```
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP
                                                                                              VERHAAK AML WITH NPM1 MUTATED UP, VERHAAK AML WITH NPM1 MUTATED UP
                                                                                              HUANG_GATA2_TARGETS_UP, HUANG_GATA2_TARGETS_UP
                                                                                              PODAR_RESPONSE_TO_ADAPHOSTIN_UP, PODAR_RESPONSE_TO_ADAPHOSTIN_UP
                                                                                              SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP, SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP
                                                                                              XIE_ST_HSC_S1PR3_OE_UP, XIE_ST_HSC_S1PR3_OE_UP
                                                                                              ALCALAY_AML_BY_NPM1_LOCALIZATION_UP, ALCALAY_AML_BY_NPM1_LOCALIZATION_UP
                                                                                              NAGASHIMA_NRG1_SIGNALING_UP, NAGASHIMA_NRG1_SIGNALING_UP
                                                                                              TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_UP
                                                                                              ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN, ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN
                                                                                              JISON_SICKLE_CELL_DISEASE_UP, JISON_SICKLE_CELL_DISEASE_UP
                                                                                              TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP
                                                                                             TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP
                                                                                             NAGASHIMA EGF SIGNALING UP, NAGASHIMA EGF SIGNALING UP
                                                                                             ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION, ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION
                                                                                             WU_CELL_MIGRATION, WU_CELL_MIGRATION
                                                                                              KARLSSON_TGFB1_TARGETS_DN, KARLSSON_TGFB1_TARGETS_DN
                                                                                              WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN, WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN
                                                                                             VILIMAS_NOTCH1_TARGETS_UP, VILIMAS_NOTCH1_TARGETS_UP
                                                                                             SWEET_KRAS_TARGETS_UP, SWEET_KRAS_TARGETS_UP
                                                                                             GROSS_HYPOXIA_VIA_ELK3_DN, GROSS_HYPOXIA_VIA_ELK3_DN
                                                                                             MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP, MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP
                                                                                             GAVIN_FOXP3_TARGETS_CLUSTER_P3, GAVIN_FOXP3_TARGETS_CLUSTER_P3
                                                                                              GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP, GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP
                                                                                             CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN, CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN
                                                                                              GERY_CEBP_TARGETS, GERY_CEBP_TARGETS
                                                                                              EPPERT_HSC_R, EPPERT_HSC_R
                                                                                              SMIRNOV_RESPONSE_TO_IR_6HR_UP, SMIRNOV_RESPONSE_TO_IR_6HR_UP
                                                                                              TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
                                                                                              ANASTASSIOU_MULTICANCER_INVASIVENESS_SIGNATURE, ANASTASSIOU_MULTICANCER_INVASIVENESS_SIGNATURE
                                                                                              OKUMURA_INFLAMMATORY_RESPONSE_LPS, OKUMURA_INFLAMMATORY_RESPONSE_LPS
                                                                                              AMIT_EGF_RESPONSE_480_HELA, AMIT_EGF_RESPONSE_480_HELA
                                                                                              LINDSTEDT_DENDRITIC_CELL_MATURATION_C, LINDSTEDT_DENDRITIC_CELL_MATURATION_C
                                                                                              TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINDED_IN_ERYTHROCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINDED_IN_ER
                                                                                              FAELT_B_CLL_WITH_VH_REARRANGEMENTS_UP, FAELT_B_CLL_WITH_VH_REARRANGEMENTS_UP
                                                                                              AMIT_DELAYED_EARLY_GENES, AMIT_DELAYED_EARLY_GENES
                                                                                              BROCKE_APOPTOSIS_REVERSED_BY_IL6, BROCKE_APOPTOSIS_REVERSED_BY_IL6
                                                                                              LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP, LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP
                                                                                              UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN, UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN
                                                                                              VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN, VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN
                                                                                              CHIARADONNA NEOPLASTIC TRANSFORMATION KRAS CDC25 DN, CHIARADONNA NEOPLASTIC TRANSFORMATION KRAS CDC25 DN
                                                                                              ROSS_ACUTE_MYELOID_LEUKEMIA_CBF, ROSS_ACUTE_MYELOID_LEUKEMIA_CBF
                                                                                              BURTON_ADIPOGENESIS_9, BURTON_ADIPOGENESIS_9
                                                                                              ELVIDGE_HYPOXIA_UP, ELVIDGE_HYPOXIA_UP
                                                                                              HOELZEL_NF1_TARGETS_UP, HOELZEL_NF1_TARGETS_UP
                                                                                              PHONG_TNF_RESPONSE_VIA_P38_PARTIAL, PHONG_TNF_RESPONSE_VIA_P38_PARTIAL
                                                                                              ONDER_CDH1_SIGNALING_VIA_CTNNB1, ONDER_CDH1_SIGNALING_VIA_CTNNB1
                                                                                              PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN, PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN
                                                                                              ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP, ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP
                                                                                              ONDER_CDH1_TARGETS_1_UP, ONDER_CDH1_TARGETS_1_UP
                                                                                              HOELZEL_NF1_TARGETS_DN, HOELZEL_NF1_TARGETS_DN
                                                                                              JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP, JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP
                                                                                              BURTON_ADIPOGENESIS_8, BURTON_ADIPOGENESIS_8
                                                                                              GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP, GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP
                                                                                              PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP, PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP
                                                                                              ELVIDGE HYPOXIA BY DMOG_UP, ELVIDGE HYPOXIA BY DMOG_UP
                                                                                              ROSS_AML_WITH_AML1_ETO_FUSION, ROSS_AML_WITH_AML1_ETO_FUSION
                                                                                              CHEBOTAEV_GR_TARGETS_DN, CHEBOTAEV_GR_TARGETS_DN
                                                                                              BENPORATH_NOS_TARGETS, BENPORATH_NOS_TARGETS
                                                                                              RODRIGUES_DCC_TARGETS_DN, RODRIGUES_DCC_TARGETS_DN
                                                                                              TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP
                                                                                              VALK_AML_WITH_EVI1, VALK_AML_WITH_EVI1
                                                                                              ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN, ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN
                                                                                              PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_DN, PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_DN
                                                                                              HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN, HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN
                                                                                              KIM_WT1_TARGETS_12HR_UP, KIM_WT1_TARGETS_12HR_UP
                                                                                              DELPUECH_FOXO3_TARGETS_UP, DELPUECH_FOXO3_TARGETS_UP
                                                                                              HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP, HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP
                                                                                              NEMETH_INFLAMMATORY_RESPONSE_LPS_UP, NEMETH_INFLAMMATORY_RESPONSE_LPS_UP
                                                                                              MIKKELSEN_MEF_LCP_WITH_H3K4ME3, MIKKELSEN_MEF_LCP_WITH_H3K4ME3
                                                                                              SUNG_METASTASIS_STROMA_UP, SUNG_METASTASIS_STROMA_UP
                                                                                              DURAND_STROMA_NS_UP, DURAND_STROMA_NS_UP
                                                                                              DUTERTRE_ESTRADIOL_RESPONSE_6HR_DN, DUTERTRE_ESTRADIOL_RESPONSE_6HR_DN
                                                                                              CHUANG_OXIDATIVE_STRESS_RESPONSE_UP, CHUANG_OXIDATIVE_STRESS_RESPONSE_UP
                                                                                              VANHARANTA_UTERINE_FIBROID_DN, VANHARANTA_UTERINE_FIBROID_DN
                                                                                              SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2, SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM2
                                                                                              KIM_GLIS2_TARGETS_UP, KIM_GLIS2_TARGETS_UP
                                                                                              SAGIV_CD24_TARGETS_DN, SAGIV_CD24_TARGETS_DN
                                                                                              AMIT_EGF_RESPONSE_40_HELA, AMIT_EGF_RESPONSE_40_HELA
NX1_RUNX1T1_FUSION_HSC_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP
                                                                                              SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN, SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
                                                                                              LEI_HOXC8_TARGETS_DN, LEI_HOXC8_TARGETS_DN
                                                                                              CROONQUIST_STROMAL_STIMULATION_UP, CROONQUIST_STROMAL_STIMULATION_UP
                                                                                              NAKAJIMA_MAST_CELL, NAKAJIMA_MAST_CELL
                                                                                              PRAMOONJAGO_SOX4_TARGETS_UP, PRAMOONJAGO_SOX4_TARGETS_UP
                                                                                              AMIT_SERUM_RESPONSE_120_MCF10A, AMIT_SERUM_RESPONSE_120_MCF10A
                                                                                              BORLAK_LIVER_CANCER_EGF_UP, BORLAK_LIVER_CANCER_EGF_UP
                                                                                              GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP, GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP
                                                                                              LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN, LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN
                                                                                              LEE_LIVER_CANCER_E2F1_UP, LEE_LIVER_CANCER_E2F1_UP
                                                                                              WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN, WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN
                                                                                              VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGING_UP, VISALA_RESPONSE_TO_HEAT_SHOCK_AND_AGING_UP
                                                                                              YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0, YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0
                                                                                              HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP, HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP
                                                                                              BLANCO MELO COVID19 BRONCHIAL EPITHELIAL CELLS SARS COV 2 INFECTION UP, BLANCO MELO COVID19 BRONCHIAL EPITHELIAL CELLS SARS
                                                                                              RUIZ_TNC_TARGETS_UP, RUIZ_TNC_TARGETS_UP
                                                                                              PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2, PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2
                                                                                              LEIN_ASTROCYTE_MARKERS, LEIN_ASTROCYTE_MARKERS
                                                                                              MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP, MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP
                                                                                              MISSIAGLIA_REGULATED_BY_METHYLATION_UP, MISSIAGLIA_REGULATED_BY_METHYLATION_UP
                                                                                              AMIT_EGF_RESPONSE_60_MCF10A, AMIT_EGF_RESPONSE_60_MCF10A
                                                                                              LEE_NEURAL_CREST_STEM_CELL_DN, LEE_NEURAL_CREST_STEM_CELL_DN
                                                                                              DELLA_RESPONSE_TO_TSA_AND_BUTYRATE, DELLA_RESPONSE_TO_TSA_AND_BUTYRATE
                                                                                              LOPEZ_TRANSLATION_VIA_FN1_SIGNALING, LOPEZ_TRANSLATION_VIA_FN1_SIGNALING
                                                                                              VANHARANTA_UTERINE_FIBROID_UP, VANHARANTA_UTERINE_FIBROID_UP
                                                                                              CHEOK_RESPONSE_TO_HD_MTX_UP, CHEOK_RESPONSE_TO_HD_MTX_UP
                                                                                              LEE_INTRATHYMIC_T_PROGENITOR, LEE_INTRATHYMIC_T_PROGENITOR
                                                                                              PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3, PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3
                                                                                              KRIGE_AMINO_ACID_DEPRIVATION, KRIGE_AMINO_ACID_DEPRIVATION
                                                                                              KESHELAVA_MULTIPLE_DRUG_RESISTANCE, KESHELAVA_MULTIPLE_DRUG_RESISTANCE
                                                                                              BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN, BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN
                                                                                              CASTELLANO NRAS TARGETS UP, CASTELLANO NRAS TARGETS UP
                                                                                              AMIT_EGF_RESPONSE_60_HELA, AMIT_EGF_RESPONSE_60_HELA
                                                                                              DORN_ADENOVIRUS_INFECTION_24HR_DN, DORN_ADENOVIRUS_INFECTION_24HR_DN
                                                                                              WIERENGA_STAT5A_TARGETS_GROUP2, WIERENGA_STAT5A_TARGETS_GROUP2
                                                                                              MIKKELSEN_MCV6_LCP_WITH_H3K4ME3, MIKKELSEN_MCV6_LCP_WITH_H3K4ME3
                                                                                              PETRETTO CARDIAC HYPERTROPHY, PETRETTO CARDIAC HYPERTROPHY
                                                                                              VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP, VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
