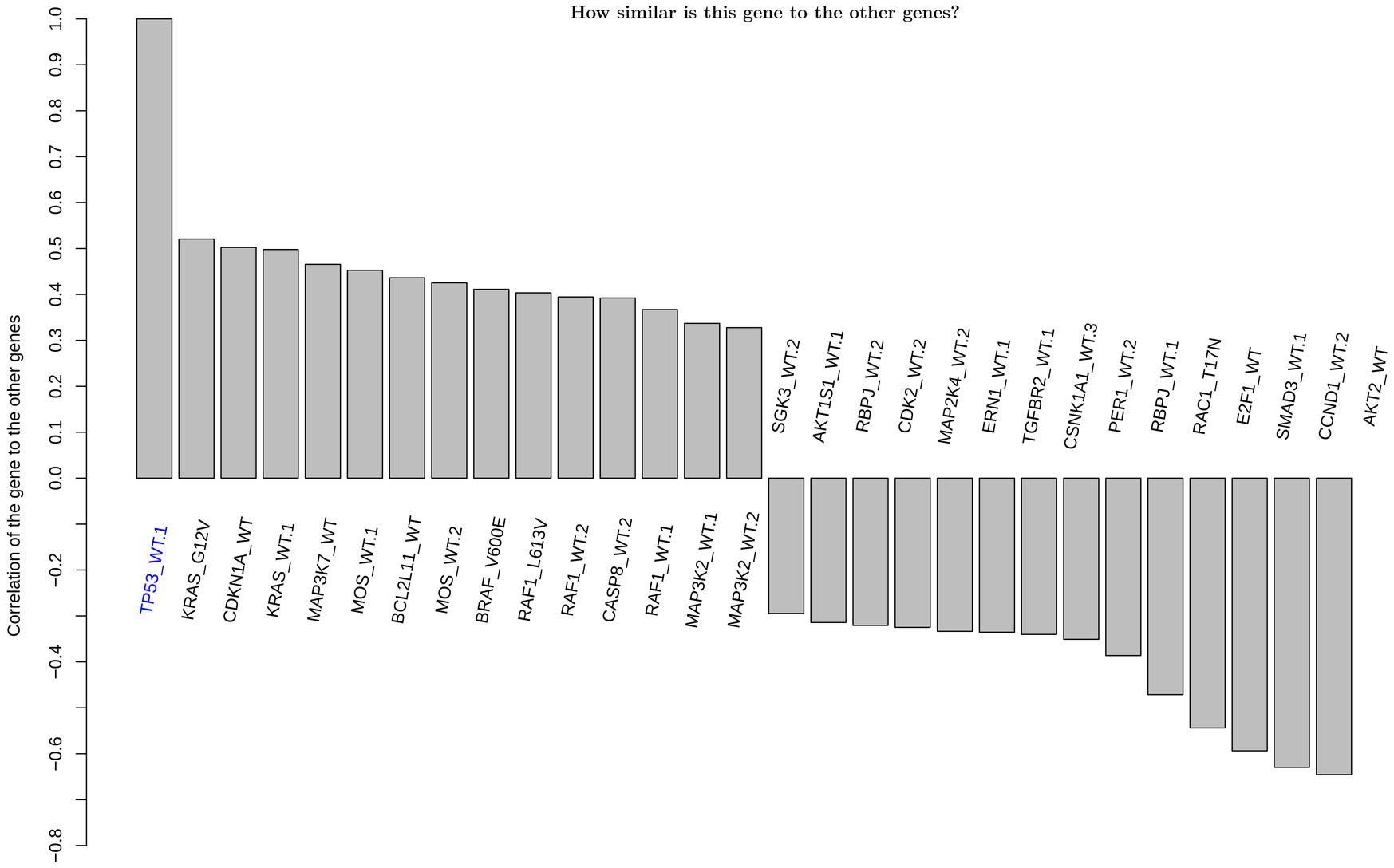
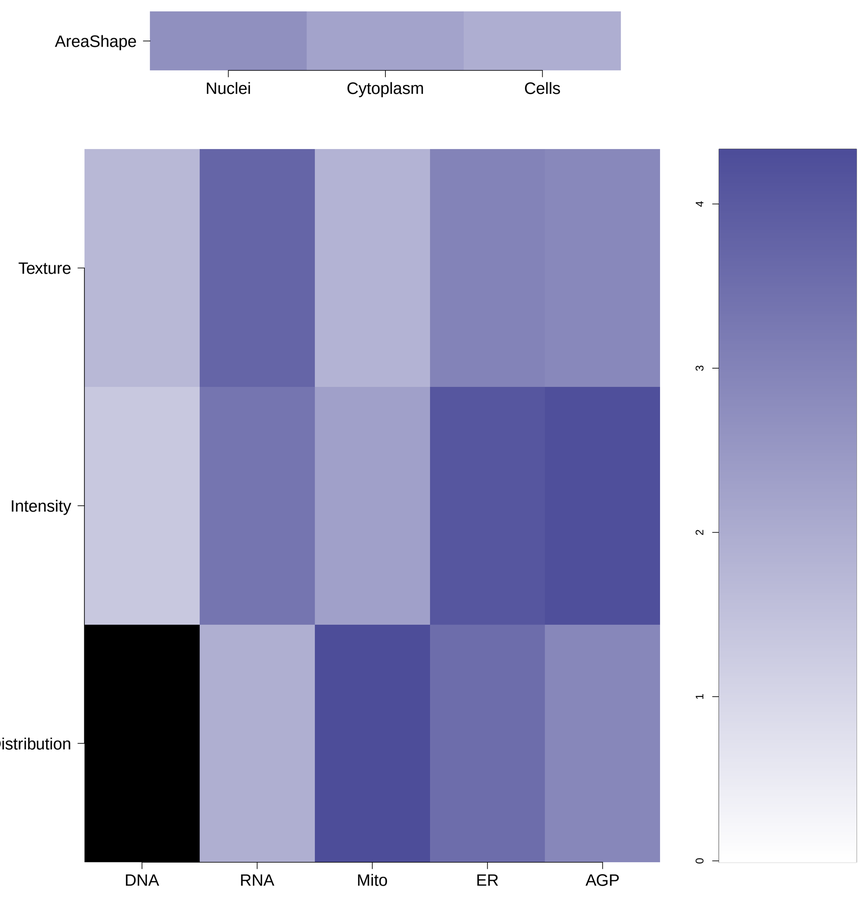
TP53_WT.1 - in Canonical