

How similar is this gene to the other genes?

Correlation of the gene to the other genes

Gene	Correlation
DDIT3_WT.2	1.00
DDIT3_WT.1	0.68
RAF1_WT.1	0.47
KRAS_G12V	0.44
MOS_WT.2	0.42
PPARGC1A_WT.2	0.41
MAP3K9_WT	0.38
RAF1_L613V	0.37
CDC42_Q61L	0.36
MAP2K3_WT	0.35
RHOA_Q63L	0.34
BRAF_WT.1	0.33
DIABLO_WT	0.32
STK3_WT.2	0.31
NOTCH1_ICN1.1	0.30
PIK3R1_WT.1	-0.42
GSK3B_WT.1	-0.43
TGFB2_WT.1	-0.44
PTEN_WT	-0.45
PRKCA_K368R	-0.46
AKT1S1_WT.2	-0.47
MAPKAP1_WT	-0.48
CDK2_WT.1	-0.49
TGFB1_K232R	-0.50
DVL3_WT	-0.51
SGK3_WT.2	-0.52
DDIT4_WT	-0.53
AKT1S1_WT.1	-0.54
TGFB1_WT.2	-0.55
AKT2_WT	-0.56

Heatmap showing the relationship between AreaShape and various cell components. The color scale ranges from 0 (lightest) to 6 (darkest).

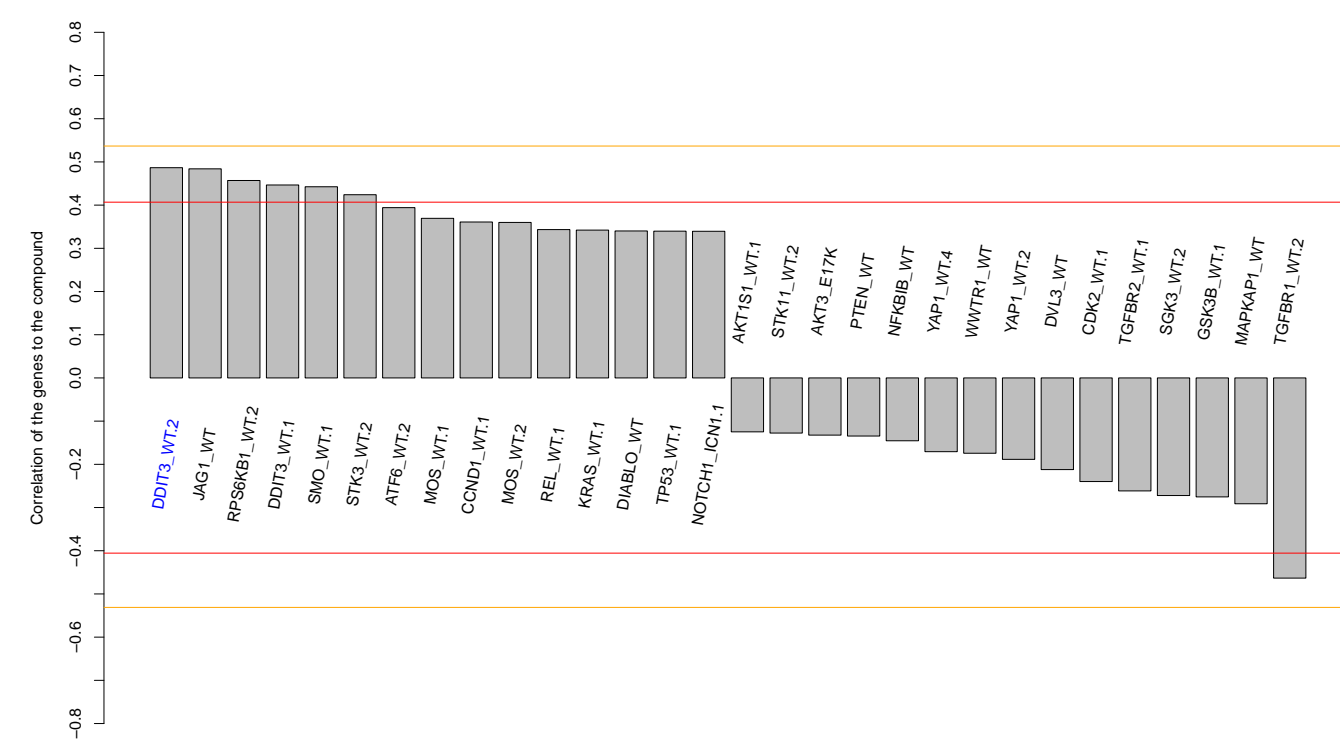
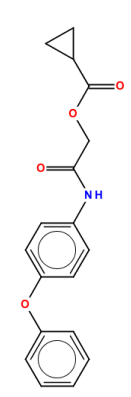
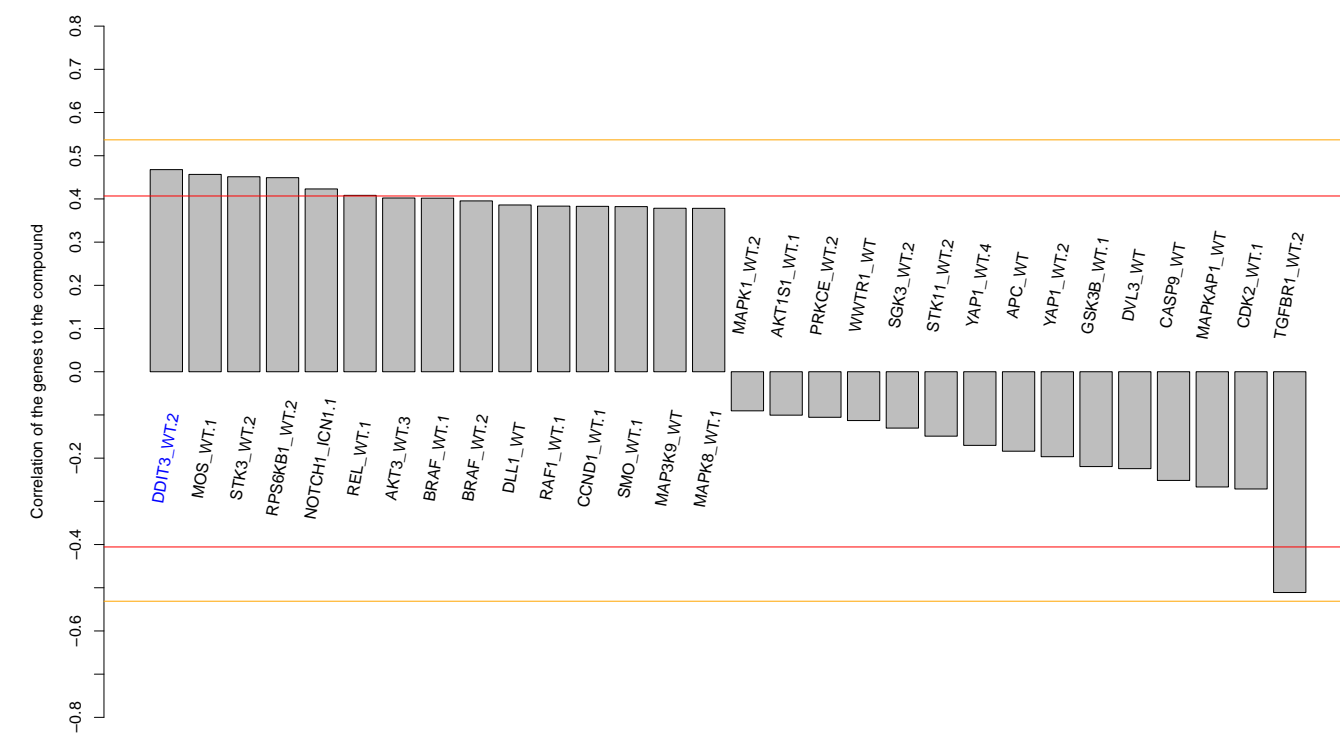
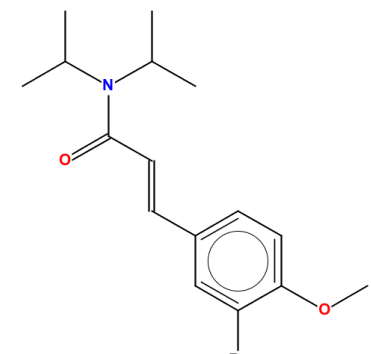