                                                                                              TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP, TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP
                                                                                              LINDSTEDT_DENDRITIC_CELL_MATURATION_B, LINDSTEDT_DENDRITIC_CELL_MATURATION_B
                                                                                              SCHRAETS_MLL_TARGETS_UP, SCHRAETS_MLL_TARGETS_UP
                                                                                              WEINMANN_ADAPTATION_TO_HYPOXIA_UP, WEINMANN_ADAPTATION_TO_HYPOXIA_UP
                                                                                              MAHADEVAN_IMATINIB_RESISTANCE_DN, MAHADEVAN_IMATINIB_RESISTANCE_DN
                                                                                              HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP, HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP
                                                                                              CUI_TCF21_TARGETS_UP, CUI_TCF21_TARGETS_UP
                                                                                              HAN_JNK_SINGALING_UP, HAN_JNK_SINGALING_UP
                                                                                              KERLEY_RESPONSE_TO_CISPLATIN_UP, KERLEY_RESPONSE_TO_CISPLATIN_UP
                                                                                              JINESH_BLEBBISHIELD_TRANSFORMED_STEM_CELL_SPHERES_UP, JINESH_BLEBBISHIELD_TRANSFORMED_STEM_CELL_SPHERES_UP
                                                                                              HUANG_FOXA2_TARGETS_DN, HUANG_FOXA2_TARGETS_DN
                                                                                              KAN_RESPONSE_TO_ARSENIC_TRIOXIDE, KAN_RESPONSE_TO_ARSENIC_TRIOXIDE
                                                                                              SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION, SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION
                                                                                              TAVOR_CEBPA_TARGETS_UP, TAVOR_CEBPA_TARGETS_UP
                                                                                              DAUER_STAT3_TARGETS_DN, DAUER_STAT3_TARGETS_DN
                                                                                              AMIT_SERUM_RESPONSE_60_MCF10A, AMIT_SERUM_RESPONSE_60_MCF10A
                                                                                              VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN, VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN
                                                                                              HOOI_ST7_TARGETS_DN, HOOI_ST7_TARGETS_DN
                                                                                              AMIT_SERUM_RESPONSE_20_MCF10A, AMIT_SERUM_RESPONSE_20_MCF10A
                                                                                             TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_DN, TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_DN
                                                                                             HINATA_NFKB_TARGETS_KERATINOCYTE_UP, HINATA_NFKB_TARGETS_KERATINOCYTE_UP
                                                                                              TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_UP
                                                                                              KATSANOU_ELAVL1_TARGETS_UP, KATSANOU_ELAVL1_TARGETS_UP
                                                                                             GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP, GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP
                                                                                             BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP, BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP
                                                                                             FIGUEROA_AML_METHYLATION_CLUSTER_7_UP, FIGUEROA_AML_METHYLATION_CLUSTER_7_UP
                                                                                             LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT, LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
                                                                                             KRIEG_HYPOXIA_VIA_KDM3A, KRIEG_HYPOXIA_VIA_KDM3A
                                                                                              ALONSO_METASTASIS_NEURAL_UP, ALONSO_METASTASIS_NEURAL_UP
                                                                                              PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4, PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4
                                                                                              ZHU_CMV_ALL_DN, ZHU_CMV_ALL_DN
                                                                                              DER_IFN_GAMMA_RESPONSE_UP, DER_IFN_GAMMA_RESPONSE_UP
                                                                                              TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP, TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCY
                                                                                              RHEIN_ALL_GLUCOCORTICOID_THERAPY_UP, RHEIN_ALL_GLUCOCORTICOID_THERAPY_UP
                                                                                              JI_METASTASIS_REPRESSED_BY_STK11, JI_METASTASIS_REPRESSED_BY_STK11
                                                                                              RADMACHER_AML_PROGNOSIS, RADMACHER_AML_PROGNOSIS
                                                                                              HELLER_SILENCED_BY_METHYLATION_DN, HELLER_SILENCED_BY_METHYLATION_DN
                                                                                             COULOUARN_TEMPORAL_TGFB1_SIGNATURE_UP, COULOUARN_TEMPORAL_TGFB1_SIGNATURE_UP
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RORIE\_TARGETS\_OF\_EWSR1\_FLI1\_FUSION\_UP, RORIE\_TARGETS\_OF\_EWSR1\_FLI1\_FUSION\_UP

ROSS\_AML\_WITH\_CBFB\_MYH11\_FUSION, ROSS\_AML\_WITH\_CBFB\_MYH11\_FUSION