DNA Damage

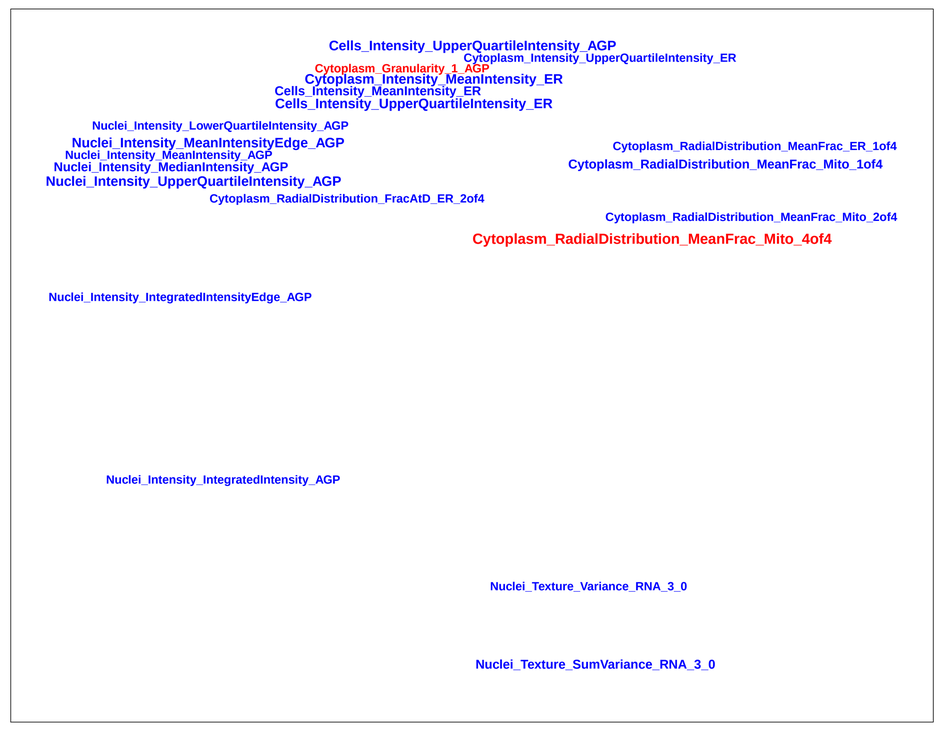
How similar is this gene to the other genes?

