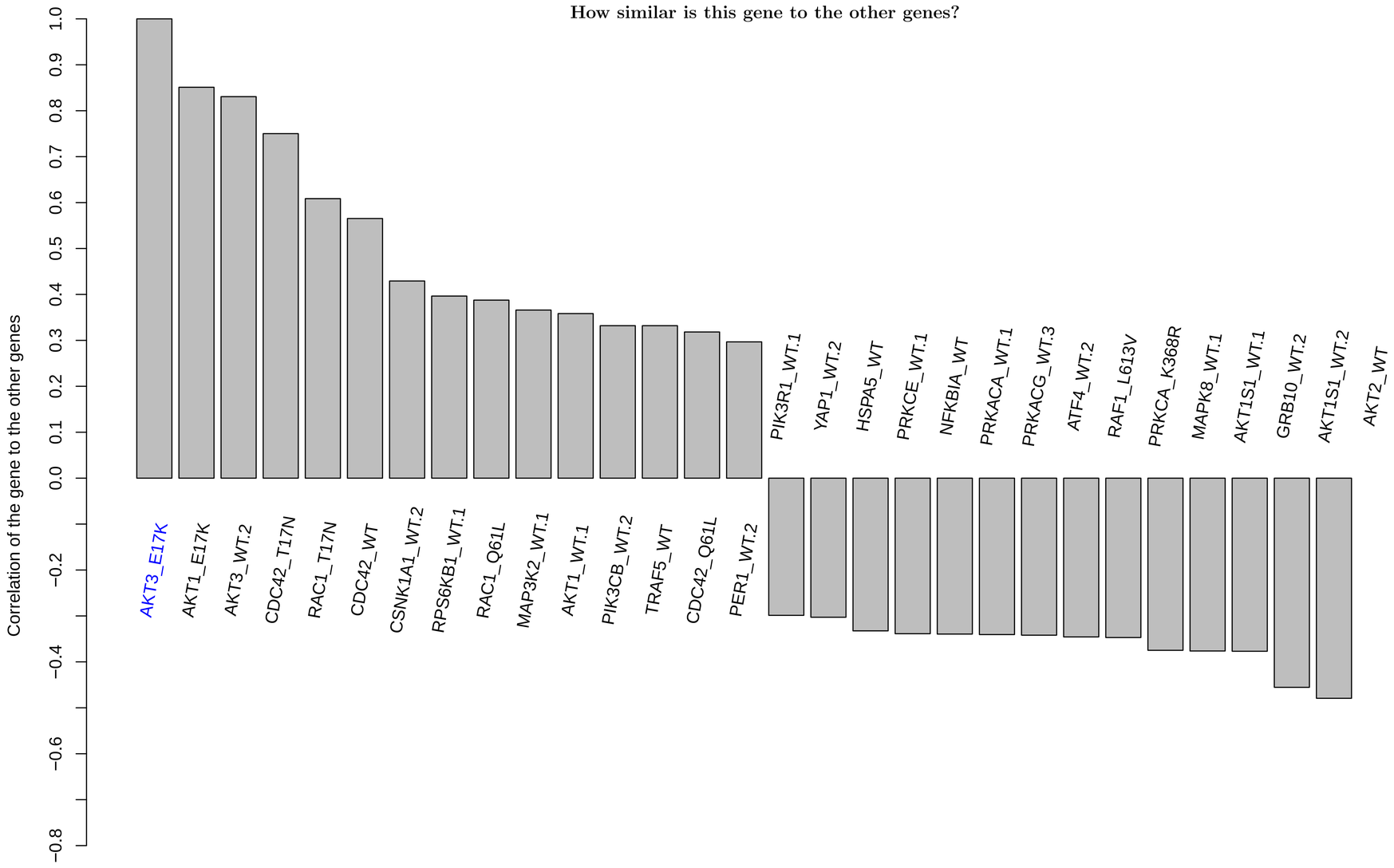
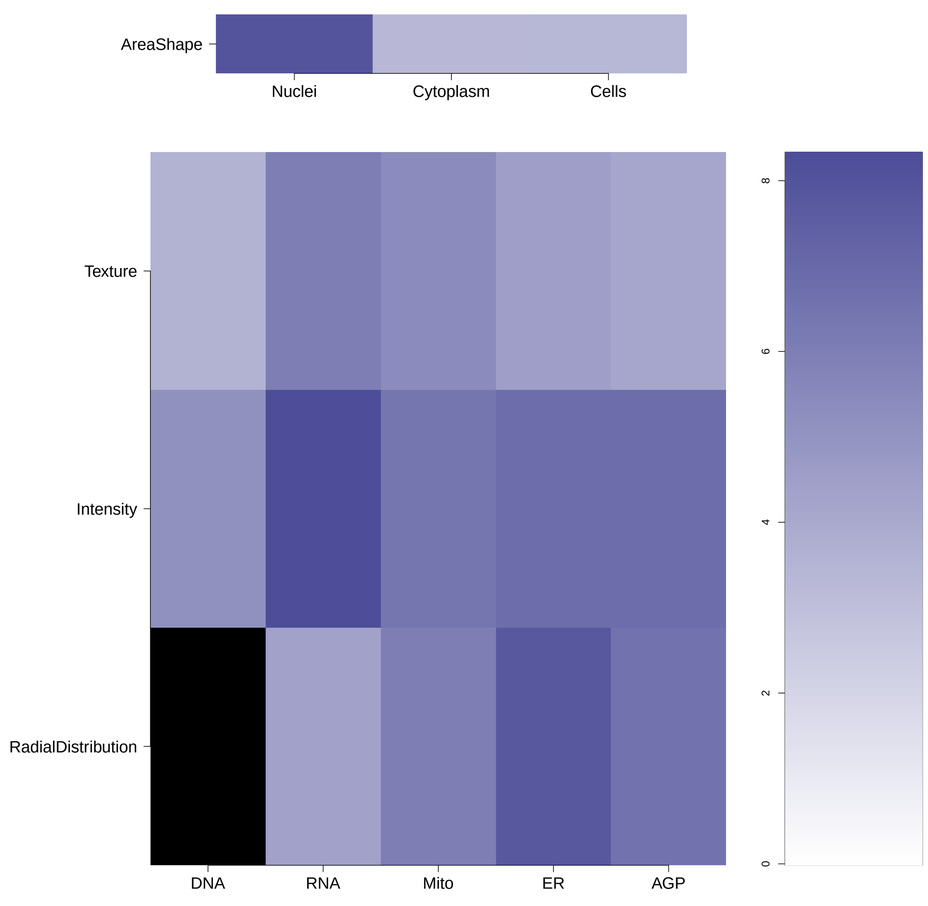
AKT3_E17K - in Canonical PI3K/AKT

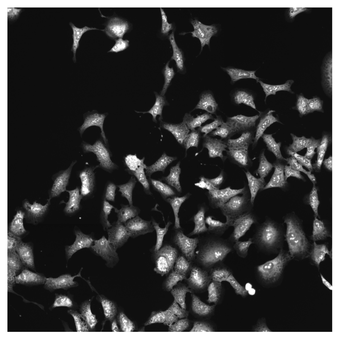
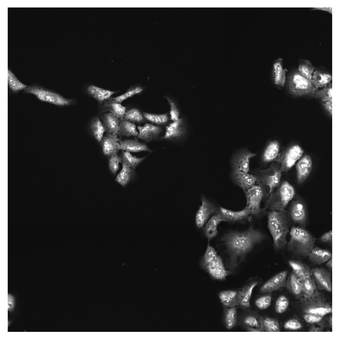
