NAME
KOBAYASHI_EGFR_SIGNALING_24HR_DN
GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
BURTON_ADIPOGENESIS_3
CHANG_CYCLING_GENES
ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
LE_EGR2_TARGETS_UP
KONG_E2F3_TARGETS
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP
PUJANA_BRCA2_PCC_NETWORK
DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
POOLA_INVASIVE_BREAST_CANCER_UP
MARSON_BOUND_BY_E2F4_UNSTIMULATED
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP
ZHANG_TLX_TARGETS_60HR_DN
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
CROONQUIST_IL6_DEPRIVATION_DN
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR
PUJANA_ATM_PCC_NETWORK
QI_PLASMACYTOMA_UP
REACTOME_CELL_CYCLE
GOLDRATH_ANTIGEN_RESPONSE
MORI_IMMATURE_B_LYMPHOCYTE_DN
BASAKI_YBX1_TARGETS_UP
BENPORATH_CYCLING_GENES
MORI_LARGE_PRE_BII_LYMPHOCYTE_UP
ISHIDA_E2F_TARGETS
CROONQUIST_NRAS_SIGNALING_DN
REACTOME_DNA_REPLICATION
REACTOME_CELL_CYCLE_MITOTIC
CAIRO_HEPATOBLASTOMA_CLASSES_UP
WHITEFORD_PEDIATRIC_CANCER_MARKERS
PUJANA_XPRSS_INT_NETWORK
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR
BLUM_RESPONSE_TO_SALIRASIB_DN
KANG_DOXORUBICIN_RESISTANCE_UP
WU_APOPTOSIS_BY_CDKN1A_VIA_TP53
REACTOME_MITOTIC_M_M_G1_PHASES
SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
FUJII_YBX1_TARGETS_DN
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP

REACTOME_IMMUNE_SYSTEM
ODONNELL_TFRC_TARGETS_DN
CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN
MARKEY_RB1_ACUTE_LOF_DN
PUJANA_BRCA1_PCC_NETWORK
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP
PID_BCR_5PATHWAY
HELLER_SILENCED_BY_METHYLATION_UP
BASSO_CD40_SIGNALING_UP
MISSIAGLIA_REGULATED_BY_METHYLATION_DN
MUELLER_PLURINET
RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
SONG_TARGETS_OF_IE86_CMV_PROTEIN
FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_UP
BIDUS_METASTASIS_UP
RHODES_UNDIFFERENTIATED_CANCER
REN_BOUND_BY_E2F
KAUFFMANN_DNA_REPLICATION_GENES
BENPORATH_PROLIFERATION
MCLACHLAN_DENTAL_CARIES_DN
KAUFFMANN_DNA_REPAIR_GENES
PUJANA_CHEK2_PCC_NETWORK
REACTOME_S_PHASE
RIZ_ERYTHROID_DIFFERENTIATION
TANG_SENESCENCE_TP53_TARGETS_DN
HORIUCHI_WTAP_TARGETS_DN
WHITFIELD_CELL_CYCLE_LITERATURE
MCLACHLAN_DENTAL_CARIES_UP
MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
GAVIN_FOXP3_TARGETS_CLUSTER_P6
HADDAD_B_LYMPHOCYTE_PROGENITOR
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN
WINNEPENNINCKX_MELANOMA_METASTASIS_UP
WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
LANDIS_ERBB2_BREAST_TUMORS_324_UP
MORI_PRE_BI_LYMPHOCYTE_UP
MORI_PLASMA_CELL_DN
FEVR_CTNNB1_TARGETS_DN
PUJANA_BRCA_CENTERED_NETWORK
BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP
FURUKAWA_DUSP6_TARGETS_PCI35_DN
AMUNDSON_GAMMA_RADIATION_RESPONSE

GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
DODD_NASOPHARYNGEAL_CARCINOMA_DN
WHITFIELD_CELL_CYCLE_G2_M
MITSIADES_RESPONSE_TO_APLIDIN_DN
LEE_EARLY_T_LYMPHOCYTE_UP
WIELAND_UP_BY_HBV_INFECTION
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
KAMMINGA_EZH2_TARGETS
PATIL_LIVER_CANCER
MORI_MATURE_B_LYMPHOCYTE_UP
FOURNIER_ACINAR_DEVELOPMENT_LATE_2
GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR
ZHENG_GLIOBLASTOMA_PLASTICITY_UP
ZHANG_TLX_TARGETS_36HR_DN
CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP
VECCHI_GASTRIC_CANCER_EARLY_UP
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP
BERENJENO_TRANSFORMED_BY_RHOA_UP
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_UP
KEGG_CELL_CYCLE
MORI_IMMATURE_B_LYMPHOCYTE_UP
REACTOME_MITOTIC_G1_G1_S_PHASES
REACTOME_INTERFERON_SIGNALING
RODWELL_AGING_KIDNEY_UP
MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
RUIZ_TNC_TARGETS_DN
KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN
REACTOME_ADAPTIVE_IMMUNE_SYSTEM
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN
ZHANG_TLX_TARGETS_UP
WALLACE_PROSTATE_CANCER_RACE_UP
GARY_CD5_TARGETS_DN
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
LEE_DIFFERENTIATING_T_LYMPHOCYTE
BENPORATH_ES_1
TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C
HOLLMANN_APOPTOSIS_VIA_CD40_UP
CHEN_METABOLIC_SYNDROM_NETWORK
SMID_BREAST_CANCER_NORMAL_LIKE_UP
SHEPARD_BMYB_MORPHOLINO_DN

