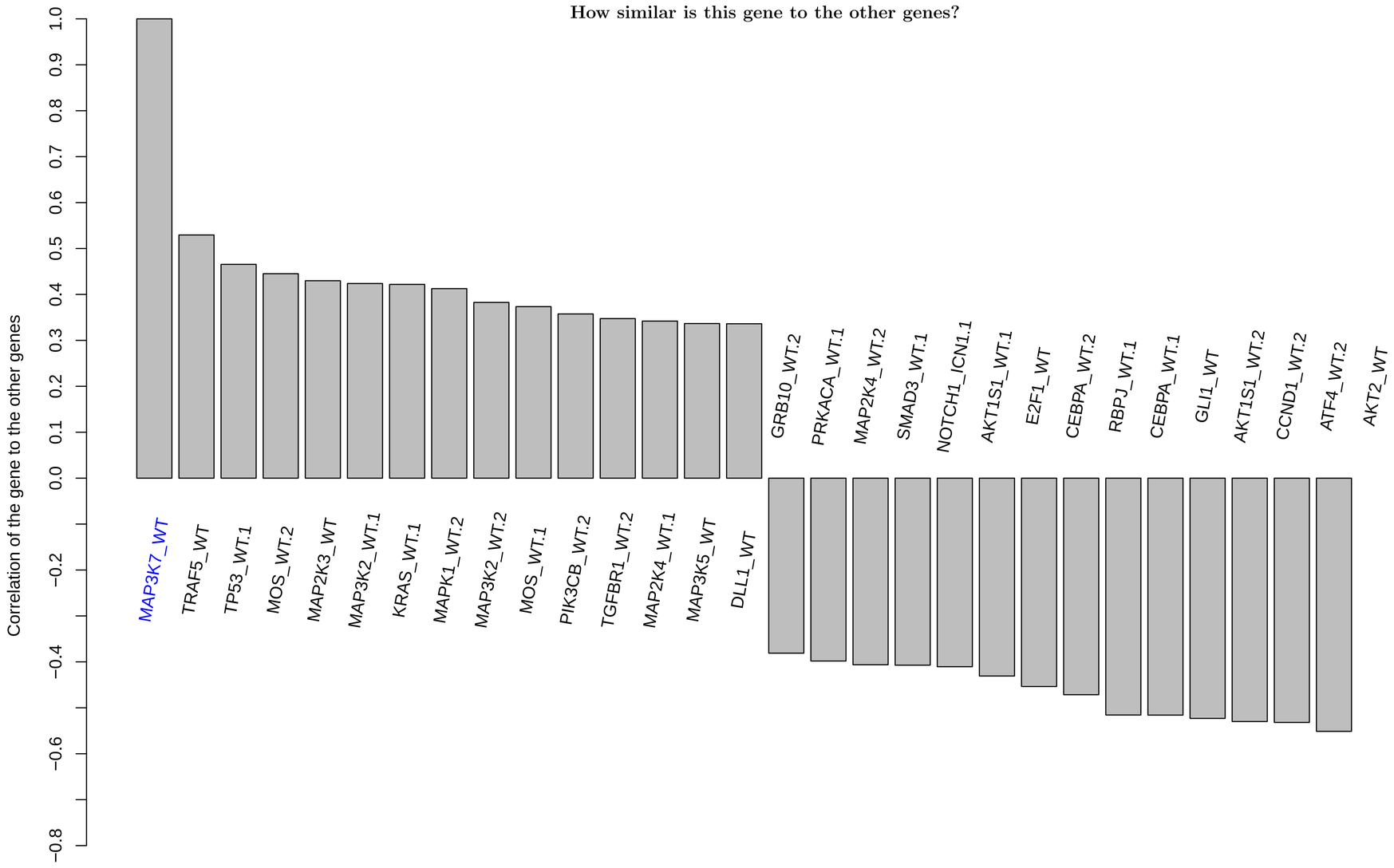
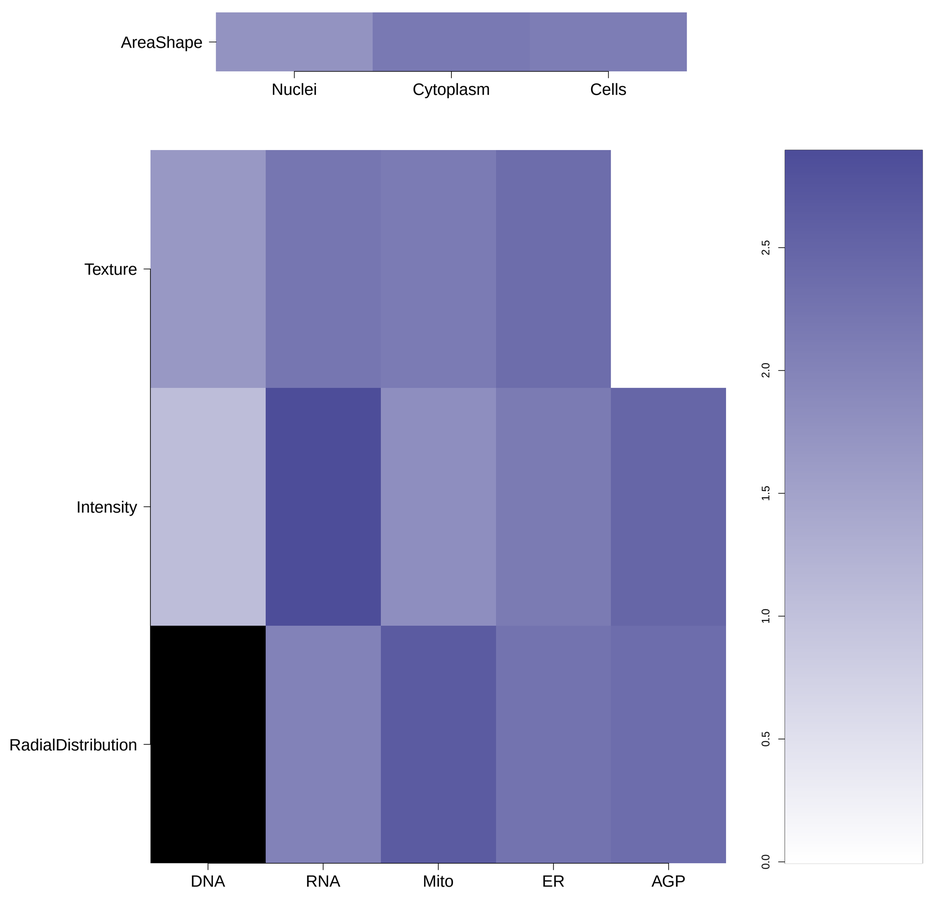
MAP3K7_WT - in Canonical MAPK

