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BIOCARTA_CHEMICAL_PATHWAY	BIOCARTA_CHEMICAL_	21
KOBAYASHI_EGFR_SIGNALING_6HR_DN	KOBAYASHI_EGFR_SIG	18
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REACTOME_TRNA_AMINOACYLATION	REACTOME_TRNA_AM	42
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REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REPLICATIOI	REACTOME_E2F_MEDI	32
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AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_DN	AGUIRRE_PANCREATIC	220
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VIETOR_IFRD1_TARGETS	VIETOR_IFRD1_TARGE	23
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DORN_ADENOVIRUS_INFECTION_48HR_DN	DORN_ADENOVIRUS_I	39
BURTON_ADIPOGENESIS_PEAK_AT_16HR	BURTON_ADIPOGENES	38
STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_UP	STEIN_ESRRA_TARGET	24
BOQUEST_STEM_CELL_DN	BOQUEST_STEM_CELL	195
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WILLIAMS_ESR1_TARGETS_UP	WILLIAMS_ESR1_TARC	25
MUELLER_METHYLATED_IN_GLIOMASTOMA	MUELLER_METHYLATE	35
AMIT_EGF_RESPONSE_120_HELA	AMIT_EGF_RESPONSE	65
REACTOME_METABOLISM_OF_NUCLEOTIDES	REACTOME_METABOL	69
PYEON_HPV_POSITIVE_TUMORS_UP	PYEON_HPV_POSITIVE	75
BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_UP	BOYLAN_MULTIPLE_M	37
BROCKE_APOPTOSIS_REVERSED_BY_IL6	BROCKE_APOPTOSIS_F	135
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BROWNE_HCMV_INFECTION_48HR_UP	BROWNE_HCMV_INFE	160
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	NEMETH_INFLAMMAT	81
BARIS_THYROID_CANCER_UP	BARIS_THYROID_CANC	23
MOOTHA_PGC	MOOTHA_PGC	390
ZHANG_GATA6_TARGETS_DN	ZHANG_GATA6_TARGI	62
GENTILE_UV_HIGH_DOSE_UP	GENTILE_UV_HIGH_DC	23
BIOCARTA_DC_PATHWAY	BIOCARTA_DC_PATHW	22
REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM_NUCLEI	REACTOME_TRANSPOR	32
SMIRNOV_RESPONSE_TO_IR_2HR_UP	SMIRNOV_RESPONSE	47
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	KEGG_GLYCEROPHOSF	75
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN	BONOME_OVARIAN_C	20
MAHADEVAN_RESPONSE_TO_MP470_UP	MAHADEVAN_RESPON	17
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GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_UP	GAVIN_IL2_RESPONSI	17
WALLACE_PROSTATE_CANCER_RACE_DN	WALLACE_PROSTATE	65
CHANG_CYCLING_GENES	CHANG_CYCLING_GEN	135
TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA	TAYLOR_METHYLATED	71
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CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2	CREIGHTON_ENDOCRI	337
BILBAN_B_CLL_LPL_DN	BILBAN_B_CLL_LPL_DN	38
YEGNASUBRAMANIAN_PROSTATE_CANCER	YEGNASUBRAMANIAN	107
SWEET_KRAS_ONCOGENIC_SIGNATURE	SWEET_KRAS_ONCOGI	85
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	BERENJENO_ROCK_SIC	27
VALK_AML_CLUSTER_7	VALK_AML_CLUSTER_7	23
REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	REACTOME_LATE_PHA	92
ABRAMSON_INTERACT_WITH_AIRE	ABRAMSON_INTERACT	42
REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTORS	REACTOME_NUCLEAR_	24
ISHIDA_E2F_TARGETS	ISHIDA_E2F_TARGETS	51
BIOCARTA_ATRBRCA_PATHWAY	BIOCARTA_ATRBRCA_I	20
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP	SARRIO_EPITHELIAL_M	164
MARKS_HDAC_TARGETS_DN	MARKS_HDAC_TARGETS	15
MATTHEWS_SKIN_CARCINOGENESIS_VIA_JUN	MATTHEWS_SKIN_CAF	15
REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX	REACTOME_SIGNALING	60
KEGG_APOPTOSIS	KEGG_APOPTOSIS	79
BOYALT_LIVER_CANCER_SUBCLASS_G23_UP	BOYALT_LIVER_CANC	48
CHICAS_RB1_TARGETS_SENESCENT	CHICAS_RB1_TARGETS	500
REACTOME_RNA_POL_I_PROMOTER_OPENING	REACTOME_RNA_POL_	44
BROWN_MYELOID_CELL_DEVELOPMENT_DN	BROWN_MYELOID_CE	117
DORMOY_ELAVL1_TARGETS	DORMOY_ELAVL1_TAF	16
PUJANA_BRCA2_PCC_NETWORK	PUJANA_BRCA2_PCC_	389
PENG_GLUCOSE_DEPRIVATION_DN	PENG_GLUCOSE_DEPR	157
RODRIGUES_NTN1_AND_DCC_TARGETS	RODRIGUES_NTN1_AN	31
WU_HBX_TARGETS_2_UP	WU_HBX_TARGETS_2_	22
MURAKAMI_UV_RESPONSE_24HR	MURAKAMI_UV_RESP	18
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP	PYEON_CANCER_HEAD	166
INGA_TP53_TARGETS	INGA_TP53_TARGETS	15
FARMER_BREAST_CANCER_CLUSTER_2	FARMER_BREAST_CAN	32
REACTOME_ACTIVATION_OF_GENES_BY_ATF4	REACTOME_ACTIVATIC	24
KIM_WT1_TARGETS_UP	KIM_WT1_TARGETS_U	204
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_UP	ACOSTA_PROLIFERATI	75
ST_ERK1_ERK2_MAPK_PATHWAY	ST_ERK1_ERK2_MAPK	32
REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEATS	REACTOME_NUCLEOTI	42
PID_HDAC_CLASSI_PATHWAY	PID_HDAC_CLASSI_PA	66
LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	LIN_TUMOR_ESCAPE_	15
PID_ATF2_PATHWAY	PID_ATF2_PATHWAY	57
KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	KEGG_AMINOACYL_TR	41
REACTOME_BASE_EXCISION_REPAIR	REACTOME_BASE_EXC	19
PID_AURORA_A_PATHWAY	PID_AURORA_A_PATH	29
VERNELL_RETINOBLASTOMA_PATHWAY_UP	VERNELL_RETINOBLAS	69
PID_NFKAPPAB_CANONICAL_PATHWAY	PID_NFKAPPAB_CANO	23
EGUCHI_CELL_CYCLE_RB1_TARGETS	EGUCHI_CELL_CYCLE_I	23
REACTOME_TRANSCRIPTION_COUPLED_NER_TC_NER	REACTOME_TRANSCRI	43
BIOCARTA_MCM_PATHWAY	BIOCARTA_MCM_PATI	17
HUANG_GATA2_TARGETS_DN	HUANG_GATA2_TARG	71
PLASARI_TGFB1_TARGETS_10HR_UP	PLASARI_TGFB1_TARG	191
KEGG_BASE_EXCISION_REPAIR	KEGG_BASE_EXCISION	33
MARCHINI TRABECTEDIN_RESISTANCE_UP	MARCHINI TRABECTEI	17

REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_SHIPP_DLBCL_CURED_VS_FATAL_DN	REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_SHIPP_DLBCL_CURED_VS_FATAL_DN	30
PID_TNF_PATHWAY	PID_TNF_PATHWAY	45
SMID_BREAST_CANCER_LUMINAL_A_DN	SMID_BREAST_CANCER_LUMINAL_A_DN	18
KAUFFMANN_DNA_REPLICATION_GENES	KAUFFMANN_DNA_REPLICATION_GENES	137
NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICON	NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICON	20
WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP	WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP	236
OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	66
OISHI_CHOLANGIOMA_STEM_CELL_LIKE_UP	OISHI_CHOLANGIOMA_STEM_CELL_LIKE_UP	289
BENPORATH_ES_1	BENPORATH_ES_1	353
OXFORD_RALA_OR_RALB_TARGETS_UP	OXFORD_RALA_OR_RALB_TARGETS_UP	48
YAMAZAKI_TCEB3_TARGETS_DN	YAMAZAKI_TCEB3_TARGETS_DN	199
DELACROIX_RARG_BOUND_MEF	DELACROIX_RARG_BOUND_MEF	345
DELLA_RESPONSE_TO_TSA_AND_BUTYRATE	DELLA_RESPONSE_TO_TSA_AND_BUTYRATE	21
COLLER_MYC_TARGETS_UP	COLLER_MYC_TARGETS_UP	24
PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP	PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP	54
REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOSITOL_C	REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINOSITOL_C	17
ZHANG_TLX_TARGETS_DN	ZHANG_TLX_TARGETS_DN	86
KEGG_PYRIMIDINE_METABOLISM	KEGG_PYRIMIDINE_METABOLISM	95
NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	116
REACTOME_RNA_POL_I_TRANSCRIPTION	REACTOME_RNA_POL_I_TRANSCRIPTION	68
PID_BARD1_PATHWAY	PID_BARD1_PATHWAY	28
DORSAM_HOXA9_TARGETS_UP	DORSAM_HOXA9_TARGETS_UP	35
ZHANG_TLX_TARGETS_60HR_DN	ZHANG_TLX_TARGETS_60HR_DN	264
PID_TELOMERASE_PATHWAY	PID_TELOMERASE_PATHWAY	67
REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	49
REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING	23
REACTOME_CHROMOSOME_MAINTENANCE	REACTOME_CHROMOSOME_MAINTENANCE	105
REACTOME_GO_AND_EARLY_G1	REACTOME_GO_AND_EARLY_G1	23
MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP	MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP	367
FOURNIER_ACINAR_DEVELOPMENT_LATE_DN	FOURNIER_ACINAR_DEVELOPMENT_LATE_DN	21
BIDUS_METASTASIS_UP	BIDUS_METASTASIS_UP	202
PID_TCR_CALCIIUM_PATHWAY	PID_TCR_CALCIIUM_PATHWAY	27
FURUKAWA_DUSP6_TARGETS_PCI35_DN	FURUKAWA_DUSP6_TARGETS_PCI35_DN	66
GAVIN_FOXP3_TARGETS_CLUSTER_T4	GAVIN_FOXP3_TARGETS_CLUSTER_T4	89
PID_HDAC_CLASSIII_PATHWAY	PID_HDAC_CLASSIII_PATHWAY	24
KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_I	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_I	67
EPPERT_PROGENITOR	EPPERT_PROGENITOR	127
NOJIMA_SFRP2_TARGETS_DN	NOJIMA_SFRP2_TARGETS_DN	24
LUCAS_HNF4A_TARGETS_UP	LUCAS_HNF4A_TARGETS_UP	53
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS_AND_CYCLIC_RGI	KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS_AND_CYCLIC_RGI	20
PID_ATR_PATHWAY	PID_ATR_PATHWAY	39
PID_EPHA_FWDPATHWAY	PID_EPHA_FWDPATHWAY	34
BHATTACHARYA_EMBRYONIC_STEM_CELL	BHATTACHARYA_EMBRYONIC_STEM_CELL	83
REACTOME_REGULATION_OF_GLUKOKINASE_BY_GLUKOKINASE	REACTOME_REGULATION_OF_GLUKOKINASE_BY_GLUKOKINASE	27
KRIEG_HYPOXIA_VIA_KDM3A	KRIEG_HYPOXIA_VIA_KDM3A	48
ZHAN_MULTIPLE_MYELOMA_MF_DN	ZHAN_MULTIPLE_MYELOMA_MF_DN	36
CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN	CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN	25
WANG_METHYLATED_IN_BREAST_CANCER	WANG_METHYLATED_IN_BREAST_CANCER	32
REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTO_THE	REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTO_THE	27

KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_DN	KOKKINAKIS_METHION	64
REACTOME_ERK_MAPK_TARGETS	REACTOME_ERK_MAP	21
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B	SUZUKI_RESPONSE_TC	18
VANOEVELEN_MYOGENESIS_SIN3A_TARGETS	VANOEVELEN_MYOGE	202
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_UP	THEILGAARD_NEUTRO	71
SUNG_METASTASIS_STROMA_DN	SUNG_METASTASIS_ST	46
FINETTI_BREAST_CANCER_KINOME_RED	FINETTI_BREAST_CANC	16
DAIRKEE_CANCER_PRONE_RESPONSE_BPA_E2	DAIRKEE_CANCER_PRC	111
REACTOME_TRAF6_MEDIATED_INDUCION_OF_NFKB_AND_MAF	REACTOME_TRAF6_M	73
WANG_CLIM2_TARGETS_UP	WANG_CLIM2_TARGET	206
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP	CHIANG_LIVER_CANCE	164
SANSOM_APC_MYC_TARGETS	SANSOM_APC_MYC_T	196
JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_UP	JOSEPH_RESPONSE_TC	29
KEGG_NUCLEOTIDE_EXCISION_REPAIR	KEGG_NUCLEOTIDE_E	43
REACTOME_INSULIN_RECEPTOR_RECYCLING	REACTOME_INSULIN_I	21
ONDER_CDH1_TARGETS_3_DN	ONDER_CDH1_TARGET	49
KEGG_BASAL_TRANSCRIPTION_FACTORS	KEGG_BASAL_TRANSC	33
REACTOME_G1_S_TRANSITION	REACTOME_G1_S_TRA	103
DELPUECH_FOXO3_TARGETS_DN	DELPUECH_FOXO3_TA	39
REACTOME_TIGHT_JUNCTION_INTERACTIONS	REACTOME_TIGHT_JU	29
KONG_E2F3_TARGETS	KONG_E2F3_TARGETS	94
CROMER_METASTASIS_DN	CROMER_METASTASIS	78
GALLUZZI_PREVENT_MITOCHONDIAL_PERMEABILIZATION	GALLUZZI_PREVENT_M	21
GRAHAM_NORMAL QUIESCENT VS NORMAL DIVIDING_DN	GRAHAM_NORMAL_Q	83
MARKEY_RB1_CHRONIC_LOF_UP	MARKEY_RB1_CHRON	111
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR	ZHOU_CELL_CYCLE_GE	81
REACTOME_RNA_POL_II_TRANSCRIPTION_PRE_INITIATION_AND	REACTOME_RNA_POL	38
PID_P38_ALPHA_BETA_DOWNSTREAM_PATHWAY	PID_P38_ALPHA_BETA	37
LI_CYTIDINE_ANALOG_PATHWAY	LI_CYTIDINE_ANALOG	17
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	KEGG_PROXIMAL_TUB	20
SHAFFER_IRF4_MULTIPLE_MYELOMA_PROGRAM	SHAFFER_IRF4_MULTII	34
VANTVEER_BREAST_CANCER_METASTASIS_DN	VANTVEER_BREAST_C	107
SUH_COEXPRESSED_WITH_ID1_AND_ID2_UP	SUH_COEXPRESSED_V	18
FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN	FRASOR_RESPONSE_T	50
REACTOME_MITOTIC_G1_G1_S_PHASES	REACTOME_MITOTIC	127
JACKSON_DNMT1_TARGETS_UP	JACKSON_DNMT1_TAF	76
REACTOME_PURINE_METABOLISM	REACTOME_PURINE_M	32
NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP	NUNODA_RESPONSE	29
REACTOME_NUCLEOTIDE_EXCISION_REPAIR	REACTOME_NUCLEOTI	48
REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERIVATIVES	REACTOME_METABOL	191
MANTOVANI_VIRAL_GPCR_SIGNALING_DN	MANTOVANI_VIRAL_G	42
ZHAN_MULTIPLE_MYELOMA_HP_DN	ZHAN_MULTIPLE_MYE	42
BOYALT_LIVER_CANCER_SUBCLASS_G3_UP	BOYALT_LIVER_CANC	181
MOOTHA_HUMAN_MITODB_6_2002	MOOTHA_HUMAN_MI	410
REACTOME_SIGNALING_BY_HIPPO	REACTOME_SIGNALIN	20
MANN_RESPONSE_TO_AMIFOSTINE_UP	MANN_RESPONSE_TO	20
HE_PTEN_TARGETS_UP	HE_PTEN_TARGETS_U	15
NAGASHIMA_NRG1_SIGNALING_UP	NAGASHIMA_NRG1_SI	168
REACTOME_KINESINS	REACTOME_KINESINS	22
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	IWANAGA_CARCINOGI	114



EHLERS_ANEUPLOIDY_UP	EHLERS_ANEUPLOIDY_	41
LEE_DOUBLE_POLAR_THYMOCYTE	LEE_DOUBLE_POLAR_	21
CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_DN	CHIANG_LIVER_CANCE	177
REACTOME_DNA_REPAIR	REACTOME_DNA_REP,	101
DUTERTRE ESTRADIOL_RESPONSE_24HR_UP	DUTERTRE ESTRADIOL	306
MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN	MCBRYAN_PUBERTAL_	60
ZHANG_BREAST_CANCER_PROGENITORS_UP	ZHANG_BREAST_CANC	381
REACTOME_RNA_POL_I_TRANSCRIPTION_INITIATION	REACTOME_RNA_POL_	23
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGEN	GARGALOVIC_RESPON	22
MORI_PRE_BI_LYMPHOCYTE_DN	MORI_PRE_BI_LYMPH	72
REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	REACTOME_GLYCEROF	82
SA_TRKA_RECEPTOR	SA_TRKA_RECEPTOR	16
ZEMBUTSU_SENSITIVITY_TO_CISPLATIN	ZEMBUTSU_SENSITIVI	19
PID_P38_MK2_PATHWAY	PID_P38_MK2_PATHW	21
ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN	ODONNELL_TARGETS_	42
AMUNDSON_GENOTOXIC_SIGNATURE	AMUNDSON_GENOTO	98
REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS	REACTOME_FATTY_AC	18
FOURNIER_ACINAR_DEVELOPMENT_LATE_2	FOURNIER_ACINAR_DI	259
ABE_VEGFA_TARGETS_30MIN	ABE_VEGFA_TARGETS_	28
ST_FAS_SIGNALING_PATHWAY	ST_FAS_SIGNALING_P/	62
REACTOME_RNA_POL_I_RNA_POL_III_AND_MITOCHONDRIAL_TR	REACTOME_RNA_POL_	100
WHITEFORD_PEDIATRIC_CANCER_MARKERS	WHITEFORD_PEDIATRI	114
SCHLOSSER_MYC_TARGETS_REPRESSED_BY_SERUM	SCHLOSSER_MYC_TAR	148
DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOID	DEBOSSCHER_NFKB_T.	22
IVANOVSKA_MIR106B_TARGETS	IVANOVSKA_MIR106B_	82
REACTOME_IRON_UPTAKE_AND_TRANSPORT	REACTOME_IRON_UP1	32
SCHUHMACHER_MYC_TARGETS_UP	SCHUHMACHER_MYC_	75
REACTOME_ACTIVATED_TAK1_MEDIATES_P38_MAPK_ACTIVATIC	REACTOME_ACTIVATE	17
KANG_DOXORUBICIN_RESISTANCE_UP	KANG_DOXORUBICIN_	50
ZHAN_LATE_DIFFERENTIATION_GENES_DN	ZHAN_LATE_DIFFEREN	15
MITSIADES_RESPONSE_TO_APLIDIN_DN	MITSIADES_RESPONSE	233
ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER	ROSTY_CERVICAL_CAN	134
CAMPS_COLON_CANCER_COPY_NUMBER_DN	CAMPS_COLON_CANC	33
KEGG_ARACHIDONIC_ACID_METABOLISM	KEGG_ARACHIDONIC_	45
PHONG_TNF_TARGETS_UP	PHONG_TNF_TARGETS	63
PID_CASPASE_PATHWAY	PID_CASPASE_PATHW.	50
WHITFIELD_CELL_CYCLE_LITERATURE	WHITFIELD_CELL_CYCL	44
SESTO_RESPONSE_TO_UV_C3	SESTO_RESPONSE_TO_	20
CAMPS_COLON_CANCER_COPY_NUMBER_UP	CAMPS_COLON_CANC	78
KANG_CISPLATIN_RESISTANCE_UP	KANG_CISPLATIN_RESI	16
REACTOME_POST_TRANSLATIONAL_MODIFICATION_SYNTHESIS_	REACTOME_POST_TRA	26
GHANDHI_DIRECT_IRRADIATION_UP	GHANDHI_DIRECT_IRR	87
MARSON_FOXP3_TARGETS_STIMULATED_UP	MARSON_FOXP3_TARI	29
RAMALHO_STEMNESS_UP	RAMALHO_STEMNESS	193
LOPEZ_MBD_TARGETS_IMPRINTED_AND_X_LINKED	LOPEZ_MBD_TARGETS	17
ZHANG_RESPONSE_TO_CANTHARIDIN_UP	ZHANG_RESPONSE_TC	19
REACTOME_NOD1_2_SIGNALING_PATHWAY	REACTOME_NOD1_2_	29
MISSIAGLIA_REGULATED_BY_METHYLATION_DN	MISSIAGLIA_REGULATI	112
REACTOME_S_PHASE	REACTOME_S_PHASE	105
GOLDRATH_ANTIGEN_RESPONSE	GOLDRATH_ANTIGEN_	318

VANTVEER_BREAST_CANCER_BRCA1_UP	VANTVEER_BREAST_C/	31
KORKOLA_TERATOMA	KORKOLA_TERATOMA	39
RAGHAVACHARI_PLATELET_SPECIFIC_GENES	RAGHAVACHARI_PLAT	66
REACTOME_SULFUR_AMINO_ACID_METABOLISM	REACTOME_SULFUR_A	24
SIG_CHEMOTAXIS	SIG_CHEMOTAXIS	45
GRANDVAUX_IRF3_TARGETS_DN	GRANDVAUX_IRF3_TA	17
HOLLERN_EMT_BREAST_TUMOR_DN	HOLLERN_EMT_BREAS	87
REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA_CELL	REACTOME_REGULATI	19
ZHOU_TNF_SIGNALING_30MIN	ZHOU_TNF_SIGNALINC	52
KANNAN_TP53_TARGETS_DN	KANNAN_TP53_TARGE	21
WONG_MITOCHONDRIA_GENE_MODULE	WONG_MITOCHONDR	212
REACTOME_DEADENYLATION_DEPENDENT_MRNA_DECAY	REACTOME_DEADENYI	43
PID_IL3_PATHWAY	PID_IL3_PATHWAY	26
BENPORATH_ES_2	BENPORATH_ES_2	40
PID_P53_DOWNSTREAM_PATHWAY	PID_P53_DOWNSTREA	122
FUJII_YBX1_TARGETS_DN	FUJII_YBX1_TARGETS_	190
BIOCARTA_HIVNEF_PATHWAY	BIOCARTA_HIVNEF_PA	56
LE_EGR2_TARGETS_UP	LE_EGR2_TARGETS_UF	104
REACTOME_MEIOSIS	REACTOME_MEIOSIS	93
HU_ANGIOGENESIS_DN	HU_ANGIOGENESIS_DI	34
KAMMINGA_EZH2_TARGETS	KAMMINGA_EZH2_TA	41
FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_DN	FERRANDO_T_ALL_WI'	81
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_DN	HAHTOLA_MYCOSIS_F	107
HOEGERKORP_CD44_TARGETS_DIRECT_UP	HOEGERKORP_CD44_T	26
SCIBETTA_KDM5B_TARGETS_UP	SCIBETTA_KDM5B_TAF	15
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_DN	TAKEDA_TARGETS_OF.	38
REACTOME_SYNTHESIS_OF_DNA	REACTOME_SYNTHESI!	90
KEGG_RNA_DEGRADATION	KEGG_RNA_DEGRADA'	57
KASLER_HDAC7_TARGETS_1_DN	KASLER_HDAC7_TARG	17
BIOCARTA_CD40_PATHWAY	BIOCARTA_CD40_PATF	15
KIM_PTEN_TARGETS_UP	KIM_PTEN_TARGETS_I	17
WANG_TNF_TARGETS	WANG_TNF_TARGETS	24
REACTOME_NEP_NS2_INTERACTS_WITH_THE_CELLULAR_EXPORT	REACTOME_NEP_NS2_	27
GENTILE_RESPONSE_CLUSTER_D3	GENTILE_RESPONSE_C	59
REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION	REACTOME_MITOCHO	21
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR	ZHOU_CELL_CYCLE_GE	119
MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN	MOLENAAR_TARGETS_	48
RASHI_NFKB1_TARGETS	RASHI_NFKB1_TARGET	18
MARIADASON_RESPONSE_TO_CURCUMIN_SULINDAC_5	MARIADASON_RESPOI	23
REACTOME_RNA_POL_II_PRE_TRANSCRIPTION_EVENTS	REACTOME_RNA_POL_	50
REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AN	REACTOME_TAK1_ACT	22
AMIT_EGF_RESPONSE_480_HELA	AMIT_EGF_RESPONSE_	151
SESTO_RESPONSE_TO_UV_C5	SESTO_RESPONSE_TO_	45
PID_AR_TF_PATHWAY	PID_AR_TF_PATHWAY	51
HOLLMANN_APOPTOSIS_VIA_CD40_UP	HOLLMANN_APOPTOS	184
MATZUK_IMPLANTATION_AND_UTERINE	MATZUK_IMPLANTATI	21
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP	SOTIRIOU_BREAST_CA	140
HEDENFALK_BREAST_CANCER_HEREDITARY_VS_SPORADIC	HEDENFALK_BREAST_C	47
BILANGES_RAPAMYCIN_SENSITIVE_VIA_TSC1_AND_TSC2	BILANGES_RAPAMYCIN	67
REACTOME_ASSOCIATION_OF_TRIC_CCT_WITH_TARGET_PROTEIN	REACTOME_ASSOCIAT	26

LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE	LIANG_HEMATOPOIES	31
BROWNE_HCMV_INFECTION_2HR_DN	BROWNE_HCMV_INFE	48
SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73_DN	SCIAN_INVERSED_TAR	28
LINDSTEDT_DENDRITIC_CELL_MATURATION_B	LINDSTEDT_DENDRITIC	51
NIELSEN_LIPOSARCOMA_DN	NIELSEN_LIPOSARCOM	19
PID_INTEGRIN_A4B1_PATHWAY	PID_INTEGRIN_A4B1_I	33
RIZ_ERYTHROID_DIFFERENTIATION	RIZ_ERYTHROID_DIFFE	74
PID_E2F_PATHWAY	PID_E2F_PATHWAY	69
TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN	TARTE_PLASMA_CELL_	32
VILIMAS_NOTCH1_TARGETS_UP	VILIMAS_NOTCH1_TAF	50
SANSOM_APC_TARGETS_REQUIRE_MYC	SANSOM_APC_TARGET	191
KIM_WT1_TARGETS_8HR_UP	KIM_WT1_TARGETS_8	154
IWANAGA_E2F1_TARGETS_INDUCED_BY_SERUM	IWANAGA_E2F1_TARG	29
SMITH_TERT_TARGETS_UP	SMITH_TERT_TARGETS	137
REACTOME_GLOBAL_GENOMIC_NER_GG_NER	REACTOME_GLOBAL_C	32
REACTOME_TRANSCRIPTION	REACTOME_TRANSCRI	176
MANALO_HYPOXIA_DN	MANALO_HYPOXIA_DI	274
MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_UP	MOLENAAR_TARGETS_	52
MORI_LARGE_PRE_BII_LYMPHOCYTE_DN	MORI_LARGE_PRE_BII	52
REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	REACTOME_TRIGLYCEI	37
DAZARD_UV_RESPONSE_CLUSTER_G2	DAZARD_UV_RESPONS	29
LINDSTEDT_DENDRITIC_CELL_MATURATION_C	LINDSTEDT_DENDRITIC	62
REACTOME_AMYLOIDS	REACTOME_AMYLOID!	61
REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO_CYTOPL	REACTOME_TRANSPOI	52
LUND_SILENCED_BY_METHYLATION	LUND_SILENCED_BY_M	16
LEE_METASTASIS_AND_RNA_PROCESSING_UP	LEE_METASTASIS_AND	17
HEDENFALK_BREAST_CANCER_BRCA1_VS_BRCA2	HEDENFALK_BREAST_C	153
BHAT_ESR1_TARGETS_VIA_AKT1_UP	BHAT_ESR1_TARGETS_	260
EPPERT_LSC_R	EPPERT_LSC_R	34
STEIN_ESR1_TARGETS	STEIN_ESR1_TARGETS	81
KEGG_SMALL_CELL_LUNG_CANCER	KEGG_SMALL_CELL_LL	82
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_	REACTOME_NFKB_ANI	69
WANG_TARGETS_OF_MLL_CBP_FUSION_UP	WANG_TARGETS_OF_I	40
VANHARANTA_UTERINE_FIBROID_DN	VANHARANTA_UTERIN	59
CEBALLOS_TARGETS_OF_TP53_AND_MYC_DN	CEBALLOS_TARGETS_C	35
KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG	KEGG_MATURITY_ONS	24
PUJANA_BREAST_CANCER_LIT_INT_NETWORK	PUJANA_BREAST_CAN	96
CHOW_RASSF1_TARGETS_DN	CHOW_RASSF1_TARGE	29
JUBAN_TARGETS_OF_SPI1_AND_FLI1_DN	JUBAN_TARGETS_OF_!	85
REACTOME_CELL_CELL_JUNCTION_ORGANIZATION	REACTOME_CELL_CELL	56
SUMI_HNF4A_TARGETS	SUMI_HNF4A_TARGET	27
DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_UP	DEURIG_T_CELL_PROL	326
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_UP	MCMURRAY_TP53_HR	25
WU_APOPTOSIS_BY_CDKN1A_VIA_TP53	WU_APOPTOSIS_BY_C	53
REACTOME_M_G1_TRANSITION	REACTOME_M_G1_TR	77
LEE_RECENT_THYMIC_EMIGRANT	LEE_RECENT_THYMIC_	192
BROWNE_HCMV_INFECTION_12HR_UP	BROWNE_HCMV_INFE	92
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	YORDY_RECIPROCAL_F	67
ST_B_CELL_ANTIGEN_RECEPTOR	ST_B_CELL_ANTIGEN_!	38
GRADE_COLON_AND_RECTAL_CANCER_UP	GRADE_COLON_AND_	267

REACTOME_PERK_REGULATED_GENE_EXPRESSION	REACTOME_PERK_REG	27
SEKI_INFLAMMATORY_RESPONSE_LPS_UP	SEKI_INFLAMMATORY	74
SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL	SHAFFER_IRF4_TARGETS	60
HINATA_NFKB_TARGETS_FIBROBLAST_UP	HINATA_NFKB_TARGETS	81
XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR	XU_HGF_SIGNALING_N	26
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_DN	BERENJENO_TRANSFO	31
VARELA_ZMPSTE24_TARGETS_UP	VARELA_ZMPSTE24_T/	37
BOYLAN_MULTIPLE_MYELOMA_C_D_UP	BOYLAN_MULTIPLE_M	128
YAN_ESCAPE_FROM_ANOIKIS	YAN_ESCAPE_FROM_A	21
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_DN	LABBE_TARGETS_OF_T	98
KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	KOBAYASHI_RESPONSI	18
REACTOME_HIV_INFECTION	REACTOME_HIV_INFEC	179
REACTOME_CELL_CYCLE	REACTOME_CELL_CYCI	378
BIOCARTA_DEATH_PATHWAY	BIOCARTA_DEATH_PA	31
WESTON_VEGFA_TARGETS_3HR	WESTON_VEGFA_TARC	70
OUYANG_PROSTATE_CANCER_PROGRESSION_DN	OUYANG_PROSTATE_C	19
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_24HR	HU_GENOTOXIN_ACTI	49
LEIN_OLIGODENDROCYTE_MARKERS	LEIN_OLIGODENDROC	67
BASSO_B_LYMPHOCYTE_NETWORK	BASSO_B_LYMPHOCYT	138
BHAT_ESR1_TARGETS_VIA_AKT1_DN	BHAT_ESR1_TARGETS	77
GEORGES_CELL_CYCLE_MIR192_TARGETS	GEORGES_CELL_CYCLE	60
REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOMES	REACTOME_LOSS_OF	53
PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_FUSION	PARK_TRETINOIN_RES	21
SLEBOS_HEAD_AND_NECK_CANCER_WITH_HPV_UP	SLEBOS_HEAD_AND_N	74
REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_ME	REACTOME_MYD88_M	79
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_NOD_LIKE_REC	55
WORSCHER_TUMOR_REJECTION_UP	WORSCHER_TUMOR	52
MENSSEN_MYC_TARGETS	MENSSEN_MYC_TARG	50
LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER	LOCKWOOD_AMPLIFIE	200
ST_JNK_MAPK_PATHWAY	ST_JNK_MAPK_PATHM	38
BILD_HRAS_ONCOGENIC_SIGNATURE	BILD_HRAS_ONCOGEN	231
REACTOME_MICRORNA_MIRNA_BIOGENESIS	REACTOME_MICRORN	22
LENAOUR_DENDRITIC_CELL_MATURATION_DN	LENAOUR_DENDRITIC	117
SHEPARD_BMYB_MORPHOLINO_UP	SHEPARD_BMYB_MOR	192
PID_VEGFR1_PATHWAY	PID_VEGFR1_PATHWA	26
MOOTHA_MITOCHONDRIA	MOOTHA_MITOCHON	420
SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCYTES	SIG_PIP3_SIGNALING	66
TANG_SENESCENCE_TP53_TARGETS_DN	TANG_SENESCENCE_TI	51
CUI_TCF21_TARGETS_DN	CUI_TCF21_TARGETS	28
GALLUZZI_PERMEABILIZE_MITOCHONDRIA	GALLUZZI_PERMEABIL	41
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP	SCHLINGEMANN_SKIN	33
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN	RICKMAN_TUMOR_DII	339
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	REACTOME_SYNTHESI	18
LEE_CALORIE_RESTRICTION_NEOCORTEX_DN	LEE_CALORIE_RESTRIC	84
WATANABE_RECTAL_CANCER_RADIOOTHERAPY_RESPONSIVE_UP	WATANABE_RECTAL_C	95
KEGG_GNRH_SIGNALING_PATHWAY	KEGG_GNRH_SIGNALII	95
CROONQUIST_NRAS_SIGNALING_DN	CROONQUIST_NRAS_S	70
PROVENZANI_METASTASIS_UP	PROVENZANI_METAST	180
AMUNDSON_RESPONSE_TO_ARSENITE	AMUNDSON_RESPONS	197
SCHURINGA_STATS5A_TARGETS_UP	SCHURINGA_STATS5A	17

LINDGREN_BLADDER_CANCER_CLUSTER_3_UP	LINDGREN_BLADDER_C	295
ZHAN_MULTIPLE_MYELOMA_PR_UP	ZHAN_MULTIPLE_MYE	43
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_DN	ZHANG_ANTIVIRAL_RE	51
WANG_TARGETS_OF_MLL_CBP_FUSION_DN	WANG_TARGETS_OF_I	43
ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_DN	ZHONG_RESPONSE_TC	59
JISON_SICKLE_CELL_DISEASE_DN	JISON_SICKLE_CELL_DI	169
WANG_ESOPHAGUS_CANCER_VS_NORMAL_DN	WANG_ESOPHAGUS_C	95
SUBTIL_PROGESTIN_TARGETS	SUBTIL_PROGESTIN_T/	34
REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEIN	REACTOME_RECRUITM	60
HASLINGER_B_CLL_WITH_6Q21_DELETION	HASLINGER_B_CLL_WI	16
HOFMANN_MYELODYSPLASTIC_SYNDROME_LOW_RISK_DN	HOFMANN_MYELODY:	29
FRASOR_TAMOXIFEN_RESPONSE_UP	FRASOR_TAMOXIFEN_	47
ONO_AML1_TARGETS_UP	ONO_AML1_TARGETS_	23
RASHI_RESPONSE_TO_IONIZING_RADIATION_1	RASHI_RESPONSE_TO_	40
ST_P38_MAPK_PATHWAY	ST_P38_MAPK_PATHV	37
REACTOME_MRNA_CAPPING	REACTOME_MRNA_CA	27
CAIRO_HEPATOBLASTOMA_UP	CAIRO_HEPATOBLASTO	188
REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUCLEOTIDES	REACTOME_SYNTHESI	17
DAZARD_RESPONSE_TO_UV_SCC_UP	DAZARD_RESPONSE_T	110
TIEN_INTESTINE_PROBIOTICS_6HR_DN	TIEN_INTESTINE_PROE	156
CROONQUIST_IL6_DEPRIVATION_DN	CROONQUIST_IL6_DEF	95
SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN	SMID_BREAST_CANCEI	19
LEE_EARLY_T_LYMPHOCYTE_UP	LEE_EARLY_T_LYMPHC	94
YIH_RESPONSE_TO_ARSENITE_C3	YIH_RESPONSE_TO_AF	34
HAHTOLA_SEZARY_SYNDROME_UP	HAHTOLA_SEZARY_SYI	85
ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN	ADDYA_ERYTHROID_D	64
REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRED_FOR	REACTOME_ENDOSOM	25
MARSON_FOXP3_CORE_DIRECT_TARGETS	MARSON_FOXP3_COR	18
REACTOME_G1_PHASE	REACTOME_G1_PHASE	33
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN	VECCHI_GASTRIC_CAN	110
KANG_DOXORUBICIN_RESISTANCE_DN	KANG_DOXORUBICIN_	17
SENESE_HDAC1_TARGETS_UP	SENESE_HDAC1_TARG	406
BIOCARTA_NFKB_PATHWAY	BIOCARTA_NFKB_PATH	23
KIM_MYC_AMPLIFICATION_TARGETS_UP	KIM_MYC_AMPLIFICA	183
BOYALT_LIVER_CANCER_SUBCLASS_G12_UP	BOYALT_LIVER_CANC	36
BOYALT_LIVER_CANCER_SUBCLASS_G5_DN	BOYALT_LIVER_CANC	22
SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_UP	SCHLOSSER_MYC_TAR	45
FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_UP	FERREIRA_EWINGS_SA	152
NOUZOVA_METHYLATED_IN_APL	NOUZOVA_METHYLAT	55
ZEMBUTSU_SENSITIVITY_TO_VINCISTINE	ZEMBUTSU_SENSITIVI	18
YU_MYC_TARGETS_UP	YU_MYC_TARGETS_UP	40
LIU_COMMON_CANCER_GENES	LIU_COMMON_CANCE	63
BIOCARTA_MTA3_PATHWAY	BIOCARTA_MTA3_PAT	17
GENTILE_UV_LOW_DOSE_UP	GENTILE_UV_LOW_DC	25
HEIDENBLAD_AMPLICON_12P11_12_DN	HEIDENBLAD_AMPLIC	21
ONDER_CDH1_TARGETS_2_DN	ONDER_CDH1_TARGET	420
KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	KEGG_PORPHYRIN_AN	29
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	JAZAG_TGFB1_SIGNAL	58
KIM_ALL_DISORDERS_CALB1_CORR_DN	KIM_ALL_DISORDERS_	33
MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	MIDORIKAWA_AMPLIF	50

LOPES_METHYLATED_IN_COLON_CANCER_DN	LOPES_METHYLATED_	26
HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY	HASLINGER_B_CLL_WI	23
CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP	CHEMNITZ_RESPONSE	129
ZUCCHI_METASTASIS_DN	ZUCCHI_METASTASIS_	40
KEGG_MAPK_SIGNALING_PATHWAY	KEGG_MAPK_SIGNALII	257
REACTOME_MITOTIC_PROMETAPHASE	REACTOME_MITOTIC_	85
DOANE_RESPONSE_TO_ANDROGEN_UP	DOANE_RESPONSE_TC	152
YANG_BREAST_CANCER_ESR1_BULK_UP	YANG_BREAST_CANCE	24
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN	PICCALUGA_ANGIOIMI	126
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP	RICKMAN_TUMOR_DII	210
PID_RHODOPSIN_PATHWAY	PID_RHODOPSIN_PATF	23
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN	FLECHNER_BIOPSY_KIE	23
PID_LKB1_PATHWAY	PID_LKB1_PATHWAY	45
REACTOME_DNA_REPLICATION	REACTOME_DNA_REPI	186
REACTOME_MITOTIC_G2_G2_M_PHASES	REACTOME_MITOTIC_	75
HOFMANN_CELL_LYMPHOMA_UP	HOFMANN_CELL_LYM	46
KENNY_CTNNB1_TARGETS_UP	KENNY_CTNNB1_TARG	47
REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX	REACTOME_ASSEMBLY	63
BURTON_ADIPOGENESIS_2	BURTON_ADIPOGENES	72
SHIN_B_CELL_LYMPHOMA_CLUSTER_3	SHIN_B_CELL_LYMPHC	28
RICKMAN_HEAD_AND_NECK_CANCER_C	RICKMAN_HEAD_AND	89
ZHANG_TLX_TARGETS_36HR_DN	ZHANG_TLX_TARGETS	174
AUNG_GASTRIC_CANCER	AUNG_GASTRIC_CANC	50
PID_MYC_PATHWAY	PID_MYC_PATHWAY	24
FAELT_B_CLL_WITH_VH3_21_UP	FAELT_B_CLL_WITH_V	42
HOOI_ST7_TARGETS_UP	HOOI_ST7_TARGETS_U	75
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_UP	TONKS_TARGETS_OF_	190
FISCHER_G2_M_CELL_CYCLE	FISCHER_G2_M_CELL_	215
PID_MTOR_4PATHWAY	PID_MTOR_4PATHWA	68
XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_UP	XU_RESPONSE_TO_TR	16
REACTOME_METABOLISM_OF_NON_CODING_RNA	REACTOME_METABOL	47
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_UP	ROYLANCE_BREAST_C/	51
FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	FLECHNER_PBL_KIDNE	49
CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	CEBALLOS_TARGETS_C	20
RICKMAN_METASTASIS_UP	RICKMAN_METASTASI	289
KASLER_HDAC7_TARGETS_1_UP	KASLER_HDAC7_TARG	186
SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYM	SHAFFER_IRF4_TARGE	65
BENPORATH_ES_CORE_NINE_CORRELATED	BENPORATH_ES_CORE	98
FONTAINE_PAPILLARY_THYROID_CARCINOMA_UP	FONTAINE_PAPILLARY	58
BIOCARTA_CHREBP2_PATHWAY	BIOCARTA_CHREBP2_F	40
REACTOME_CELL_CYCLE_MITOTIC	REACTOME_CELL_CYCI	301
ZHAN_MULTIPLE_MYELOMA_CD1_DN	ZHAN_MULTIPLE_MYE	37
RUIZ_TNC_TARGETS_DN	RUIZ_TNC_TARGETS_D	137
DELPUECH_FOXO3_TARGETS_UP	DELPUECH_FOXO3_TA	63
BIOCARTA_FAS_PATHWAY	BIOCARTA_FAS_PATHV	28
TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C	TOYOTA_TARGETS_OF	395
CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP	CONCANNON_APOPTC	220
BIOCARTA_IL12_PATHWAY	BIOCARTA_IL12_PATH'	21
UROSEVIC_RESPONSE_TO_IMIQUIMOD	UROSEVIC_RESPONSE_	17
HEIDENBLAD_AMPLICON_8Q24_UP	HEIDENBLAD_AMPLIC	30

BURTON_ADIPOGENESIS_3	BURTON_ADIPOGENESIS	98
STEIN_ESRRA_TARGETS_UP	STEIN_ESRRA_TARGET	345
ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	ACEVEDO_LIVER_TUM	234
KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	KEGG_GLYOXYLATE_AI	16
AMIT_SERUM_RESPONSE_120_MCF10A	AMIT_SERUM_RESPON	61
IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR	IVANOVA_HEMATOPO	472
BILD_E2F3_ONCOGENIC_SIGNATURE	BILD_E2F3_ONCOGENI	211
KIM_WT1_TARGETS_DN	KIM_WT1_TARGETS_D	422
VILLANUEVA_LIVER_CANCER_KRT19_UP	VILLANUEVA_LIVER_C/	155
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP	CHARAFE_BREAST_CAI	103
REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDI	REACTOME_N_GLYCAN	18
ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	ZWANG_CLASS_3_TRA	209
ZHAN_MULTIPLE_MYELOMA_PR_DN	ZHAN_MULTIPLE_MYE	44
WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN	WEST_ADRENOCORTIC	17
SPIRA_SMOKERS_LUNG_CANCER_UP	SPIRA_SMOKERS_LUN	36
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_DN	SCHUETZ_BREAST_CAI	77
REACTOME_FORMATION_OF_THE_HIV1_EARLY_ELONGATION_CC	REACTOME_FORMATIK	26
CHANG_CORE_SERUM_RESPONSE_UP	CHANG_CORE_SERUM	201
PID_FANCONI_PATHWAY	PID_FANCONI_PATHW	45
GESERICK_TERT_TARGETS_DN	GESERICK_TERT_TARG	21
REACTOME_DEADENYLATION_OF_MRNA	REACTOME_DEADENYI	18
ZWANG_EGF_PERSISTENTLY_DN	ZWANG_EGF_PERSISTI	50
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_1	CREIGHTON_ENDOCRI	468
ZHAN_MULTIPLE_MYELOMA_SUBGROUPS	ZHAN_MULTIPLE_MYE	30
KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	KEGG_SYSTEMIC_LUPL	91
IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR	IVANOVA_HEMATOPO	493
WILLIAMS_ESR2_TARGETS_UP	WILLIAMS_ESR2_TARG	25
SASAKI_ADULT_T_CELL_LEUKEMIA	SASAKI_ADULT_T_CELI	163
KEGG_TYPE_I_DIABETES_MELLITUS	KEGG_TYPE_I_DIABETI	21
HUMMERICH_BENIGN_SKIN_TUMOR_DN	HUMMERICH_BENIGN	18
MARTENS_BOUND_BY_PML_RARA_FUSION	MARTENS_BOUND_BY	414
REACTOME_FORMATION_OF_TRANSCRIPTION_COUPLED_NER_T	REACTOME_FORMATIK	28
PIONTEK_PKD1_TARGETS_UP	PIONTEK_PKD1_TARGI	32
GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN	GARCIA_TARGETS_OF	150
STEIN_ESRRA_TARGETS	STEIN_ESRRA_TARGET	468
LANDIS_ERBB2_BREAST_TUMORS_65_UP	LANDIS_ERBB2_BREAS	21
GRABARCZYK_BCL11B_TARGETS_UP	GRABARCZYK_BCL11B	67
MORI_IMMATURE_B_LYMPHOCYTE_UP	MORI_IMMATURE_B_I	49
SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_DN	SETLUR_PROSTATE_CA	18
REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR_OF_REPLI	REACTOME_HOMOLOI	15
MARTINEZ_RESPONSE_TO TRABECTEDIN_DN	MARTINEZ_RESPONSE	250
LANDEMAINE_LUNG_METASTASIS	LANDEMAINE_LUNG_I	18
REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_FROM_TY	REACTOME_RNA_POL	25
WINNEPENINCKX_MELANOMA_METASTASIS_UP	WINNEPENINCKX_MI	149
GAVIN_FOXP3_TARGETS_CLUSTER_P6	GAVIN_FOXP3_TARGE	87
ST_GA12_PATHWAY	ST_GA12_PATHWAY	23
HUTTMANN_B_CLL_POOR_SURVIVAL_DN	HUTTMANN_B_CLL_PC	53
BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP	BHATI_G2M_ARREST_I	109
SA_CASPASE_CASCADE	SA_CASPASE_CASCADE	17
IKEDA_MIR30_TARGETS_DN	IKEDA_MIR30_TARGET	27