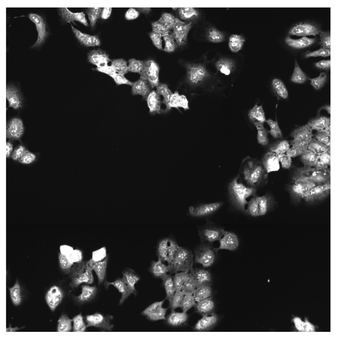
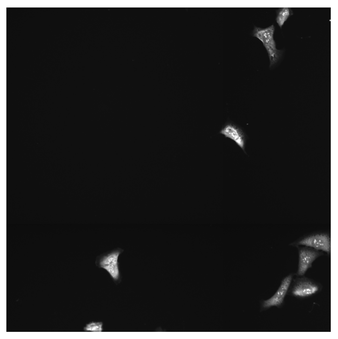
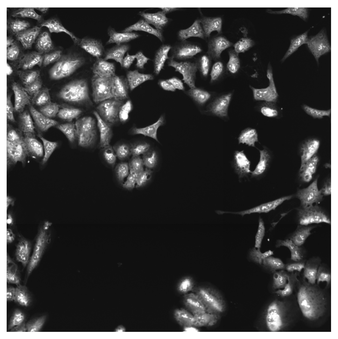
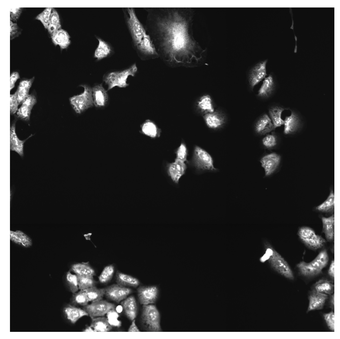
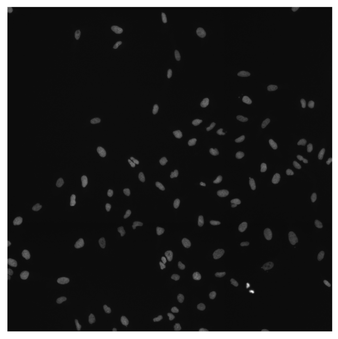