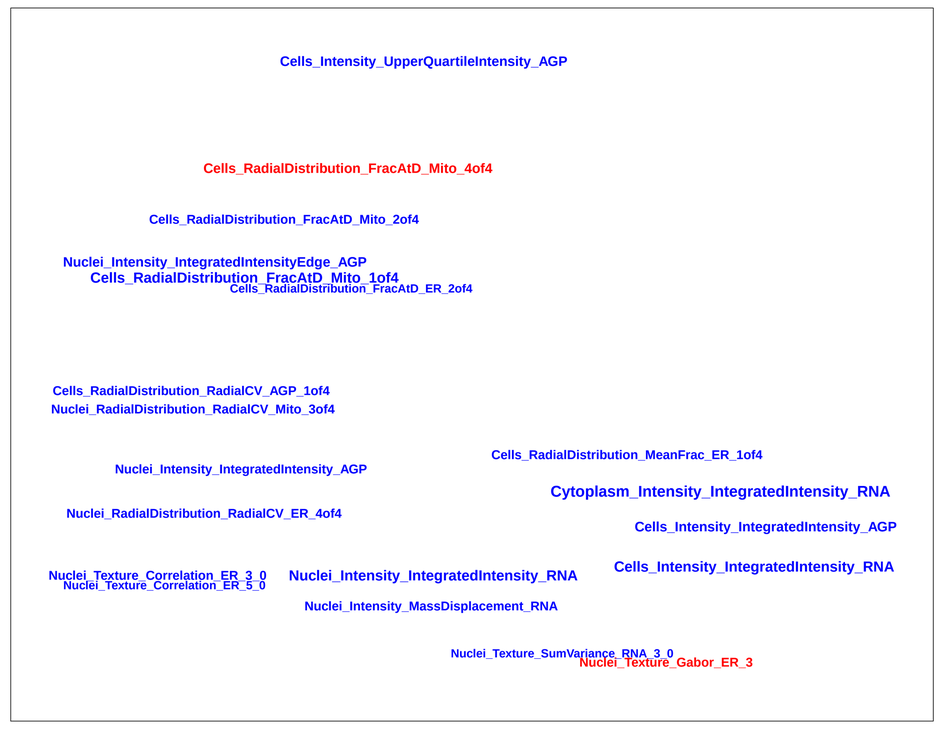
How similar is this gene to the other genes?

