID 463079) • High throughput fluorescence intensity-based biochemical assay to screen for small molecule inhibitors of Furin conducted by the Pittsburgh Molecular Library Screening Center. (AID 463115) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 488922) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 492953) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of human platelet-activating factor acetylhydrolase 1b, catalytic subunit 2 (PAFAH1B2) (AID 493034) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • Counter screen assay of the parental CHO cells for identification of compounds that inhibit KCNQ1 potassium channels (AID 588366) • Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • Full deck counterscreen for antagonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective inhibitors and assay artifacts using the parental CHOK1 cell line (AID 602250) • qHTS for antagonists of the Thyroid Stimulation Hormone Receptor: Hit Validation in Primary Screen (AID 602292) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 (AID 602410) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • Confirmation assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] (AID 651638) • Specificity screen against KCNQ2 for identification of compounds that inhibit KCNQ1 potassium channels (AID 651746) • Counter screen assay for identification of compounds that inhibit the two-pore domain potassium channel KCNK3 [Primary Screening] in non-induced KCNK3 cells (AID 651747) • Specificity screen against KCNQ1/KCNE1 for identification of compounds that inhibit KCNQ1 potassium channels (AID 652147) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582)
BRD-K30498580-001-06-0 MLS000325825 4J-409S SMR000169750 ZINC01388577 AC1LRRL0 BDBM73459 HMS2446M06 ZINC1388577 PubChem CID : 1476369		0.71 (in 4 replicates)	-0.47	NA				Total number of assays tested in: 609. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Cytochrome panel assay with activity outcomes (AID 1851) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Fluorescence Polarization Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the LANA Histone H2A/H2B Interaction (AID 2629) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • uHTS identification of antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588475) • Primary cell-based high-throughput screening for identification of compounds that allosterically activate MrgX1 receptor signaling (AID 588675) • Dose Response confirmation of uHTS hits for small molecule antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 602180) • Validation assay for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4) (AID 602282) • Counter screen for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay (AID 602283) • Validation for compounds that inhibit KCNQ1 potassium channels on automated electrophysiology assay (AID 624120) • 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)

BRD-K19209439-001-05-1 ZINC00068797 AC1MCU2K MLS000861032 ZINC68797 HMS2802H10 PD00015 SMR000459816 PubChem CID : 2825931		0.62 (in 3 replicates)	-0.47	NA				Total number of assays tested in: 576. Active in the following assays: • 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) • Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1) (AID 504766) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_SinglePoint_HTS_Activity (AID 602393) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite H. contortus (hcDAF-12) (AID 652067) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite S. stercoralis (ssDAF-12) (AID 652126) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. contortus (hcDAF-12) (AID 743032) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 743050) • Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01_Activator_SinglePoint_HTS_Activity (AID 743398)
BRD-K40566022-001-01-9 PubChem CID : 54641070		NA (in 1 replicates)	-0.47	NA				Total number of assays tested in: 38.
BRD-K97258641-001-01-6 PubChem CID : 44486152		0.67 (in 3 replicates)	-0.46	0.302				Total number of assays tested in: 54.