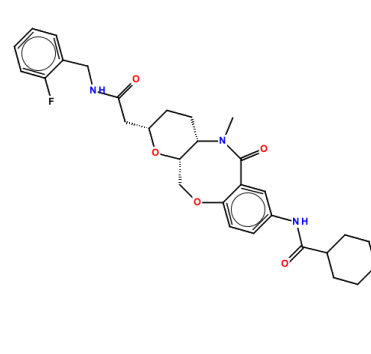
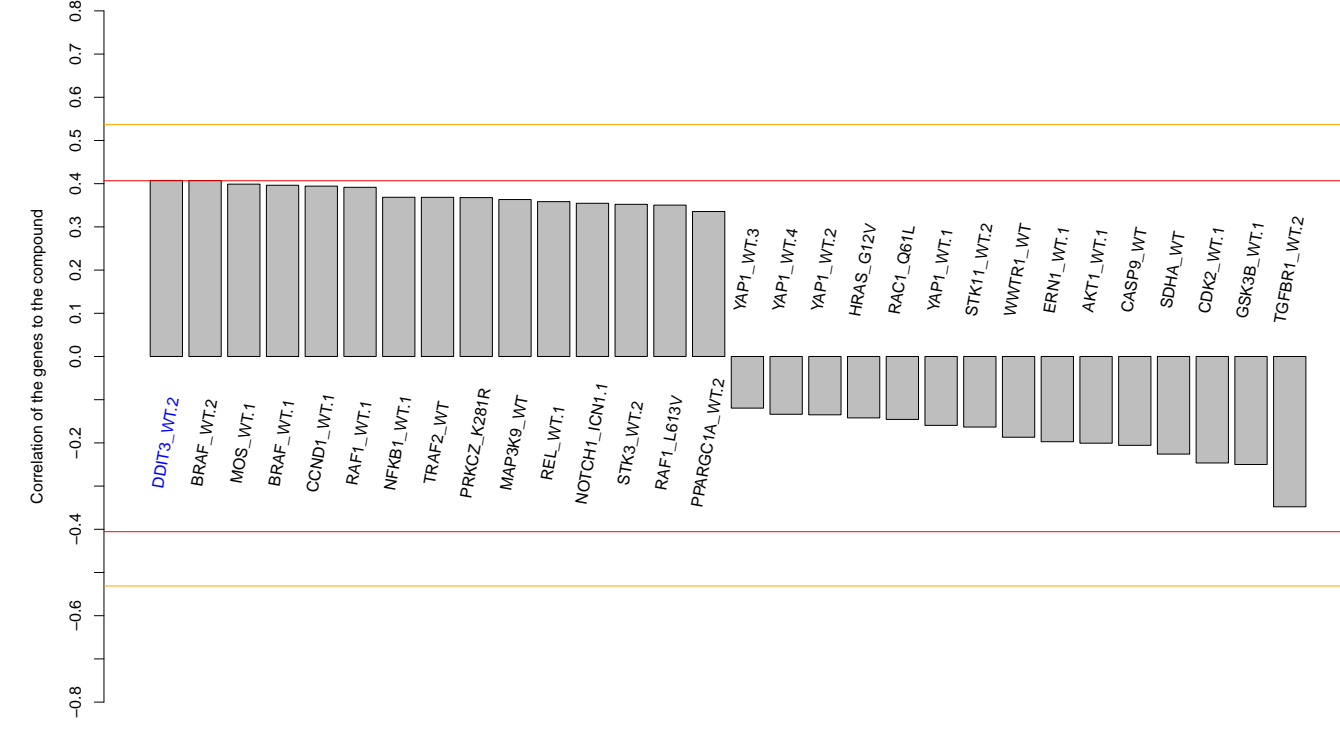