YANG_BREAST_CANCER_ESR1_LASER_UP	YANG_BREAST_CANCE	30
JEON_SMAD6_TARGETS_DN	JEON_SMAD6_TARGET	18
KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	KEGG_ALDOSTERONE_	41
RASHI_RESPONSE_TO_IONIZING_RADIATION_2	RASHI_RESPONSE_TO_	124
REACTOME_TRANS_GOLGI_NETWORK_VESICLE_BUDDING	REACTOME_TRANS_G(	54
SANA_RESPONSE_TO_IFNG_DN	SANA_RESPONSE_TO_	80
TAVOR_CEBPA_TARGETS_DN	TAVOR_CEBPA_TARGE	26
WALLACE_JAK2_TARGETS_UP	WALLACE_JAK2_TARG	24
LI_WILMS_TUMOR_ANAPLASTIC_UP	LI_WILMS_TUMOR_AN	19
SABATES_COLORECTAL_ADENOMA_UP	SABATES_COLORECTAI	117
RIZ_ERYTHROID_DIFFERENTIATION_CCNE1	RIZ_ERYTHROID_DIFFE	39
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_DN	BREDEMEYER_RAG_SI	53
YAGI_AML_RELAPSE_PROGNOSIS	YAGI_AML_RELAPSE_F	34
IRITANI_MAD1_TARGETS_DN	IRITANI_MAD1_TARGE	46
HUMMEL_BURKITT'S_LYMPHOMA_UP	HUMMEL_BURKITT'S_L	36
ZHOU_INFLAMMATORY_RESPONSE_FIMA_DN	ZHOU_INFLAMMATOR	228
SHEPARD_CRUSH_AND_BURN_MUTANT_UP	SHEPARD_CRUSH_AND	177
ABE_VEGFA_TARGETS	ABE_VEGFA_TARGETS	19
LAU_APOPTOSIS_CDKN2A_UP	LAU_APOPTOSIS_CDKI	51
ST_GAQ_PATHWAY	ST_GAQ_PATHWAY	27
RIZ_ERYTHROID_DIFFERENTIATION_HBZ	RIZ_ERYTHROID_DIFFE	40
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_UP	MAGRANGEAS_MULTI	19
REACTOME_RNA_POL_III_TRANSCRIPTION	REACTOME_RNA_POL_	32
MA_MYELOID_DIFFERENTIATION_DN	MA_MYELOID_DIFFERI	44
REACTOME_MEIOTIC_SYNAPSIS	REACTOME_MEIOTIC_	58
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_UP	RAY_TUMORIGENESIS_	98
KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	KEGG_UBIQUITIN_MEI	129
REACTOME_MITOTIC_M_M_G1_PHASES	REACTOME_MITOTIC_	166
PID_FOXM1_PATHWAY	PID_FOXM1_PATHWA	40
BRACHAT_RESPONSE_TO_CAMPTOTHECIN_UP	BRACHAT_RESPONSE_	23
JOHNSTONE_PARVB_TARGETS_2_DN	JOHNSTONE_PARVB_T	307
MIKKELSEN_MCV6_LCP_WITH_H3K27ME3	MIKKELSEN_MCV6_LC	21
PID_CONE_PATHWAY	PID_CONE_PATHWAY	21
BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_VIA_NFKB_DN	BREDEMEYER_RAG_SI	35
XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR	XU_HGF_TARGETS_INI	17
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_I	GRAESSMANN_RESPOI	75
LABBE_WNT3A_TARGETS_UP	LABBE_WNT3A_TARGE	107
GUO_TARGETS_OF_IRS1_AND_IRS2	GUO_TARGETS_OF_IR	89
REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALIN	REACTOME_GRB2_SO	15
NOUZOVA_TRETINOIN_AND_H4_ACETYLATION	NOUZOVA_TRETINOIN	122
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	STEARMAN_LUNG_CA	115
DANG_REGULATED_BY_MYC_UP	DANG_REGULATED_BY	64
KEGG_CELL_CYCLE	KEGG_CELL_CYCLE	121
SWEET_LUNG_CANCER_KRAS_UP	SWEET_LUNG_CANCEF	453
PEART_HDAC_PROLIFERATION_CLUSTER_DN	PEART_HDAC_PROLIFE	71
MARKS_HDAC_TARGETS_UP	MARKS_HDAC_TARGE	18
LANDIS_ERBB2_BREAST_TUMORS_324_UP	LANDIS_ERBB2_BREAS	138
GEORGANTAS_HSC_MARKERS	GEORGANTAS_HSC_M	60
GHANDHI_BYSTANDER_IRRADIATION_UP	GHANDHI_BYSTANDER	72
REACTOME_CELL_DEATH_SIGNALLING_VIA_NRAGE_NRIF_AND_N	REACTOME_CELL_DEA	58



STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_DN	STEIN_ESRRA_TARGET	39
MORI_IMMATURE_B_LYMPHOCYTE_DN	MORI_IMMATURE_B_L	88
REACTOME_SHC_MEDIATED_CASCADE	REACTOME_SHC_MED	26
GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN	GINESTIER_BREAST_CA	290
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_UP	SARTIPY_NORMAL_AT	33
REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	REACTOME_INTRINSIC	28
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_6	PEDERSEN_METASTAS	26
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_5	YAO_TEMPORAL_RESP	28
MCBRYAN_PUBERTAL_BREAST_5_6WK_UP	MCBRYAN_PUBERTAL_	110
PID_IL23_PATHWAY	PID_IL23_PATHWAY	37
WINTER_HYPOXIA_UP	WINTER_HYPOXIA_UP	85
KEGG_RNA_POLYMERASE	KEGG_RNA_POLYMER	27
GRABARCZYK_BCL11B_TARGETS_DN	GRABARCZYK_BCL11B_	52
GEISS_RESPONSE_TO_DSRNA_UP	GEISS_RESPONSE_TO_	35
ST_T_CELL_SIGNAL_TRANSDUCTION	ST_T_CELL_SIGNAL_TR	45
GROSS_ELK3_TARGETS_DN	GROSS_ELK3_TARGETS	32
SAGIV_CD24_TARGETS_UP	SAGIV_CD24_TARGETS	21
REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_ACID_TCA_C	REACTOME_PYRUVATI	39
REACTOME_ORC1_REMOVAL_FROM_CHROMATIN	REACTOME_ORC1_REI	65
PID_MYC_ACTIV_PATHWAY	PID_MYC_ACTIV_PATH	77
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW	GARGALOVIC_RESPON	25
MIKKELSEN_ES_ICP_WITH_H3K27ME3	MIKKELSEN_ES_ICP_W	40
GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	GOTZMANN_EPITHELI	196
KEGG_VEGF_SIGNALING_PATHWAY	KEGG_VEGF_SIGNALIN	73
REACTOME_RNA_POL_II_TRANSCRIPTION	REACTOME_RNA_POL_	91
MORI_LARGE_PRE_BII_LYMPHOCYTE_UP	MORI_LARGE_PRE_BII_	81
REACTOME_AMINO_ACID_SYNTHESIS_AND_INTERCONVERSION_	REACTOME_AMINO_A	16
HOLLERN_SQUAMOUS_BREAST_TUMOR	HOLLERN_SQUAMOUS	111
DORN_ADENOVIRUS_INFECTION_12HR_DN	DORN_ADENOVIRUS_I	33
RATTENBACHER_BOUND_BY_CELF1	RATTENBACHER_BOUH	361
AIGNER_ZEB1_TARGETS	AIGNER_ZEB1_TARGET	34
FARMER_BREAST_CANCER_CLUSTER_7	FARMER_BREAST_CAN	18
SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_DN	SCHLOSSER_MYC_TAR	46
DAIRKEE_TERT_TARGETS_UP	DAIRKEE_TERT_TARGE	329
WANG_CISPLATIN_RESPONSE_AND_XPC_UP	WANG_CISPLATIN_RES	183
XU_CREBBP_TARGETS_UP	XU_CREBBP_TARGETS_	24
HEIDENBLAD_AMPLICON_8Q24_DN	HEIDENBLAD_AMPLIC	42
REACTOME_FANCONI_ANEMIA_PATHWAY	REACTOME_FANCONI_	19
PID_ERA_GENOMIC_PATHWAY	PID_ERA_GENOMIC_P	64
REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR	REACTOME_SIGNALIN	119
SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6	SHEDDEN_LUNG_CAN	422
BEIER_GLIOMA_STEM_CELL_DN	BEIER_GLIOMA_STEM_	53
BROWNE_HCMV_INFECTION_6HR_DN	BROWNE_HCMV_INFE	146
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6	YAO_TEMPORAL_RESP	67
PID_CD40_PATHWAY	PID_CD40_PATHWAY	30
BROWNE_HCMV_INFECTION_10HR_UP	BROWNE_HCMV_INFE	86
RASHI_RESPONSE_TO_IONIZING_RADIATION_3	RASHI_RESPONSE_TO_	45
FARMER_BREAST_CANCER_BASAL_VS_LULMINAL	FARMER_BREAST_CAN	304
ONO_FOXP3_TARGETS_DN	ONO_FOXP3_TARGETS	39
RODWELL_AGING_KIDNEY_DN	RODWELL_AGING_KID	125

ODONNELL_TFRC_TARGETS_DN	ODONNELL_TFRC_TAR	120
KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	KEGG_FC_EPSILON_RI	77
REACTOME_APOPTOTIC_EXECUTION_PHASE	REACTOME_APOPTOTI	49
KEGG_ARGININE_AND_PROLINE_METABOLISM	KEGG_ARGININE_AND	51
CHESLER_BRAIN_HIGHEST_EXPRESSION	CHESLER_BRAIN_HIGH	37
DALESSIO_TSA_RESPONSE	DALESSIO_TSA_RESPO	20
KEGG_DORSO_VENTRAL_AXIS_FORMATION	KEGG_DORSO_VENTRA/	22
KEGG_REGULATION_OF_AUTOPHAGY	KEGG_REGULATION_O	28
JIANG_VHL_TARGETS	JIANG_VHL_TARGETS	122
GENTILE_UV_RESPONSE_CLUSTER_D4	GENTILE_UV_RESPONS	51
REACTOME_ABORTIVE_ELONGATION_OF_HIV1_TRANSCRIPT_IN	REACTOME_ABORTIVE	17
REN_ALVEOLAR_RHABDOMYOSARCOMA_UP	REN_ALVEOLAR_RHAB	96
APPIERTO_RESPONSE_TO_FENRETINIDE_UP	APPIERTO_RESPONSE_	35
MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_DN	MULLIGHAN_NPM1_M	72
MARKEY_RB1_ACUTE_LOF_UP	MARKEY_RB1_ACUTE_	219
BECKER_TAMOXIFEN_RESISTANCE_DN	BECKER_TAMOXIFEN_	48
SIG_CD40PATHWAYMAP	SIG_CD40PATHWAYM/	34
MAYBURD_RESPONSE_TO_L663536_DN	MAYBURD_RESPONSE_	48
LY_AGING_PREMATURE_DN	LY_AGING_PREMATUR	29
BIOCARTA_PITX2_PATHWAY	BIOCARTA_PITX2_PATI	15
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP	CHARAFE_BREAST_CAI	393
VANASSE_BCL2_TARGETS_UP	VANASSE_BCL2_TARGI	35
HALMOS_CEBPA_TARGETS_DN	HALMOS_CEBPA_TARC	43
STAMBOLSKY_BOUND_BY_MUTATED_TP53	STAMBOLSKY_BOUND_	15
ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY	ST_PHOSPHOINOSITID	37
MOHANKUMAR_HOXA1_TARGETS_UP	MOHANKUMAR_HOXA	385
XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_DN	XU_RESPONSE_TO_TR	15
REACTOME_PREFOLDIN_MEDIATED_TRANSFER_OF_SUBSTRATE	REACTOME_PREFOLDI	24
HORIUCHI_WTAP_TARGETS_DN	HORIUCHI_WTAP_TAR	287
ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF	ZWANG_CLASS_1_TRA	454
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_UP	HIRSCH_CELLULAR_TR	224
GOLDRATH_HOMEOSTATIC_PROLIFERATION	GOLDRATH_HOMEOST	158
KYNG_DNA_DAMAGE_BY_UV	KYNG_DNA_DAMAGE_	60
BROWNE_HCMV_INFECTION_30MIN_DN	BROWNE_HCMV_INFE	130
REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	REACTOME_BILE_ACID	23
GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP	GAZDA_DIAMOND_BL	33
NIKOLSKY_BREAST_CANCER_16P13_AMPLICON	NIKOLSKY_BREAST_CA	100
PENG_RAPAMYCIN_RESPONSE_DN	PENG_RAPAMYCIN_RE	229
SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN	SCIAN_CELL_CYCLE_TA	22
PID_NEPHRIN_NEPH1_PATHWAY	PID_NEPHRIN_NEPH1_	31
KEGG_P53_SIGNALING_PATHWAY	KEGG_P53_SIGNALING	62
FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP	FLECHNER_PBL_KIDNE	140
TIMOFEEVA_GROWTH_STRESS_VIA_STAT1_DN	TIMOFEEVA_GROWTH	15
MULLIGAN_NTF3_SIGNALING_VIA_INSR_AND_IGF1R_UP	MULLIGAN_NTF3_SIGI	23
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP	PAPASPYRIDONOS_UN	47
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP	GROSS_HYPOXIA_VIA_	137
BIOCARTA_AKT_PATHWAY	BIOCARTA_AKT_PATH	20
GREENBAUM_E2A_TARGETS_DN	GREENBAUM_E2A_TAI	19
PID_ATM_PATHWAY	PID_ATM_PATHWAY	33
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_7	PEDERSEN_METASTAS	341

JAZAG_TGFB1_SIGNALING_UP	JAZAG_TGFB1_SIGNAL	100
BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_DN	BOYLAN_MULTIPLE_M	29
MILI_PSEUDOPODIA_HAPTOTAXIS_UP	MILI_PSEUDOPODIA_F	468
REACTOME_DOWNSTREAM_SIGNALING_EVENTS_OF_B_CELL_RE	REACTOME_DOWNSTN	90
BIOCARTA_P53HYPOXIA_PATHWAY	BIOCARTA_P53HYPOXI	20
QUINTENS_EMBRYONIC_BRAIN_RESPONSE_TO_IR	QUINTENS_EMBRYONI	69
BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_48HR_DN	BANDRES_RESPONSE_	150
HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP	HESS_TARGETS_OF_HC	64
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQU	GARGALOVIC_RESPON	46
GOLUB_ALL_VS_AML_UP	GOLUB_ALL_VS_AML_	23
REACTOME_FORMATION_OF_RNA_POL_II_ELONGATION_COMPL	REACTOME_FORMATI	35
PID_THROMBIN_PAR4_PATHWAY	PID_THROMBIN_PAR4	15
GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP	GRAHAM_CML_DIVIDI	171
WHITFIELD_CELL_CYCLE_G2_M	WHITFIELD_CELL_CYCL	203
GENTILE_UV_RESPONSE_CLUSTER_D2	GENTILE_UV_RESPONS	39
SCHEIDEREIT_IKK_INTERACTING_PROTEINS	SCHEIDEREIT_IKK_INTE	58
REACTOME_CELL_CYCLE_CHECKPOINTS	REACTOME_CELL_CYCI	110
WATANABE_COLON_CANCER_MSI_VS_MSS_UP	WATANABE_COLON_C	25
OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	OUELLET_OVARIAN_C/	112
REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB	REACTOME_PKA_MED	16
WONG_EMBRYONIC_STEM_CELL_CORE	WONG_EMBRYONIC_S	326
CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY	CHIARETTI_T_ALL_REF	28
YOKOE_CANCER_TESTIS_ANTIGENS	YOKOE_CANCER_TESTI	31
CAFFAREL_RESPONSE_TO_THC_24HR_5_UP	CAFFAREL_RESPONSE_	30
LASTOWSKA_COAMPLIFIED_WITH_MYCN	LASTOWSKA_COAMPL	38
KYNG_NORMAL_AGING_UP	KYNG_NORMAL_AGIN	15
HASLINGER_B_CLL_WITH_17P13_DELETION	HASLINGER_B_CLL_WI	19
REACTOME_SIGNALING_BY_WNT	REACTOME_SIGNALIN	61
REACTOME_MRNA_3_END_PROCESSING	REACTOME_MRNA_3_	33
HUNSBERGER_EXERCISE_REGULATED_GENES	HUNSBERGER_EXERCIS	31
CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_LD_MTX_DN	CHEOK_RESPONSE_TO	17
XU_GH1_AUTOCRINE_TARGETS_UP	XU_GH1_AUTOCRINE_	216
FRASOR_RESPONSE_TO ESTRADIOL_DN	FRASOR_RESPONSE_TI	76
BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_UP	BOYLAN_MULTIPLE_M	27
HOLLEMAN_PREDNISOLONE_RESISTANCE_B_ALL_UP	HOLLEMAN_PREDNISC	20
ZHAN_MULTIPLE_MYELOMA_CD1_UP	ZHAN_MULTIPLE_MYE	43
PID_LYSOPHOSPHOLIPID_PATHWAY	PID_LYSOPHOSPHOLIP	65
GAVIN_PDE3B_TARGETS	GAVIN_PDE3B_TARGE	20
BIOCARTA_TOLL_PATHWAY	BIOCARTA_TOLL_PATH	36
BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_UP	BARRIER_CANCER_REL	29
PID_FAS_PATHWAY	PID_FAS_PATHWAY	36
LINSLEY_MIR16_TARGETS	LINSLEY_MIR16_TARG	191
PID_CDC42_PATHWAY	PID_CDC42_PATHWAY	67
NATSUME_RESPONSE_TO_INTERFERON_BETA_DN	NATSUME_RESPONSE_	48
REACTOME_SIGNALING_BY_INSULIN_RECEPTOR	REACTOME_SIGNALIN	101
HASLINGER_B_CLL_WITH_MUTATED_VH_GENES	HASLINGER_B_CLL_WI	16
GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN	GINESTIER_BREAST_C/	147
KEGG_NON_SMALL_CELL_LUNG_CANCER	KEGG_NON_SMALL_CI	52
HELLER_SILENCED_BY_METHYLATION_DN	HELLER_SILENCED_BY_	96
MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_17	MYLLYKANGAS_AMPLI	17

SEIDEN_MET_SIGNALING	SEIDEN_MET_SIGNALII	18
ZHU_CMV_24_HR_UP	ZHU_CMV_24_HR_UP	87
WONG_PROTEASOME_GENE_MODULE	WONG_PROTEASOME	47
MCLACHLAN_DENTAL_CARIES_UP	MCLACHLAN_DENTAL_	202
AMUNDSON_GAMMA_RADIATION_RESPONSE	AMUNDSON_GAMMA	39
REACTOME_APOPTOSIS	REACTOME_APOPTOSI	137
REACTOME_SCFSKP2_MEDIATED_DEGRADATION_OF_P27_P21	REACTOME_SCFSKP2_	52
HEIDENBLAD_AMPLICON_12P11_12_UP	HEIDENBLAD_AMPLIC	32
BIOCARTA_GATA3_PATHWAY	BIOCARTA_GATA3_PA	15
REACTOME_DOWNSTREAM_TCR_SIGNALING	REACTOME_DOWNSTF	27
SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_UP	SHARMA_PILOCYTIC_A	22
LIU_CMYB_TARGETS_UP	LIU_CMYB_TARGETS_U	143
PID_SMAD2_3NUCLEAR_PATHWAY	PID_SMAD2_3NUCLEA	81
YE_METASTATIC_LIVER_CANCER	YE_METASTATIC_LIVEF	21
RHODES_UNDIFFERENTIATED_CANCER	RHODES_UNDIFFEREN	66
KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP	KIM_RESPONSE_TO_T:	117
ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP	ZHANG_RESPONSE_TC	199
REACTOME_REGULATION_OF_SIGNALING_BY_CBL	REACTOME_REGULATI	18
REACTOME_PI3K_CASCADE	REACTOME_PI3K_CASI	66
KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_UP	KYNG_WERNER_SYND	84
ZHENG_GLIOMASTOMA_PLASTICITY_UP	ZHENG_GLIOMASTOM	234
BIOCARTA_CARM_ER_PATHWAY	BIOCARTA_CARM_ER_	34
DARWICHE_SKIN_TUMOR_PROMOTER_UP	DARWICHE_SKIN_TUM	125
GROSS_HYPOXIA_VIA_ELK3_DN	GROSS_HYPOXIA_VIA_	148
REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A	REACTOME_IMMUNOI	44
HILLION_HMGA1B_TARGETS	HILLION_HMGA1B_TA	88
BIOCARTA_GSK3_PATHWAY	BIOCARTA_GSK3_PATH	27
OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_UP	OKAMOTO_LIVER_CAN	22
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP	HOFFMANN_LARGE_TI	153
REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	REACTOME_AQUAPOF	48
WANG_BARRETTS_ESOPHAGUS_UP	WANG_BARRETTS_ESC	44
BURTON_ADIPOGENESIS_PEAK_AT_24HR	BURTON_ADIPOGENES	41
ROME_INSULIN_TARGETS_IN_MUSCLE_DN	ROME_INSULIN_TARG	158
BROWNE_HCMV_INFECTION_8HR_DN	BROWNE_HCMV_INFE	43
MATTIOLI_MGUS_VS_PCL	MATTIOLI_MGUS_VS_	95
REACTOME_CDT1_ASSOCIATION_WITH_THE_CDC6_ORC_ORIGIN	REACTOME_CDT1_ASS	54
KEGG_CYSTEINE_AND_METHIONINE_METABOLISM	KEGG_CYSTEINE_AND_	33
DAIRKEE_CANCER_PRONE_RESPONSE_E2	DAIRKEE_CANCER_PRC	28
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	CHEMELLO_SOLEUS_V	34
REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES	REACTOME_ION_TRAN	33
BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR	BANDRES_RESPONSE_	29
REACTOME_REGULATORY_RNA_PATHWAYS	REACTOME_REGULATO	25
WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_UP	WEST_ADRENOCORTIC	19
REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE	REACTOME_SYNTHESI	30
SASSON_RESPONSE_TO_FORSKOLIN_UP	SASSON_RESPONSE_TO	86
LINDSTEDT_DENDRITIC_CELL_MATURATION_A	LINDSTEDT_DENDRITIC	63
PURBEY_TARGETS_OF_CTBP1_AND_SATB1_DN	PURBEY_TARGETS_OF_	166
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_DN	TAKEDA_TARGETS_OF_	27
REACTOME_REGULATION_OF_KIT_SIGNALING	REACTOME_REGULATI	15
HUPER_BREAST_BASAL_VS_LUMINAL_UP	HUPER_BREAST_BASA	45

REACTOME_DARPP_32_EVENTS	REACTOME_DARPP_32_EVENTS	23
REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT	REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT	29
KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_BIOSYNTHESIS	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_BIOSYNTHESIS	24
NADLER_HYPERGLYCEMIA_AT_OBESITY	NADLER_HYPERGLYCEMIA_AT_OBESITY	57
NAM_FXYD5_TARGETS_DN	NAM_FXYD5_TARGETS_DN	18
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN	KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN	28
REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEINS	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEINS	35
WORSCHER_TUMOR_EVASION_AND_TUMORIGENICITY_UP	WORSCHER_TUMOR_EVASION_AND_TUMORIGENICITY_UP	30
REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE_MRNA	REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE_MRNA	22
BROWNE_HCMV_INFECTION_8HR_UP	BROWNE_HCMV_INFECTION_8HR_UP	90
VANTVEER_BREAST_CANCER_ESR1_DN	VANTVEER_BREAST_CANCER_ESR1_DN	219
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP	WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP	125
WINZEN_DEGRADED_VIA_KHSRP	WINZEN_DEGRADED_VIA_KHSRP	97
REACTOME_ACYL_CHAIN_REMODELLING_OF_PI	REACTOME_ACYL_CHAIN_REMODELLING_OF_PI	15
KANG_FLUOROURACIL_RESISTANCE_UP	KANG_FLUOROURACIL_RESISTANCE_UP	21
REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	43
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	19
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	15
REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_FROM_TYROSINE	REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_FROM_TYROSINE	23
PODAR_RESPONSE_TO_ADAPHOSTIN_UP	PODAR_RESPONSE_TO_ADAPHOSTIN_UP	131
LIANG_SILENCED_BY_METHYLATION_2	LIANG_SILENCED_BY_METHYLATION_2	47
MAEKAWA_ATF2_TARGETS	MAEKAWA_ATF2_TARGETS	24
BORLAK_LIVER_CANCER_EGF_UP	BORLAK_LIVER_CANCER_EGF_UP	53
RAO_BOUND_BY_SALL4	RAO_BOUND_BY_SALL4	203
RODRIGUES_NTN1_TARGETS_DN	RODRIGUES_NTN1_TARGETS_DN	143
REACTOME_PROTEIN_FOLDING	REACTOME_PROTEIN_FOLDING	48
DELASERNA_MYOD_TARGETS_UP	DELASERNA_MYOD_TARGETS_UP	85
KIM_MYCN_AMPLIFICATION_TARGETS_UP	KIM_MYCN_AMPLIFICATION_TARGETS_UP	85
HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	28
MIKKELSEN_MEF_ICP_WITH_H3K27ME3	MIKKELSEN_MEF_ICP_WITH_H3K27ME3	182
MACLACHLAN_BRCA1_TARGETS_UP	MACLACHLAN_BRCA1_TARGETS_UP	21
MOOTHA_VOXPHOS	MOOTHA_VOXPHOS	83
KUMAR_PATHOGEN_LOAD_BY_MACROPHAGES	KUMAR_PATHOGEN_LOAD_BY_MACROPHAGES	216
ANDERSEN_CHOLANGIOCARCINOMA_CLASS1	ANDERSEN_CHOLANGIOCARCINOMA_CLASS1	53
LEE_LIVER_CANCER_SURVIVAL_DN	LEE_LIVER_CANCER_SURVIVAL_DN	162
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_DN	GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_DN	101
REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATE	REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATE	19
PARK_HSC_VS_MULTIPOTENT_PROGENITORS_DN	PARK_HSC_VS_MULTIPOTENT_PROGENITORS_DN	18
REACTOME_ACTIVATION_OF_NF_KAPPAB_IN_B_CELLS	REACTOME_ACTIVATION_OF_NF_KAPPAB_IN_B_CELLS	60
REACTOME_SIGNALING_BY_FGFR1_MUTANTS	REACTOME_SIGNALING_BY_FGFR1_MUTANTS	28
BOYALT_LIVER_CANCER_SUBCLASS_G123_DN	BOYALT_LIVER_CANCER_SUBCLASS_G123_DN	49
PID_IL2_PI3K_PATHWAY	PID_IL2_PI3K_PATHWAY	34
CAFFAREL_RESPONSE_TO_THC_DN	CAFFAREL_RESPONSE_TO_THC_DN	26
GARY_CD5_TARGETS_DN	GARY_CD5_TARGETS_DN	404
KYNG_DNA_DAMAGE_BY_4NQO	KYNG_DNA_DAMAGE_BY_4NQO	31
GROSS_HYPOXIA_VIA_HIF1A_UP	GROSS_HYPOXIA_VIA_HIF1A_UP	76
BYSTROEM_CORRELATED_WITH_IL5_DN	BYSTROEM_CORRELATED_WITH_IL5_DN	60
BASSO_CD40_SIGNALING_UP	BASSO_CD40_SIGNALING_UP	92
ZHAN_V2_LATE_DIFFERENTIATION_GENES	ZHAN_V2_LATE_DIFFERENTIATION_GENES	41
WU_HBX_TARGETS_3_UP	WU_HBX_TARGETS_3_UP	18