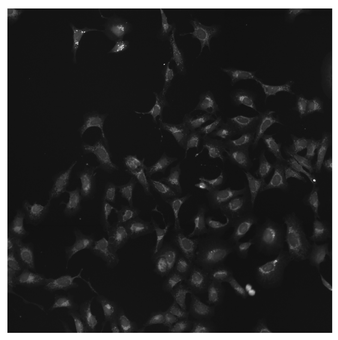
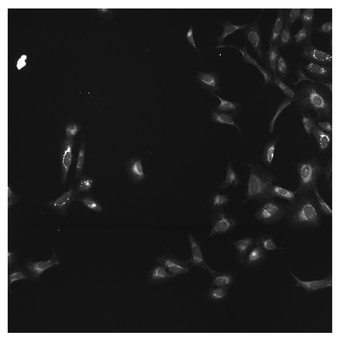
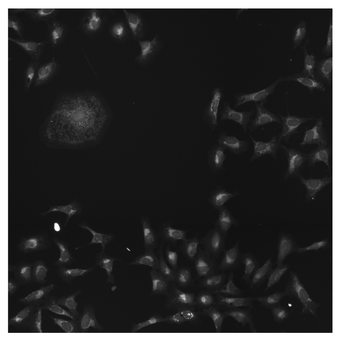
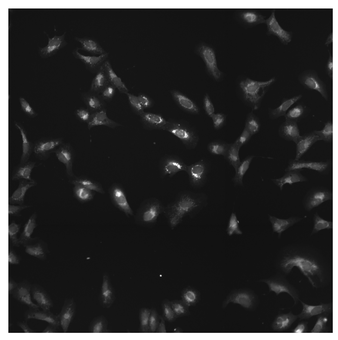
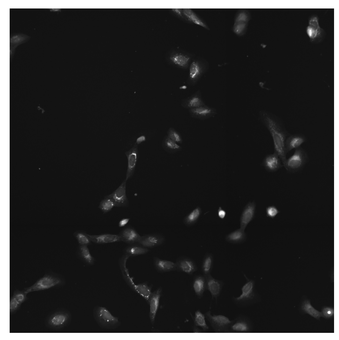
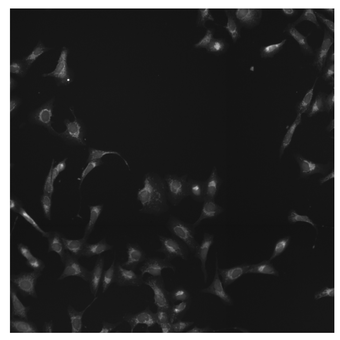
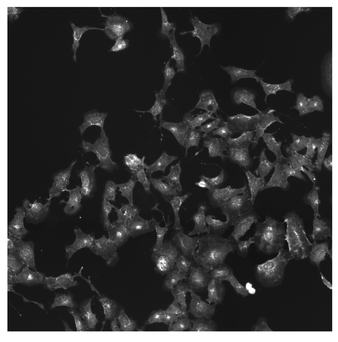
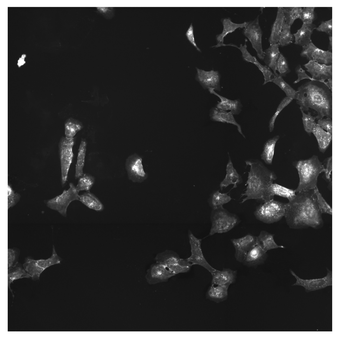
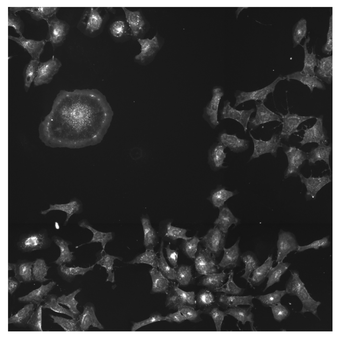
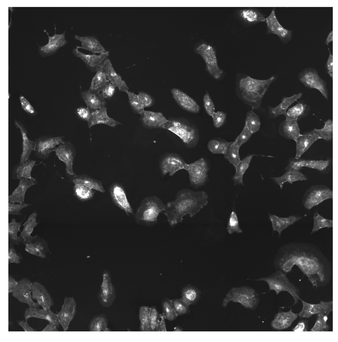
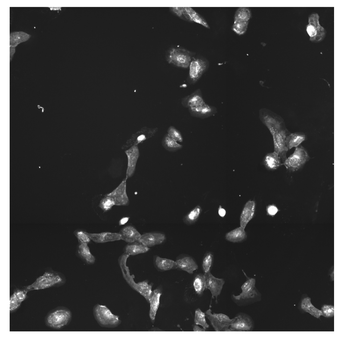
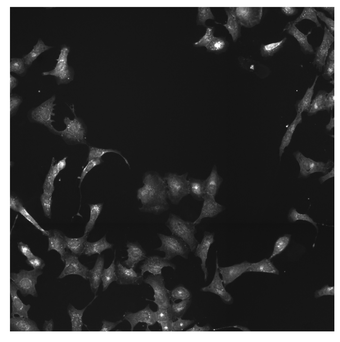


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

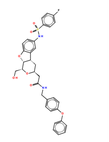
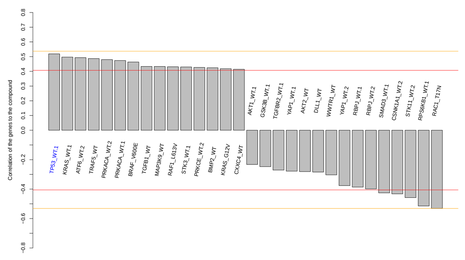
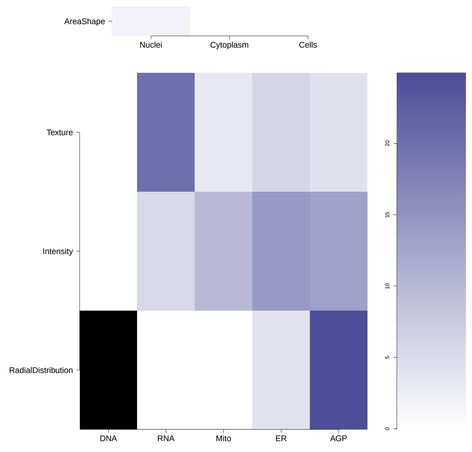
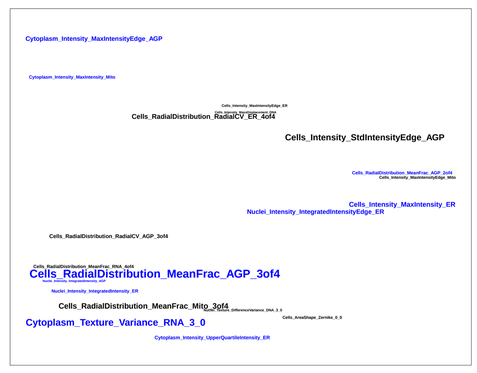