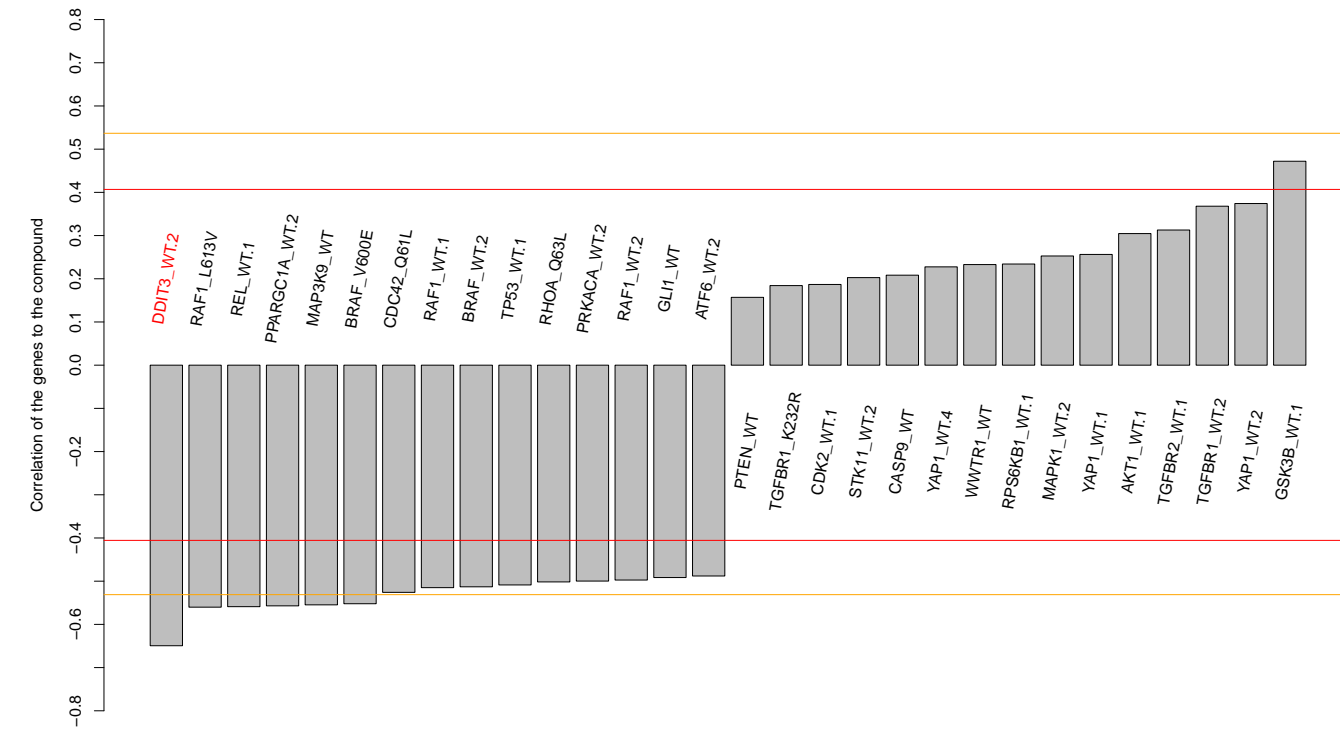

AreaShape	Nuclei	Cytoplasm	Cells
ure	~1.5	~2.5	~3.5
sity	~1.5	~4.5	~3.5
ion	~0.5	~1.5	~2.5

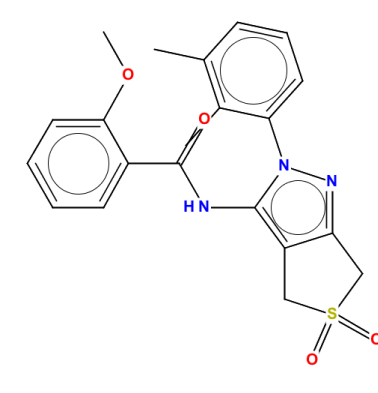
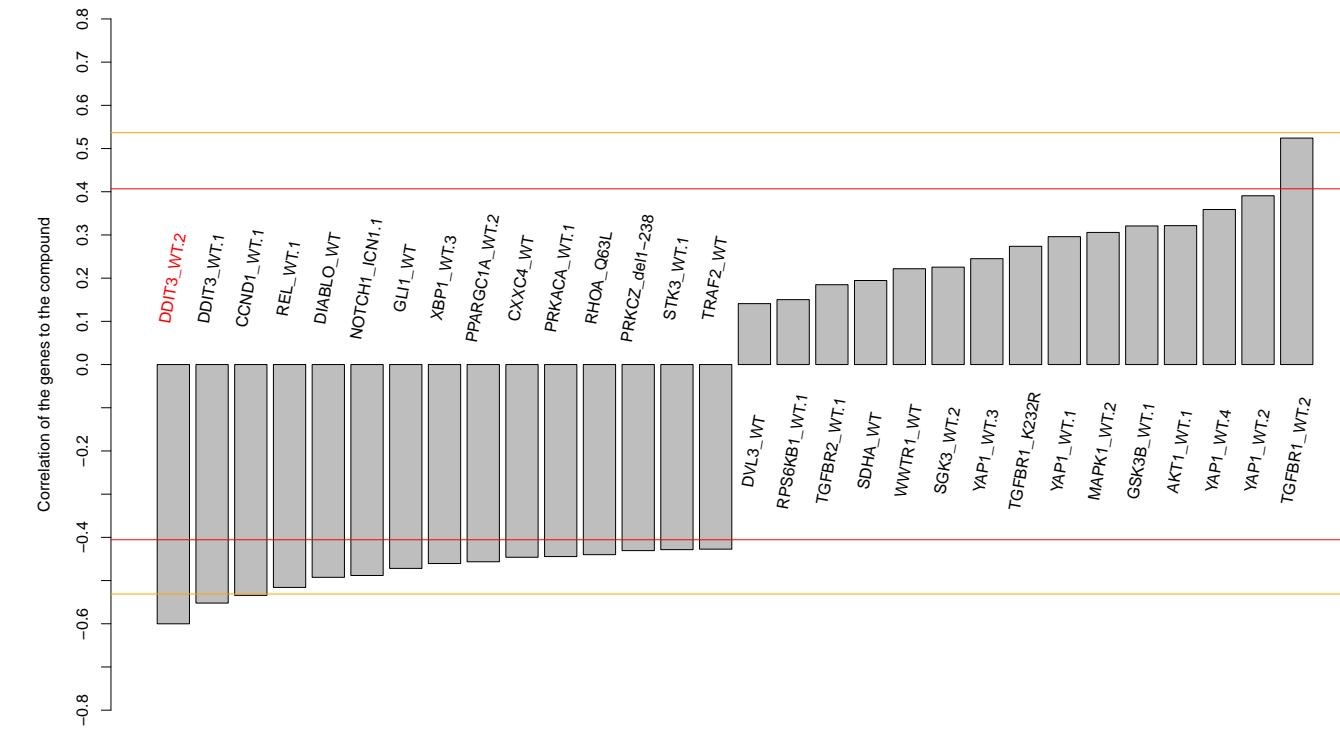
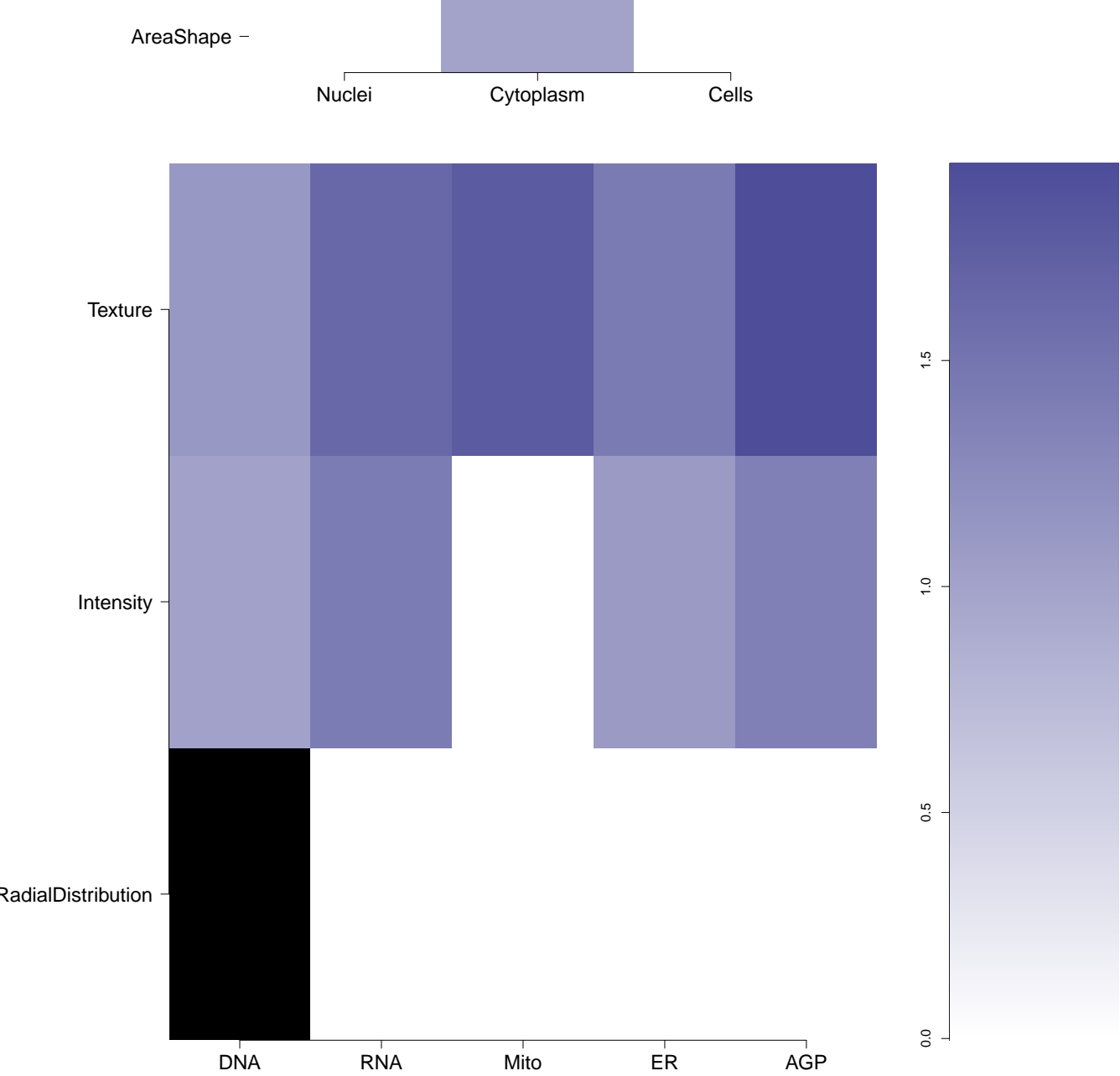