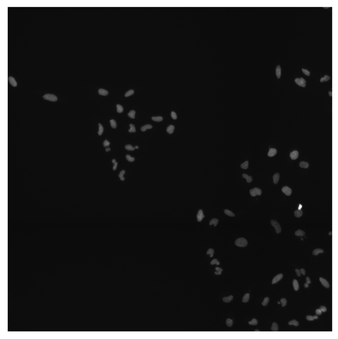
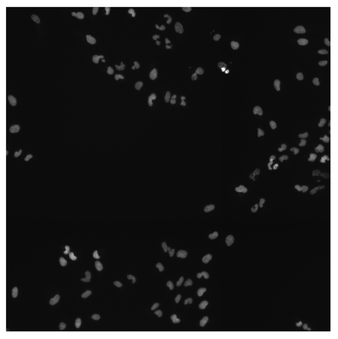
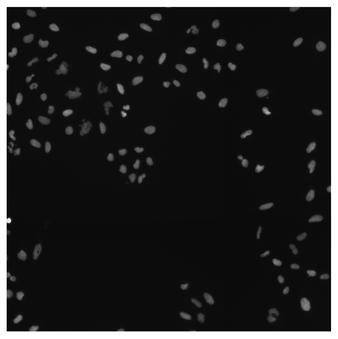
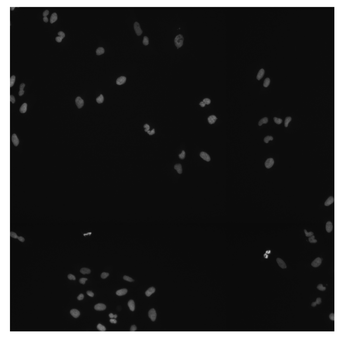
How similar is this gene to the other genes?