SMID_BREAST_CANCER_BASAL_UP
JOHNSTONE_PARVB_TARGETS_3_DN
ZHANG_BREAST_CANCER_PROGENITORS_UP
GAL_LEUKEMIC_STEM_CELL_DN
PID_PDGFRBPATHWAY
JOHANSSON_GLIOMAGENESIS_BY_PDGFB_UP
LEE_LIVER_CANCER_SURVIVAL_DN
PENG_RAPAMYCIN_RESPONSE_UP
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
SHEPARD_CRUSH_AND_BURN_MUTANT_DN
NUYTTEN_EZH2_TARGETS_DN
HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_UP
AFFAR_YY1_TARGETS_DN
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP
WHITFIELD_CELL_CYCLE_G2
WANG_CISPLATIN_RESPONSE_AND_XPC_UP
CHICAS_RB1_TARGETS_GROWING
DAZARD_RESPONSE_TO_UV_NHEK_DN
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP
ALCALAY_AML_BY_NPM1_LOCALIZATION_DN
REACTOME_MITOTIC_PROMETAPHASE
SMIRNOV_RESPONSE_TO_IR_6HR_DN
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP
GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_UP
WONG_EMBRYONIC_STEM_CELL_CORE
ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_UP
BROWNE_HCMV_INFECTION_24HR_UP
LINDGREN_BLADDER_CANCER_CLUSTER_3_UP
MARTINEZ_RESPONSE_TO_TRABECTEDIN_DN
LINDGREN_BLADDER_CANCER_CLUSTER_1_DN
VANTVEER_BREAST_CANCER_ESR1_DN
KORKOLA_TERATOMA
MANALO_HYPOXIA_DN
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_UP
WHITFIELD_CELL_CYCLE_G1_S
RASHI_RESPONSE_TO_IONIZING_RADIATION_6
ONDER_CDH1_TARGETS_2_DN
MARKEY_RB1_ACUTE_LOF_UP
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS
GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP

PAL_PRMT5_TARGETS_UP
LABBE_WNT3A_TARGETS_UP
HELLER_HDAC_TARGETS_UP
BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP
GRADE_COLON_AND_RECTAL_CANCER_UP
TARTE_PLASMA_CELL_VS_PLASMABLAST_DN
WHITFIELD_CELL_CYCLE_S
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_UP
CHICAS_RB1_TARGETS_SENESCENT
DUTERTRE_ESTRADIOL_RESPONSE_6HR_UP
LEE_BMP2_TARGETS_DN
KEGG_CHEMOKINE_SIGNALING_PATHWAY
CUI_TCF21_TARGETS_2_UP
HELLER_HDAC_TARGETS_DN
PENG_GLUCOSE_DEPRIVATION_DN
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN
MARKEY_RB1_CHRONIC_LOF_UP
REACTOME_APOPTOSIS
CONCANNON_APOPTOSIS_BY_EPOXOMICIN_DN
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
ZAMORA_NOS2_TARGETS_UP
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON
ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP
RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
BORLAK_LIVER_CANCER_EGF_UP
SMID_BREAST_CANCER_LUMINAL_B_DN
WILCOX_PRESPONSE_TO_ROGESTERONE_UP
BORCZUK_MALIGNANT_MESOTHELIOMA_UP
HOSHIDA_LIVER_CANCER_SUBCLASS_S1
REACTOME_INNATE_IMMUNE_SYSTEM
SASAKI_ADULT_T_CELL_LEUKEMIA
BASSO_B_LYMPHOCYTE_NETWORK
CHANDRAN_METASTASIS_UP
OLSSON_E2F3_TARGETS_DN
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION
CAIRO_LIVER_DEVELOPMENT_UP
MARSON_BOUND_BY_FOXP3_UNSTIMULATED
GEORGES_TARGETS_OF_MIR192_AND_MIR215
IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR
LI_INDUCED_T_TO_NATURAL_KILLER_UP
FOSTER_TOLERANT_MACROPHAGE_DN
VANTVEER_BREAST_CANCER_METASTASIS_DN

BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE
SHEN_SMARCA2_TARGETS_DN
KIM_WT1_TARGETS_DN
BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
TSAI_RESPONSE_TO_IONIZING_RADIATION
MATTIOLI_MGUS_VS_PCL
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP
LEE_LIVER_CANCER_DENA_UP
AMUNDSON_GENOTOXIC_SIGNATURE
BOQUEST_STEM_CELL_DN
SCIBETTA_KDM5B_TARGETS_DN
KUMAR_TARGETS_OF_MLL_AF9_FUSION
SASSON_RESPONSE_TO_FORSKOLIN_DN
BROCKE_APOPTOSIS_REVERSED_BY_IL6
MATSUDA_NATURAL_KILLER_DIFFERENTIATION
PILON_KLF1_TARGETS_DN
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_DN
RUTELLA_RESPONSE_TO_HGF_DN
KIM_WT1_TARGETS_UP
SASSON_RESPONSE_TO_GONADOTROPHINS_DN
VERHAAK_GLIOBLASTOMA_NEURAL
MARTENS_BOUND_BY_PML_RARA_FUSION
CHANG_CORE_SERUM_RESPONSE_UP
GRESHOCK_CANCER_COPY_NUMBER_UP
YAMAZAKI_TCEB3_TARGETS_UP
AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_DN
WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER
VERHAAK_AML_WITH_NPM1_MUTATED_DN
YAGI_AML_WITH_T_8_21_TRANSLOCATION
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
PID_CXCR4_PATHWAY
LINDGREN_BLADDER_CANCER_CLUSTER_2B
DELYS_THYROID_CANCER_UP
GROSS_HYPOXIA_VIA_ELK3_UP
LENAOUR_DENDRITIC_CELL_MATURATION_DN
MULLIGHAN_MLL_SIGNATURE_1_UP
BILD_E2F3_ONCOGENIC_SIGNATURE
GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM1
LEE_LIVER_CANCER_MYC_E2F1_UP

MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_UP
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN
CHICAS_RB1_TARGETS_CONFLUENT
WEST_ADRENOCORTICAL_TUMOR_UP
SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_DN
OSMAN_BLADDER_CANCER_DN
DER_IFN_GAMMA_RESPONSE_UP
GROSS_HYPOXIA_VIA_ELK3_DN
HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP
AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_2G
THUM_SYSTOLIC_HEART_FAILURE_UP
KIM_GLIS2_TARGETS_UP
WIERENGA_STAT5A_TARGETS_DN
JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
DOANE_RESPONSE_TO_ANDROGEN_DN
DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
SANA_RESPONSE_TO_IFNG_DN
KASLER_HDAC7_TARGETS_1_UP
TIEN_INTESTINE_PROBIOTICS_24HR_UP
REACTOME_GPCR_LIGAND_BINDING
RODRIGUES_NTN1_TARGETS_DN
MULLIGHAN_MLL_SIGNATURE_2_UP
PHONG_TNF_RESPONSE_NOT_VIA_P38
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_UP
LIAO_METASTASIS
GENTILE_UV_HIGH_DOSE_DN
LIU_VAV3_PROSTATE_CARCINOGENESIS_UP
POTTI_ADRIAMYCIN_SENSITIVITY
VERHAAK_AML_WITH_NPM1_MUTATED_UP
RIZKI_TUMOR_INVASIVENESS_3D_DN
KEGG_MAPK_SIGNALING_PATHWAY
ZHU_CMV_ALL_DN
WU_CELL_MIGRATION
DEMAGALHAES_AGING_UP
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_UP
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION
SABATES_COLORECTAL_ADENOMA_UP
ZHENG_BOUND_BY_FOXP3
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12
DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
GRUETZMANN_PANCREATIC_CANCER_UP