RODRIGUES_THYROID_CARCCINOMA_DN	RODRIGUES_THYROID_	66
JEPSEN_SMRT_TARGETS	JEPSEN_SMRT_TARGET	32
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2	YAO_TEMPORAL_RESP	79
REACTOME_RNA_POL_III_CHAIN_ELONGATION	REACTOME_RNA_POL_	17
PRAMOONJAGO_SOX4_TARGETS_UP	PRAMOONJAGO_SOX4	51
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN	PYEON_CANCER_HEAL	23
NICK_RESPONSE_TO_PROC_TREATMENT_DN	NICK_RESPONSE_TO_F	22
ZHONG_SECRETOME_OF_LUNG_CANCER_AND_MACROPHAGE	ZHONG_SECRETOME_ (	76
JAEGER_METASTASIS_DN	JAEGER_METASTASIS_	229
ANDERSEN_CHOLANGIOCARCINOMA_CLASS2	ANDERSEN_CHOLANGI	156
REACTOME_GLUCOSE_TRANSPORT	REACTOME_GLUCOSE_	38
BIOCARTA_TALL1_PATHWAY	BIOCARTA_TALL1_PAT	15
KEGG_PURINE_METABOLISM	KEGG_PURINE_METAB	153
BIOCARTA_P53_PATHWAY	BIOCARTA_P53_PATHV	15
DAIRKEE_TERT_TARGETS_DN	DAIRKEE_TERT_TARGE	103
PID_REG_GR_PATHWAY	PID_REG_GR_PATHWA	78
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D	BRUINS_UVC_RESPON	252
LEIN_CEREBELLUM_MARKERS	LEIN_CEREBELLUM_M.	78
REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE_ODC	REACTOME_REGULATI	48
DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_UP	DACOSTA_LOW_DOSE	16
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_UP	LI_WILMS_TUMOR_VS	30
BOYALT_LIVER_CANCER_SUBCLASS_G123_UP	BOYALT_LIVER_CANC	43
REACTOME_TCR_SIGNALING	REACTOME_TCR_SIGN	44
GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_UP	GRAHAM_CML_QUIES	50
REACTOME_ACTIVATION_OF_BH3_ONLY_PROTEINS	REACTOME_ACTIVATIC	15
BORCZUK_MALIGNANT_MESOTHELIOMA_UP	BORCZUK_MALIGNAN	284
NUMATA_CSF3_SIGNALING_VIA_STAT3	NUMATA_CSF3_SIGNA	21
PENG_Glutamine_Deprivation_DN	PENG_Glutamine_De	320
REACTOME_Cyclin_E_Associated_Events_During_G1_S_Tra	REACTOME_Cyclin_E_	61
BLUM_RESPONSE_TO_SALIRASIB_DN	BLUM_RESPONSE_TO_	328
VERNELL_RETINOBLASTOMA_PATHWAY_DN	VERNELL_RETINOBLAS	18
RHEIN_ALL_Glucocorticoid_Therapy_DN	RHEIN_ALL_Glucocoi	344
IVANOVA_HEMATOPOIESIS_MATURE_CELL	IVANOVA_HEMATOPO	261
DORN_ADENOVIRUS_INFECTION_12HR_UP	DORN_ADENOVIRUS_I	28
BIOCARTA_TNFR1_PATHWAY	BIOCARTA_TNFR1_PAT	29
SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES	SIG_PIP3_SIGNALING_	35
RAHMAN_TP53_TARGETS_PHOSPHORYLATED	RAHMAN_TP53_TARG	21
GAZIN_EPIGENETIC_SILENCING_BY_KRAS	GAZIN_EPIGENETIC_SII	24
REACTOME_HOST_INTERACTIONS_OF_HIV_FACTORS	REACTOME_HOST_INT	115
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_T_CELL_RECEPT	105
GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	GUTIERREZ_CHRONIC_	51
REACTOME_Cyclin_A_B1_Associated_Events_During_G2_M	REACTOME_Cyclin_A_	15
MURAKAMI_UV_RESPONSE_6HR_DN	MURAKAMI_UV_RESPH	20
MIKKELSEN_MCV6_ICP_WITH_H3K27ME3	MIKKELSEN_MCV6_ICF	67
WANG_NFKB_TARGETS	WANG_NFKB_TARGET	24
PID_FRA_PATHWAY	PID_FRA_PATHWAY	36
PID_PI3K_PLC_TRK_PATHWAY	PID_PI3K_PLC_TRK_PA	34
GARY_CD5_TARGETS_UP	GARY_CD5_TARGETS_	431
VALK_AML_CLUSTER_8	VALK_AML_CLUSTER_8	23
ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_DN	ACEVEDO_LIVER_CANC	90

NELSON_RESPONSE_TO_ANDROGEN_DN	NELSON_RESPONSE_T	19
PID_RAS_PATHWAY	PID_RAS_PATHWAY	28
LI_LUNG_CANCER	LI_LUNG_CANCER	40
REACTOME_ELONGATION_ARREST_AND_RECOVERY	REACTOME_ELONGATI	24
HOELZEL_NF1_TARGETS_UP	HOELZEL_NF1_TARGET	128
BASAKI_YBX1_TARGETS_UP	BASAKI_YBX1_TARGET	261
WANG_RECURRENT_LIVER_CANCER_DN	WANG_RECURRENT_LI	16
DANG_MYC_TARGETS_UP	DANG_MYC_TARGETS_	138
MIKKELSEN_MEF_ICP_WITH_H3K4ME3_AND_H3K27ME3	MIKKELSEN_MEF_ICP_	38
LABBE_TGFB1_TARGETS_DN	LABBE_TGFB1_TARGET	95
REACTOME_ION_CHANNEL_TRANSPORT	REACTOME_ION_CHAI	53
BIOCARTA_RACCYCD_PATHWAY	BIOCARTA_RACCYCD_I	25
SHEN_SMARCA2_TARGETS_DN	SHEN_SMARCA2_TARC	273
REACTOME_REGULATION_OF_APOPTOSIS	REACTOME_REGULATI	56
HINATA_NFKB_TARGETS_KERATINOCYTE_DN	HINATA_NFKB_TARGET	20
LIN_NPAS4_TARGETS_UP	LIN_NPAS4_TARGETS_	143
REACTOME_RNA_POL_III_TRANSCRIPTION_TERMINATION	REACTOME_RNA_POL_	19
JIANG_AGING_HYPOTHALAMUS_DN	JIANG_AGING_HYPOTI	40
LIU_BREAST_CANCER	LIU_BREAST_CANCER	23
PID_PI3KCI_PATHWAY	PID_PI3KCI_PATHWAY	48
BROWNE_HCMV_INFECTION_6HR_UP	BROWNE_HCMV_INFE	62
PID_MET_PATHWAY	PID_MET_PATHWAY	79
AMIT_EGF_RESPONSE_240_MCF10A	AMIT_EGF_RESPONSE_	19
SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_UP	SHIPP_DLCL_VS_FOLI	43
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_B_CELL_RECEPT	73
GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_DN	GRAHAM_CML_QUIES	38
BOYALT_LIVER_CANCER_SUBCLASS_G1_DN	BOYALT_LIVER_CANC	33
LIU_VAV3_PROSTATE_CARCINOGENESIS_DN	LIU_VAV3_PROSTATE_	16
PID_HEDGEHOG_GLI_PATHWAY	PID_HEDGEHOG_GLI_	48
ZAMORA_NOS2_TARGETS_UP	ZAMORA_NOS2_TARG	64
KEGG_TASTE_TRANSDUCTION	KEGG_TASTE_TRANSD	26
REACTOME_DESTABILIZATION_OF_MRNA_BY_AUF1_HNRNP_D0	REACTOME_DESTABILI	50
TARTE_PLASMA_CELL_VS_PLASMABLAST_DN	TARTE_PLASMA_CELL_	298
JAIN_NFKB_SIGNALING	JAIN_NFKB_SIGNALING	70
PID_AMB2_NEUTROPHILS_PATHWAY	PID_AMB2_NEUTROPH	40
BOUDOUKHA_BOUND_BY_IGF2BP2	BOUDOUKHA_BOUND_	101
LAIHO_COLORECTAL_CANCER_SERRATED_DN	LAIHO_COLORECTAL_C	72
FERRARI_RESPONSE_TO_FENRETINIDE_UP	FERRARI_RESPONSE_T	21
MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN	MOREAUX_B_LYMPHC	63
CROONQUIST_NRAS_SIGNALING_UP	CROONQUIST_NRAS_S	36
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_DN	KYNG_ENVIRONMENT	18
MURAKAMI_UV_RESPONSE_6HR_UP	MURAKAMI_UV_RESPI	32
DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_UP	DACOSTA_UV_RESPON	26
LIU_SOX4_TARGETS_UP	LIU_SOX4_TARGETS_U	120
VILLANUEVA_LIVER_CANCER_KRT19_DN	VILLANUEVA_LIVER_C/	55
ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP	ZHAN_MULTIPLE_MYE	63
GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP	GRAHAM_NORMAL_Q	64
LY_AGING_MIDDLE_DN	LY_AGING_MIDDLE_DI	16
ST_GA13_PATHWAY	ST_GA13_PATHWAY	34
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_UP	GUENTHER_GROWTH_	21

REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQL	REACTOME_REGULATI	42
TRAYNOR_RETT_SYNDROM_DN	TRAYNOR_RETT_SYND	17
KEGG_RIBOFLAVIN_METABOLISM	KEGG_RIBOFLAVIN_MI	16
JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_UP	JAZAERI_BREAST_CAN	48
YU_BAP1_TARGETS	YU_BAP1_TARGETS	27
PAL_PRMT5_TARGETS_DN	PAL_PRMT5_TARGETS	29
HU_GENOTOXIC_DAMAGE_4HR	HU_GENOTOXIC_DAM	35
HUMMERICH_BENIGN_SKIN_TUMOR_UP	HUMMERICH_BENIGN	16
GALE_APL_WITH_FLT3_MUTATED_UP	GALE_APL_WITH_FLT3	49
TOMIDA_METASTASIS_DN	TOMIDA_METASTASIS	17
REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_A	REACTOME_THROMBI	32
LIM_MAMMARY_STEM_CELL_DN	LIM_MAMMARY_STEM	394
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED	TONKS_TARGETS_OF_	41
GROSS_HYPOXIA_VIA_ELK3_ONLY_DN	GROSS_HYPOXIA_VIA_	40
SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_DN	SHIPP_DLBCL_VS_FOLI	41
LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_UP	LASTOWSKA_NEUROB	165
REACTOME_GLUCCONEOGENESIS	REACTOME_GLUCCONE	28
PID_CD8_TCR_PATHWAY	PID_CD8_TCR_PATHW	50
LEE_AGING_MUSCLE_UP	LEE_AGING_MUSCLE_I	42
BIOCARTA_CK1_PATHWAY	BIOCARTA_CK1_PATH	15
VALK_AML_CLUSTER_1	VALK_AML_CLUSTER_:	27
KEGG_SPLICEOSOME	KEGG_SPLICEOSOME	121
AMIT_EGF_RESPONSE_40_HELA	AMIT_EGF_RESPONSE	42
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN	MOREAUX_MULTIPLE_	150
KEGG_PARKINSONS_DISEASE	KEGG_PARKINSONS_D	109
BIOCARTA_G1_PATHWAY	BIOCARTA_G1_PATHW	27
RASHI_RESPONSE_TO_IONIZING_RADIATION_6	RASHI_RESPONSE_TO_	76
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN	HERNANDEZ_ABERRAN	23
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_UP	TORCHIA_TARGETS_OI	17
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	SARTIPY_BLUNTED_BY	18
REACTOME_MRNA_SPLICING_MINOR_PATHWAY	REACTOME_MRNA_SP	41
WANG_BARRETTS_ESOPHAGUS_DN	WANG_BARRETTS_ESC	23
WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2	WEIGEL_OXIDATIVE_S	39
PID_AURORA_B_PATHWAY	PID_AURORA_B_PATH	38
MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_DN	MORI_EMU_MYC_LYM	16
THILLAINADESAN_ZNF217_TARGETS_UP	THILLAINADESAN_ZNF	42
GRANDVAUX_IRF3_TARGETS_UP	GRANDVAUX_IRF3_TA	15
TONG_INTERACT_WITH_PTTG1	TONG_INTERACT_WIT	49
GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_DN	GAUSSMANN_MLL_AF	19
GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_DN	GAZDA_DIAMOND_BL	60
SAKAI_TUMOR_INFILTRATING_MONOCYTES_DN	SAKAI_TUMOR_INFILT	73
BIOCARTA_PROTEASOME_PATHWAY	BIOCARTA_PROTEASO	28
ONO_AML1_TARGETS_DN	ONO_AML1_TARGETS	39
REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN_THE_TER	REACTOME_CLEAVAGE	41
REACTOME_PI3K_AKT_ACTIVATION	REACTOME_PI3K_AKT	36
DAZARD_UV_RESPONSE_CLUSTER_G28	DAZARD_UV_RESPONS	18
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	KEGG_AMYOTROPHIC	51
AFFAR_YY1_TARGETS_DN	AFFAR_YY1_TARGETS	218
MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBIT	MASRI_RESISTANCE_T	19
PID_RB_1PATHWAY	PID_RB_1PATHWAY	63



CUI_GLUCCOSE_DEPRIVATION	CUI_GLUCCOSE_DEPRIV	58
PODAR_RESPONSE_TO_ADAPHOSTIN_DN	PODAR_RESPONSE_TC	15
BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE	BOSCO_ALLERGEN_INI	137
ONDER_CDH1_TARGETS_1_DN	ONDER_CDH1_TARGETS_1	154
HANSON_HRAS_SIGNALING_VIA_NFKB	HANSON_HRAS_SIGNALING	21
KAYO_AGING_MUSCLE_DN	KAYO_AGING_MUSCLE	113
SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES	SIG_INSULIN_RECEPTC	50
BAKER_HEMATOPOIESIS_STAT3_TARGETS	BAKER_HEMATOPOIESIS	16
HOWLIN_CITED1_TARGETS_1_DN	HOWLIN_CITED1_TARGETS	33
REACTOME_RNA_POL_I_TRANSCRIPTION_TERMINATION	REACTOME_RNA_POL_I	20
PACHER_TARGETS_OF_IGF1_AND_IGF2_UP	PACHER_TARGETS_OF_IGF	35
BILD_MYC_ONCOGENIC_SIGNATURE	BILD_MYC_ONCOGENIC	179
OUILLETTE_CLL_13Q14_DELETION_DN	OUILLETTE_CLL_13Q14	53
CHOI_ATL_CHRONIC_VS_ACUTE_DN	CHOI_ATL_CHRONIC_VS	18
SHAFFER_IRF4_TARGETS_IN_MYELOMA_VS_MATURE_B_LYMPHC	SHAFFER_IRF4_TARGETS	98
LIN_APC_TARGETS	LIN_APC_TARGETS	75
KEGG_OXIDATIVE_PHOSPHORYLATION	KEGG_OXIDATIVE_PHOS	112
KRIGE_AMINO_ACID_DEPRIVATION	KRIGE_AMINO_ACID_DEPR	29
CHO_NR4A1_TARGETS	CHO_NR4A1_TARGETS	30
NIKOLSKY_BREAST_CANCER_17Q11_Q21_AMPLICON	NIKOLSKY_BREAST_CANCER	110
DAUER_STAT3_TARGETS_UP	DAUER_STAT3_TARGETS	45
STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN	STARK_PREFRONTAL_CORTEX	459
REACTOME_MRNA_PROCESSING	REACTOME_MRNA_PROCESSING	151
REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PR	REACTOME_PROCESSING_OF_CAPPED_INTRON	134
DOANE_BREAST_CANCER_ESR1_UP	DOANE_BREAST_CANCER	99
BIOCARTA_TID_PATHWAY	BIOCARTA_TID_PATHWAY	18
WEST_ADRENOCORTICAL_TUMOR_UP	WEST_ADRENOCORTICAL_TUMOR	276
GOLUB_ALL_VS_AML_DN	GOLUB_ALL_VS_AML_DN	22
HUANG_FOXA2_TARGETS_DN	HUANG_FOXA2_TARGETS	35
WILENSKY_RESPONSE_TO_DARAPLADIB	WILENSKY_RESPONSE_TO_DARAPLADIB	28
POMEROY_MEDULLOBLASTOMA_PROGNOSIS_DN	POMEROY_MEDULLOBLASTOMA	43
KARLSSON_TGFB1_TARGETS_UP	KARLSSON_TGFB1_TARGETS	120
HOLLERN_MICROACINAR_BREAST_TUMOR_UP	HOLLERN_MICROACINAR_BREAST_TUMOR	30
BIOCARTA_TH1TH2_PATHWAY	BIOCARTA_TH1TH2_PATHWAY	16
NEMETH_INFLAMMATORY_RESPONSE_LPS_DN	NEMETH_INFLAMMATORY_RESPONSE_LPS	30
ONO_FOXP3_TARGETS_UP	ONO_FOXP3_TARGETS	23
SENGUPTA_NASOPHARYNGEAL_CARCCINOMA_WITH_LMP1_DN	SENGUPTA_NASOPHARYNGEAL_CARCCINOMA	131
WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN	WANG_METASTASIS_OF_BREAST_CANCER	25
ST_INTERLEUKIN_4_PATHWAY	ST_INTERLEUKIN_4_PATHWAY	23
PID_IL12_2PATHWAY	PID_IL12_2PATHWAY	57
MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLK_UP	MAGRANGEAS_MULTIPLE_MYELOMA	39
PRAMOONJAGO_SOX4_TARGETS_DN	PRAMOONJAGO_SOX4_TARGETS	49
FOSTER_KDM1A_TARGETS_UP	FOSTER_KDM1A_TARGETS	230
NIELSEN_SCHWANNOMA_UP	NIELSEN_SCHWANNOMA	16
REACTOME_DESTABILIZATION_OF_MRNA_BY_BRF1	REACTOME_DESTABILIZATION_OF_MRNA	17
SCHEIDEREIT_IKK_TARGETS	SCHEIDEREIT_IKK_TARGETS	17
ZHU_CMV_ALL_UP	ZHU_CMV_ALL_UP	113
REACTOME_MYOGENESIS	REACTOME_MYOGENESIS	26
REACTOME_P53_INDEPENDENT_G1_S_DNA_DAMAGE_CHECKPOINT	REACTOME_P53_INDEPENDENT_G1_S_DNA_DAMAGE_CHECKPOINT	48
JAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER	JAERVINEN_AMPLIFIED_IN_LARYNGEAL_CANCER	35

JIANG_HYPOXIA_VIA_VHL	JIANG_HYPOXIA_VIA_VHL	32
KEGG_PRION_DISEASES	KEGG_PRION_DISEASE	33
REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_LIGAS	REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN_LIGAS	46
PENG_LEUCINE_DEPRIVATION_DN	PENG_LEUCINE_DEPRIVATION_DN	179
GUTIERREZ_MULTIPLE_MYELOMA_UP	GUTIERREZ_MULTIPLE_MYELOMA_UP	30
PID_CIRCADIAN_PATHWAY	PID_CIRCADIAN_PATHWAY	15
PID_BCR_5PATHWAY	PID_BCR_5PATHWAY	63
VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_UP	VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_UP	65
SIMBULAN_PARP1_TARGETS_DN	SIMBULAN_PARP1_TARGETS_DN	17
PID_INTEGRIN2_PATHWAY	PID_INTEGRIN2_PATHWAY	27
NAKAJIMA_EOSINOPHIL	NAKAJIMA_EOSINOPHIL	27
ZHAN_V1_LATE_DIFFERENTIATION_GENES_DN	ZHAN_V1_LATE_DIFFERENTIATION_GENES_DN	15
HUPER_BREAST_BASAL_VS_LUMINAL_DN	HUPER_BREAST_BASAL_VS_LUMINAL_DN	53
ROVERSI_GLIOMA_LOH_REGIONS	ROVERSI_GLIOMA_LOH_REGIONS	43
TAKAO_RESPONSE_TO_UVB_RADIATION_UP	TAKAO_RESPONSE_TO_UVB_RADIATION_UP	82
ZHAN_MULTIPLE_MYELOMA_HP_UP	ZHAN_MULTIPLE_MYELOMA_HP_UP	42
MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN	MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN	20
AMUNDSON_DNA_DAMAGE_RESPONSE_TP53	AMUNDSON_DNA_DAMAGE_RESPONSE_TP53	15
ABE_VEGFA_TARGETS_2HR	ABE_VEGFA_TARGETS_2HR	32
NATSUME_RESPONSE_TO_INTERFERON_BETA_UP	NATSUME_RESPONSE_TO_INTERFERON_BETA_UP	65
CHOI_ATL_STAGE_PREDICTOR	CHOI_ATL_STAGE_PREDICTOR	35
WANG_LSD1_TARGETS_DN	WANG_LSD1_TARGETS_DN	38
KRIEG_KDM3A_TARGETS_NOT_HYPOXIA	KRIEG_KDM3A_TARGETS_NOT_HYPOXIA	177
REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES	REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES	48
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP	SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP	19
REACTOME_CROSS_PRESENTATION_OF_SOLUBLE_EXOGENOUS_A	REACTOME_CROSS_PRESENTATION_OF_SOLUBLE_EXOGENOUS_A	45
PID_TCR_PATHWAY	PID_TCR_PATHWAY	63
AIYAR_COBRA1_TARGETS_UP	AIYAR_COBRA1_TARGETS_UP	35
MCCLUNG_COCAIN_REWARD_4WK	MCCLUNG_COCAIN_REWARD_4WK	71
PID_P38_ALPHA_BETA_PATHWAY	PID_P38_ALPHA_BETA_PATHWAY	31
CHANGOLKAR_H2AFY_TARGETS_DN	CHANGOLKAR_H2AFY_TARGETS_DN	38
SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_UP	SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_UP	76
BIOCARTA_NO2IL12_PATHWAY	BIOCARTA_NO2IL12_PATHWAY	17
AIYAR_COBRA1_TARGETS_DN	AIYAR_COBRA1_TARGETS_DN	23
REACTOME_CDK_MEDIATED_PHOSPHORYLATION_AND_REMOVA	REACTOME_CDK_MEDIATED_PHOSPHORYLATION_AND_REMOVA	46
MORI_PRE_BI_LYMPHOCYTE_UP	MORI_PRE_BI_LYMPHOCYTE_UP	77
PENG_LEUCINE_DEPRIVATION_UP	PENG_LEUCINE_DEPRIVATION_UP	129
BIOCARTA_41BB_PATHWAY	BIOCARTA_41BB_PATHWAY	17
WELCSH_BRCA1_TARGETS_DN	WELCSH_BRCA1_TARGETS_DN	138
REACTOME_BOTULINUM_NEUROTOXICITY	REACTOME_BOTULINUM_NEUROTOXICITY	15
MIKKELSEN_MEF_LCP_WITH_H3K27ME3	MIKKELSEN_MEF_LCP_WITH_H3K27ME3	59
BIOCARTA_CELLCYCLE_PATHWAY	BIOCARTA_CELLCYCLE_PATHWAY	23
GREENBAUM_E2A_TARGETS_UP	GREENBAUM_E2A_TARGETS_UP	30
REACTOME_SCF_BETA_TRCP_MEDIATED_DEGRADATION_OF_EM	REACTOME_SCF_BETA_TRCP_MEDIATED_DEGRADATION_OF_EM	48
MEISSNER_BRAIN_HCP_WITH_H3K4ME2_AND_H3K27ME3	MEISSNER_BRAIN_HCP_WITH_H3K4ME2_AND_H3K27ME3	56
IVANOVA_HEMATOPOIESIS_INTERMEDIATE_PROGENITOR	IVANOVA_HEMATOPOIESIS_INTERMEDIATE_PROGENITOR	134
BIOCARTA_LAIR_PATHWAY	BIOCARTA_LAIR_PATHWAY	16
KERLEY_RESPONSE_TO_CISPLATIN_UP	KERLEY_RESPONSE_TO_CISPLATIN_UP	38
ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMIDE	ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMIDE	15
REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PROTEINS_T	REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PROTEINS_T	81