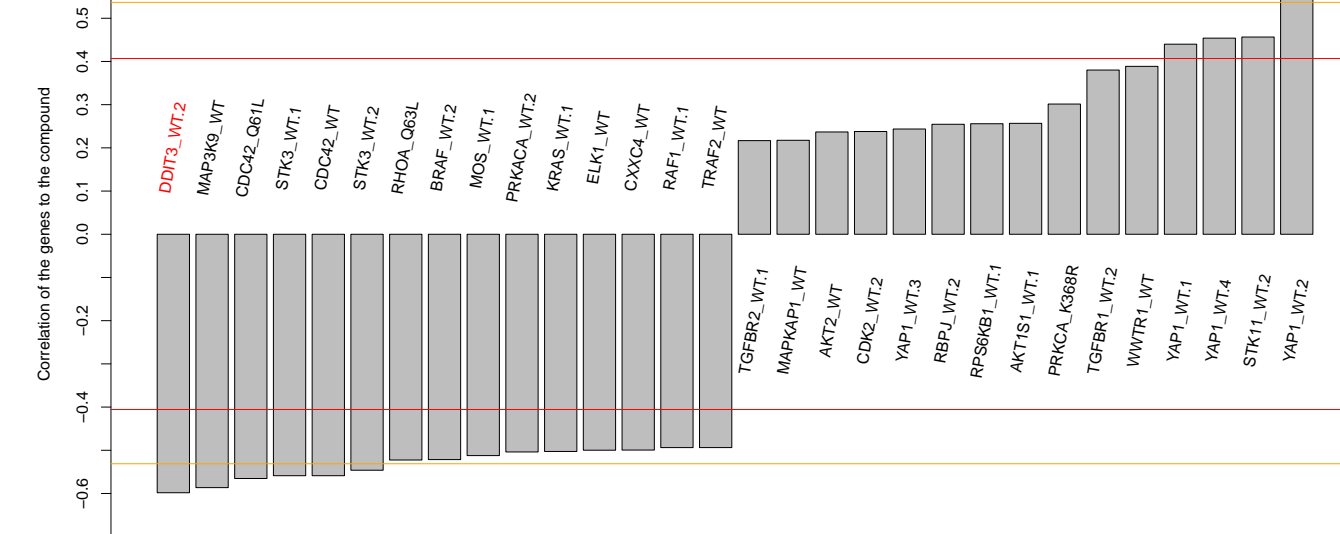
Cells_Intensity_LowerQuartileIntensity_RNA
Cytoplasm_Intensity_LowerQuartileIntensity_RNA
Nuclei_Intensity_MedianIntensity_AGP Cells_Intensity_MedianIntensity_RNA
Cytoplasm_Intensity_MedianIntensity_RNA Cells_AreaShape_FormFactor
Nuclei_Intensity_LowerQuartileIntensity_AGP
Nuclei_Intensity_MeanIntensityEdge_AGP
Cytoplasm_Intensity_MeanIntensityEdge_RNA
Cells_Intensity_MeanIntensity_RNA
Cytoplasm_Intensity_StdIntensityEdge_AGP
Nuclei_Intensity_MeanIntensity_AGP
Cells_Intensity_MinIntensityEdge_RNA
Cytoplasm_Intensity_MinIntensityEdge_RNA
Cells_Intensity_MeanIntensityEdge_RNA
Cells_Intensity_MaxIntensityEdge_RNA
Cells_Intensity_StdIntensityEdge_RNA
Nuclei_Intensity_IntegratedIntensityEdge_AGP
Nuclei_Intensity_IntegratedIntensity_AGP

DDIT3_WT.2 (41754)