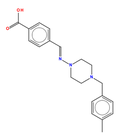
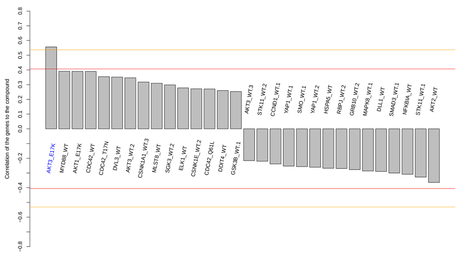
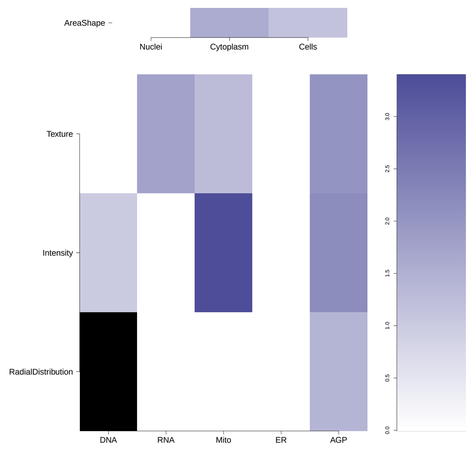
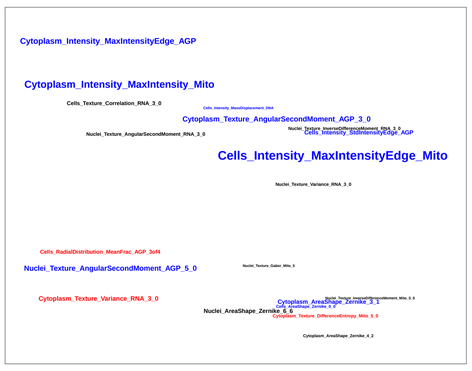
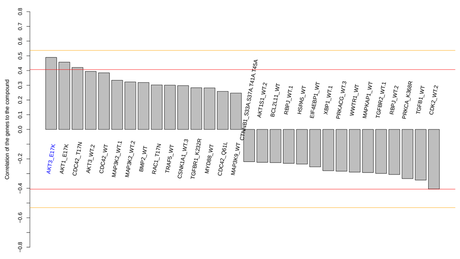
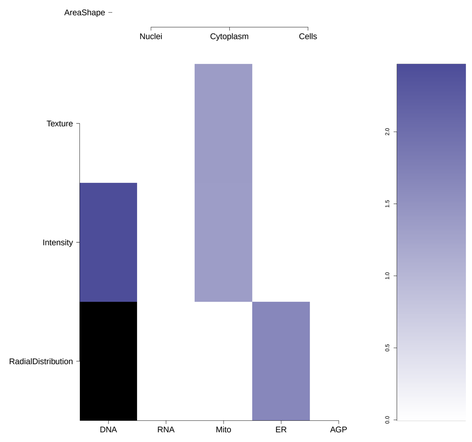
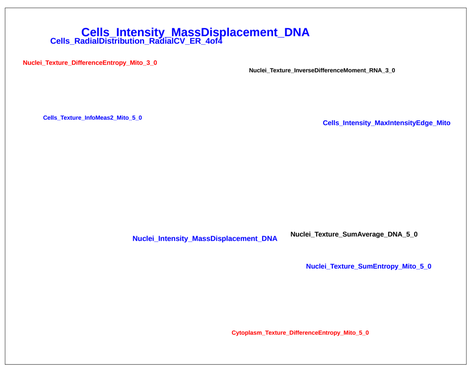
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

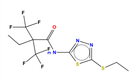
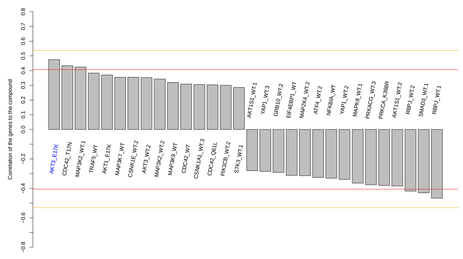
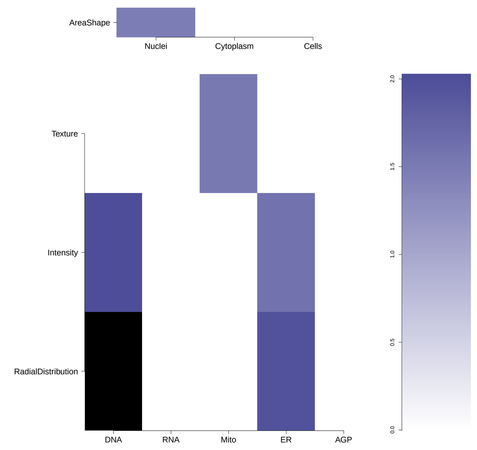
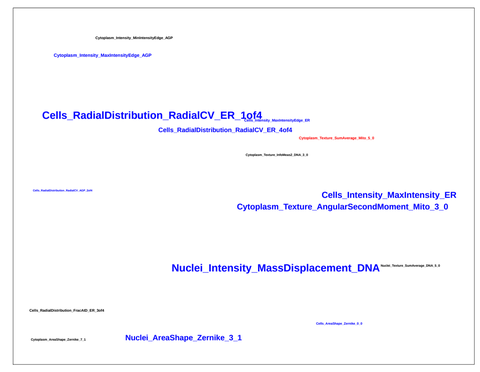
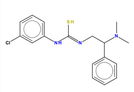
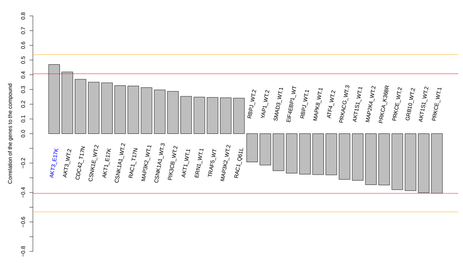
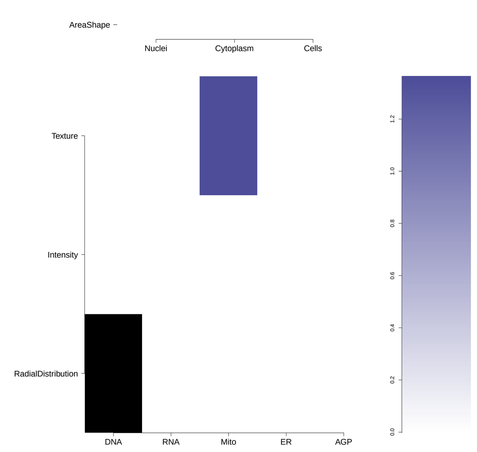
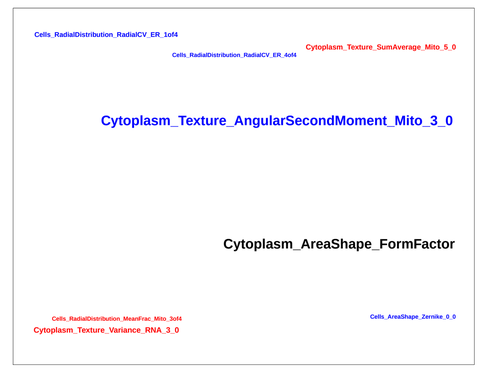
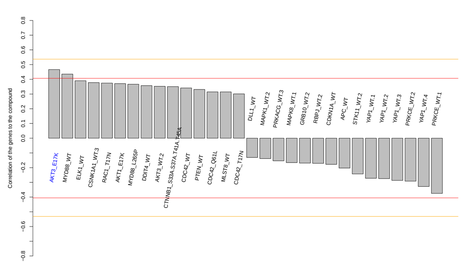
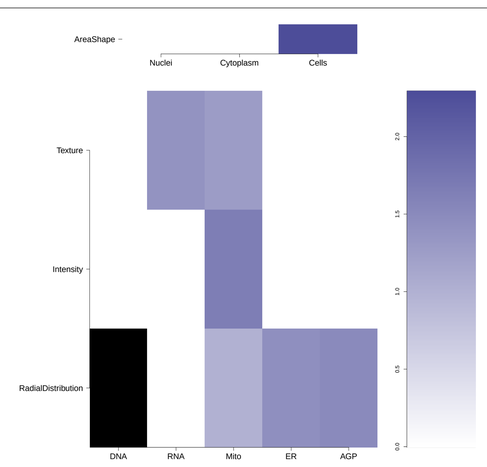
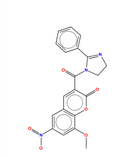
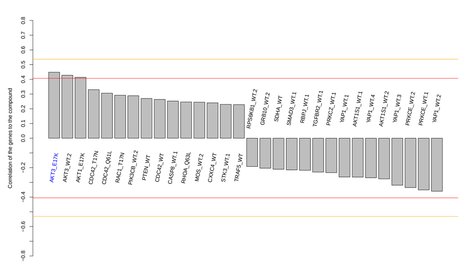
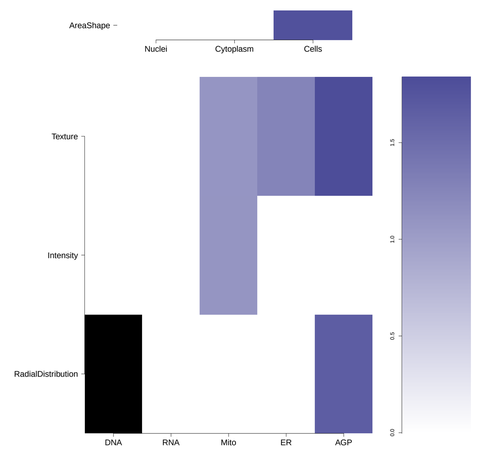
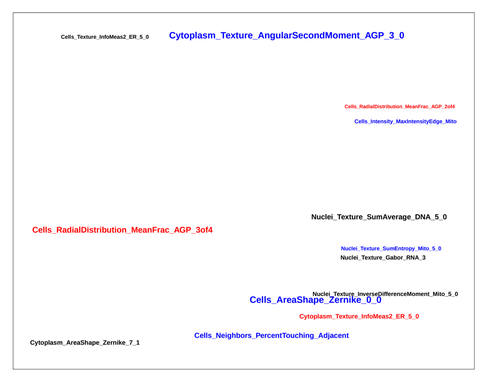
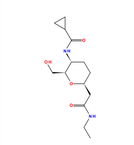
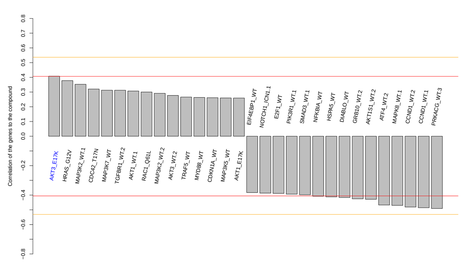
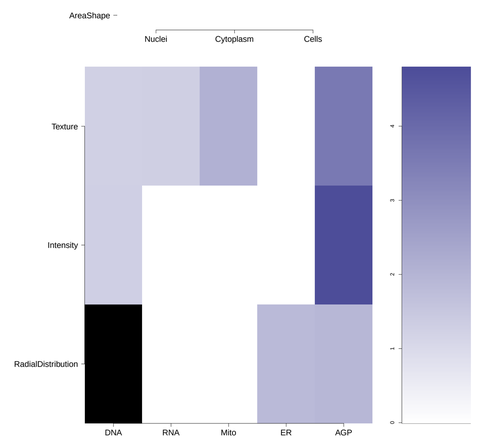
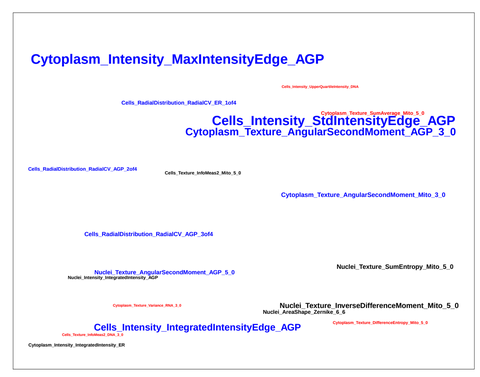


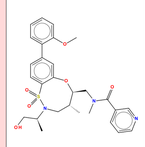
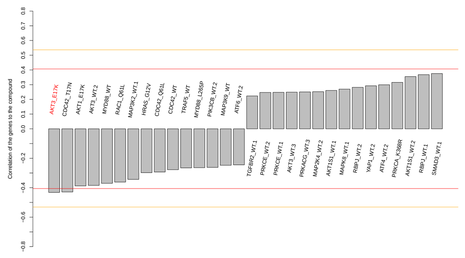
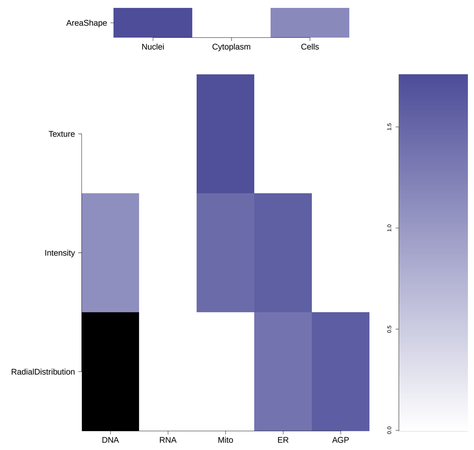
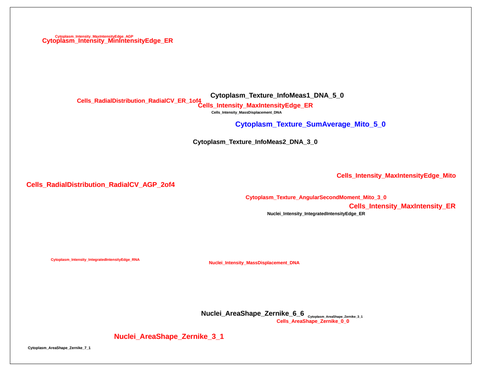
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

Empty	AKT3_E17K (41744)	AKT3_E17K (41755)	AKT3_E17K (41756)	AKT3_E17K (41757)	AKT3_E17K (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-K36118155-001-05-5 ST50425817 MLS000554594 AC1NT7O4 ZINC13111749 BAS 01809698 SMR000171974 T0504-6972 PubChem CID : 5347874		NA (in 1 replicates)	0.56	NA				Total number of assays tested in: 647. Active in the following assays: • Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