FARMER_BREAST_CANCER_CLUSTER_5	FARMER_BREAST_CAN	17
KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES	KEGG_GLYCOPHINGO	15
GAL_LEUKEMIC_STEM_CELL_DN	GAL_LEUKEMIC_STEM	211
SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_C	SCHLESINGER_H3K27M	27
GAJATE_RESPONSE_TO TRABECTEDIN_DN	GAJATE_RESPONSE_TC	19
ZWANG_EGF_PERSISTENTLY_UP	ZWANG_EGF_PERSISTI	27
WANG_TUMOR_INVASIVENESS_UP	WANG_TUMOR_INVA	354
LEIN_NEURON_MARKERS	LEIN_NEURON_MARKE	65
REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSP	REACTOME_TCA_CYCL	112
REACTOME_P53_DEPENDENT_G1_DNA_DAMAGE_RESPONSE	REACTOME_P53_DEPE	52
MISSIAGLIA_REGULATED_BY_METHYLATION_UP	MISSIAGLIA_REGULATI	111
TERAMOTO_OPN_TARGETS_CLUSTER_7	TERAMOTO_OPN_TAR	17
REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1_APC_C	REACTOME_AUTODEG	56
YUAN_ZNF143_PARTNERS	YUAN_ZNF143_PARTN	22
KOINUMA_COLON_CANCER_MSI_UP	KOINUMA_COLON_CA	15
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_DN	CHEMELLO_SOLEUS_V	19
LUI_TARGETS_OF_PAX8_PPARG_FUSION	LUI_TARGETS_OF_PAX	32
PID_EPO_PATHWAY	PID_EPO_PATHWAY	33
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN	ACOSTA_PROLIFERATI	104
REACTOME_VIF_MEDIATED_DEGRADATION_OF_APOBEC3G	REACTOME_VIF_MEDI	48
RHODES_CANCER_META_SIGNATURE	RHODES_CANCER_ME	62
IGARASHI_ATF4_TARGETS_DN	IGARASHI_ATF4_TARG	82
REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENTS	REACTOME_POST_NM	32
ZEMBUTSU_SENSITIVITY_TO_NIMUSTINE	ZEMBUTSU_SENSITIVI	15
REACTOME_CTLA4_INHIBITORY_SIGNALING	REACTOME_CTLA4_INI	21
PID_IL6_7_PATHWAY	PID_IL6_7_PATHWAY	46
LEE_LIVER_CANCER_SURVIVAL_UP	LEE_LIVER_CANCER_SI	153
AMIT_SERUM_RESPONSE_40_MCF10A	AMIT_SERUM_RESPON	30
LIN_NPAS4_TARGETS_DN	LIN_NPAS4_TARGETS_	61
FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_UP	FLOTHO_PEDIATRIC_A	50
ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATIC	ALTEMEIER_RESPONSE	113
BROWNE_HCMV_INFECTION_14HR_UP	BROWNE_HCMV_INFE	138
LIU_IL13_MEMORY_MODEL_UP	LIU_IL13_MEMORY_M	16
CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_UP	CHAUHAN_RESPONSE_	48
GAURNIER_PSMD4_TARGETS	GAURNIER_PSMD4_TA	48
REACTOME_MRNA_SPLICING	REACTOME_MRNA_SP	105
REACTOME_FORMATION_OF_INCISION_COMPLEX_IN_GG_NER	REACTOME_FORMATIC	20
REACTOME_DEGRADATION_OF_THE_EXTRACELLULAR_MATRIX	REACTOME_DEGRADA	26
MEINHOLD_OVARIAN_CANCER_LOW_GRADE_UP	MEINHOLD_OVARIAN_	18
HASLINGER_B_CLL_WITH_13Q14_DELETION	HASLINGER_B_CLL_WI	21
HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP	HOFMANN_MYELODY	20
MATTIOLI_MGUS_VS_MULTIPLE_MYELOMA	MATTIOLI_MGUS_VS_	16
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KEGG_PYRUVATE_METABOLISM	KEGG_PYRUVATE_MET	36
REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	REACTOME_PEPTIDE_I	167
SIG_BCR_SIGNALING_PATHWAY	SIG_BCR_SIGNALING_I	46
NAGY_TFTC_COMPONENTS_HUMAN	NAGY_TFTC_COMPON	17
KEGG_PROTEASOME	KEGG_PROTEASOME	44
STARK_HYPPOCAMPUS_22Q11_DELETION_DN	STARK_HYPPOCAMPUS	18
ELVIDGE_HIF1A_AND_HIF2A_TARGETS_UP	ELVIDGE_HIF1A_AND_	36

ELVIDGE_HYPOXIA_DN	ELVIDGE_HYPOXIA_DN	134
PID_CD8_TCR_DOWNSTREAM_PATHWAY	PID_CD8_TCR_DOWNSTREAM_PATHWAY	56
LUI_THYROID_CANCER_PAX8_PPARG_DN	LUI_THYROID_CANCER_PAX8_PPARG_DN	43
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS	KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS	42
KUNINGER_IGF1_VS_PDGF_TARGETS_UP	KUNINGER_IGF1_VS_PDGF_TARGETS_UP	77
REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN	REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN	17
MCGOWAN_RSP6_TARGETS_UP	MCGOWAN_RSP6_TARGETS_UP	17
ELVIDGE_HIF1A_TARGETS_UP	ELVIDGE_HIF1A_TARGETS_UP	62
MCCLUNG_COCAINE_REWARD_5D	MCCLUNG_COCAINE_REWARD_5D	78
CAIRO_PML_TARGETS_BOUND_BY_MYC_UP	CAIRO_PML_TARGETS_BOUND_BY_MYC_UP	22
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN	GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN	23
PID_PLK1_PATHWAY	PID_PLK1_PATHWAY	45
WANG_METASTASIS_OF_BREAST_CANCER_ESR1_UP	WANG_METASTASIS_OF_BREAST_CANCER_ESR1_UP	19
NIKOLSKY_BREAST_CANCER_5P15_AMPLICON	NIKOLSKY_BREAST_CANCER_5P15_AMPLICON	24
SANA_TNF_SIGNALING_UP	SANA_TNF_SIGNALING_UP	73
LY_AGING_OLD_DN	LY_AGING_OLD_DN	55
FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN	FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_DN	168
REACTOME_SYNTHESIS_OF_PIP2_AT_THE_GOLGI_MEMBRANE	REACTOME_SYNTHESIS_OF_PIP2_AT_THE_GOLGI_MEMBRANE	16
LEE_LIVER_CANCER_MYC_DN	LEE_LIVER_CANCER_MYC_DN	55
REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	76
KYNG_RESPONSE_TO_H2O2_VIA_ERCC6	KYNG_RESPONSE_TO_H2O2_VIA_ERCC6	16
MATZUK_MEIOTIC_AND_DNA_REPAIR	MATZUK_MEIOTIC_AND_DNA_REPAIR	39
CHANG_IMMORTALIZED_BY_HPV31_DN	CHANG_IMMORTALIZED_BY_HPV31_DN	55
WEBER_METHYLATED_ICP_IN_FIBROBLAST	WEBER_METHYLATED_ICP_IN_FIBROBLAST	19
RADAEVA_RESPONSE_TO_IFNA1_UP	RADAEVA_RESPONSE_TO_IFNA1_UP	45
SCHLOSSER_MYC_AND_SERUM_RESPONSE_SYNERGY	SCHLOSSER_MYC_AND_SERUM_RESPONSE_SYNERGY	30
PID_IL12_STAT4_PATHWAY	PID_IL12_STAT4_PATHWAY	31
KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	64
REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC2C	REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC2C	64
MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_UP	MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_UP	99
REICHERT_MITOSIS_LIN9_TARGETS	REICHERT_MITOSIS_LIN9_TARGETS	28
REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_MITC	REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_MITC	65
REACTOME_METAL_ION_SLC_TRANSPORTERS	REACTOME_METAL_ION_SLC_TRANSPORTERS	22
ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	36
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP	ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP	25
WHITFIELD_CELL_CYCLE_G2	WHITFIELD_CELL_CYCLE_G2	162
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_11	YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_11	97
REACTOME_METABOLISM_OF_RNA	REACTOME_METABOLISM_OF_RNA	249
FERRANDO_HOX11_NEIGHBORS	FERRANDO_HOX11_NEIGHBORS	17
REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND_DEGRA	REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND_DEGRA	17
NAKAMURA_CANCER_MICROENVIRONMENT_DN	NAKAMURA_CANCER_MICROENVIRONMENT_DN	44
REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT	62
NIKOLSKY_BREAST_CANCER_12Q24_AMPLICON	NIKOLSKY_BREAST_CANCER_12Q24_AMPLICON	15
BIOCARTA_CYTOKINE_PATHWAY	BIOCARTA_CYTOKINE_PATHWAY	21
REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHE	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHE	77
MOSERLE_IFNA_RESPONSE	MOSERLE_IFNA_RESPONSE	23
WANG_RESPONSE_TO_FORSKOLIN_UP	WANG_RESPONSE_TO_FORSKOLIN_UP	20
REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_AP	REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_AP	18
FARMER_BREAST_CANCER_CLUSTER_1	FARMER_BREAST_CANCER_CLUSTER_1	36
REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A	REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A	21

ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT M LEADING EDGE
0.680545	1.672257	0.013619	1	0.86	1858 tags=44%, list=8%, signal=47%
0.631202	1.65186	0.004902	1	0.938	2859 tags=56%, list=12%, signal=64%
0.604464	1.644647	0.014706	1	0.952	2099 tags=40%, list=9%, signal=44%
0.491411	1.616967	0.018939	1	0.98	3236 tags=35%, list=14%, signal=41%
0.686999	1.599272	0	1	0.999	4556 tags=56%, list=19%, signal=69%
0.480857	1.586804	0	1	0.999	3386 tags=38%, list=14%, signal=45%
0.598134	1.58587	0.041441	1	0.999	3307 tags=55%, list=14%, signal=64%
0.564362	1.534517	0.03252	1	1	3536 tags=56%, list=15%, signal=65%
0.667918	1.497019	0.058601	1	1	4100 tags=50%, list=18%, signal=61%
0.495566	1.494685	0.00491	1	1	2494 tags=32%, list=11%, signal=35%
0.601752	1.487991	0.03964	1	1	5283 tags=53%, list=23%, signal=68%
0.583409	1.473757	0.041096	1	1	4437 tags=59%, list=19%, signal=73%
0.567627	1.47203	0.033074	1	1	1488 tags=39%, list=6%, signal=41%
0.545624	1.467806	0.036907	1	1	1948 tags=33%, list=8%, signal=36%
0.568725	1.461357	0.084922	1	1	2148 tags=37%, list=9%, signal=41%
0.539844	1.459822	0.024834	1	1	5150 tags=51%, list=22%, signal=65%
0.516488	1.44987	0.018364	1	1	1794 tags=42%, list=8%, signal=46%
0.562629	1.435799	0.053381	1	1	3777 tags=48%, list=16%, signal=57%
0.583532	1.431081	0.073529	1	1	5709 tags=67%, list=24%, signal=88%
0.532281	1.424943	0.061111	1	1	4349 tags=50%, list=19%, signal=61%
0.47903	1.422437	0.042254	1	1	7331 tags=62%, list=31%, signal=89%
0.606915	1.420582	0.053963	1	1	3520 tags=59%, list=15%, signal=69%
0.577177	1.419244	0.066318	1	1	4785 tags=56%, list=20%, signal=70%
0.5274	1.41806	0.086667	1	1	1710 tags=35%, list=7%, signal=38%
0.509406	1.417695	0.047022	1	1	3313 tags=47%, list=14%, signal=55%
0.646336	1.414467	0.08167	1	1	4486 tags=61%, list=19%, signal=75%
0.44695	1.413051	0.005146	1	1	3897 tags=41%, list=17%, signal=49%
0.494085	1.408886	0.029762	1	1	5291 tags=62%, list=23%, signal=80%
0.544234	1.40763	0.041958	1	1	5391 tags=63%, list=23%, signal=82%
0.602536	1.404729	0.085981	1	1	1236 tags=25%, list=5%, signal=26%
0.498275	1.401695	0.098993	1	1	3977 tags=38%, list=17%, signal=46%
0.523636	1.398434	0.102178	1	1	1313 tags=33%, list=6%, signal=35%
0.597964	1.395762	0.085859	1	1	4009 tags=50%, list=17%, signal=60%
0.517665	1.392352	0.056385	1	1	6598 tags=59%, list=28%, signal=82%
0.556331	1.391015	0.059701	1	1	2847 tags=34%, list=12%, signal=39%
0.483389	1.390908	0.086601	1	1	2417 tags=42%, list=10%, signal=47%
0.520025	1.390236	0.055133	1	1	1802 tags=32%, list=8%, signal=34%
0.527433	1.378759	0.094444	1	1	5673 tags=67%, list=24%, signal=88%
0.452378	1.378506	0.017065	1	1	3725 tags=41%, list=16%, signal=48%
0.644528	1.377772	0.146691	1	1	6320 tags=73%, list=27%, signal=99%
0.512538	1.376122	0.040541	1	1	6608 tags=59%, list=28%, signal=82%
0.580406	1.375183	0.134513	1	1	6560 tags=66%, list=28%, signal=91%
0.370577	1.37032	0.083607	1	1	4644 tags=38%, list=20%, signal=47%
0.489269	1.367954	0.150838	1	1	5807 tags=59%, list=25%, signal=78%
0.619253	1.367864	0.145129	1	1	4100 tags=47%, list=18%, signal=57%
0.433237	1.367752	0.047945	1	1	5487 tags=42%, list=23%, signal=55%
0.637017	1.366832	0.082192	1	1	3122 tags=41%, list=13%, signal=47%
0.477196	1.365899	0.052464	1	1	4737 tags=47%, list=20%, signal=58%
0.572904	1.362678	0.110294	1	1	6391 tags=61%, list=27%, signal=84%

0.505894	1.359484	0.089161	1	1	4008 tags=45%, list=17%, signal=54%
0.590537	1.357941	0.125461	1	1	3673 tags=60%, list=16%, signal=71%
0.40354	1.357871	0.02901	1	1	3233 tags=33%, list=14%, signal=39%
0.628716	1.357648	0.13447	1	1	4947 tags=47%, list=21%, signal=59%
0.546558	1.354487	0.086882	1	1	3725 tags=39%, list=16%, signal=46%
0.425918	1.351679	0.054795	1	1	3254 tags=38%, list=14%, signal=45%
0.491358	1.349196	0.156089	1	1	4708 tags=48%, list=20%, signal=59%
0.522608	1.347971	0.092496	1	1	3725 tags=42%, list=16%, signal=50%
0.496888	1.347184	0.15371	1	1	3536 tags=43%, list=15%, signal=51%
0.563286	1.343886	0.144246	1	1	5873 tags=63%, list=25%, signal=83%
0.49419	1.342458	0.094855	1	1	3496 tags=39%, list=15%, signal=46%
0.507774	1.341374	0.109244	1	1	4151 tags=45%, list=18%, signal=54%
0.513352	1.340498	0.089922	1	1	6304 tags=59%, list=27%, signal=81%
0.41168	1.339397	0.063574	1	1	5167 tags=49%, list=22%, signal=63%
0.425998	1.339114	0.103328	1	1	3368 tags=35%, list=14%, signal=41%
0.4086	1.335919	0.075286	1	1	4767 tags=41%, list=20%, signal=51%
0.404612	1.334177	0.055743	1	1	3647 tags=40%, list=16%, signal=48%
0.467583	1.329596	0.051887	1	1	6928 tags=52%, list=30%, signal=73%
0.450853	1.324943	0.172161	1	1	5590 tags=52%, list=24%, signal=68%
0.426247	1.324823	0.08121	1	1	2984 tags=33%, list=13%, signal=37%
0.563759	1.322628	0.132597	1	1	6412 tags=63%, list=27%, signal=86%
0.394216	1.32217	0.024038	1	1	5624 tags=47%, list=24%, signal=61%
0.492729	1.320863	0.108514	1	1	2932 tags=46%, list=13%, signal=53%
0.70448	1.319756	0.189139	1	1	5788 tags=85%, list=25%, signal=113%
0.437	1.319027	0.117537	1	1	4285 tags=33%, list=18%, signal=41%
0.665636	1.318543	0.191205	1	1	6392 tags=77%, list=27%, signal=106%
0.412273	1.315717	0.081129	1	1	3848 tags=39%, list=16%, signal=46%
0.410507	1.313461	0.120066	1	1	5796 tags=46%, list=25%, signal=62%
0.409899	1.313016	0.079861	1	1	4068 tags=33%, list=17%, signal=39%
0.458232	1.310551	0.141005	1	1	4991 tags=55%, list=21%, signal=69%
0.728193	1.308561	0.186508	1	1	4580 tags=80%, list=20%, signal=99%
0.474747	1.307475	0.055	1	1	3725 tags=43%, list=16%, signal=51%
0.594346	1.307417	0.180702	1	1	5796 tags=57%, list=25%, signal=75%
0.519234	1.30738	0.106646	1	1	5717 tags=63%, list=24%, signal=83%
0.565613	1.306791	0.151402	1	1	4702 tags=60%, list=20%, signal=75%
0.514219	1.305755	0.14733	1	1	3348 tags=42%, list=14%, signal=49%
0.459024	1.304135	0.100334	1	1	1937 tags=28%, list=8%, signal=30%
0.570925	1.303713	0.13059	1	1	7022 tags=68%, list=30%, signal=97%
0.679094	1.302692	0.22973	1	1	5246 tags=74%, list=22%, signal=96%
0.586319	1.301986	0.224335	1	1	7502 tags=70%, list=32%, signal=103%
0.505813	1.298351	0.083893	1	1	3725 tags=53%, list=16%, signal=63%
0.567611	1.296745	0.152364	1	1	7022 tags=70%, list=30%, signal=100%
0.407744	1.295323	0.051852	1	1	4193 tags=37%, list=18%, signal=45%
0.519816	1.293536	0.261818	1	1	5880 tags=50%, list=25%, signal=67%
0.420601	1.291432	0.144621	1	1	3602 tags=33%, list=15%, signal=39%
0.459948	1.290589	0.140962	1	1	2601 tags=32%, list=11%, signal=36%
0.403839	1.285979	0.108896	1	1	5868 tags=47%, list=25%, signal=63%
0.402873	1.285862	0.079872	1	1	3051 tags=26%, list=13%, signal=30%
0.416838	1.285383	0.06535	1	1	4038 tags=37%, list=17%, signal=44%
0.583336	1.284639	0.286252	1	1	5580 tags=63%, list=24%, signal=82%

0.432992	1.282703	0.101881	1	1	4358 tags=38%, list=19%, signal=46%
0.410841	1.281529	0.116883	1	1	3554 tags=37%, list=15%, signal=43%
0.705808	1.281031	0.225989	1	1	5182 tags=83%, list=22%, signal=106%
0.538319	1.280501	0.164602	1	1	6405 tags=72%, list=27%, signal=99%
0.524381	1.279896	0.171123	1	1	3921 tags=60%, list=17%, signal=72%
0.457433	1.279724	0.251838	1	1	5962 tags=51%, list=25%, signal=68%
0.445231	1.279227	0.199248	1	1	5348 tags=50%, list=23%, signal=64%
0.396857	1.277981	0.066919	1	1	1552 tags=27%, list=7%, signal=29%
0.473549	1.275229	0.139219	1	1	3082 tags=36%, list=13%, signal=42%
0.604926	1.27517	0.297989	1	1	5607 tags=67%, list=24%, signal=88%
0.430464	1.274636	0.11938	1	1	5501 tags=56%, list=23%, signal=73%
0.467474	1.274154	0.166362	1	1	5852 tags=60%, list=25%, signal=80%
0.390906	1.273772	0.117978	1	1	2654 tags=28%, list=11%, signal=32%
0.477035	1.272291	0.191829	1	1	6361 tags=57%, list=27%, signal=78%
0.578734	1.272157	0.363167	1	1	5880 tags=61%, list=25%, signal=82%
0.518779	1.271493	0.209262	1	1	4458 tags=55%, list=19%, signal=67%
0.355515	1.271427	0.056075	1	1	4412 tags=35%, list=19%, signal=43%
0.394554	1.271388	0.091772	1	1	3725 tags=34%, list=16%, signal=41%
0.455776	1.270634	0.207012	1	1	2712 tags=35%, list=12%, signal=40%
0.377884	1.269898	0.153014	1	1	5808 tags=53%, list=25%, signal=70%
0.604112	1.268078	0.3213	1	1	5607 tags=62%, list=24%, signal=81%
0.408191	1.266961	0.138632	1	1	6365 tags=58%, list=27%, signal=80%
0.466495	1.266311	0.150316	1	1	3342 tags=53%, list=14%, signal=62%
0.651398	1.266117	0.232824	1	1	7774 tags=88%, list=33%, signal=131%
0.411937	1.265937	0.150641	1	1	6866 tags=51%, list=29%, signal=71%
0.519848	1.264281	0.196565	1	1	2409 tags=38%, list=10%, signal=42%
0.629135	1.263555	0.265537	1	1	5857 tags=76%, list=25%, signal=102%
0.434749	1.259399	0.152685	1	1	2409 tags=30%, list=10%, signal=33%
0.488132	1.259005	0.197869	1	1	7092 tags=67%, list=30%, signal=96%
0.48515	1.258713	0.164983	1	1	1440 tags=29%, list=6%, signal=30%
0.358977	1.257662	0.118584	1	1	4410 tags=36%, list=19%, signal=44%
0.517125	1.254345	0.126488	1	1	7868 tags=79%, list=34%, signal=119%
0.477057	1.254021	0.179245	1	1	5531 tags=53%, list=24%, signal=69%
0.613452	1.252378	0.273256	1	1	7808 tags=86%, list=33%, signal=129%
0.408467	1.251862	0.20794	1	1	5776 tags=46%, list=25%, signal=61%
0.514729	1.251419	0.261682	1	1	3011 tags=38%, list=13%, signal=43%
0.564242	1.250853	0.328302	1	1	7330 tags=68%, list=31%, signal=99%
0.447135	1.250847	0.186087	1	1	6866 tags=48%, list=29%, signal=68%
0.412414	1.250538	0.172308	1	1	5831 tags=47%, list=25%, signal=63%
0.348667	1.250157	0.118297	1	1	4169 tags=37%, list=18%, signal=45%
0.423588	1.247696	0.248696	1	1	5612 tags=48%, list=24%, signal=62%
0.451088	1.247121	0.167752	1	1	2995 tags=40%, list=13%, signal=46%
0.70114	1.246304	0.271484	1	1	6320 tags=89%, list=27%, signal=122%
0.470192	1.245229	0.230038	1	1	4100 tags=36%, list=18%, signal=43%
0.438647	1.244253	0.182906	1	1	2030 tags=37%, list=9%, signal=40%
0.549855	1.243172	0.24552	1	1	6320 tags=53%, list=27%, signal=72%
0.547912	1.242036	0.286957	1	1	3326 tags=45%, list=14%, signal=53%
0.499567	1.241752	0.207207	1	1	2413 tags=35%, list=10%, signal=39%
0.331273	1.24104	0.097879	1	1	4600 tags=33%, list=20%, signal=41%
0.439716	1.239585	0.166189	1	1	6634 tags=60%, list=28%, signal=84%