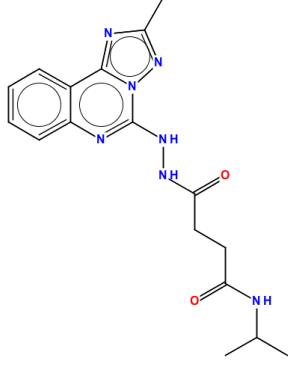


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K40225343-001-01-4 PubChem CID : 54638354		0.52 (in 4 replicates)	0.49	0.713				Total number of assays tested in: 31.
BRD-K97864903-001-06-3 AC1MHCWB SMR000061895 MLS000055290 HMS2172B09 HMS3324121 ZINC4144366 PubChem CID : 3000008		0.72 (in 4 replicates)	0.47	NA				Total number of assays tested in: 759. Active in the following assays: <ul style="list-style-type: none"> Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2694) Luminescence Microorganism Retest to Identify Inhibitors of the AI-2 Quorum Sensing System (AID 2727) Luminescence Microorganism-Based Retest to Identify Modulators of the AI-2 Quorum Sensing System (AID 2736) Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the plasma platelet activating factor acetylhydrolase (pPAFAH) (AID 463082) Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of human platelet activating factor acetylhydrolase 2 (PAFAH2) (AID 492956) Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) qHTS profiling assay for firefly luciferase inhibitor/activator using purified enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
BRD-K34708533-001-06-6 MLS000571322 SMR000193691 ST50187553 AC1LEV3A BDBM72127 HMS2451113 ZINC117958 SMSF0010160 ZINC00117958 PubChem CID : 718487		0.69 (in 2 replicates)	0.44	NA				Total number of assays tested in: 675. Active in the following assays: <ul style="list-style-type: none"> CYP2C19 Assay (AID 778) Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) Screen to Identify Novel Compounds That Sensitive Mycobacterium Tuberculosis to Beta-lactam Antibiotics (AID 434955) Screen and Counter Screen to Identify Novel Compounds that Selectively Sensitize Mycobacterium Tuberculosis to Beta-lactam Antibiotics (AID 434987) Luminescence Cell-Based Dose Retest to Identify Potentiators of Heat Shock Factor 1 (HSF1) (AID 435004) Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01 Activator:SinglePoint HTS Activity (AID 504408) Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 48 hour incubation (AID 504832) Sustained Induction of HSF-1 Measured in Cell-Based System Using Plate Reader - 2038-07 Activator:Dose.CherryPick Activity (AID 602296) qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase-1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K39066612-001-01-9 PubChem CID : 54654110		0.65 (in 3 replicates)	0.41	0.932				Total number of assays tested in: 35.
BRD-K76988892-001-01-9 PubChem CID : 54646031		NA (in 1 replicates)	-0.65	0.141				Total number of assays tested in: 41.
BRD-K95356204-001-05-0 MLS00088970 HMS2218K23 HMS3349H02 SMR000462391 PubChem CID : 16745919		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 556. Active in the following assays: <ul style="list-style-type: none"> 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) qHTS Assay for Inhibitors of BAZ2B (AID 504333) qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a: Hit Confirmation (AID 588344) qHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) qHTS Assay for Inhibitors of BAZ2B: Hit Validation (AID 588809) qHTS Assay for Inhibitors of BAZ2B: Hit Validation in AlphaScreen Counterscreen. (AID 588850) TRFRET-based biochemical primary high throughput screening assay to identify small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 624416) TRFRET-based biochemical high throughput confirmation assay for small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 651571) Counterscreen for discovery of small molecules that bind to the HIV-1-gp120 binding antibody, PG9: TR-FRET-based biochemical high throughput assay to identify small molecules that bind to the control antibody, PGY04, which binds to a site on the HIV envelope different from the PG9 binding site (AID 651604) TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of 5-mCpG-binding domain protein 2 (MBD2)-DBD binding to methylated oligonucleotide (AID 686964)

BRD-K27735716-001-01-8 PubChem CID : 54618805		0.63 (in 3 replicates)	-0.62	0.353				<p>Total number of assays tested in: 37. Active in the following assays:</p> <ul style="list-style-type: none"> Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator.SinglePoint.HTS.Activity (AID 623901) Small molecule inhibitors of miR122 Measured in Cell-Based System Using Plate Reader - 2144-01_Activator.Dose.CherryPick.Activity (AID 651956) Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 2144-02_Inhibitor.Dose.CherryPick.Activity.Set2 (AID 720697)
BRD-K24588660-001-05-1 SMR000029508 AC1MMPHI MLS000093894 MLS002588230 HMS2172A20 HMS3307J08 ZINC4077675 PubChem CID : 3242390		NA (in 1 replicates)	-0.61	NA				<p>Total number of assays tested in: 758. Active in the following assays:</p> <ul style="list-style-type: none"> Factor XIa Mixturo HTS (AID 684) CYP2C9 Assay (AID 777) Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)
BRD-K80217331-001-05-7 MLS000095675 SMR000031222 AC1MMHXG MLS002588683 BDBM78548 HMS2434L11 ZINC3009512 EU-0062248 PubChem CID : 3239030		NA (in 1 replicates)	-0.60	NA				<p>Total number of assays tested in: 808. Active in the following assays:</p> <ul style="list-style-type: none"> HTS of Estrogen Receptor- alpha Coactivator Binding Potentiators (AID 639) Allosteric Modulators of D1 Receptors: Primary Screen (AID 641) Allosteric Modulators of D1 Receptors: Confirmation Screen (AID 642) Allosteric Modulators of D1 Receptors: Secondary Assay 2 (AID 647) Cell signaling CRE-BLA (Fak stim) (AID 662) qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938) uHTS identification of UBCL13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 485273) uHTS Colorimetric assay for identification of inhibitors of Secp-1 (AID 493091) Single concentration confirmation of uHTS hits for Secp-1 phosphatase using a colorimetric assay (AID 540281) Dose Response confirmation of uHTS hits for Secp-1 phosphatase using a colorimetric assay (AID 540297) HTS to Find Inhibitors of Pathogenic Pemphigus Antibodies (AID 588358) Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLP3N Compound Library (AID 651702) 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) CounterScreen Insulin Secretion Assay in Absence of glucose Measured in Cell-Based System Using Plate Reader - 7055-02_Activator.Dose.CherryPick.Activity (AID 977606) 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.Dose.CherryPick.Activity.Set2 (AID 977607)
BRD-K15260875-001-01-8 PubChem CID : 54646110		NA (in 1 replicates)	-0.60	0.245				<p>Total number of assays tested in: 39.</p>
BRD-K13778782-001-01-3 PubChem CID : 54641104		NA (in 1 replicates)	-0.60	NA				<p>Total number of assays tested in: 37.</p>
BRD-K68661868-001-05-3 ZINC01212970 AC1LREGF MLS000693656 HMS2657116 SMSF0015773 ZINC1212970 STK040877 CB06278 BAS 02231388 SMR00025425 PubChem CID : 1367422		NA (in 1 replicates)	-0.59	NA				<p>Total number of assays tested in: 639. Active in the following assays:</p> <ul style="list-style-type: none"> qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counter-screen with HEK cells (AID 1714) Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counter-screen with HEK cells (AID 1716) Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Counter-screen 2 with HEK cells (AID 1718) qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364) Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351)