BRD-K71919342-001-06-4 AC1N4ZAA MLS001003683 CTK0B5719 HMS2685K03 ZINC5257101 PL045918 SMR000347522 14265-35-1 PubChem CID : 4136929		NA (in 1 replicates)	0.49	NA				Total number of assays tested in: 652. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) • Counter Screen for Glucose-6-Phosphate Dehydrogenase-based Primary Assay (AID 1020) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • QFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906) • Fluorescence polarization-based counterscreen for RBBP9 inhibitors: primary biochemical high throughput screening assay to identify inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 1974) • Homogeneous Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2073) • Primary biochemical high throughput screening assay to identify inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2129) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 2176) • 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) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia (AID 2451) • qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia: Coupling assay counterscreen (AID 2472) • qHTS Assay for Inhibitors of Bloom's syndrome helicase (BLM) (AID 2528) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Intein Splicing Activity (AID 449750) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918) • uHTS Fluorescent assay for identification of inhibitors of Apaf-1 (AID 489030) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • uHTS identification of small molecule modulators of myocardial damage (AID 588492) • Primary and Confirmatory Screening for Flavivirus Genomic Capping Enzyme Inhibition (AID 588689) • uHTS identification of modulators of interaction between CendR and NRP-1 using Fluorescence Polarization assay (AID 602438) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • qHTS of TDP-43 Inhibitors (AID 652104) • VEID(2) R110 Enzymatic Primary HTS to identify Inhibitors of Caspase 6 Measured in Biochemical System Using Plate Reader - 7052-01_Inhibitor_SinglePoint_HTS_Activity_Set2 (AID 686996) • VEID(2) R110 Enzymatic Primary HTS to identify Inhibitors of Caspase 6 Measured in Biochemical System Using Plate Reader - 7052-01_Inhibitor_Dose_CherryPick_Activity (AID 720632) • Development of Small Molecule Probes of the Histone Methyltransferase, NSD2 Measured in Biochemical System Using Plate Reader - 7053-01_Inhibitor_SinglePoint_HTS_Activity_Set2 (AID 743445)
BRD-K11527755-001-05-0 MLS000041852 AC1LDAZY HMS2472P10 ZINC540366 STK876139 ZINC00540366 SMR000044996 PubChem CID : 664138		NA (in 1 replicates)	0.48	NA				Total number of assays tested in: 786. 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) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • CYP2C9 Assay (AID 777) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Inhibition of the MLL-AF4-AF9 Interaction in Pediatric Leukemia Measured in Biochemical System Using Plate Reader - 2160-01_Inhibitor_SinglePoint_HTS_Activity (AID 651704) • 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) • HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01_Inhibitor_SinglePoint_HTS_Activity (AID 720706)