0.557369	1.237357	0.259194	1	1	6591 tags=53%, list=28%, signal=74%
0.399471	1.235399	0.160494	1	1	2775 tags=32%, list=12%, signal=36%
0.68968	1.234324	0.281955	1	1	6320 tags=87%, list=27%, signal=119%
0.680822	1.232782	0.265469	1	1	5182 tags=80%, list=22%, signal=103%
0.564072	1.231775	0.254025	1	1	7358 tags=78%, list=31%, signal=113%
0.414692	1.231443	0.150165	1	1	5857 tags=48%, list=25%, signal=63%
0.607428	1.230416	0.259259	1	1	1754 tags=50%, list=7%, signal=54%
0.685963	1.230272	0.308958	1	1	5943 tags=76%, list=25%, signal=102%
0.349359	1.230058	0.154514	1	1	5540 tags=43%, list=24%, signal=56%
0.473755	1.229047	0.187994	1	1	5245 tags=48%, list=22%, signal=62%
0.358398	1.228789	0.076692	1	1	2738 tags=26%, list=12%, signal=29%
0.592587	1.228541	0.220826	1	1	6249 tags=60%, list=27%, signal=82%
0.494361	1.228057	0.216549	1	1	4628 tags=47%, list=20%, signal=59%
0.340199	1.226174	0.103093	1	1	3571 tags=30%, list=15%, signal=36%
0.436608	1.2256	0.207447	1	1	3320 tags=40%, list=14%, signal=47%
0.318149	1.225092	0.080357	1	1	3440 tags=29%, list=15%, signal=34%
0.454449	1.224878	0.181388	1	1	5813 tags=41%, list=25%, signal=55%
0.647665	1.22446	0.290385	1	1	5353 tags=73%, list=23%, signal=95%
0.429777	1.224425	0.246479	1	1	4575 tags=44%, list=20%, signal=55%
0.432742	1.224064	0.166667	1	1	4279 tags=51%, list=18%, signal=63%
0.497001	1.223812	0.226415	1	1	5283 tags=44%, list=23%, signal=57%
0.435023	1.223497	0.20177	1	1	2314 tags=33%, list=10%, signal=36%
0.596295	1.223472	0.243137	1	1	2110 tags=38%, list=9%, signal=42%
0.501734	1.221545	0.238434	1	1	5395 tags=47%, list=23%, signal=61%
0.372431	1.221539	0.131693	1	1	1187 tags=17%, list=5%, signal=18%
0.457459	1.221215	0.227826	1	1	7452 tags=71%, list=32%, signal=105%
0.475543	1.220373	0.245318	1	1	3739 tags=44%, list=16%, signal=52%
0.551999	1.220052	0.269231	1	1	6095 tags=58%, list=26%, signal=78%
0.556659	1.218188	0.370229	1	1	7330 tags=69%, list=31%, signal=99%
0.464778	1.216737	0.21777	1	1	5852 tags=56%, list=25%, signal=75%
0.443206	1.215202	0.255238	1	1	5167 tags=47%, list=22%, signal=60%
0.336857	1.214811	0.143564	1	1	4509 tags=31%, list=19%, signal=38%
0.30998	1.214508	0.082781	1	1	3171 tags=24%, list=14%, signal=28%
0.484837	1.214402	0.254937	1	1	5874 tags=55%, list=25%, signal=74%
0.425299	1.214235	0.18	1	1	2279 tags=30%, list=10%, signal=34%
0.503749	1.214147	0.269531	1	1	5900 tags=53%, list=25%, signal=70%
0.449031	1.213463	0.292035	1	1	6074 tags=50%, list=26%, signal=67%
0.513523	1.21279	0.202381	1	1	4886 tags=59%, list=21%, signal=75%
0.55594	1.211214	0.254753	1	1	7774 tags=79%, list=33%, signal=117%
0.387285	1.207764	0.175862	1	1	5882 tags=49%, list=25%, signal=65%
0.604051	1.207418	0.327715	1	1	5353 tags=66%, list=23%, signal=85%
0.362591	1.207005	0.195402	1	1	5555 tags=42%, list=24%, signal=55%
0.518108	1.20687	0.258348	1	1	5003 tags=47%, list=21%, signal=60%
0.354152	1.206425	0.229205	1	1	4333 tags=35%, list=19%, signal=43%
0.424994	1.206362	0.231579	1	1	5615 tags=52%, list=24%, signal=68%
0.427104	1.206191	0.245098	1	1	865 tags=20%, list=4%, signal=21%
0.465215	1.206021	0.213445	1	1	5838 tags=52%, list=25%, signal=69%
0.316379	1.205715	0.135621	1	1	2842 tags=24%, list=12%, signal=27%
0.472654	1.205243	0.274854	1	1	6866 tags=50%, list=29%, signal=71%
0.367313	1.205178	0.144781	1	1	5094 tags=34%, list=22%, signal=43%



0.370921	1.205075	0.18705	1	1	3361 tags=33%, list=14%, signal=39%
0.293494	1.204484	0.06266	1	1	4436 tags=32%, list=19%, signal=38%
0.436291	1.203899	0.19702	1	1	2795 tags=44%, list=12%, signal=50%
0.418164	1.203817	0.19376	1	1	92 tags=13%, list=0%, signal=13%
0.57496	1.202803	0.322404	1	1	7805 tags=78%, list=33%, signal=117%
0.518294	1.202452	0.314991	1	1	5718 tags=52%, list=24%, signal=69%
0.37098	1.202292	0.182131	1	1	6821 tags=50%, list=29%, signal=70%
0.384654	1.202075	0.178306	1	1	5831 tags=44%, list=25%, signal=58%
0.586221	1.201498	0.372477	1	1	4580 tags=63%, list=20%, signal=78%
0.442668	1.201305	0.220826	1	1	1496 tags=29%, list=6%, signal=31%
0.397084	1.199365	0.227907	1	1	4672 tags=43%, list=20%, signal=53%
0.407408	1.19883	0.193162	1	1	671 tags=18%, list=3%, signal=19%
0.307806	1.198478	0.103914	1	1	4483 tags=37%, list=19%, signal=46%
0.549074	1.196961	0.325279	1	1	5875 tags=65%, list=25%, signal=86%
0.419948	1.196957	0.155449	1	1	2816 tags=32%, list=12%, signal=36%
0.441004	1.196938	0.243243	1	1	5503 tags=46%, list=23%, signal=60%
0.338237	1.196729	0.129518	1	1	5717 tags=44%, list=24%, signal=58%
0.465772	1.196561	0.256778	1	1	4952 tags=52%, list=21%, signal=66%
0.439138	1.195811	0.208824	1	1	2145 tags=29%, list=9%, signal=31%
0.357766	1.192867	0.159057	1	1	1614 tags=28%, list=7%, signal=30%
0.40995	1.191819	0.268376	1	1	3631 tags=33%, list=16%, signal=39%
0.424315	1.191651	0.293624	1	1	6279 tags=59%, list=27%, signal=80%
0.433295	1.191449	0.300178	1	1	7525 tags=59%, list=32%, signal=87%
0.356367	1.190032	0.176471	1	1	4321 tags=39%, list=18%, signal=48%
0.496872	1.189727	0.328996	1	1	6137 tags=50%, list=26%, signal=68%
0.486747	1.189644	0.354015	1	1	5432 tags=52%, list=23%, signal=67%
0.423562	1.189334	0.187296	1	1	3725 tags=36%, list=16%, signal=43%
0.452406	1.189111	0.349177	1	1	5665 tags=52%, list=24%, signal=68%
0.335457	1.188544	0.176211	1	1	4647 tags=39%, list=20%, signal=49%
0.375859	1.18773	0.201493	1	1	3276 tags=31%, list=14%, signal=36%
0.390253	1.187169	0.193069	1	1	5643 tags=43%, list=24%, signal=57%
0.312322	1.186791	0.190549	1	1	5744 tags=41%, list=25%, signal=53%
0.387965	1.186491	0.180851	1	1	3878 tags=37%, list=17%, signal=44%
0.45445	1.185113	0.238422	1	1	1026 tags=22%, list=4%, signal=23%
0.528636	1.184873	0.258224	1	1	6612 tags=45%, list=28%, signal=63%
0.55079	1.183304	0.414159	1	1	5880 tags=56%, list=25%, signal=75%
0.376272	1.182667	0.172131	1	1	1442 tags=19%, list=6%, signal=20%
0.346912	1.180959	0.163328	1	1	6513 tags=45%, list=28%, signal=63%
0.455502	1.179856	0.269982	1	1	6006 tags=60%, list=26%, signal=81%
0.535355	1.17816	0.291727	1	1	6914 tags=71%, list=30%, signal=100%
0.346563	1.178012	0.197248	1	1	2798 tags=32%, list=12%, signal=36%
0.380119	1.176412	0.214176	1	1	4839 tags=43%, list=21%, signal=54%
0.378779	1.176121	0.226937	1	1	4489 tags=42%, list=19%, signal=52%
0.445435	1.175512	0.230384	1	1	5575 tags=55%, list=24%, signal=72%
0.505811	1.173893	0.278899	1	1	5993 tags=53%, list=26%, signal=71%
0.313882	1.173883	0.129679	1	1	794 tags=15%, list=3%, signal=16%
0.530161	1.172924	0.340824	1	1	6281 tags=60%, list=27%, signal=82%
0.345401	1.172685	0.201893	1	1	4338 tags=37%, list=19%, signal=45%
0.351913	1.17113	0.156442	1	1	1568 tags=22%, list=7%, signal=24%
0.523309	1.171056	0.263538	1	1	4233 tags=43%, list=18%, signal=52%

0.342939	1.170863	0.164521	1	1	2795 tags=27%, list=12%, signal=31%
0.34553	1.170851	0.232082	1	1	3320 tags=32%, list=14%, signal=36%
0.368859	1.170462	0.213333	1	1	4666 tags=37%, list=20%, signal=46%
0.341882	1.170287	0.206897	1	1	5675 tags=45%, list=24%, signal=59%
0.353037	1.169285	0.213166	1	1	5555 tags=42%, list=24%, signal=55%
0.504104	1.169249	0.256735	1	1	3432 tags=44%, list=15%, signal=52%
0.477836	1.169025	0.257749	1	1	6152 tags=43%, list=26%, signal=59%
0.482257	1.168065	0.373626	1	1	5880 tags=48%, list=25%, signal=64%
0.532591	1.168015	0.411321	1	1	7174 tags=62%, list=31%, signal=89%
0.349147	1.16762	0.181818	1	1	4641 tags=38%, list=20%, signal=47%
0.631825	1.167273	0.377863	1	1	7437 tags=78%, list=32%, signal=115%
0.561725	1.167192	0.338462	1	1	7358 tags=75%, list=31%, signal=109%
0.466296	1.16696	0.344643	1	1	5647 tags=59%, list=24%, signal=77%
0.506519	1.166306	0.296361	1	1	6840 tags=67%, list=29%, signal=94%
0.405596	1.166174	0.223333	1	1	3878 tags=40%, list=17%, signal=48%
0.33873	1.165922	0.232682	1	1	5615 tags=45%, list=24%, signal=59%
0.309707	1.165445	0.178849	1	1	3105 tags=27%, list=13%, signal=31%
0.475372	1.165083	0.294521	1	1	4478 tags=44%, list=19%, signal=54%
0.318972	1.16472	0.191395	1	1	5962 tags=45%, list=25%, signal=59%
0.549007	1.163082	0.3049	1	1	3667 tags=43%, list=16%, signal=51%
0.385059	1.162396	0.276423	1	1	6225 tags=51%, list=27%, signal=70%
0.416229	1.16225	0.248418	1	1	2270 tags=31%, list=10%, signal=35%
0.447231	1.161597	0.345283	1	1	6320 tags=53%, list=27%, signal=72%
0.344216	1.161354	0.249191	1	1	3993 tags=34%, list=17%, signal=40%
0.464086	1.161059	0.234589	1	1	2320 tags=26%, list=10%, signal=29%
0.391469	1.160768	0.231041	1	1	2966 tags=32%, list=13%, signal=36%
0.497711	1.159677	0.3	1	1	7448 tags=61%, list=32%, signal=90%
0.395448	1.158466	0.305357	1	1	5828 tags=53%, list=25%, signal=70%
0.434559	1.158255	0.277338	1	1	1277 tags=33%, list=5%, signal=35%
0.566468	1.15712	0.356239	1	1	6074 tags=53%, list=26%, signal=72%
0.541023	1.155604	0.33829	1	1	6914 tags=67%, list=30%, signal=94%
0.320704	1.155467	0.182222	1	1	3391 tags=35%, list=14%, signal=40%
0.392744	1.155467	0.249551	1	1	5930 tags=47%, list=25%, signal=62%
0.377768	1.155214	0.257475	1	1	4641 tags=44%, list=20%, signal=54%
0.381941	1.155125	0.250923	1	1	2590 tags=29%, list=11%, signal=32%
0.318983	1.154979	0.210435	1	1	5651 tags=41%, list=24%, signal=54%
0.603896	1.154793	0.334477	1	1	4761 tags=73%, list=20%, signal=92%
0.380659	1.153437	0.259615	1	1	5870 tags=47%, list=25%, signal=63%
0.500958	1.153187	0.353464	1	1	7774 tags=71%, list=33%, signal=106%
0.520322	1.153089	0.325714	1	1	5875 tags=58%, list=25%, signal=77%
0.484088	1.152804	0.345631	1	1	7559 tags=69%, list=32%, signal=102%
0.490847	1.152658	0.403738	1	1	4811 tags=49%, list=21%, signal=62%
0.410948	1.152334	0.246777	1	1	5426 tags=48%, list=23%, signal=62%
0.694712	1.152265	0.382692	1	1	5552 tags=78%, list=24%, signal=102%
0.518393	1.152193	0.377495	1	1	5246 tags=58%, list=22%, signal=75%
0.616338	1.151848	0.377691	1	1	4673 tags=71%, list=20%, signal=88%
0.34876	1.151725	0.214724	1	1	5880 tags=44%, list=25%, signal=58%
0.367725	1.151522	0.22292	1	1	2726 tags=30%, list=12%, signal=33%
0.48213	1.151265	0.325581	1	1	5875 tags=58%, list=25%, signal=77%
0.404657	1.151079	0.232278	1	1	2048 tags=41%, list=9%, signal=45%

0.350173	1.150957	0.275387	1	1	4641 tags=37%, list=20%, signal=46%
0.372561	1.150559	0.292064	1	1	5703 tags=50%, list=24%, signal=66%
0.326832	1.150247	0.195382	1	1	1959 tags=20%, list=8%, signal=22%
0.622363	1.149125	0.352294	1	1	5516 tags=56%, list=24%, signal=73%
0.434707	1.148351	0.379859	1	1	5962 tags=57%, list=25%, signal=76%
0.473028	1.147823	0.308348	1	1	2989 tags=30%, list=13%, signal=34%
0.295577	1.14733	0.15505	1	1	4238 tags=28%, list=18%, signal=34%
0.341811	1.147307	0.242089	1	1	3833 tags=32%, list=16%, signal=38%
0.304016	1.147272	0.247387	1	1	5442 tags=35%, list=23%, signal=45%
0.370517	1.146578	0.309603	1	1	6011 tags=52%, list=26%, signal=69%
0.559375	1.146435	0.379699	1	1	5861 tags=60%, list=25%, signal=80%
0.347727	1.144914	0.239063	1	1	4268 tags=39%, list=18%, signal=47%
0.299018	1.143734	0.188406	1	1	4183 tags=35%, list=18%, signal=42%
0.422921	1.143343	0.277865	1	1	2902 tags=38%, list=12%, signal=43%
0.538846	1.143153	0.36414	1	1	4560 tags=63%, list=19%, signal=78%
0.579687	1.142947	0.416507	1	1	7330 tags=72%, list=31%, signal=105%
0.422977	1.142236	0.295337	1	1	3419 tags=29%, list=15%, signal=34%
0.581549	1.142078	0.422349	1	1	7808 tags=79%, list=33%, signal=118%
0.425037	1.141577	0.360485	1	1	5918 tags=52%, list=25%, signal=69%
0.334312	1.140726	0.233279	1	1	6134 tags=44%, list=26%, signal=59%
0.488324	1.13976	0.32316	1	1	5719 tags=51%, list=24%, signal=68%
0.541028	1.138329	0.356164	1	1	8074 tags=68%, list=34%, signal=103%
0.337328	1.137824	0.283531	1	1	1766 tags=23%, list=8%, signal=25%
0.502693	1.137111	0.411335	1	1	6281 tags=61%, list=27%, signal=82%
0.351745	1.136738	0.283972	1	1	5899 tags=43%, list=25%, signal=58%
0.314568	1.136679	0.249164	1	1	2676 tags=20%, list=11%, signal=23%
0.481874	1.13652	0.355009	1	1	6539 tags=57%, list=28%, signal=78%
0.481412	1.136265	0.383636	1	1	6006 tags=59%, list=26%, signal=79%
0.577185	1.136073	0.358349	1	1	5571 tags=57%, list=24%, signal=74%
0.382357	1.135963	0.370236	1	1	5895 tags=44%, list=25%, signal=58%
0.53729	1.135358	0.4	1	1	4952 tags=57%, list=21%, signal=72%
0.413746	1.134798	0.362816	1	1	5855 tags=45%, list=25%, signal=59%
0.41364	1.133659	0.33211	1	1	5714 tags=41%, list=24%, signal=54%
0.489158	1.133642	0.366541	1	1	5026 tags=41%, list=21%, signal=52%
0.335732	1.132679	0.229277	1	1	3976 tags=36%, list=17%, signal=43%
0.395215	1.132407	0.253012	1	1	5651 tags=54%, list=24%, signal=71%
0.336262	1.131578	0.215625	1	1	6539 tags=43%, list=28%, signal=60%
0.386704	1.131309	0.298182	1	1	4519 tags=39%, list=19%, signal=49%
0.465071	1.13027	0.301109	1	1	5044 tags=50%, list=22%, signal=64%
0.385191	1.13022	0.287319	1	1	3415 tags=38%, list=15%, signal=44%
0.488971	1.129887	0.318482	1	1	7965 tags=45%, list=34%, signal=68%
0.546871	1.129463	0.38716	1	1	6500 tags=62%, list=28%, signal=85%
0.372695	1.128864	0.264085	1	1	2413 tags=21%, list=10%, signal=23%
0.412679	1.1288	0.344948	1	1	6849 tags=53%, list=29%, signal=75%
0.492783	1.128389	0.412587	1	1	7874 tags=67%, list=34%, signal=100%
0.36733	1.128198	0.261164	1	1	2015 tags=27%, list=9%, signal=30%
0.366057	1.128164	0.226974	1	1	1466 tags=25%, list=6%, signal=27%
0.356478	1.127595	0.241265	1	1	2733 tags=28%, list=12%, signal=32%
0.360763	1.127569	0.21626	1	1	3177 tags=34%, list=14%, signal=40%
0.532171	1.12667	0.427305	1	1	5880 tags=56%, list=25%, signal=74%

0.343431	1.126585	0.239812	1	1	5291 tags=36%, list=23%, signal=46%
0.343689	1.126559	0.2832	1	1	4641 tags=38%, list=20%, signal=47%
0.448868	1.12589	0.322148	1	1	5932 tags=61%, list=25%, signal=82%
0.308776	1.125588	0.250426	1	1	4945 tags=36%, list=21%, signal=45%
0.347341	1.125418	0.268489	1	1	6369 tags=49%, list=27%, signal=68%
0.429303	1.124524	0.348797	1	1	5952 tags=63%, list=25%, signal=84%
0.671154	1.124439	0.3583	1	1	6074 tags=69%, list=26%, signal=93%
0.354381	1.123786	0.258752	1	1	5428 tags=46%, list=23%, signal=60%
0.283413	1.123018	0.218155	1	1	5540 tags=34%, list=24%, signal=45%
0.291825	1.122872	0.172205	1	1	5544 tags=40%, list=24%, signal=52%
0.393856	1.122821	0.363793	1	1	4694 tags=41%, list=20%, signal=51%
0.316749	1.121934	0.304348	1	1	5426 tags=40%, list=23%, signal=51%
0.376265	1.121914	0.280936	1	1	2099 tags=24%, list=9%, signal=26%
0.493335	1.121603	0.409449	1	1	5788 tags=58%, list=25%, signal=77%
0.471102	1.120632	0.349727	1	1	6539 tags=57%, list=28%, signal=79%
0.406141	1.120197	0.268466	1	1	6462 tags=53%, list=28%, signal=73%
0.426194	1.120048	0.392857	1	1	5716 tags=42%, list=24%, signal=56%
0.494233	1.119687	0.407678	1	1	5428 tags=57%, list=23%, signal=74%
0.465071	1.119519	0.328302	1	1	6257 tags=46%, list=27%, signal=63%
0.447327	1.117703	0.316742	1	1	4627 tags=38%, list=20%, signal=47%
0.561691	1.115779	0.434211	1	1	7437 tags=67%, list=32%, signal=98%
0.353337	1.115538	0.285484	1	1	5219 tags=42%, list=22%, signal=54%
0.416682	1.115266	0.302491	1	1	2338 tags=29%, list=10%, signal=32%
0.557209	1.115221	0.398467	1	1	7453 tags=72%, list=32%, signal=106%
0.341146	1.115128	0.303544	1	1	3995 tags=35%, list=17%, signal=42%
0.557696	1.114614	0.424242	1	1	7847 tags=75%, list=34%, signal=113%
0.4815	1.114264	0.390019	1	1	5020 tags=45%, list=21%, signal=57%
0.378759	1.11363	0.357143	1	1	7033 tags=49%, list=30%, signal=69%
0.468996	1.113294	0.354955	1	1	5873 tags=53%, list=25%, signal=71%
0.424698	1.112694	0.373494	1	1	7792 tags=55%, list=33%, signal=82%
0.385342	1.112367	0.296684	1	1	3364 tags=29%, list=14%, signal=34%
0.392837	1.112222	0.355401	1	1	3330 tags=35%, list=14%, signal=40%
0.383097	1.111532	0.314516	1	1	4683 tags=44%, list=20%, signal=56%
0.544765	1.110977	0.451977	1	1	5552 tags=56%, list=24%, signal=73%
0.471512	1.109428	0.399635	1	1	5428 tags=54%, list=23%, signal=70%
0.358621	1.109373	0.2592	1	1	3415 tags=34%, list=15%, signal=40%
0.383631	1.107238	0.340909	1	1	1796 tags=25%, list=8%, signal=27%
0.445348	1.106882	0.374101	1	1	7502 tags=66%, list=32%, signal=96%
0.477409	1.106407	0.401852	1	1	5788 tags=58%, list=25%, signal=77%
0.300996	1.106201	0.281583	1	1	5860 tags=44%, list=25%, signal=58%
0.362407	1.105614	0.309859	1	1	5859 tags=50%, list=25%, signal=67%
0.335563	1.105579	0.316071	1	1	2145 tags=21%, list=9%, signal=24%
0.415246	1.104441	0.428319	1	1	7341 tags=57%, list=31%, signal=83%
0.319787	1.104296	0.335593	1	1	5971 tags=40%, list=25%, signal=53%
0.381886	1.103598	0.303704	1	1	2142 tags=30%, list=9%, signal=33%
0.405078	1.103468	0.329231	1	1	2761 tags=35%, list=12%, signal=40%
0.495353	1.103242	0.33279	1	1	1671 tags=40%, list=7%, signal=43%
0.314306	1.102811	0.267356	1	1	4074 tags=36%, list=17%, signal=43%
0.457315	1.102623	0.32963	1	1	7847 tags=64%, list=34%, signal=96%
0.304463	1.101854	0.254786	1	1	5482 tags=35%, list=23%, signal=46%