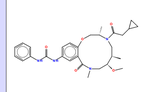
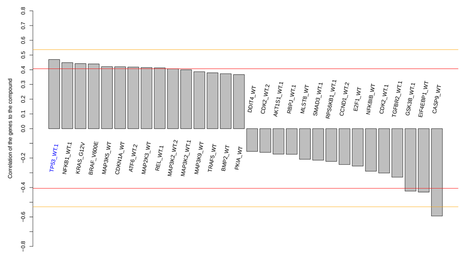
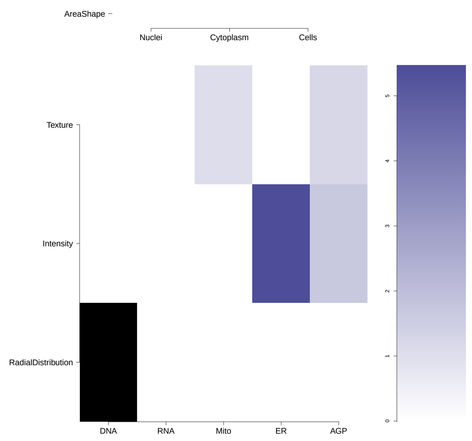
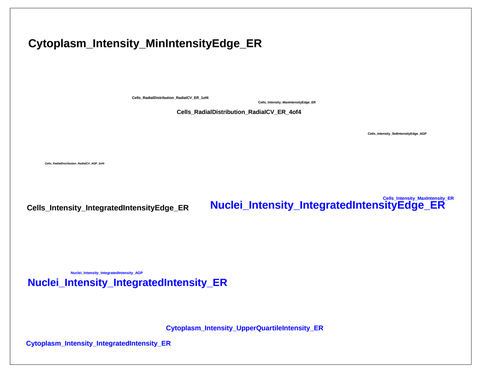
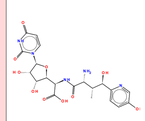
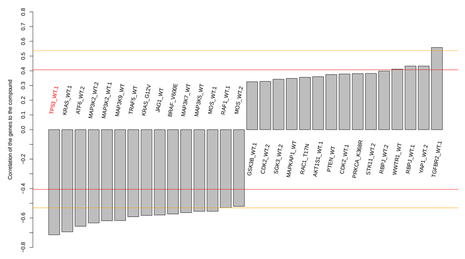
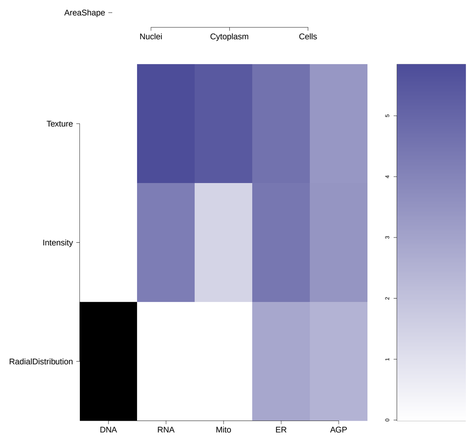
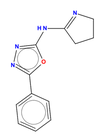
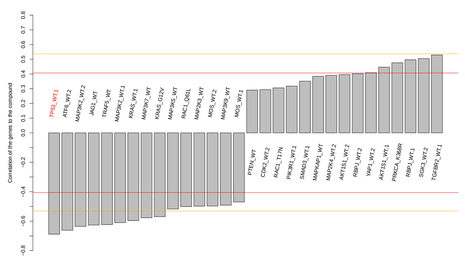
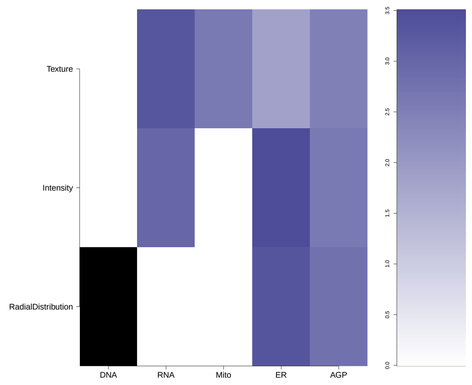
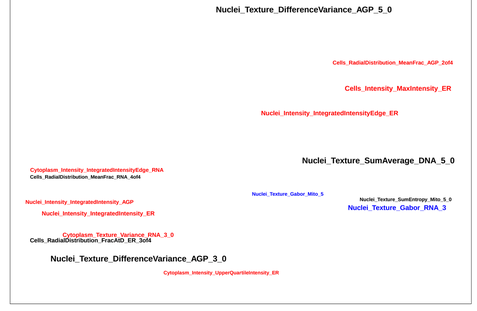
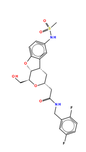
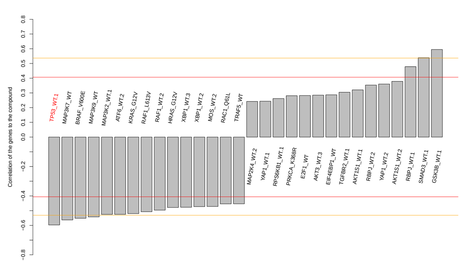
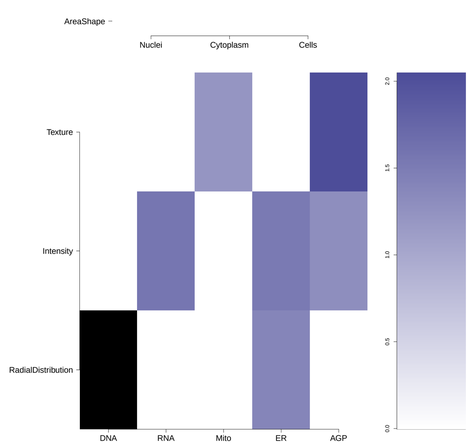
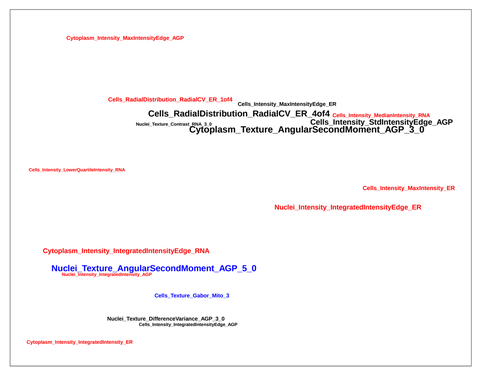


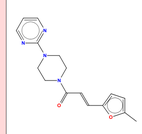
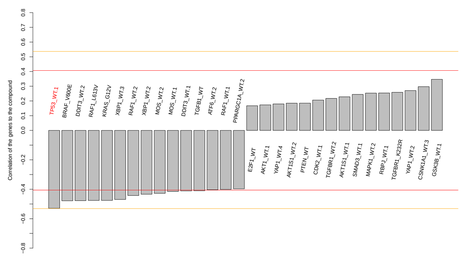