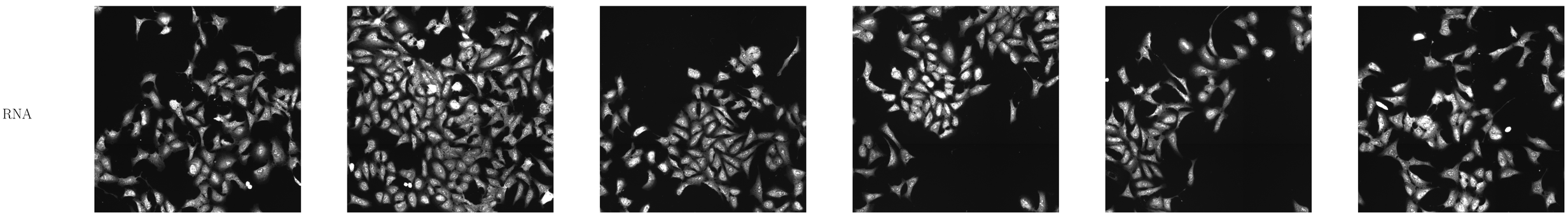


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

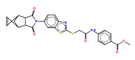
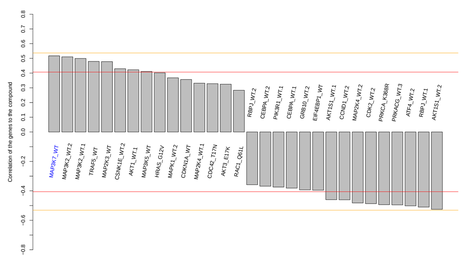
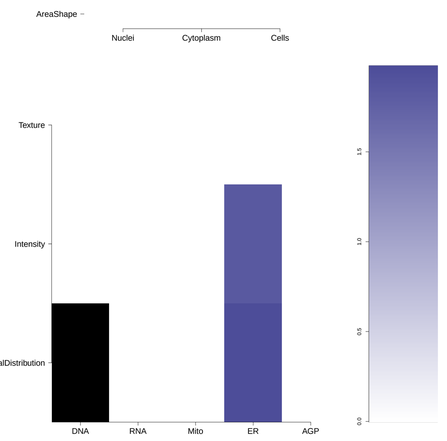
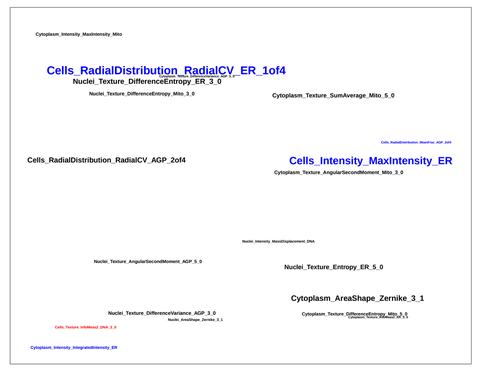
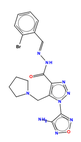
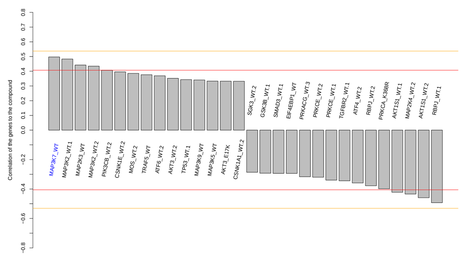
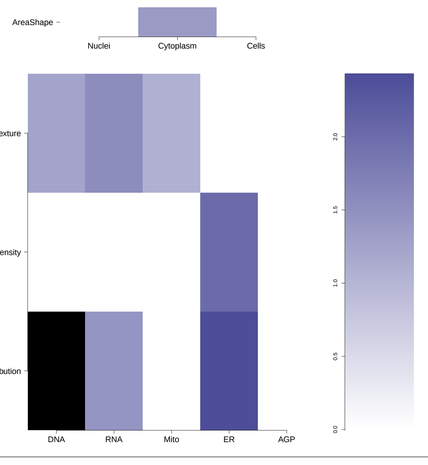
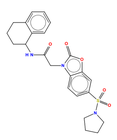