BRD-K71554049-001-05-7 SMR000040587 MLS000038692 MLS002581479 AC1LD134 HMS2185N19 STK373260 ZINC17028721 ST50908384 PubChem CID : 659529		0.57 (in 4 replicates)	0.47	0.680				Total number of assays tested in: 790. Active in the following assays: • Human A549 Lung Tumor Cell Growth Inhibition Assay (AID 371) • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Modulators of Post-Golgi Transport - 1536-well pilot screen (AID 637) • CYP2C9 Assay (AID 777) • Primary cell-based high-throughput screening assay to identify antagonists of Galanin Receptor 2 (GALR2) (AID 828) • qHTS Assay for Identification of Small Molecule Antagonists for Hypoxia Response Element Signaling Pathway (AID 915) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • 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 inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • 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) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-A86600680-001-05-7 MLS000771752 SMR000376414 T5238383 AC1N9VJE BDBM83381 HMS2674P08 PubChem CID : 4391932		0.65 (in 4 replicates)	0.47	NA				Total number of assays tested in: 639. Active in the following assays: • Primary cell-based screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4). (AID 2237) • Confirmatory screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 2426) • Second confirmatory screen for identification of compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 2461) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • Confirmation dose response assay for compounds that activate transient receptor potential cation channel C4 (TRPC4) (AID 