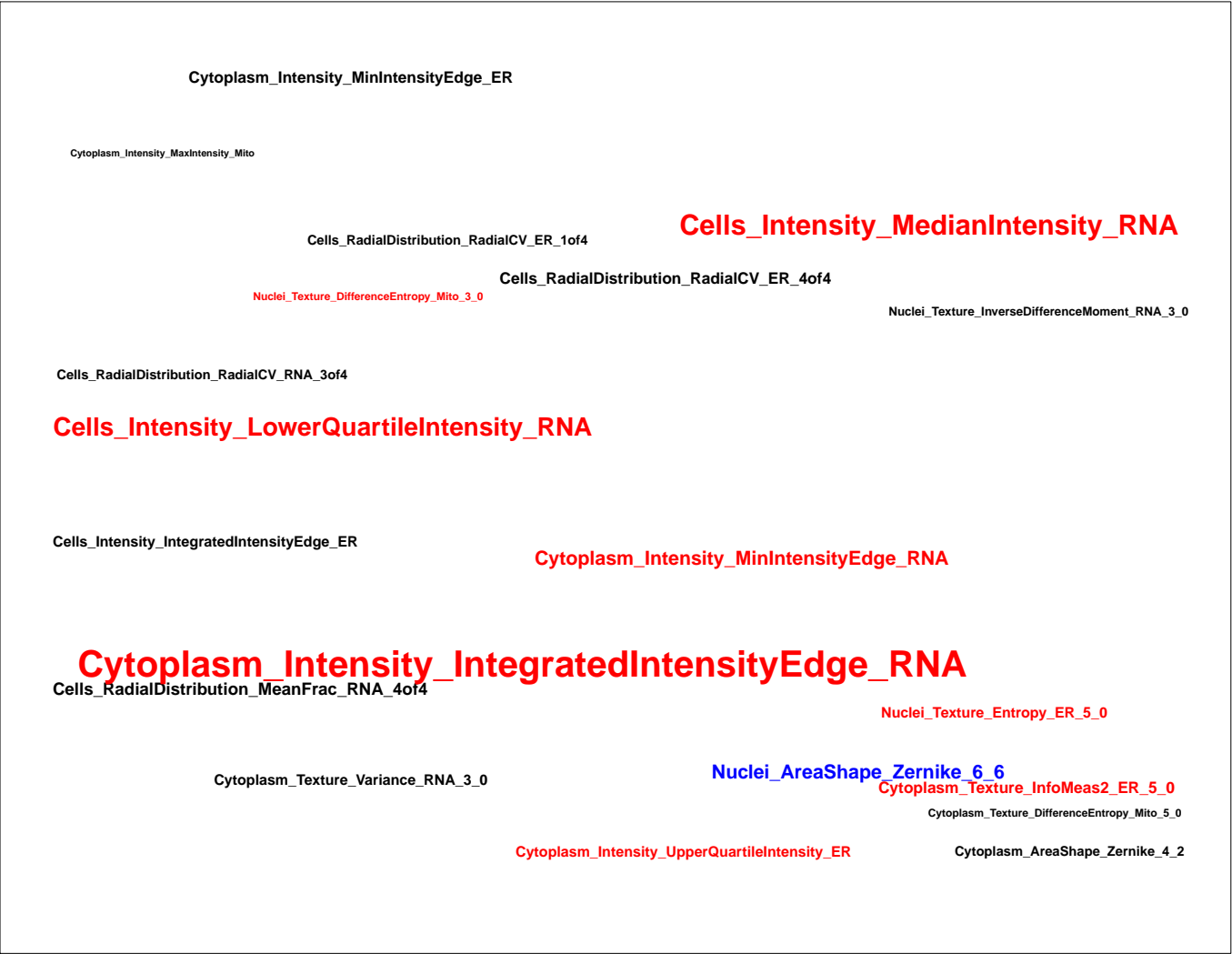
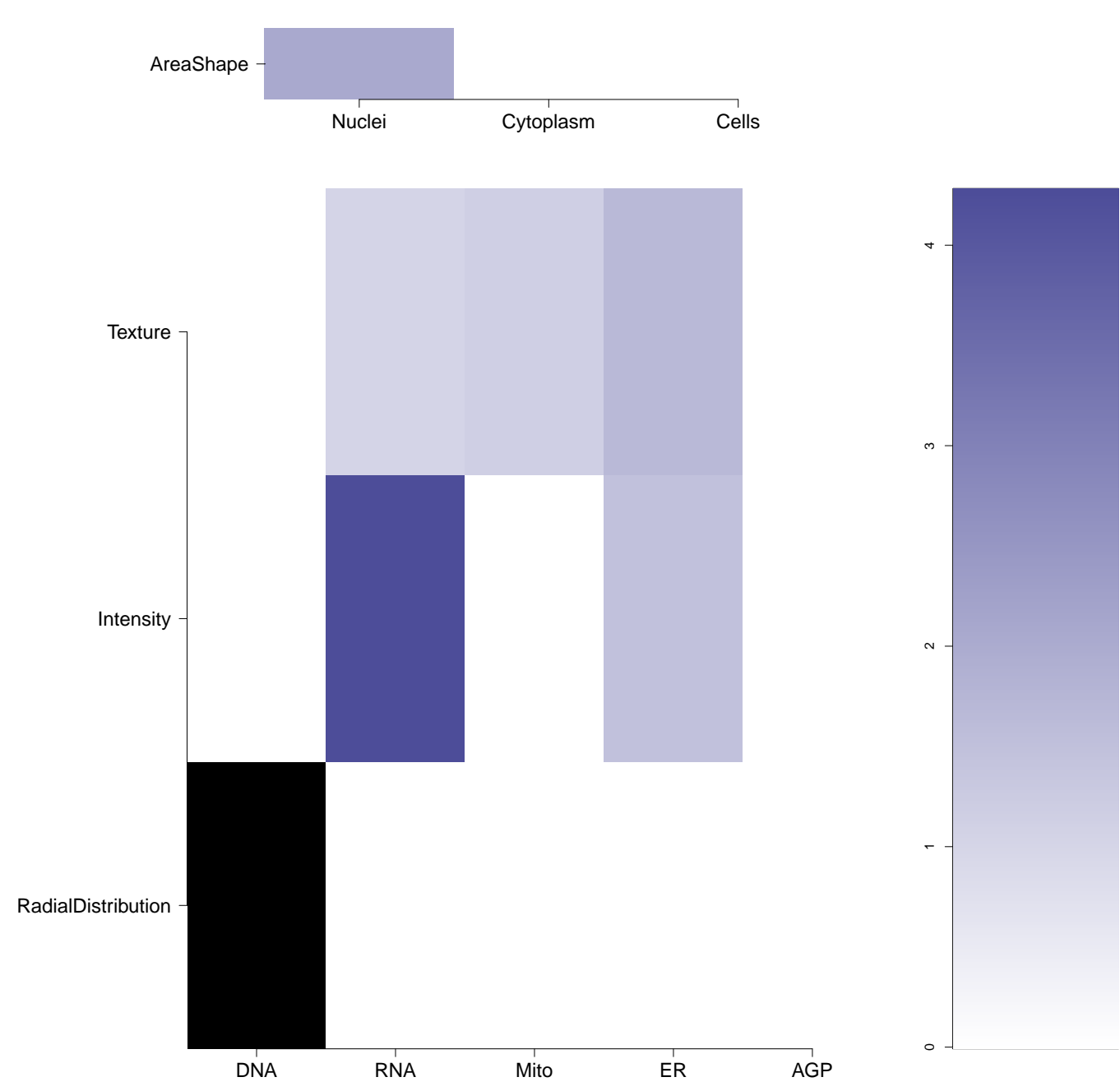
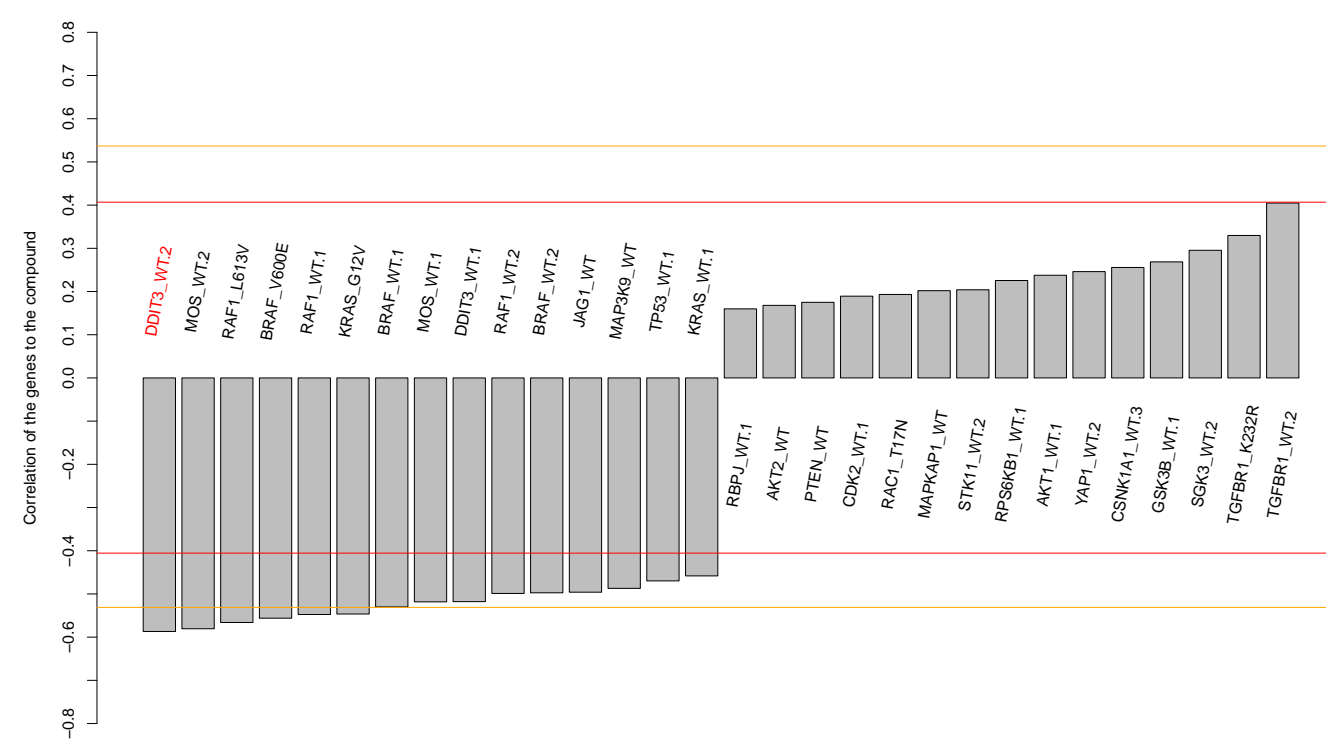
BRD-K53719842-001-06-5
SMR000206475
MLS000582489
HMS2517A04
HMS3376B19
ZINC4958796
PubChem CID : 12004860