TSENG_IRS1_TARGETS_UP
DAIRKEE_CANCER_PRONE_RESPONSE_BPA_E2
MORI_MATURE_B_LYMPHOCYTE_DN
BROWNE_HCMV_INFECTION_14HR_DN
SENESE_HDAC1_TARGETS_UP
FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D
PHONG_TNF_RESPONSE_VIA_P38_PARTIAL
ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP
MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
ZHOU_INFLAMMATORY_RESPONSE_LPS_UP
BENPORATH_NOS_TARGETS
KIM_WT1_TARGETS_12HR_DN
REACTOME_HEMOSTASIS
ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
BILD_HRAS_ONCOGENIC_SIGNATURE
RICKMAN_METASTASIS_DN
BASSO_CD40_SIGNALING_DN
MARSON_BOUND_BY_FOXP3_STIMULATED
MCBRYAN_PUBERTAL_BREAST_6_7WK_DN
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN
CHYLA_CBFA2T3_TARGETS_UP
GRADE_COLON_CANCER_UP
GAVIN_FOXP3_TARGETS_CLUSTER_P3
RASHI_RESPONSE_TO_IONIZING_RADIATION_2
JACKSON_DNMT1_TARGETS_UP
HUANG_GATA2_TARGETS_UP
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN
ZHU_CMV_24_HR_DN
JISON_SICKLE_CELL_DISEASE_UP
PROVENZANI_METASTASIS_DN
DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN
KIM_WT1_TARGETS_8HR_UP
KOBAYASHI_EGFR_SIGNALING_24HR_UP
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN
HAMAI_APOPTOSIS_VIA_TRAIL_UP
LEI_MYB_TARGETS
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN
BENPORATH_OCT4_TARGETS
BLALOCK_ALZHEIMERS_DISEASE_UP

KEEN_RESPONSE_TO_ROSIGLITAZONE_DN
BROWNE_HCMV_INFECTION_48HR_UP
SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
LINDVALL_IMMORTALIZED_BY_TERT_DN
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_DN
NUYTTEN_NIPP1_TARGETS_DN
KEGG_CALCIUM_SIGNALING_PATHWAY
BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_UP
WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP
LEE_LIVER_CANCER_E2F1_UP
COLINA_TARGETS_OF_4EBP1_AND_4EBP2
KIM_WT1_TARGETS_12HR_UP
SENESE_HDAC1_AND_HDAC2_TARGETS_UP
REACTOME_G_ALPHA_I_SIGNALLING_EVENTS
NUYTTEN_EZH2_TARGETS_UP
DARWICHE_PAPILLOMA_RISK_LOW_DN
WELCSH_BRCA1_TARGETS_DN
PLASARI_TGFB1_TARGETS_10HR_UP
MARTENS_TRETINOIN_RESPONSE_DN
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2
SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
RIZKI_TUMOR_INVASIVENESS_3D_UP
WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_UP
VERHAAK_GLIOBLASTOMA_PRONEURAL
ROZANOV_MMP14_TARGETS_UP
SABATES_COLORECTAL_ADENOMA_DN
COLDREN_GEFITINIB_RESISTANCE_DN
WONG_ADULT_TISSUE_STEM_MODULE
AMIT_EGF_RESPONSE_480_HELA
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_UP
UDAYAKUMAR_MED1_TARGETS_DN
BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
HUMMERICH_SKIN_CANCER_PROGRESSION_UP
TARTE_PLASMA_CELL_VS_PLASMABLAST_UP
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN
PENG_LEUCINE_DEPRIVATION_UP
SERVITJA_ISLET_HNF1A_TARGETS_UP
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
BENPORATH_MYC_TARGETS_WITH_EBOX
MASSARWEH_TAMOXIFEN_RESISTANCE_DN
MARTINEZ_RB1_AND_TP53_TARGETS_DN
BROWNE_HCMV_INFECTION_24HR_DN

AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G
KAAB_HEART_ATRIUM_VS_VENTRICLE_UP
BOYLAN_MULTIPLE_MYELOMA_C_D_DN
JOHNSTONE_PARVB_TARGETS_2_UP
BROWNE_HCMV_INFECTION_4HR_DN
BROWNE_HCMV_INFECTION_16HR_UP
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP
PEDRIOLI_MIR31_TARGETS_UP
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_1
ZHONG_SECRETOME_OF_LUNG_CANCER_AND_MACROPHAGE
LINDSTEDT_DENDRITIC_CELL_MATURATION_D
BHATTACHARYA_EMBRYONIC_STEM_CELL
ZWANG_DOWN_BY_2ND_EGF_PULSE
MARKEY_RB1_CHRONIC_LOF_DN
YAGI_AML_WITH_11Q23_REARRANGED
ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP
MILI_PSEUDOPODIA_HAPTOTAXIS_DN
DANG_MYC_TARGETS_UP
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP
HILLION_HMGA1_TARGETS
NIKOLSKY_BREAST_CANCER_17Q21_Q25_AMPLICON
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP
KUMAR_PATHOGEN_LOAD_BY_MACROPHAGES
PASINI_SUZ12_TARGETS_DN
BOYLAN_MULTIPLE_MYELOMA_C_D_UP
PROVENZANI_METASTASIS_UP
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP
DANG_REGULATED_BY_MYC_DN
SANA_TNF_SIGNALING_DN
RAMALHO_STEMNESS_DN
WANG_LMO4_TARGETS_DN
ALCALA_APOPTOSIS
UDAYAKUMAR_MED1_TARGETS_UP
WOOD_EBV_EBNA1_TARGETS_UP
MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN
BENPORATH_NANOG_TARGETS
SHEPARD_BMYB_MORPHOLINO_UP
BHAT_ESR1_TARGETS_NOT_VIA_AKT1_UP
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP
KATSANOU_ELAVL1_TARGETS_UP
HUANG_GATA2_TARGETS_DN