0.37011	1.100541	0.313916	1	1	4127 tags=41%, list=18%, signal=50%
0.447815	1.100527	0.359401	1	1	4630 tags=38%, list=20%, signal=47%
0.392342	1.100308	0.378378	1	1	5246 tags=44%, list=22%, signal=56%
0.423825	1.10022	0.393258	1	1	5899 tags=49%, list=25%, signal=65%
0.4348	1.100114	0.409253	1	1	6291 tags=56%, list=27%, signal=75%
0.354301	1.100113	0.345428	1	1	2338 tags=33%, list=10%, signal=37%
0.37587	1.099804	0.361624	1	1	4731 tags=41%, list=20%, signal=50%
0.4729	1.099163	0.406427	1	1	5719 tags=57%, list=24%, signal=75%
0.415842	1.098556	0.357274	1	1	3897 tags=36%, list=17%, signal=44%
0.305298	1.098105	0.280587	1	1	4896 tags=35%, list=21%, signal=44%
0.31581	1.097811	0.290476	1	1	6412 tags=46%, list=27%, signal=64%
0.40074	1.09668	0.32363	1	1	2792 tags=38%, list=12%, signal=43%
0.369127	1.096647	0.299342	1	1	3134 tags=26%, list=13%, signal=30%
0.418298	1.096094	0.391844	1	1	2972 tags=29%, list=13%, signal=33%
0.537307	1.095837	0.379576	1	1	6868 tags=76%, list=29%, signal=108%
0.294448	1.095347	0.272464	1	1	5418 tags=34%, list=23%, signal=44%
0.426683	1.0953	0.338409	1	1	2813 tags=28%, list=12%, signal=32%
0.409092	1.094987	0.404762	1	1	4329 tags=38%, list=18%, signal=46%
0.415436	1.094263	0.310236	1	1	5714 tags=46%, list=24%, signal=61%
0.30822	1.093985	0.281159	1	1	5715 tags=35%, list=24%, signal=47%
0.420716	1.0935	0.361818	1	1	6006 tags=45%, list=26%, signal=60%
0.498185	1.0919	0.434535	1	1	5607 tags=54%, list=24%, signal=70%
0.413494	1.091847	0.402647	1	1	5313 tags=43%, list=23%, signal=56%
0.440761	1.091777	0.360485	1	1	6612 tags=55%, list=28%, signal=76%
0.308853	1.091618	0.313433	1	1	2765 tags=28%, list=12%, signal=32%
0.415669	1.091041	0.398564	1	1	7204 tags=56%, list=31%, signal=81%
0.450623	1.090731	0.382671	1	1	4533 tags=44%, list=19%, signal=54%
0.397237	1.090085	0.344762	1	1	5884 tags=53%, list=25%, signal=71%
0.586693	1.089782	0.434363	1	1	7437 tags=72%, list=32%, signal=105%
0.446981	1.089274	0.366609	1	1	7255 tags=47%, list=31%, signal=68%
0.397415	1.088904	0.381679	1	1	6291 tags=49%, list=27%, signal=66%
0.547246	1.088204	0.450758	1	1	7865 tags=71%, list=34%, signal=106%
0.361632	1.08767	0.340909	1	1	1280 tags=18%, list=5%, signal=19%
0.357041	1.086995	0.300614	1	1	3725 tags=29%, list=16%, signal=34%
0.351718	1.086254	0.331126	1	1	5909 tags=46%, list=25%, signal=61%
0.330939	1.085494	0.324841	1	1	5717 tags=44%, list=24%, signal=58%
0.54348	1.084543	0.425183	1	1	6868 tags=66%, list=29%, signal=93%
0.374966	1.083941	0.314516	1	1	4494 tags=40%, list=19%, signal=49%
0.301239	1.08353	0.341385	1	1	6423 tags=38%, list=27%, signal=53%
0.444452	1.083197	0.332149	1	1	1396 tags=25%, list=6%, signal=27%
0.378978	1.082822	0.381555	1	1	3419 tags=27%, list=15%, signal=31%
0.335553	1.082738	0.311522	1	1	2902 tags=29%, list=12%, signal=33%
0.374391	1.08183	0.298555	1	1	3164 tags=24%, list=14%, signal=28%
0.324532	1.081633	0.361854	1	1	5915 tags=42%, list=25%, signal=56%
0.422086	1.08145	0.393414	1	1	2479 tags=29%, list=11%, signal=33%
0.401949	1.081184	0.420792	1	1	473 tags=16%, list=2%, signal=16%
0.368088	1.080802	0.342857	1	1	1313 tags=24%, list=6%, signal=26%
0.484053	1.080739	0.464491	1	1	7452 tags=64%, list=32%, signal=94%
0.472348	1.080598	0.415441	1	1	5428 tags=57%, list=23%, signal=74%
0.338383	1.080366	0.332797	1	1	5584 tags=42%, list=24%, signal=55%

0.418538	1.079854	0.358209	1	1	5872 tags=48%, list=25%, signal=64%
0.384745	1.079206	0.335453	1	1	5465 tags=38%, list=23%, signal=50%
0.307062	1.07902	0.279699	1	1	1898 tags=23%, list=8%, signal=25%
0.397684	1.078901	0.370618	1	1	5860 tags=46%, list=25%, signal=61%
0.31564	1.078598	0.304821	1	1	1581 tags=22%, list=7%, signal=24%
0.411382	1.078482	0.384083	1	1	2812 tags=35%, list=12%, signal=40%
0.354857	1.078053	0.311295	1	1	4573 tags=33%, list=20%, signal=41%
0.414948	1.077661	0.349291	1	1	9034 tags=74%, list=39%, signal=120%
0.333358	1.077527	0.31562	1	1	5941 tags=42%, list=25%, signal=57%
0.431063	1.077182	0.394654	1	1	5504 tags=52%, list=24%, signal=68%
0.354739	1.077112	0.359168	1	1	4706 tags=33%, list=20%, signal=40%
0.43067	1.076878	0.441989	1	1	5834 tags=58%, list=25%, signal=77%
0.359323	1.076604	0.322581	1	1	2692 tags=35%, list=11%, signal=39%
0.416658	1.076382	0.427562	1	1	5943 tags=50%, list=25%, signal=67%
0.293323	1.075535	0.305707	1	1	4953 tags=37%, list=21%, signal=47%
0.411003	1.075384	0.40884	1	1	5590 tags=50%, list=24%, signal=65%
0.313511	1.075344	0.328947	1	1	5796 tags=39%, list=25%, signal=52%
0.443118	1.075185	0.411559	1	1	5613 tags=54%, list=24%, signal=71%
0.419747	1.073459	0.396797	1	1	5352 tags=42%, list=23%, signal=54%
0.402805	1.073335	0.396022	1	1	5525 tags=47%, list=24%, signal=62%
0.588659	1.073014	0.478599	1	1	5861 tags=59%, list=25%, signal=78%
0.385889	1.072916	0.389073	1	1	5580 tags=44%, list=24%, signal=58%
0.317777	1.072821	0.326087	1	1	5933 tags=40%, list=25%, signal=54%
0.427037	1.072281	0.368507	1	1	7323 tags=58%, list=31%, signal=84%
0.390048	1.071995	0.344291	1	1	5483 tags=53%, list=23%, signal=70%
0.365921	1.071961	0.340807	1	1	1681 tags=29%, list=7%, signal=31%
0.484232	1.071842	0.436191	1	1	4926 tags=58%, list=21%, signal=73%
0.408945	1.070927	0.391304	1	1	5723 tags=51%, list=24%, signal=67%
0.462144	1.070851	0.412758	1	1	1071 tags=29%, list=5%, signal=31%
0.417838	1.070701	0.373188	1	1	6866 tags=53%, list=29%, signal=75%
0.454191	1.070613	0.378151	1	1	5245 tags=53%, list=22%, signal=68%
0.427336	1.069783	0.434856	1	1	7275 tags=63%, list=31%, signal=91%
0.512295	1.069638	0.431127	1	1	5880 tags=56%, list=25%, signal=74%
0.368144	1.069268	0.426386	1	1	4560 tags=37%, list=19%, signal=46%
0.453674	1.069165	0.394393	1	1	5956 tags=52%, list=25%, signal=70%
0.476588	1.069101	0.459459	1	1	7858 tags=71%, list=34%, signal=107%
0.489921	1.068841	0.424581	1	1	7147 tags=69%, list=31%, signal=99%
0.418725	1.067864	0.398998	1	1	6866 tags=61%, list=29%, signal=86%
0.350164	1.067016	0.315024	1	1	2381 tags=26%, list=10%, signal=29%
0.435686	1.066976	0.46223	1	1	5152 tags=40%, list=22%, signal=51%
0.33872	1.06697	0.343907	1	1	3254 tags=27%, list=14%, signal=32%
0.297422	1.066835	0.330159	1	1	2966 tags=30%, list=13%, signal=34%
0.31117	1.066724	0.33042	1	1	3759 tags=31%, list=16%, signal=37%
0.300568	1.066622	0.345178	1	1	5796 tags=33%, list=25%, signal=44%
0.2878	1.066257	0.333333	1	1	3610 tags=27%, list=15%, signal=32%
0.379252	1.066189	0.397554	1	1	5714 tags=52%, list=24%, signal=69%
0.547556	1.066033	0.439771	1	1	8050 tags=71%, list=34%, signal=108%
0.330299	1.065298	0.402337	1	1	2597 tags=26%, list=11%, signal=29%
0.367996	1.065146	0.424908	1	1	4351 tags=40%, list=19%, signal=49%
0.414914	1.064305	0.364452	1	1	4273 tags=50%, list=18%, signal=61%

0.366998	1.064125	0.335799	1	1	6234 tags=52%, list=27%, signal=70%
0.356546	1.063901	0.35625	1	1	3688 tags=35%, list=16%, signal=42%
0.365901	1.063606	0.440433	1	1	5208 tags=36%, list=22%, signal=46%
0.328307	1.062993	0.321377	1	1	2932 tags=29%, list=13%, signal=34%
0.394817	1.062756	0.37702	1	1	1116 tags=32%, list=5%, signal=33%
0.359716	1.062748	0.386023	1	1	3730 tags=42%, list=16%, signal=50%
0.396144	1.062629	0.410546	1	1	5324 tags=46%, list=23%, signal=59%
0.409195	1.061583	0.426497	1	1	5651 tags=51%, list=24%, signal=67%
0.347626	1.061425	0.396197	1	1	2738 tags=31%, list=12%, signal=35%
0.351086	1.06036	0.360555	1	1	2902 tags=26%, list=12%, signal=30%
0.363768	1.060015	0.437736	1	1	5835 tags=44%, list=25%, signal=58%
0.297678	1.059731	0.331316	1	1	3105 tags=29%, list=13%, signal=33%
0.455076	1.059081	0.401887	1	1	4694 tags=55%, list=20%, signal=69%
0.309899	1.058806	0.390119	1	1	4853 tags=35%, list=21%, signal=44%
0.454962	1.058738	0.434783	1	1	5788 tags=59%, list=25%, signal=79%
0.40543	1.058567	0.441392	1	1	5719 tags=39%, list=24%, signal=51%
0.460751	1.05852	0.456044	1	1	5930 tags=53%, list=25%, signal=70%
0.383363	1.057146	0.399648	1	1	2710 tags=33%, list=12%, signal=37%
0.319735	1.056809	0.35	1	1	5491 tags=42%, list=23%, signal=55%
0.350114	1.056719	0.362903	1	1	2813 tags=27%, list=12%, signal=31%
0.407349	1.056347	0.363782	1	1	6655 tags=62%, list=28%, signal=87%
0.311121	1.054603	0.341632	1	1	5020 tags=42%, list=21%, signal=53%
0.400433	1.053838	0.419411	1	1	6306 tags=44%, list=27%, signal=60%
0.484533	1.053752	0.423759	1	1	5880 tags=48%, list=25%, signal=64%
0.387149	1.053648	0.4304	1	1	2099 tags=31%, list=9%, signal=34%
0.562084	1.052491	0.448405	1	1	7019 tags=65%, list=30%, signal=92%
0.306583	1.051654	0.411003	1	1	5283 tags=40%, list=23%, signal=51%
0.292704	1.050986	0.346045	1	1	4514 tags=35%, list=19%, signal=43%
0.321146	1.050304	0.39469	1	1	2506 tags=26%, list=11%, signal=30%
0.319029	1.049977	0.368976	1	1	4704 tags=43%, list=20%, signal=54%
0.294567	1.048486	0.376033	1	1	5857 tags=52%, list=25%, signal=70%
0.262153	1.048369	0.332842	1	1	5540 tags=35%, list=24%, signal=45%
0.322525	1.0479	0.383178	1	1	4170 tags=25%, list=18%, signal=30%
0.334625	1.047173	0.349711	1	1	3403 tags=32%, list=15%, signal=38%
0.338759	1.046798	0.392157	1	1	6897 tags=54%, list=29%, signal=77%
0.372771	1.046512	0.389351	1	1	9034 tags=63%, list=39%, signal=102%
0.409174	1.046064	0.434109	1	1	7358 tags=56%, list=31%, signal=82%
0.373509	1.046043	0.383607	1	1	4457 tags=41%, list=19%, signal=51%
0.380142	1.045267	0.468966	1	1	5682 tags=46%, list=24%, signal=60%
0.358727	1.045057	0.421409	1	1	4627 tags=39%, list=20%, signal=49%
0.403783	1.044729	0.453782	1	1	6114 tags=59%, list=26%, signal=80%
0.258351	1.043858	0.326877	1	1	3777 tags=28%, list=16%, signal=33%
0.400287	1.040568	0.389134	1	1	2600 tags=40%, list=11%, signal=45%
0.479199	1.040459	0.434866	1	1	7046 tags=57%, list=30%, signal=81%
0.473476	1.040097	0.489796	1	1	4926 tags=57%, list=21%, signal=72%
0.266991	1.039382	0.335756	1	1	4775 tags=35%, list=20%, signal=43%
0.295086	1.038991	0.389231	1	1	4278 tags=28%, list=18%, signal=34%
0.300912	1.038368	0.393189	1	1	3478 tags=36%, list=15%, signal=42%
0.33153	1.037278	0.432039	1	1	3352 tags=37%, list=14%, signal=43%
0.346631	1.036639	0.438061	1	1	5378 tags=40%, list=23%, signal=51%

0.461952	1.03653	0.433645	1	1	5656 tags=56%, list=24%, signal=73%
0.377582	1.036344	0.425159	1	1	6316 tags=55%, list=27%, signal=76%
0.314839	1.036204	0.415842	1	1	2748 tags=30%, list=12%, signal=34%
0.290117	1.035672	0.390625	1	1	3035 tags=30%, list=13%, signal=34%
0.374484	1.035412	0.413194	1	1	917 tags=27%, list=4%, signal=28%
0.373173	1.035365	0.451043	1	1	1564 tags=29%, list=7%, signal=31%
0.347496	1.035138	0.463972	1	1	5329 tags=43%, list=23%, signal=56%
0.293907	1.034781	0.38307	1	1	5459 tags=40%, list=23%, signal=52%
0.469013	1.034635	0.435233	1	1	5673 tags=48%, list=24%, signal=63%
0.305085	1.034103	0.405899	1	1	4187 tags=31%, list=18%, signal=37%
0.452572	1.033946	0.401254	1	1	4068 tags=56%, list=17%, signal=67%
0.390697	1.033846	0.421442	1	1	3944 tags=35%, list=17%, signal=42%
0.411459	1.033448	0.463878	1	1	6010 tags=50%, list=26%, signal=67%
0.334004	1.033427	0.431062	1	1	3051 tags=26%, list=13%, signal=30%
0.331934	1.033025	0.399713	1	1	5522 tags=40%, list=24%, signal=52%
0.345712	1.032571	0.380719	1	1	4737 tags=37%, list=20%, signal=46%
0.328264	1.032351	0.385037	1	1	5790 tags=37%, list=25%, signal=49%
0.344261	1.031286	0.42978	1	1	5555 tags=40%, list=24%, signal=53%
0.334231	1.030393	0.447735	1	1	5445 tags=39%, list=23%, signal=51%
0.365194	1.030299	0.440536	1	1	4154 tags=38%, list=18%, signal=46%
0.371852	1.029949	0.40177	1	1	6291 tags=47%, list=27%, signal=64%
0.354349	1.029754	0.410959	1	1	4332 tags=32%, list=18%, signal=39%
0.371867	1.029706	0.398637	1	1	1844 tags=29%, list=8%, signal=31%
0.379126	1.029396	0.407609	1	1	4640 tags=41%, list=20%, signal=50%
0.257842	1.029205	0.405121	1	1	5540 tags=32%, list=24%, signal=41%
0.305872	1.028884	0.372488	1	1	6370 tags=44%, list=27%, signal=60%
0.351071	1.028381	0.427711	1	1	6304 tags=46%, list=27%, signal=63%
0.441118	1.027807	0.453532	1	1	2676 tags=36%, list=11%, signal=41%
0.297228	1.027798	0.483051	1	1	5859 tags=44%, list=25%, signal=58%
0.360449	1.027364	0.435154	1	1	4511 tags=39%, list=19%, signal=49%
0.3004	1.027038	0.427184	1	1	2612 tags=25%, list=11%, signal=28%
0.428361	1.026784	0.432971	1	1	6730 tags=64%, list=29%, signal=89%
0.30212	1.026276	0.406926	1	1	3366 tags=25%, list=14%, signal=29%
0.274486	1.026158	0.4304	1	1	3949 tags=29%, list=17%, signal=35%
0.35955	1.025709	0.419753	1	1	2816 tags=31%, list=12%, signal=35%
0.290205	1.025689	0.462633	1	1	5729 tags=37%, list=24%, signal=48%
0.293819	1.025132	0.403175	1	1	5882 tags=42%, list=25%, signal=56%
0.460879	1.02483	0.455535	1	1	7437 tags=67%, list=32%, signal=97%
0.401412	1.02469	0.485086	1	1	6214 tags=50%, list=27%, signal=68%
0.311307	1.024625	0.457143	1	1	1255 tags=17%, list=5%, signal=18%
0.36236	1.02436	0.437398	1	1	1829 tags=21%, list=8%, signal=23%
0.260092	1.023495	0.430894	1	1	4193 tags=30%, list=18%, signal=36%
0.365151	1.023142	0.423895	1	1	3072 tags=39%, list=13%, signal=45%
0.28716	1.02301	0.404946	1	1	4633 tags=35%, list=20%, signal=43%
0.291653	1.022475	0.443038	1	1	4628 tags=35%, list=20%, signal=43%
0.297487	1.022186	0.384071	1	1	4960 tags=36%, list=21%, signal=45%
0.516057	1.021433	0.474088	1	1	7858 tags=80%, list=34%, signal=120%
0.297814	1.0212	0.471025	1	1	4773 tags=36%, list=20%, signal=45%
0.263467	1.020896	0.470499	1	1	3276 tags=25%, list=14%, signal=29%
0.421085	1.020589	0.446203	1	1	5644 tags=53%, list=24%, signal=70%



0.353291	1.020499	0.410882	1	1	5952 tags=44%, list=25%, signal=58%
0.545205	1.020354	0.472119	1	1	8050 tags=63%, list=34%, signal=96%
0.387008	1.020338	0.466443	1	1	5895 tags=49%, list=25%, signal=65%
0.351869	1.019212	0.42	1	1	3918 tags=35%, list=17%, signal=42%
0.336724	1.018753	0.418519	1	1	4456 tags=37%, list=19%, signal=46%
0.260725	1.018685	0.402985	1	1	4217 tags=25%, list=18%, signal=31%
0.276546	1.018591	0.372828	1	1	4048 tags=28%, list=17%, signal=34%
0.33749	1.018335	0.433172	1	1	5044 tags=50%, list=22%, signal=64%
0.34139	1.018263	0.426104	1	1	4332 tags=32%, list=18%, signal=39%
0.428228	1.017721	0.464143	1	1	5312 tags=56%, list=23%, signal=73%
0.379979	1.01729	0.426288	1	1	1696 tags=24%, list=7%, signal=26%
0.309846	1.017258	0.427419	1	1	6082 tags=51%, list=26%, signal=69%
0.390172	1.01723	0.47193	1	1	4746 tags=30%, list=20%, signal=38%
0.315249	1.016961	0.40137	1	1	4978 tags=40%, list=21%, signal=51%
0.302832	1.016885	0.434535	1	1	3822 tags=27%, list=16%, signal=32%
0.483181	1.016289	0.510989	1	1	5551 tags=52%, list=24%, signal=68%
0.271218	1.015665	0.383046	1	1	4659 tags=34%, list=20%, signal=42%
0.419775	1.014104	0.436149	1	1	3631 tags=35%, list=16%, signal=42%
0.289665	1.014046	0.427019	1	1	6031 tags=46%, list=26%, signal=62%
0.248814	1.013881	0.459016	1	1	4511 tags=33%, list=19%, signal=40%
0.504348	1.013768	0.500956	1	1	7858 tags=73%, list=34%, signal=109%
0.415891	1.01365	0.455988	1	1	5671 tags=42%, list=24%, signal=56%
0.454859	1.013179	0.480519	1	1	7892 tags=65%, list=34%, signal=97%
0.322356	1.013174	0.414802	1	1	2249 tags=26%, list=10%, signal=29%
0.286644	1.012658	0.455099	1	1	5901 tags=38%, list=25%, signal=50%
0.290555	1.012492	0.438597	1	1	4509 tags=28%, list=19%, signal=35%
0.318364	1.012077	0.42576	1	1	4367 tags=24%, list=19%, signal=29%
0.42598	1.012049	0.490725	1	1	6022 tags=50%, list=26%, signal=67%
0.382673	1.011025	0.461268	1	1	5044 tags=45%, list=22%, signal=58%
0.279211	1.010827	0.441997	1	1	4271 tags=30%, list=18%, signal=37%
0.425477	1.010619	0.463221	1	1	7499 tags=53%, list=32%, signal=78%
0.246813	1.01022	0.45706	1	1	4727 tags=32%, list=20%, signal=39%
0.313243	1.010185	0.447552	1	1	6866 tags=48%, list=29%, signal=68%
0.284274	1.010035	0.442623	1	1	5925 tags=42%, list=25%, signal=55%
0.331452	1.009639	0.469218	1	1	5809 tags=36%, list=25%, signal=48%
0.39562	1.009512	0.474441	1	1	3500 tags=27%, list=15%, signal=32%
0.409597	1.009334	0.458633	1	1	7970 tags=62%, list=34%, signal=94%
0.409916	1.009165	0.454717	1	1	7147 tags=59%, list=31%, signal=84%
0.302705	1.009093	0.422059	1	1	626 tags=15%, list=3%, signal=15%
0.403084	1.008493	0.451078	1	1	2948 tags=33%, list=13%, signal=38%
0.496697	1.008327	0.496255	1	1	5353 tags=48%, list=23%, signal=61%
0.305701	1.00808	0.480865	1	1	2172 tags=22%, list=9%, signal=24%
0.37282	1.00777	0.469194	0.999578	1	2700 tags=35%, list=12%, signal=40%
0.352695	1.007768	0.476692	0.998035	1	5831 tags=48%, list=25%, signal=64%
0.350349	1.007131	0.435556	0.998703	1	4520 tags=43%, list=19%, signal=53%
0.300129	1.007062	0.424354	0.997362	1	3993 tags=30%, list=17%, signal=35%
0.347087	1.006295	0.457143	0.998368	1	2761 tags=21%, list=12%, signal=23%
0.299289	1.005945	0.460614	0.998009	1	2409 tags=22%, list=10%, signal=25%
0.350023	1.004652	0.483553	1	1	3633 tags=27%, list=16%, signal=32%
0.33705	1.003903	0.46568	1	1	6218 tags=46%, list=27%, signal=62%

0.369065	1.003796	0.440758	1	1	3567	tags=38%, list=15%, signal=45%
0.407223	1.003752	0.47099	0.998957	1	5530	tags=48%, list=24%, signal=63%
0.380549	1.002834	0.433962	1	1	5937	tags=48%, list=25%, signal=64%
0.34721	1.00235	0.471204	1	1	1094	tags=13%, list=5%, signal=13%
0.283521	1.002178	0.482143	0.999482	1	4144	tags=28%, list=18%, signal=34%
0.462098	1.002109	0.489362	0.998152	1	8098	tags=69%, list=35%, signal=106%
0.274115	1.00189	0.44152	0.997288	1	5671	tags=39%, list=24%, signal=52%
0.354146	1.001657	0.488688	0.996483	1	4770	tags=38%, list=20%, signal=47%
0.281138	1.001571	0.521886	0.99527	1	4643	tags=31%, list=20%, signal=38%
0.270037	1.001411	0.476268	0.994278	1	3495	tags=28%, list=15%, signal=32%
0.402221	0.999678	0.530097	0.998037	1	6282	tags=35%, list=27%, signal=47%
0.356738	0.999646	0.454254	0.996626	1	4081	tags=35%, list=17%, signal=42%
0.30394	0.998983	0.427083	0.997321	1	5882	tags=42%, list=25%, signal=56%
0.452201	0.998723	0.518304	0.996624	1	5962	tags=56%, list=25%, signal=74%
0.35964	0.99824	0.445098	0.996556	1	4388	tags=33%, list=19%, signal=41%
0.281782	0.997939	0.448175	0.995957	1	7324	tags=48%, list=31%, signal=69%
0.343196	0.997811	0.440177	0.99484	1	2996	tags=32%, list=13%, signal=37%
0.440107	0.997584	0.511236	0.994104	1	4802	tags=54%, list=21%, signal=68%
0.319536	0.997049	0.45283	0.99423	1	2913	tags=32%, list=12%, signal=36%
0.338124	0.996735	0.498141	0.993767	1	1037	tags=21%, list=4%, signal=22%
0.325324	0.996732	0.443995	0.992305	1	5906	tags=40%, list=25%, signal=54%
0.423454	0.996404	0.507576	0.992042	1	7335	tags=59%, list=31%, signal=86%
0.294043	0.996344	0.492832	0.990702	1	5865	tags=34%, list=25%, signal=45%
0.364289	0.994849	0.473384	0.993915	1	5324	tags=38%, list=23%, signal=48%
0.345717	0.994384	0.484375	0.993929	1	5803	tags=38%, list=25%, signal=51%
0.294242	0.993424	0.501385	0.995433	1	3488	tags=29%, list=15%, signal=34%
0.283368	0.99331	0.444785	0.994306	1	5474	tags=41%, list=23%, signal=52%
0.378516	0.99323	0.430451	0.993059	1	8065	tags=61%, list=34%, signal=92%
0.251384	0.993112	0.473227	0.991981	1	3579	tags=24%, list=15%, signal=28%
0.433236	0.993066	0.472546	0.990651	1	4358	tags=50%, list=19%, signal=61%
0.476286	0.993035	0.483696	0.9893	1	3944	tags=43%, list=17%, signal=51%
0.409893	0.992981	0.452007	0.987989	1	5558	tags=51%, list=24%, signal=67%
0.307555	0.992977	0.481422	0.98655	1	6023	tags=41%, list=26%, signal=55%
0.385611	0.992912	0.423645	0.985285	1	5283	tags=45%, list=23%, signal=58%
0.254892	0.992749	0.415435	0.984353	1	2920	tags=19%, list=12%, signal=22%
0.270547	0.992426	0.474662	0.983859	1	4556	tags=27%, list=19%, signal=33%
0.300553	0.991592	0.510938	0.984998	1	3276	tags=26%, list=14%, signal=30%
0.31849	0.991583	0.468582	0.9836	1	3978	tags=33%, list=17%, signal=39%
0.298272	0.990529	0.496644	0.985614	1	5533	tags=36%, list=24%, signal=47%
0.290931	0.989956	0.50487	0.98603	1	5882	tags=38%, list=25%, signal=50%
0.413489	0.989741	0.50099	0.98524	1	6010	tags=50%, list=26%, signal=66%
0.344332	0.98932	0.44702	0.984992	1	4378	tags=32%, list=19%, signal=40%
0.392355	0.988988	0.493827	0.984712	1	6392	tags=57%, list=27%, signal=78%
0.343103	0.988856	0.490909	0.983661	1	2099	tags=24%, list=9%, signal=26%
0.330306	0.988411	0.433099	0.983591	1	4008	tags=29%, list=17%, signal=34%
0.334863	0.988301	0.481766	0.982521	1	5590	tags=39%, list=24%, signal=51%
0.262176	0.987991	0.478708	0.982089	1	2785	tags=23%, list=12%, signal=26%
0.379456	0.98795	0.49913	0.980785	1	7439	tags=43%, list=32%, signal=63%
0.530674	0.987872	0.61062	0.97958	1	6699	tags=47%, list=29%, signal=66%
0.320906	0.987661	0.462366	0.978795	1	3721	tags=37%, list=16%, signal=44%