NA (in 1 replicates)

-0.59

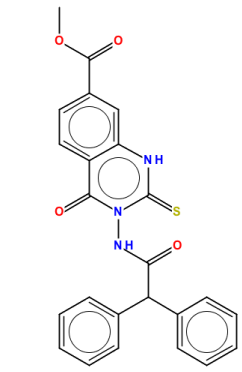
NA



Total number of assays tested in: 633. Active in the following assays:

- Multiplexed high-throughput screen for small molecule regulators of RGS family protein interactions. (AID 1504)
- MLPCN maternal gene expression-MEX-5 TCR-2 binding assay-Primary Screen (AID 1832)
- Fluorescent Polarization Homogeneous Dose Retest to Confirm Inhibitors of Mex-5 Binding to TCR-2 (AID 449745)
- Primary qHTS for delayed death inhibitors of the malarial parasite plasid, 96 hour incubation (AID 504834)

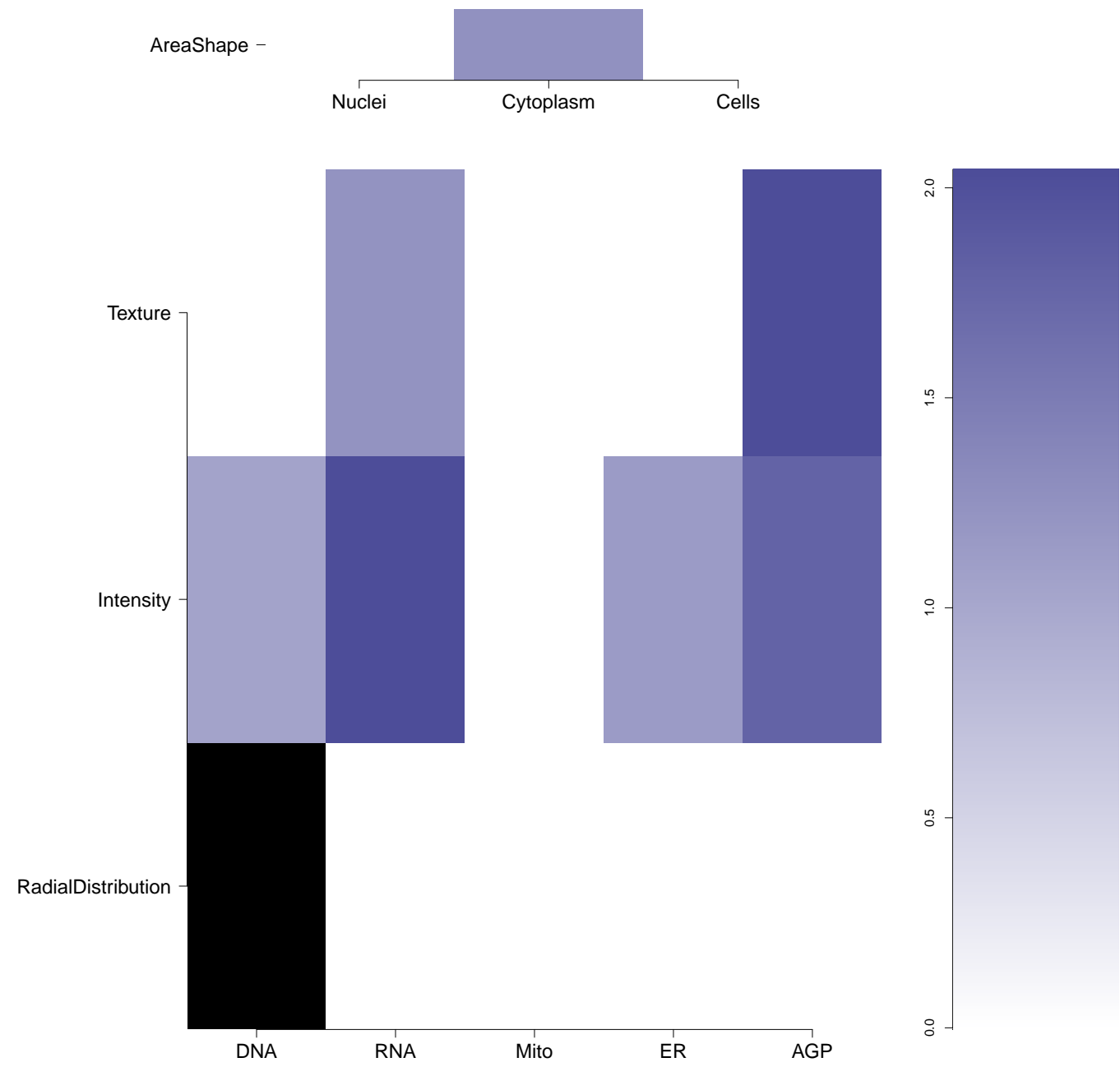
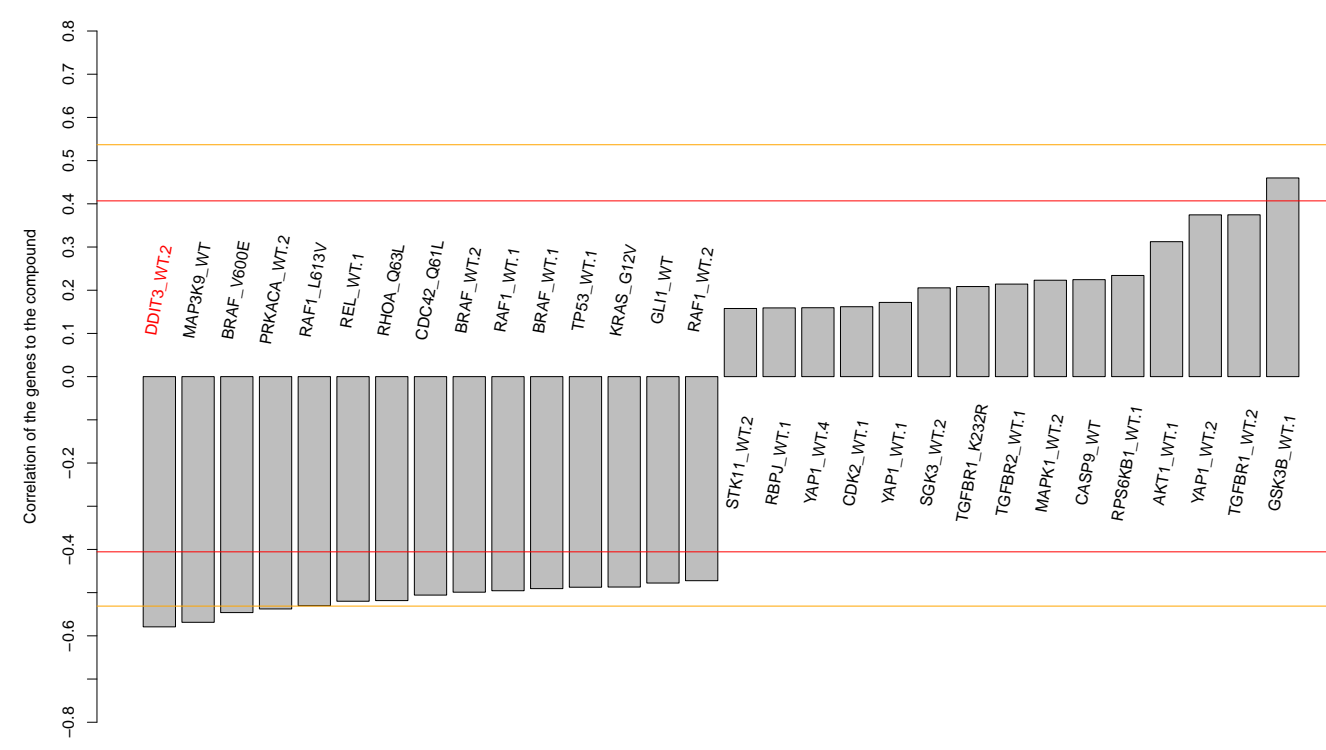
BRD-K46737922-001-05-2
SMR000144923
ST50766085
AC1LZ5SR
MLS000539286
MLS002548114
HMS2448E23
ZINC2327594
STK206870
PubChem CID : 1942357



NA (in 1 replicates)

-0.58

NA



Total number of assays tested in: 685. Active in the following assays:

- CYP2C9 Assay (AID 777)
- HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)
- qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467)
- nHTS identification of microRNA-mediated mRNA deadenylation inhibitors by fluorescence polarization assay (AID 588489)
- Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483)