KRIEG_HYPOXIA_NOT_VIA_KDM3A
REACTOME_GPCR_DOWNSTREAM_SIGNALING
RIGGI_EWING_SARCOMA_PROGENITOR_DN
MIKKELSEN_IPS_LCP_WITH_H3K4ME3
YAGI_AML_FAB_MARKERS
SENESE_HDAC3_TARGETS_DN
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1
XU_GH1_AUTOCRINE_TARGETS_UP
INGRAM_SHH_TARGETS_UP
DARWICHE_PAPILLOMA_RISK_HIGH_DN
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_DN
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_UP
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_A
ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP
ZHANG_TLX_TARGETS_DN
MIKKELSEN_NPC_HCP_WITH_H3K27ME3
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE
WANG_TUMOR_INVASIVENESS_DN
KANG_IMMORTALIZED_BY_TERT_DN
SERVITJA_LIVER_HNF1A_TARGETS_DN
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
REACTOME_SIGNALING_BY_PDGF
PENG_GLUTAMINE_DEPRIVATION_DN
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WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_UP	38
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BENPORATH_MYC_TARGETS_WITH_EBOX	42
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CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_1	36
ZHONG_SECRETOME_OF_LUNG_CANCER_AND_MACROPHAGE	15
LINDSTEDT_DENDRITIC_CELL_MATURATION_D	15
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ZWANG_DOWN_BY_2ND_EGF_PULSE	20
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ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP	20
MILI_PSEUDOPODIA_HAPTOTAXIS_DN	51
DANG_MYC_TARGETS_UP	18
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP	32
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KUMAR_PATHOGEN_LOAD_BY_MACROPHAGES	20
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BOYLAN_MULTIPLE_MYELOMA_C_D_UP	16
PROVENZANI_METASTASIS_UP	28
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP	21
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SANA_TNF_SIGNALING_DN	15
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WOOD_EBV_EBNA1_TARGETS_UP	15
MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN	15
BENPORATH_NANOG_TARGETS	82
SHEPARD_BMYB_MORPHOLINO_UP	22
BHAT_ESR1_TARGETS_NOT_VIA_AKT1_UP	16
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KATSANOU_ELAVL1_TARGETS_UP	22
HUANG_GATA2_TARGETS_DN	15

KRIEG_HYPOXIA_NOT_VIA_KDM3A	80
REACTOME_GPCR_DOWNSTREAM_SIGNALING	30
RIGGI_EWING_SARCOMA_PROGENITOR_DN	34
MIKKELSEN_IPS_LCP_WITH_H3K4ME3	16
YAGI_AML_FAB_MARKERS	31
SENESE_HDAC3_TARGETS_DN	42
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	15
XU_GH1_AUTOCRINE_TARGETS_UP	26
INGRAM_SHH_TARGETS_UP	18
DARWICHE_PAPILLOMA_RISK_HIGH_DN	17
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ZHANG_TLX_TARGETS_DN	22
MIKKELSEN_NPC_HCP_WITH_H3K27ME3	19
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	15
WANG_TUMOR_INVASIVENESS_DN	26
KANG_IMMORTALIZED_BY_TERT_DN	18
SERVITJA_LIVER_HNF1A_TARGETS_DN	15
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP	17
REACTOME_SIGNALING_BY_PDGF	17
PENG_GLUTAMINE_DEPRIVATION_DN	34
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MULLIGHAN_NPM1_SIGNATURE_3_DN	22
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PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN	18
KEGG_FOCAL_ADHESION	26
DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_DN	40
GOZGIT_ESR1_TARGETS_DN	61
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_DN	40
PEREZ_TP53_AND_TP63_TARGETS	15
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP	31
ONDER_CDH1_TARGETS_2_UP	32
MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_DN	18
LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN	16
ZWANG_EGF_INTERVAL_DN	18
KEGG_PATHWAYS_IN_CANCER	30
GREGORY_SYNTHETIC_LETHAL_WITH_IMATINIB	18
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP	34
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_UP	21

OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	23
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NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_UP	28
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RODWELL_AGING_KIDNEY_NO_BLOOD_UP	23
SENESE_HDAC3_TARGETS_UP	36
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	16
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN	31
SENESE_HDAC1_AND_HDAC2_TARGETS_DN	21
LEE_LIVER_CANCER_ACOX1_UP	22
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP	35
MANALO_HYPOXIA_UP	25
ZHONG_SECRETOME_OF_LUNG_CANCER_AND_FIBROBLAST	17
DARWICHE_SKIN_TUMOR_PROMOTER_UP	18
HAN_SATB1_TARGETS_DN	54
REACTOME_SIGNALING_BY_GPCR	35
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	42
NIELSEN_GIST	18
KRIEG_KDM3A_TARGETS_NOT_HYPOXIA	15
WIERENGA_STAT5A_TARGETS_UP	15
RASHI_RESPONSE_TO_IONIZING_RADIATION_5	16

ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX
-0.7308638	-5.07339	0	0	0	315
-0.5868367	-4.74437	0	0	0	315
-0.791213	-4.720301	0	0	0	229
-0.70969343	-4.686857	0	0	0	323
-0.69772327	-4.6513457	0	0	0	334
-0.7265829	-4.540115	0	0	0	234
-0.7866296	-4.531212	0	0	0	229
-0.72955054	-4.4458075	0	0	0	213
-0.59808975	-4.440073	0	0	0	387
-0.62168074	-4.438747	0	0	0	315
-0.61084145	-4.4200068	0	0	0	319
-0.55568373	-4.4178557	0	0	0	271
-0.72885674	-4.313953	0	0	0	315
-0.69089764	-4.2930017	0	0	0	229
-0.6009962	-4.2506304	0	0	0	315
-0.66938317	-4.1441627	0	0	0	234
-0.6924938	-4.1308484	0	0	0	263
-0.7076967	-4.1075544	0	0	0	248
-0.47276405	-4.107341	0	0	0	391
-0.6333866	-4.1069207	0	0	0	327
-0.63677704	-4.0981984	0	0	0	315
-0.5298413	-4.086143	0	0	0	315
-0.7043727	-4.066873	0	0	0	258
-0.6411378	-3.995247	0	0	0	234
-0.5058514	-3.9310117	0	0	0	335
-0.7251459	-3.920823	0	0	0	261
-0.80494124	-3.898815	0	0	0	229
-0.7351492	-3.8855445	0	0	0	291
-0.68642104	-3.8714836	0	0	0	279
-0.6379947	-3.8317552	0	0	0	227
-0.51579666	-3.81206	0	0	0	315
-0.6427512	-3.8032923	0	0	0	315
-0.6643399	-3.7868528	0	0	0	387
-0.71941596	-3.7685745	0	0	0	212
-0.47849482	-3.740072	0	0	0	313
-0.77086383	-3.7244184	0	0	0	272
-0.8040498	-3.7123811	0	0	0	215
-0.6698049	-3.710492	0	0	0	279
-0.4913769	-3.6877084	0	0	0	315
-0.5764529	-3.6445234	0	0	0	278
-0.5900211	-3.6229658	0	0	0	261