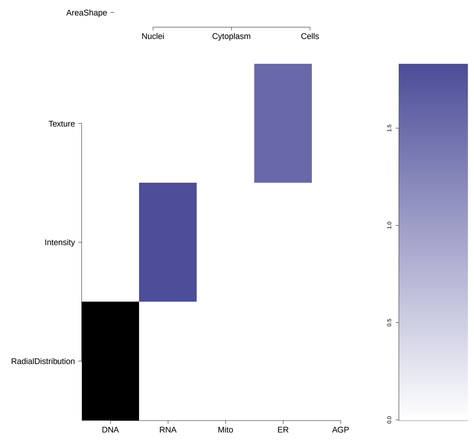
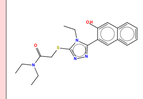
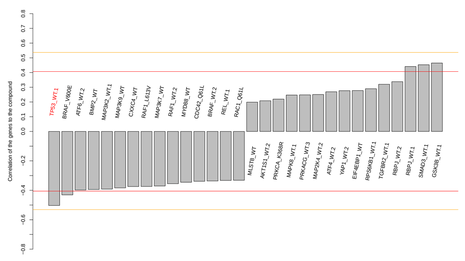
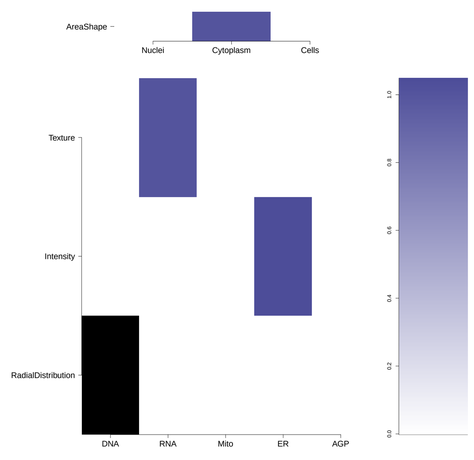
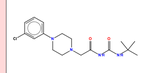
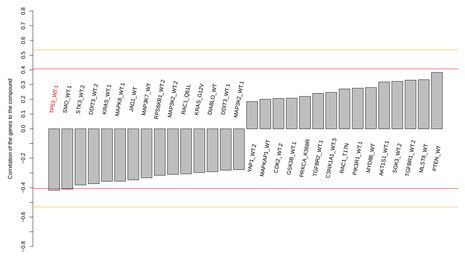
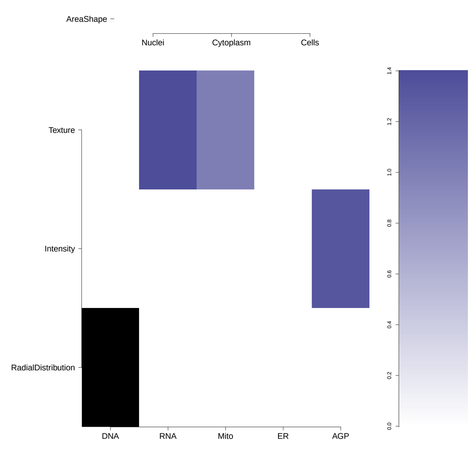
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



Empty	TP53_WT.1 (41744)	TP53_WT.1 (41755)	TP53_WT.1 (41756)	TP53_WT.1 (41757)	TP53_WT.1 (41754)
Mito						
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-K19876534-001-01-0 PubChem CID : 54646516		0.96 (in 4 replicates)	0.52	0.689				Total number of assays tested in: 44. Active in the following assays: • Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Inhibitor_SinglePoint_HTS_Activity (AID 602342) • Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-05_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 624369) • Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-01_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 624376) • Luminescence Cell-Based Primary HTS to identify inhibitors of the oncoprotein EWS/Fli transcriptional activity Measured in Cell-Based System Using Plate Reader - 7014-01_Inhibitor_SinglePoint_HTS_Activity (AID 651661) • HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01_Inhibitor_SinglePoint_HTS_Activity (AID 652154)
BRD-K79157597-001-01-6 PubChem CID : 54631722		0.71 (in 4 replicates)	0.47	0.762				Total number of assays tested in: 31.