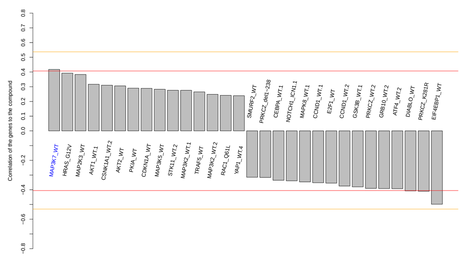
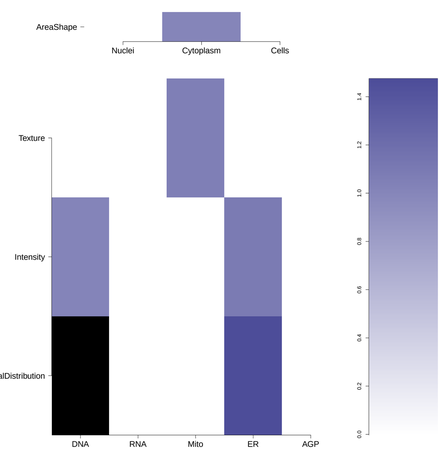


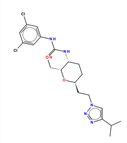
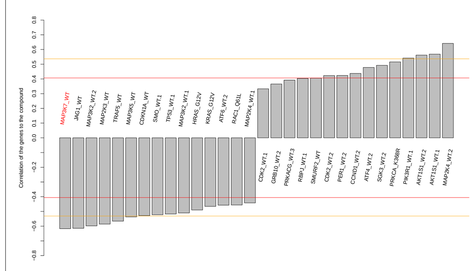
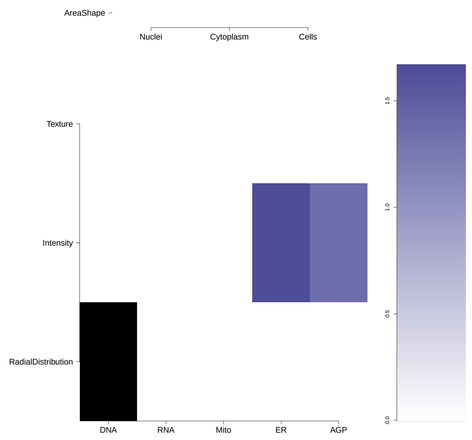
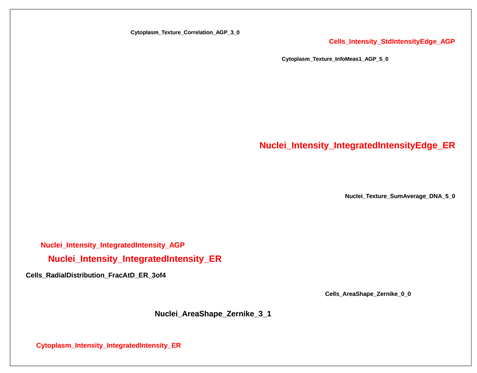
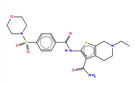
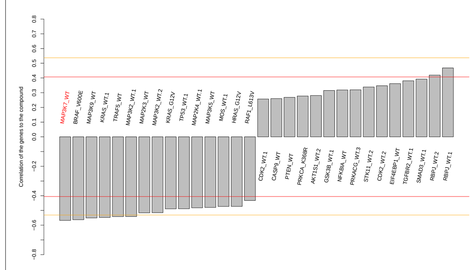
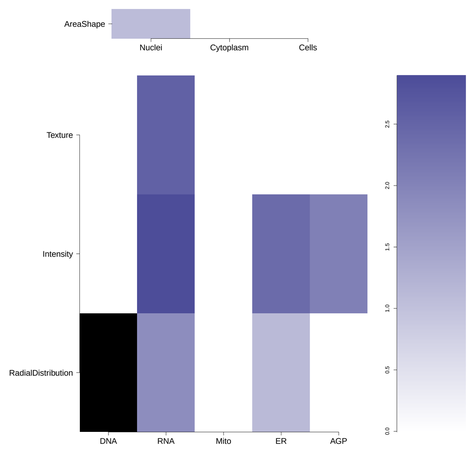
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.