-0.481825	-3.610708	0	0	0	339
-0.6287523	-3.6091423	0	0	0	229
-0.7193959	-3.6046705	0	0	0	212
-0.5552107	-3.5887275	0	0	0	365
-0.3767131	-3.572819	0	0	0	289
-0.7571662	-3.5628467	0	0	0	229
-0.76272017	-3.5421526	0	0	0	286
-0.53744817	-3.5167062	0	0	0	314
-0.69966185	-3.514762	0	0	0	247
-0.63244224	-3.5110855	0	0	0	335
-0.60699916	-3.4982648	0	0	0	315
-0.4556745	-3.4967864	0	0	0	363
-0.68164295	-3.4767838	0	0	0	215
-0.629045	-3.4728348	0	0	0	309
-0.62611526	-3.4660048	0	0	0	315
-0.6756908	-3.4531295	0	0	0	333
-0.79326683	-3.4354596	0	0	0	226
-0.70589453	-3.4222627	0	0	0	215
-0.6237411	-3.4187667	0	0	0	335
-0.49742877	-3.4128718	0	0	0	438
-0.6966776	-3.4054134	0	0	0	255
-0.40484557	-3.4017408	0	0	0	309
-0.76339084	-3.3998265	0	0	0	279
-0.7261572	-3.37015	0	0	0	249
-0.726707	-3.3574617	0	0	0	315
-0.4574943	-3.356929	0	0	0	296
-0.7922267	-3.3523195	0	0	0	227
-0.47964105	-3.331017	0	0	0	384
-0.6477423	-3.3208094	0	0	0	381
-0.6667087	-3.317887	0	0	0	315
-0.5094177	-3.31345	0	0	0	200
-0.58504945	-3.310919	0	0	0	248
-0.6131385	-3.2859507	0	0	0	315
-0.46358815	-3.276641	0	0	0	341
-0.661442	-3.264906	0	0	0	452
-0.6696752	-3.2628477	0	0	0	258
-0.73986477	-3.262653	0	0	0	238
-0.4350742	-3.2501004	0	0	0	342
-0.6497305	-3.243176	0	0	0	296
-0.7710938	-3.231778	0	0	0	309
-0.71883273	-3.2202203	0	0	0	301
-0.6930359	-3.1960924	0	0	0	227

-0.64591956	-3.1930747	0	0	0	227
-0.35293403	-3.1888142	0	0	0	315
-0.51832914	-3.1804056	0	0	0	357
-0.475814	-3.1713436	0	0	0	335
-0.6457546	-3.154209	0	0	0	272
-0.5977353	-3.1471312	0	0	0	400
-0.6407119	-3.1365976	0	0	0	321
-0.73241436	-3.1068242	0	0	0	313
-0.37499842	-3.1022904	0	0	0	301
-0.69972247	-3.1010916	0	0	0	381
-0.4949934	-3.0945134	0	0	0	405
-0.46827963	-3.091376	0	0	0	248
-0.6511764	-3.0852232	0	0	0	279
-0.4520358	-3.0769253	0	0	0	226
-0.5407636	-3.0765078	0	0	0	213
-0.566546	-3.0611567	0	0	0	272
-0.41180512	-3.0445902	0	0	0	318
-0.5672115	-3.040423	0	0	0	339
-0.6399739	-3.0376651	0	0	0	434
-0.38073477	-3.03243	0	0	0	366
-0.49119228	-3.024402	0	0	0	306
-0.6901624	-3.0113382	0	0	0	227
-0.67540014	-2.9930892	0	0	0	381
-0.69407487	-2.9920738	0	0	0	279
-0.65521127	-2.9768405	0	0	0	366
-0.41339624	-2.971067	0	0	0	497
-0.43881747	-2.9671304	0	0	0	582
-0.5150937	-2.9655647	0	0	0	315
-0.562918	-2.9440982	0	2.28E-05	0.001	264
-0.44193432	-2.9395132	0	2.26E-05	0.001	286
-0.55140233	-2.9344504	0	2.24E-05	0.001	365
-0.55863667	-2.907015	0	2.22E-05	0.001	248
-0.43144894	-2.897204	0	2.20E-05	0.001	407
-0.44059214	-2.8775902	0	2.18E-05	0.001	239
-0.3094696	-2.8743846	0	2.16E-05	0.001	277
-0.49769834	-2.87261	0	2.14E-05	0.001	451
-0.4259458	-2.8527615	0	2.13E-05	0.001	355
-0.45281813	-2.8520594	0	2.11E-05	0.001	301
-0.51835126	-2.8495727	0	2.09E-05	0.001	187
-0.30498353	-2.8487196	0	2.07E-05	0.001	326
-0.35146847	-2.8472464	0	2.06E-05	0.001	222
-0.4655804	-2.838423	0	2.04E-05	0.001	219