434937) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504326) • Luminescence-based cell-based high throughput confirmation assay for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504904) • Luminescence-based cell-based high throughput dose response assay for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 588407) • Counterscreen for agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors: Luminescence-based cell-based high throughput dose response assay to identify agonists of OPRM1 homodimerization (AID 588435) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)
BRD-K90579328-001-06-1 MLS000677323 SMR000286121 ST50276625 BAS 04935871 AC1LL07B BDBM63521 HMS2662M23 STK143414 ZINC13522488 PubChem CID : 1076541		NA (in 1 replicates)	0.47	NA				Total number of assays tested in: 615. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • Luminescence Cell-Based Dose Confimation HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1) (AID 2382) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • 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-K62243466-001-05-2 ST50169543 AC1LO6N4 MLS000679960 HMS2772M06 ZINC19618851 SMR000296836 PubChem CID : 1258313		NA (in 1 replicates)	0.45	NA				Total number of assays tested in: 630. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of Trypanosoma brucei RNA editing ligase 1 (TbREL1) (AID 1117264)
BRD-K89691421-001-01-4 PubChem CID : 54641257		NA (in 1 replicates)	0.41	NA				Total number of assays tested in: 39.

BRD-K09779552-001-01-5 PubChem CID : 54618116		0.61 (in 4 replicates)	-0.43	0.111				Total number of assays tested in: 43. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654)