BRD-K76218980-001-11-3 nikkomycin z AC1NUQ0P MLS000028371 HMS2233C10 SMR000058642 PubChem CID : 5458181		NA (in 1 replicates)	-0.71	NA				Total number of assays tested in: 698. Active in the following assays: • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Fluorescence Cell-Based Secondary Assay to Identify Inhibitors of Resistant C. albicans Growth in the Presence of Fluconazole (AID 2423) • Fluorescence Cell-Based Retest of C. albicans Growth in the Presence of Fluconazole (AID 2467) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS of TDP-43 Inhibitors (AID 652104)
BRD-K15827540-001-05-0 T5250099 AC1M2QX1 MLS001010624 HMS1774C11 HMS2718E22 ZINC12531006 SMR000352827 PubChem CID : 2123280		NA (in 1 replicates)	-0.69	NA				Total number of assays tested in: 643. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT3 inhibition (AID 862) • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • qHTS Assay for Inhibitors of Leishmania Mexicana Pyruvate Kinase (LmPK) (AID 1721) • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Luminescence-based cell-based primary high throughput screening assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652010) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K22387508-001-01-5 PubChem CID : 54646033		NA (in 1 replicates)	-0.60	0.311				Total number of assays tested in: 41.

BRD-K00381373-001-05-7 MLS000680743 SMR000272468 ST50939688 ZINC00461701 AC1LHIRF BDBM54736 HMS2548P22 ZINC461701 STK439518 T5677666 PubChem CID : 887992		NA (in 1 replicates)	-0.53	NA				Total number of assays tested in: 640. Active in the following assays: • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Homogeneous Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2073) • uHTS Homogeneous Terbium Time-Resolved Fluorescence Resonance Energy Transfer (HTRF) Assay (AID 2091) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate KCNQ2 potassium channels (AID 2239) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit regulator of G-protein signaling 4 (RGS4) (AID 463165) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Validation assay for identification of compounds that inhibit the regulator of G-protein signaling 4 (RGS4) (AID 492999) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • qHTS for Inhibitors of TGF-b (AID 588855) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257) • 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) • Fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 687036) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K85382133-001-05-4 ASN 03792177 SMR000002532 AC1NU7DR MLS000073949 MLS001385610 HMS2395N21 PubChem CID : 5447101		NA (in 1 replicates)	-0.50	NA				Total number of assays tested in: 768. Active in the following assays: • Discovery of novel allosteric modulators of the M1 muscarinic receptor: Antagonist Primary Screen (AID 628) • Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527) • uHTS absorbance assay for the identification of compounds that inhibit PHOSPHO1 (AID 1565) • Cytochrome panel assay with activity outcomes (AID 1851) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) • 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-K01370799-001-05-5 MLS000516892 SMR000343016 T5269106 AC1M15VQ BDBM75828 HMS2766I18 ZINC36380231 PubChem CID : 2089384		NA (in 1 replicates)	-0.42	NA				Total number of assays tested in: 564. Active in the following assays: • uHTS for Small Molecule Inhibitors of Eukaryotic Translation Initiation (AID 782) • qHTS Assay for Inhibitors of Influenza NS1 Protein Function (AID 2326) • Fluorescence polarization-based cell-based primary high throughput screening assay to identify inhibitors of insulin-degrading enzyme (IDE) (AID 434962) • Fluorescence polarization-based cell-based high throughput confirmation assay for inhibitors of insulin-degrading enzyme (IDE) (AID 435028) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 493221) • Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840) • Dose responses of compounds that inhibit the Choline Transporter (CHT) - 10 point CRC (AID 588401) • Confirmed inhibitors of the Choline Transporter (CHT) (AID 1053196)