-0.3488316	-2.7839088	0	3.60E-05	0.002	402
-0.36422852	-2.755831	0	3.58E-05	0.002	301
-0.3869781	-2.7460883	0	3.55E-05	0.002	366
-0.47824207	-2.7315698	0	3.52E-05	0.002	227
-0.59493995	-2.69395	0	7.04E-05	0.004	340
-0.61098146	-2.67365	0	8.76E-05	0.005	268
-0.50322396	-2.6404998	0	1.22E-04	0.007	278
-0.43469253	-2.6347566	0	1.21E-04	0.007	260
-0.49878672	-2.5825787	0	1.37E-04	0.008	442
-0.5226205	-2.5784652	0	1.36E-04	0.008	342
-0.31015328	-2.5728412	0	1.35E-04	0.008	316
-0.5684385	-2.5678065	0	1.34E-04	0.008	159
-0.37229487	-2.567385	0	1.33E-04	0.008	227
-0.48055497	-2.5620897	0	1.48E-04	0.009	381
-0.43052664	-2.5421278	0	1.47E-04	0.009	344
-0.42834806	-2.5406234	0	1.46E-04	0.009	190
-0.39512298	-2.519751	0	1.74E-04	0.011	227
-0.47420734	-2.5003242	0	2.50E-04	0.016	228
-0.5375228	-2.4810598	0	2.65E-04	0.017	341
-0.38781524	-2.477696	0	2.63E-04	0.017	229
-0.5791762	-2.4756749	0	2.61E-04	0.017	315
-0.46726334	-2.469724	0	2.77E-04	0.018	206
-0.44917867	-2.4538732	0	2.91E-04	0.019	370
-0.464224	-2.4388475	0	3.34E-04	0.022	213
-0.31004056	-2.4345953	0	3.48E-04	0.023	290
-0.55376405	-2.4315875	0	3.62E-04	0.024	315
-0.535959	-2.4283621	0	3.75E-04	0.025	352
-0.44499835	-2.4187393	0	4.30E-04	0.029	248
-0.54475033	-2.4099936	0	4.56E-04	0.031	288
-0.32482922	-2.4044287	0	4.80E-04	0.033	226
-0.48191667	-2.3676584	0.00369004	6.92E-04	0.048	341
-0.32319355	-2.353261	0	7.94E-04	0.055	352
-0.38150024	-2.344216	0	8.61E-04	0.06	278
-0.54019517	-2.3369975	0	9.13E-04	0.063	188
-0.3904731	-2.3304675	0	9.37E-04	0.065	226
-0.346945	-2.3082714	0	0.00106302	0.073	439
-0.51651907	-2.306997	0	0.0010694	0.074	334
-0.47620696	-2.2795293	0	0.00129639	0.091	381
-0.34131026	-2.277743	0	0.00130282	0.092	449
-0.3533418	-2.2652898	0	0.00140475	0.098	393
-0.489824	-2.257596	0	0.00149109	0.105	384
-0.5335938	-2.2486086	0	0.00160588	0.113	613

-0.36734897	-2.2379856	0	0.00169009	0.12	313
-0.43274954	-2.236695	0	0.00172313	0.123	264
-0.34735146	-2.232198	0	0.00171299	0.123	241
-0.410105	-2.207147	0	0.00214758	0.153	325
-0.33994356	-2.197344	0	0.00221271	0.158	215
-0.2879688	-2.1971614	0	0.00219992	0.158	281
-0.4484109	-2.175158	0	0.00257557	0.181	272
-0.4993633	-2.1734781	0	0.00257252	0.182	279
-0.29169032	-2.1418486	0	0.00316649	0.215	370
-0.38932613	-2.1413453	0	0.0031486	0.215	212
-0.27170736	-2.1284301	0	0.00340195	0.232	278
-0.40426606	-2.1281133	0	0.00338294	0.232	352
-0.3086286	-2.12199	0	0.0034894	0.241	242
-0.3722876	-2.1211317	0	0.00350524	0.243	222
-0.47352397	-2.1128917	0	0.00374521	0.261	281
-0.38159293	-2.11137	0	0.00377532	0.263	424
-0.40369758	-2.085481	0	0.00441002	0.304	266
-0.43417466	-2.0757697	0.00357143	0.00464721	0.32	483
-0.35690272	-2.0726748	0	0.00473043	0.328	345
-0.34198233	-2.0644546	0	0.00493257	0.337	222
-0.46177036	-2.0572793	0	0.00505157	0.345	309
-0.41694432	-2.0410798	0	0.00560812	0.378	659
-0.4549736	-2.0409815	0	0.0055786	0.378	352
-0.27714565	-2.0293384	0	0.00610387	0.413	309
-0.47573933	-2.0127282	0	0.00666047	0.439	149
-0.25234753	-2.0110922	0	0.00670783	0.443	442
-0.3882622	-2.0093997	0	0.0067765	0.449	213
-0.36724317	-2.0072417	0	0.00681282	0.455	276
-0.30486834	-2.001388	0	0.00704877	0.468	389
-0.42496052	-1.9890627	0.00328947	0.00758778	0.495	322
-0.34696293	-1.9847692	0	0.00776243	0.506	299
-0.40596658	-1.9768022	0	0.00806758	0.518	226
-0.4513419	-1.9681239	0	0.00860515	0.542	288
-0.45246348	-1.9503063	0.00647249	0.00964112	0.584	173
-0.41264537	-1.9357626	0.00760456	0.01053947	0.623	397
-0.41160798	-1.9352983	0	0.01053097	0.625	572
-0.22284411	-1.9197899	0	0.01161983	0.665	296
-0.25709915	-1.903551	0.00694444	0.0128	0.703	272
-0.25833768	-1.9028132	0.00621118	0.01277217	0.704	196
-0.32003576	-1.8914973	0.00465116	0.01367038	0.724	105
-0.29725975	-1.8855257	0.00483092	0.01410103	0.736	369
-0.36527076	-1.8784047	0.00348432	0.01486426	0.759	338