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-A44438286-001-05-1 SMR000217585 MLS000590608 AC1NELBY MLS003902485 BDBM79542 HMS2571I14 STL333705 PubChem CID : 4594054		0.55 (in 4 replicates)	0.52	0.143				Total number of assays tested in: 667. Active in the following assays: • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019) • High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762) • A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_SinglePoint_HTS_Activity (AID 488899) • Image-Based HTS for Selective Agonists for NTR1 (AID 493036) • Nrf2 qHTS screen for inhibitors (AID 504444) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • Single concentration confirmation of Image-Based HTS for Selective Agonists for NTR1 (AID 504550) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • Primary cell-based high-throughput screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 588676) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) • Re-confirmation screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 602420) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLPCN Compound Library (AID 651702) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective antagonists (AID 651780) • Fluorescence-based cell-based primary high throughput confirmation assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 651785) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Ga16 agonists (AID 651953) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with compounds from Cherry Pick01 (AID 651954) • Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of COUP-TFII (NR2F2) (AID 686940) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition (AID 720647) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition Measured in Cell-Based System Using Plate Reader - 7011-01_Antagonist_Dose_CherryPick_Activity_Set2 (AID 743343) • LGR2:Counterscreen with MC4R Measured in Cell-Based System Using Plate Reader - 7011-02_Antagonist_Dose_CherryPick_Activity (AID 743444) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
BRD-K19196783-001-07-8 MLS000948280 SMR000620637 MLS003878864 STK674032 ZINC15989422 ST4035914 PubChem CID : 9600276		0.63 (in 4 replicates)	0.50	0.044				Total number of assays tested in: 489. Active in the following assays: • Luminescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of Glycogen Synthase Kinase-3 beta Activity (AID 434954) • uHTS identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 485273)
BRD-A63068258-001-05-6 MLS000119951 SMR000096872 AC1NSE38 BDBM34507 HMS2252B10 CCG-33028 PubChem CID : 5308150		NA (in 1 replicates)	0.42	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-K90178727-001-01-0 PubChem CID : 54641202		NA (in 1 replicates)	-0.62	NA				Total number of assays tested in: 37.
BRD-K78659179-001-05-9 MLS000100927 F0526-1205 AC1MMH9E HMS2246H03 ZINC3007081 SMR000017019 F0539-0397 PubChem CID : 3285954		0.65 (in 2 replicates)	-0.57	NA				Total number of assays tested in: 764. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Primary cell-based screen for identification of compounds that allosterically activate the Choline Transporter (CHT) (AID 488977) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Confirmatory screen for compounds that activate the Choline Transporter (CHT) (AID 504833) • Counter screen assay of the parental HEK293 cells for compounds that activate the Choline Transporter (CHT) (AID 623908) • uHTS identification of small molecule activators of alpha dystroglycan glycosylation (AID 624168)