-0.41044548	-1.8711826	0.00355872	0.01536027	0.769	204
-0.4003304	-1.860663	0.0078125	0.01621542	0.79	329
-0.27061582	-1.8596536	0	0.01621368	0.792	296
-0.4207473	-1.8473424	0.01736111	0.01709023	0.806	405
-0.39225757	-1.8468814	0.00732601	0.01705159	0.806	296
-0.37643462	-1.842603	0.00719425	0.01736997	0.811	337
-0.43157592	-1.8352662	0.00662252	0.01810015	0.824	354
-0.2543114	-1.8346406	0	0.01806937	0.824	241
-0.38697416	-1.8169334	0.01365188	0.02006105	0.85	516
-0.41190672	-1.8093214	0.00701754	0.02097214	0.863	227
-0.41342962	-1.8079753	0.00986842	0.02102831	0.866	430
-0.40762767	-1.7984787	0.03020134	0.0224255	0.886	229
-0.26869795	-1.792576	0.01546392	0.02312193	0.889	191
-0.4024756	-1.778907	0.02295082	0.02490201	0.91	623
-0.34734225	-1.7702683	0.02362205	0.02591953	0.92	246
-0.23381837	-1.767238	0	0.0261384	0.923	227
-0.19512568	-1.765749	0	0.02619784	0.925	359
-0.4007837	-1.748603	0.02919708	0.02860751	0.942	579
-0.29486907	-1.735988	0.01376147	0.03058643	0.953	268
-0.33427128	-1.7330734	0.00763359	0.03091654	0.958	581
-0.4056052	-1.7280204	0.02	0.03165897	0.964	623
-0.38012403	-1.7278895	0.01532567	0.03154232	0.964	391
-0.25106966	-1.7195892	0.00540541	0.03314532	0.967	366
-0.30264592	-1.6891432	0.01492537	0.03965982	0.982	390
-0.28792801	-1.6850597	0.03305785	0.04027985	0.983	430
-0.35501567	-1.6836296	0.04526749	0.04041991	0.983	843
-0.38673687	-1.6809093	0.02105263	0.04100279	0.984	645
-0.38428083	-1.6784855	0.02439024	0.04140906	0.985	691
-0.25492948	-1.6655815	0.0201005	0.04456601	0.989	629
-0.25188893	-1.6632218	0.00502513	0.04486501	0.99	285
-0.29318148	-1.6612024	0.03585658	0.04525548	0.99	840
-0.2594377	-1.6510729	0.02304148	0.04773143	0.991	502
-0.37591162	-1.6493454	0.04262295	0.0480119	0.991	381
-0.24195135	-1.6432958	0.01075269	0.0492814	0.993	807
-0.2276976	-1.6405338	0.00543478	0.04975681	0.995	416
-0.26735145	-1.6404912	0.01376147	0.04955372	0.995	154
-0.36324587	-1.6335783	0.034375	0.05138935	0.995	390
-0.2414709	-1.6208504	0.02654867	0.05472044	0.995	387
-0.32187003	-1.6116161	0.03370787	0.05738965	0.997	715
-0.34701863	-1.5859257	0.04285714	0.06571155	0.998	334
-0.2941444	-1.5839518	0.03418804	0.06615464	0.998	345
-0.3733964	-1.5833902	0.05035971	0.0660541	0.998	494

-0.3521302	-1.5675557	0.05426357	0.07157174	1	336
-0.2847674	-1.5611048	0.02666667	0.07369284	1	813
-0.20337099	-1.5584608	0.01960784	0.07421524	1	903
-0.24868622	-1.5476454	0.05	0.07854122	1	227
-0.22318858	-1.5416697	0.02777778	0.08102839	1	269
-0.32922894	-1.5401672	0.06329114	0.08133636	1	445
-0.3591627	-1.536597	0.04861111	0.08247378	1	333
-0.3288962	-1.5332267	0.04626335	0.08358792	1	610
-0.35649315	-1.5329967	0.06920415	0.08344175	1	535
-0.28846774	-1.5328009	0.0562249	0.08320568	1	750
-0.21383694	-1.5325886	0.04046243	0.08303344	1	444
-0.3388038	-1.5222245	0.08	0.08698715	1	584
-0.28040156	-1.5158559	0.0513834	0.08962405	1	204
-0.3375601	-1.5131007	0.04964539	0.09070516	1	292
-0.25823784	-1.5123124	0.04910714	0.09070098	1	345
-0.2174607	-1.5014633	0.04861111	0.09510785	1	301
-0.32056296	-1.4694825	0.07590759	0.11117394	1	886
-0.3129364	-1.4646825	0.06737588	0.11348334	1	336
-0.1750154	-1.4545554	0.04807692	0.11877344	1	258
-0.33106646	-1.4530958	0.08910891	0.11922215	1	665
-0.3286385	-1.4435214	0.08921933	0.12431046	1	876
-0.20949052	-1.4370724	0.0621118	0.12809049	1	384
-0.23723389	-1.4354948	0.05789474	0.1285525	1	332
-0.3106041	-1.4178503	0.0866426	0.14019392	1	217
-0.2266467	-1.4152093	0.06341463	0.14158866	1	341
-0.24388167	-1.4084337	0.05371901	0.14578755	1	210
-0.27237514	-1.407471	0.09128631	0.14594033	1	439
-0.3337447	-1.4036176	0.10596027	0.14795095	1	546
-0.27170867	-1.4032304	0.08733624	0.1476254	1	210
-0.24753399	-1.3999021	0.08547009	0.14952497	1	180
-0.30812111	-1.3937007	0.1270903	0.15362236	1	219
-0.2808502	-1.387804	0.11940298	0.15745805	1	825
-0.24240556	-1.3850402	0.11353712	0.15901916	1	681
-0.312323	-1.3845707	0.0974026	0.15885344	1	401
-0.2047423	-1.3735789	0.09090909	0.1667972	1	86
-0.21078508	-1.3732369	0.06666667	0.166529	1	78
-0.25219303	-1.3663969	0.1399177	0.17137064	1	321
-0.30562326	-1.3588778	0.09060403	0.17688286	1	79
-0.22477387	-1.3576926	0.11940298	0.17731757	1	434
-0.27866897	-1.3508275	0.13780919	0.18209621	1	232
-0.21686845	-1.346079	0.12	0.18564674	1	239
-0.17306504	-1.3412133	0.06578948	0.18892588	1	395

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-0.25919482	-1.3341014	0.12121213	0.1941588	1	71
-0.2905895	-1.3276128	0.14661655	0.19961804	1	179
-0.2254961	-1.3259267	0.11814346	0.20052275	1	257
-0.22744903	-1.3250389	0.12236287	0.20067872	1	384
-0.26686907	-1.3214595	0.11808118	0.20326568	1	273
-0.27267444	-1.3088365	0.13261649	0.21449901	1	358
-0.26459947	-1.3062307	0.14785992	0.21608959	1	625
-0.20758237	-1.3013933	0.13513513	0.22007929	1	750
-0.2831984	-1.3013395	0.17100371	0.21941209	1	822
-0.15572225	-1.2998966	0.09615385	0.22013715	1	699
-0.24655266	-1.2991042	0.13779527	0.22018732	1	306
-0.30092964	-1.2964977	0.15181518	0.22190231	1	559
-0.2439326	-1.2929703	0.16605166	0.22474201	1	407
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-0.21792851	-1.2870787	0.1509434	0.22930078	1	606
-0.259838	-1.2868707	0.15294118	0.22870797	1	200
-0.25776717	-1.282617	0.1696113	0.23244141	1	108
-0.23959625	-1.2806284	0.14220184	0.23346367	1	900
-0.29515937	-1.2729602	0.14193548	0.24060841	1	136
-0.16148011	-1.2631595	0.09333333	0.2510655	1	316
-0.25692028	-1.2536004	0.15936255	0.2604995	1	116
-0.2364558	-1.2375044	0.20384616	0.2783484	1	364
-0.19397996	-1.2371193	0.16759777	0.2779484	1	288
-0.15221602	-1.2367392	0.14393939	0.2775688	1	278
-0.24626711	-1.2357907	0.18478261	0.27782524	1	161
-0.29029602	-1.2353449	0.20979021	0.2774744	1	582
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-0.24325487	-1.2229507	0.19928825	0.29065663	1	321
-0.2194899	-1.2227979	0.1826484	0.28988597	1	357
-0.26723257	-1.2223332	0.20588236	0.289557	1	706
-0.23094136	-1.2128555	0.234375	0.30011	1	333
-0.25246665	-1.2125062	0.19787987	0.29964593	1	731
-0.21053214	-1.2073272	0.22881356	0.30505323	1	351
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-0.25151113	-1.1887773	0.225	0.32724807	1	166
-0.16731562	-1.1850625	0.2366864	0.33138648	1	164
-0.172507	-1.1843262	0.24598931	0.3315072	1	301
-0.17466678	-1.1789	0.23557693	0.3382343	1	440
-0.18264413	-1.1735989	0.2254902	0.34434596	1	297
-0.22301024	-1.1695409	0.23868313	0.34901872	1	1013
-0.12845638	-1.158744	0.15492958	0.3635423	1	346

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-0.22631083	-1.1549921	0.26335877	0.36656544	1	149
-0.15369156	-1.154646	0.22222222	0.36597636	1	298
-0.27381122	-1.1439754	0.26245847	0.3800387	1	645
-0.2317499	-1.1419334	0.2781955	0.38193646	1	70
-0.14423053	-1.1419019	0.23015873	0.38088492	1	431
-0.2543036	-1.1416215	0.25249168	0.38017994	1	971
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-0.24240515	-1.1355042	0.31325302	0.3870575	1	317
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-0.24383445	-1.1284714	0.307947	0.3929267	1	342
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-0.13708887	-1.1079923	0.26890758	0.42286497	1	341
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-0.23531449	-1.0982895	0.3003663	0.43603477	1	190
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-0.18262796	-1.0930899	0.3478261	0.43726277	1	381
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-0.23226047	-1.080431	0.34385964	0.45295697	1	428
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-0.19945265	-1.0728885	0.3392857	0.46282324	1	610
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-0.22551638	-1.0540493	0.3923611	0.48746815	1	110
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-0.20407492	-1.0409939	0.4015748	0.5075397	1	706
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-0.16071805	-1.0352889	0.4063927	0.5146432	1	280
-0.19617845	-1.0330831	0.4140625	0.5171548	1	164
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-0.17028436	-1.0146984	0.43396226	0.54314554	1	156
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-0.2112709	-1.0086523	0.44863012	0.55067796	1	427
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-0.15839076	-0.9949477	0.46268657	0.56907135	1	212
-0.23046875	-0.9890701	0.45079365	0.57832605	1	1001
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-0.2002581	-0.9811076	0.46263346	0.5885832	1	127
-0.20729429	-0.9784711	0.5016949	0.5919273	1	121
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-0.1434005	-0.9622685	0.5543478	0.6168803	1	926
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-0.1675021	-0.9600124	0.47679326	0.61811864	1	591
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-0.16514215	-0.9543035	0.50236964	0.6254151	1	423
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-0.1932942	-0.9482338	0.48134327	0.6319656	1	140
-0.15233293	-0.9479348	0.5177665	0.6310131	1	889
-0.21039775	-0.9441749	0.53	0.63611925	1	274
-0.16928174	-0.9418256	0.53932583	0.63884175	1	288
-0.18593888	-0.9393019	0.5207547	0.6419982	1	104
-0.15032186	-0.9373423	0.55813956	0.6440283	1	885
-0.22209625	-0.9371988	0.54340833	0.6426612	1	862
-0.20735525	-0.9341493	0.5273973	0.6466984	1	1031
-0.19901462	-0.9231246	0.5471698	0.6652492	1	426
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-0.110600285	-0.8748106	0.7218045	0.7434437	1	290
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-0.17045957	-0.8646365	0.66431093	0.7541499	1	761
-0.19346668	-0.8569619	0.63176894	0.7661072	1	341

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-0.18772937	-0.8380649	0.70068026	0.7909506	1	77
-0.1392405	-0.835814	0.7118644	0.7927666	1	1120
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-0.19102469	-0.8169456	0.7294521	0.82042634	1	108
-0.15445232	-0.8101936	0.7	0.8298533	1	1100
-0.17435955	-0.8068913	0.74912894	0.83320206	1	817
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-0.13690181	-0.8064665	0.7669903	0.8300006	1	146
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-0.17222235	-0.8029012	0.71666664	0.8317293	1	128
-0.11593417	-0.8008277	0.8089172	0.83295715	1	205
-0.13877168	-0.8002327	0.7837838	0.8318455	1	238
-0.15690163	-0.7955818	0.754717	0.8370058	1	69
-0.16214865	-0.7856723	0.7516779	0.8501625	1	41
-0.18137412	-0.7813591	0.75886524	0.8546917	1	896
-0.1414397	-0.7808458	0.7875	0.8534853	1	289
-0.17231254	-0.778665	0.7692308	0.85498977	1	843
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-0.13099484	-0.7714554	0.7991266	0.85766524	1	278
-0.14200668	-0.7590941	0.7941176	0.8727818	1	136
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-0.15969543	-0.7470037	0.81782943	0.8832839	1	111
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-0.1022004	-0.7345449	0.9019608	0.89420694	1	801
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