0.45504	0.987016	0.518382	0.979388	1	5564 tags=53%, list=24%, signal=69%
0.244991	0.986565	0.490446	0.979418	1	3225 tags=22%, list=14%, signal=25%
0.261512	0.986444	0.522124	0.978392	1	4863 tags=30%, list=21%, signal=37%
0.355023	0.986358	0.512368	0.977366	1	3945 tags=44%, list=17%, signal=53%
0.308239	0.985929	0.482549	0.97731	1	3366 tags=31%, list=14%, signal=36%
0.254851	0.985786	0.450464	0.976352	1	5925 tags=37%, list=25%, signal=49%
0.262462	0.985513	0.537748	0.975835	1	4127 tags=30%, list=18%, signal=36%
0.275437	0.985216	0.424497	0.975278	1	4694 tags=32%, list=20%, signal=40%
0.347684	0.985196	0.440959	0.973946	1	5701 tags=41%, list=24%, signal=53%
0.313958	0.985185	0.447109	0.972604	1	5595 tags=42%, list=24%, signal=55%
0.416393	0.98506	0.438938	0.971634	1	3638 tags=39%, list=16%, signal=46%
0.293433	0.984674	0.533646	0.971327	1	2506 tags=25%, list=11%, signal=28%
0.35674	0.984132	0.55719	0.971486	1	5762 tags=50%, list=25%, signal=66%
0.363073	0.983295	0.461661	0.972589	1	3288 tags=29%, list=14%, signal=34%
0.315795	0.983059	0.445765	0.971919	1	1898 tags=19%, list=8%, signal=21%
0.299695	0.98304	0.467456	0.970604	1	4892 tags=39%, list=21%, signal=49%
0.479937	0.982985	0.513812	0.969443	1	5152 tags=50%, list=22%, signal=64%
0.377299	0.982766	0.502732	0.968713	1	4365 tags=39%, list=19%, signal=47%
0.429575	0.982585	0.50289	0.967886	1	6500 tags=49%, list=28%, signal=68%
0.378156	0.982498	0.486903	0.966865	1	1864 tags=29%, list=8%, signal=31%
0.408531	0.982161	0.485507	0.966583	1	5834 tags=56%, list=25%, signal=74%
0.305153	0.982008	0.51772	0.965641	1	4443 tags=34%, list=19%, signal=42%
0.244768	0.981706	0.517241	0.965184	1	4097 tags=28%, list=17%, signal=33%
0.431606	0.981534	0.539197	0.964314	1	5003 tags=43%, list=21%, signal=55%
0.370514	0.98118	0.460548	0.963981	1	7805 tags=57%, list=33%, signal=85%
0.24767	0.980659	0.482659	0.964152	1	4741 tags=30%, list=20%, signal=37%
0.353673	0.98051	0.475836	0.963231	1	1281 tags=24%, list=5%, signal=25%
0.292676	0.979899	0.479263	0.963849	1	5607 tags=40%, list=24%, signal=53%
0.396237	0.97981	0.519504	0.962791	1	4816 tags=48%, list=21%, signal=60%
0.496835	0.97944	0.598862	0.96258	1	7508 tags=83%, list=32%, signal=123%
0.251537	0.979178	0.551247	0.962084	1	3579 tags=25%, list=15%, signal=29%
0.428622	0.978363	0.522769	0.963353	1	5020 tags=46%, list=21%, signal=59%
0.338684	0.977928	0.504188	0.963405	1	5095 tags=47%, list=22%, signal=60%
0.382929	0.977702	0.511927	0.962672	1	5869 tags=45%, list=25%, signal=59%
0.234354	0.977211	0.530643	0.962778	1	4201 tags=26%, list=18%, signal=32%
0.349054	0.976493	0.499127	0.963376	1	3188 tags=33%, list=14%, signal=39%
0.280103	0.976179	0.539342	0.963006	1	2960 tags=25%, list=13%, signal=29%
0.30932	0.975944	0.445351	0.96241	1	4896 tags=35%, list=21%, signal=44%
0.338927	0.975801	0.468852	0.961548	1	5094 tags=39%, list=22%, signal=50%
0.51108	0.975615	0.573077	0.960844	1	7358 tags=67%, list=31%, signal=97%
0.270623	0.97491	0.428816	0.961651	1	5573 tags=37%, list=24%, signal=48%
0.360851	0.97485	0.508943	0.96054	1	2597 tags=28%, list=11%, signal=31%
0.365136	0.97476	0.488889	0.959548	1	5020 tags=40%, list=21%, signal=51%
0.424427	0.974414	0.510358	0.959179	1	5607 tags=56%, list=24%, signal=74%
0.388928	0.973929	0.489399	0.95931	1	5532 tags=46%, list=24%, signal=60%
0.353516	0.973928	0.471795	0.958031	1	4726 tags=39%, list=20%, signal=49%
0.336096	0.971847	0.503247	0.962664	1	4217 tags=40%, list=18%, signal=48%
0.289586	0.971626	0.4375	0.962023	1	3842 tags=30%, list=16%, signal=36%
0.366184	0.971346	0.522642	0.961537	1	6280 tags=47%, list=27%, signal=64%
0.35742	0.971005	0.507132	0.961292	1	3129 tags=30%, list=13%, signal=34%

0.352896	0.970958	0.500907	0.960161	1	3162 tags=30%, list=14%, signal=35%
0.3994	0.970901	0.489362	0.95912	1	6868 tags=72%, list=29%, signal=102%
0.303195	0.970273	0.540115	0.959538	1	4004 tags=32%, list=17%, signal=38%
0.277458	0.970258	0.533813	0.958304	1	5993 tags=43%, list=26%, signal=57%
0.271082	0.969748	0.530142	0.958564	1	2676 tags=19%, list=11%, signal=21%
0.318287	0.968973	0.488487	0.959521	1	3469 tags=33%, list=15%, signal=38%
0.360927	0.967834	0.503852	0.961504	1	5370 tags=35%, list=23%, signal=45%
0.386244	0.967808	0.515548	0.960341	1	4926 tags=50%, list=21%, signal=63%
0.510428	0.967663	0.567669	0.959497	1	10207 tags=84%, list=44%, signal=149%
0.285211	0.967622	0.51436	0.958378	1	5430 tags=38%, list=23%, signal=49%
0.330112	0.967205	0.524476	0.95827	1	4766 tags=38%, list=20%, signal=48%
0.329727	0.966787	0.553655	0.958088	1	5565 tags=47%, list=24%, signal=62%
0.336313	0.966718	0.458763	0.957064	1	3777 tags=26%, list=16%, signal=32%
0.421915	0.966632	0.5	0.956086	1	6213 tags=54%, list=27%, signal=74%
0.327376	0.966476	0.499044	0.955295	1	4334 tags=36%, list=19%, signal=44%
0.2656	0.966468	0.609023	0.954058	1	3503 tags=25%, list=15%, signal=29%
0.309779	0.966373	0.533784	0.953075	1	4638 tags=35%, list=20%, signal=43%
0.370612	0.965859	0.495033	0.953168	1	6368 tags=42%, list=27%, signal=58%
0.297999	0.965628	0.52	0.952565	1	4038 tags=37%, list=17%, signal=45%
0.344338	0.964945	0.508604	0.953235	1	2502 tags=33%, list=11%, signal=37%
0.304761	0.964803	0.493716	0.952435	1	3737 tags=30%, list=16%, signal=36%
0.331654	0.964599	0.495327	0.951833	1	3788 tags=37%, list=16%, signal=44%
0.353399	0.96436	0.522073	0.951264	1	5020 tags=34%, list=21%, signal=44%
0.285495	0.964061	0.535771	0.950889	1	5537 tags=36%, list=24%, signal=48%
0.380462	0.962942	0.49639	0.953003	1	3667 tags=34%, list=16%, signal=41%
0.273808	0.96227	0.509589	0.953695	1	3808 tags=32%, list=16%, signal=38%
0.238291	0.961172	0.518836	0.955454	1	4308 tags=24%, list=18%, signal=29%
0.430028	0.961045	0.530075	0.954544	1	5962 tags=54%, list=25%, signal=71%
0.383298	0.960337	0.474954	0.95525	1	7718 tags=58%, list=33%, signal=86%
0.352311	0.959898	0.524074	0.955255	1	2371 tags=30%, list=10%, signal=34%
0.265931	0.95967	0.505376	0.95468	1	4441 tags=32%, list=19%, signal=39%
0.378325	0.958629	0.565436	0.956178	1	435 tags=14%, list=2%, signal=15%
0.430905	0.958531	0.559265	0.955219	1	6188 tags=43%, list=26%, signal=58%
0.322313	0.958487	0.462712	0.954107	1	3026 tags=29%, list=13%, signal=33%
0.400444	0.958426	0.552511	0.953059	1	3342 tags=35%, list=14%, signal=41%
0.296841	0.958058	0.561482	0.952873	1	4591 tags=40%, list=20%, signal=50%
0.297807	0.957681	0.493789	0.952646	1	5933 tags=45%, list=25%, signal=60%
0.273081	0.957519	0.485207	0.95191	1	3512 tags=27%, list=15%, signal=32%
0.325856	0.957475	0.536082	0.95087	1	4534 tags=40%, list=19%, signal=50%
0.245295	0.95744	0.60469	0.949767	1	4597 tags=25%, list=20%, signal=31%
0.256501	0.956137	0.556985	0.952308	1	3547 tags=24%, list=15%, signal=29%
0.373749	0.955975	0.48474	0.951613	1	5238 tags=41%, list=22%, signal=52%
0.358358	0.955805	0.487319	0.950914	1	5962 tags=46%, list=25%, signal=62%
0.238758	0.955772	0.635071	0.949836	1	4720 tags=29%, list=20%, signal=36%
0.361292	0.955342	0.49262	0.949966	1	6421 tags=46%, list=27%, signal=64%
0.30861	0.95471	0.566553	0.9504	1	1862 tags=17%, list=8%, signal=18%
0.26794	0.954276	0.533981	0.950401	1	4338 tags=34%, list=19%, signal=42%
0.315348	0.954086	0.576976	0.949717	1	3521 tags=32%, list=15%, signal=37%
0.317451	0.953942	0.525	0.948937	1	6369 tags=53%, list=27%, signal=72%
0.281915	0.953685	0.568628	0.948377	1	4125 tags=33%, list=18%, signal=40%

0.381503	0.953155	0.53578	0.948505	1	5246 tags=56%, list=22%, signal=73%
0.436542	0.952852	0.518095	0.948148	1	5580 tags=50%, list=24%, signal=65%
0.314904	0.952697	0.512563	0.947422	1	2470 tags=31%, list=11%, signal=34%
0.243657	0.952577	0.511327	0.946621	1	5140 tags=31%, list=22%, signal=39%
0.315165	0.952549	0.563218	0.945515	1	2375 tags=27%, list=10%, signal=30%
0.315621	0.952534	0.502075	0.944391	1	3381 tags=21%, list=14%, signal=25%
0.401258	0.951987	0.536585	0.944673	1	5777 tags=46%, list=25%, signal=61%
0.355585	0.951782	0.546945	0.944052	1	3705 tags=36%, list=16%, signal=42%
0.263623	0.951686	0.606232	0.94315	1	2619 tags=21%, list=11%, signal=23%
0.369843	0.951544	0.547107	0.942407	1	6416 tags=49%, list=27%, signal=67%
0.305761	0.951496	0.54359	0.941368	1	4683 tags=39%, list=20%, signal=48%
0.448495	0.949542	0.558394	0.945762	1	5020 tags=48%, list=21%, signal=61%
0.291958	0.949311	0.535354	0.945238	1	4993 tags=35%, list=21%, signal=44%
0.356617	0.949177	0.591837	0.944439	1	3360 tags=34%, list=14%, signal=40%
0.319531	0.949152	0.578773	0.943358	1	3576 tags=29%, list=15%, signal=34%
0.369076	0.949033	0.570988	0.942561	1	2466 tags=31%, list=11%, signal=35%
0.3531	0.948908	0.519481	0.94174	1	4773 tags=38%, list=20%, signal=48%
0.348734	0.948752	0.502982	0.941013	1	4100 tags=36%, list=18%, signal=43%
0.409176	0.94834	0.52552	0.940934	1	4802 tags=51%, list=21%, signal=64%
0.361238	0.948129	0.537477	0.9404	1	3148 tags=31%, list=13%, signal=36%
0.340233	0.947613	0.562271	0.940633	1	1387 tags=20%, list=6%, signal=21%
0.358307	0.947441	0.572289	0.93993	1	6909 tags=50%, list=30%, signal=71%
0.253918	0.947125	0.524194	0.939605	1	2739 tags=22%, list=12%, signal=25%
0.269802	0.946916	0.6048	0.939001	1	3725 tags=27%, list=16%, signal=32%
0.398158	0.946884	0.550373	0.93796	1	5152 tags=35%, list=22%, signal=45%
0.445462	0.946031	0.547349	0.939058	1	6095 tags=52%, list=26%, signal=70%
0.478172	0.944638	0.647482	0.941756	1	5859 tags=56%, list=25%, signal=75%
0.305024	0.94416	0.500778	0.941758	1	6423 tags=44%, list=27%, signal=61%
0.317715	0.94379	0.531746	0.941609	1	3759 tags=30%, list=16%, signal=36%
0.229119	0.943328	0.680481	0.941755	1	6051 tags=35%, list=26%, signal=47%
0.327661	0.943195	0.556688	0.940916	1	4672 tags=35%, list=20%, signal=44%
0.327799	0.943052	0.566973	0.940172	1	2664 tags=22%, list=11%, signal=25%
0.405292	0.942989	0.548944	0.939217	1	2484 tags=33%, list=11%, signal=36%
0.255143	0.942557	0.522152	0.939164	1	5930 tags=38%, list=25%, signal=50%
0.273689	0.942135	0.563718	0.939264	1	5705 tags=39%, list=24%, signal=52%
0.32839	0.942091	0.571429	0.938238	1	3044 tags=29%, list=13%, signal=33%
0.287112	0.941923	0.519562	0.93755	1	5573 tags=52%, list=24%, signal=69%
0.429629	0.941661	0.545794	0.937104	1	3851 tags=32%, list=16%, signal=38%
0.264829	0.940684	0.583861	0.93859	1	4008 tags=30%, list=17%, signal=36%
0.253417	0.939698	0.557692	0.940073	1	5857 tags=39%, list=25%, signal=51%
0.363854	0.939572	0.505597	0.93931	1	5903 tags=46%, list=25%, signal=61%
0.287115	0.939479	0.618026	0.938467	1	5473 tags=47%, list=23%, signal=61%
0.276999	0.939311	0.598291	0.937719	1	3133 tags=27%, list=13%, signal=31%
0.317117	0.93834	0.580938	0.939116	1	5272 tags=40%, list=23%, signal=52%
0.311908	0.937988	0.613057	0.938917	1	6314 tags=47%, list=27%, signal=64%
0.264758	0.937866	0.601969	0.938136	1	5761 tags=37%, list=25%, signal=49%
0.261151	0.93732	0.616242	0.9384	1	2974 tags=22%, list=13%, signal=25%
0.237291	0.937261	0.6277	0.937436	1	5283 tags=34%, list=23%, signal=43%
0.315562	0.937164	0.590529	0.936624	1	5717 tags=41%, list=24%, signal=54%
0.279555	0.936614	0.553448	0.936953	1	2566 tags=21%, list=11%, signal=23%

0.355047	0.935952	0.508197	0.937476	1	6914 tags=52%, list=30%, signal=74%
0.285049	0.935183	0.545603	0.938304	1	3739 tags=26%, list=16%, signal=31%
0.318648	0.934756	0.551089	0.938274	1	2618 tags=24%, list=11%, signal=28%
0.306239	0.933875	0.701062	0.939327	1	3132 tags=31%, list=13%, signal=36%
0.273806	0.933758	0.62064	0.93854	1	5169 tags=35%, list=22%, signal=45%
0.377308	0.933699	0.584939	0.937599	1	5907 tags=40%, list=25%, signal=53%
0.343793	0.933675	0.568218	0.936592	1	2470 tags=27%, list=11%, signal=30%
0.293464	0.933264	0.605096	0.936629	1	2101 tags=14%, list=9%, signal=16%
0.235292	0.933152	0.613162	0.935814	1	4665 tags=29%, list=20%, signal=36%
0.291892	0.932593	0.511265	0.936241	1	2782 tags=29%, list=12%, signal=33%
0.503198	0.932537	0.567362	0.935305	1	5152 tags=53%, list=22%, signal=68%
0.400348	0.930924	0.64526	0.93835	1	5809 tags=56%, list=25%, signal=74%
0.309552	0.930476	0.574766	0.938531	1	7275 tags=49%, list=31%, signal=70%
0.280605	0.930461	0.59271	0.937495	1	2842 tags=21%, list=12%, signal=24%
0.380197	0.93031	0.54461	0.936758	1	5391 tags=47%, list=23%, signal=61%
0.285136	0.929822	0.625592	0.936831	1	2738 tags=21%, list=12%, signal=24%
0.305391	0.928356	0.544839	0.939577	1	3739 tags=29%, list=16%, signal=35%
0.315498	0.928163	0.50478	0.939042	1	3533 tags=23%, list=15%, signal=27%
0.432618	0.927705	0.564576	0.939146	1	6277 tags=62%, list=27%, signal=85%
0.310177	0.927371	0.529963	0.938945	1	2722 tags=27%, list=12%, signal=30%
0.271211	0.926596	0.590379	0.939921	1	3424 tags=26%, list=15%, signal=30%
0.324092	0.92631	0.609023	0.939541	1	4344 tags=31%, list=19%, signal=39%
0.302777	0.92564	0.606876	0.94014	1	3386 tags=30%, list=14%, signal=35%
0.358514	0.925563	0.569966	0.939266	1	6582 tags=47%, list=28%, signal=65%
0.284328	0.925193	0.604134	0.93904	1	5882 tags=43%, list=25%, signal=58%
0.242837	0.924332	0.545317	0.940115	1	4109 tags=28%, list=18%, signal=33%
0.455857	0.92415	0.616056	0.939522	1	5283 tags=53%, list=23%, signal=69%
0.406549	0.923826	0.582721	0.93938	1	7093 tags=58%, list=30%, signal=84%
0.332882	0.923714	0.533088	0.938572	1	4694 tags=35%, list=20%, signal=43%
0.252215	0.923121	0.699115	0.938979	1	3883 tags=28%, list=17%, signal=33%
0.281658	0.921983	0.59633	0.940742	1	3675 tags=29%, list=16%, signal=34%
0.27039	0.921949	0.554577	0.939769	1	5770 tags=35%, list=25%, signal=47%
0.282308	0.921883	0.602787	0.938854	1	2736 tags=20%, list=12%, signal=23%
0.239656	0.921349	0.659864	0.939102	1	5908 tags=37%, list=25%, signal=49%
0.326856	0.920565	0.553704	0.939956	1	3072 tags=30%, list=13%, signal=35%
0.290106	0.920289	0.613846	0.939544	1	3184 tags=21%, list=14%, signal=25%
0.27526	0.919843	0.561567	0.939565	1	7299 tags=44%, list=31%, signal=64%
0.319941	0.91851	0.564338	0.941777	1	5884 tags=40%, list=25%, signal=53%
0.480036	0.918187	0.573801	0.941562	1	8050 tags=77%, list=34%, signal=118%
0.292975	0.917868	0.563973	0.941394	1	6171 tags=48%, list=26%, signal=66%
0.284941	0.917329	0.599026	0.941701	1	1732 tags=19%, list=7%, signal=21%
0.26809	0.917193	0.536458	0.94101	1	3161 tags=26%, list=13%, signal=30%
0.390511	0.916457	0.619211	0.941861	1	4625 tags=40%, list=20%, signal=50%
0.400406	0.915962	0.576655	0.942082	1	6004 tags=52%, list=26%, signal=70%
0.317199	0.915956	0.6	0.941043	1	2568 tags=23%, list=11%, signal=26%
0.290559	0.915667	0.624782	0.940643	1	3368 tags=26%, list=14%, signal=31%
0.31783	0.915365	0.588015	0.940351	1	7198 tags=60%, list=31%, signal=87%
0.343599	0.915317	0.622793	0.939433	1	4562 tags=37%, list=19%, signal=46%
0.389297	0.914842	0.569498	0.939609	1	7899 tags=61%, list=34%, signal=91%
0.235059	0.914774	0.698217	0.938712	1	2853 tags=21%, list=12%, signal=23%

0.238671	0.914594	0.728045	0.938096	1	5785 tags=35%, list=25%, signal=46%
0.349225	0.914319	0.582011	0.93777	1	4887 tags=52%, list=21%, signal=65%
0.272432	0.914048	0.547025	0.937355	1	5787 tags=37%, list=25%, signal=48%
0.270145	0.913842	0.571906	0.936902	1	5857 tags=39%, list=25%, signal=52%
0.314668	0.912768	0.583333	0.93867	1	1277 tags=20%, list=5%, signal=21%
0.28182	0.91249	0.578231	0.938342	1	3041 tags=25%, list=13%, signal=28%
0.252475	0.912197	0.632964	0.937996	1	5847 tags=39%, list=25%, signal=52%
0.340037	0.911818	0.5681	0.937944	1	3978 tags=38%, list=17%, signal=45%
0.366657	0.911616	0.548701	0.937443	1	5564 tags=46%, list=24%, signal=60%
0.356405	0.911329	0.525755	0.937173	1	5178 tags=52%, list=22%, signal=67%
0.403283	0.911285	0.61426	0.936252	1	5152 tags=40%, list=22%, signal=51%
0.35009	0.910881	0.587931	0.936178	1	7038 tags=60%, list=30%, signal=86%
0.385089	0.91068	0.547619	0.935589	1	5580 tags=47%, list=24%, signal=61%
0.29908	0.909871	0.526126	0.936471	1	5877 tags=39%, list=25%, signal=52%
0.292277	0.909791	0.638261	0.935661	1	4404 tags=36%, list=19%, signal=44%
0.269072	0.909774	0.605128	0.93468	1	5133 tags=34%, list=22%, signal=44%
0.398948	0.909381	0.57393	0.93464	1	5482 tags=48%, list=23%, signal=63%
0.332271	0.909259	0.566667	0.933967	1	5802 tags=40%, list=25%, signal=53%
0.309508	0.908752	0.568421	0.934164	1	8033 tags=58%, list=34%, signal=88%
0.346189	0.908635	0.597956	0.933412	1	2594 tags=31%, list=11%, signal=35%
0.379491	0.908286	0.550285	0.933275	1	5952 tags=47%, list=25%, signal=62%
0.332708	0.90803	0.616613	0.932925	1	6491 tags=50%, list=28%, signal=69%
0.302622	0.908026	0.645609	0.931926	1	4146 tags=29%, list=18%, signal=35%
0.337885	0.907747	0.530973	0.931637	1	5246 tags=40%, list=22%, signal=51%
0.309342	0.907106	0.621818	0.932126	1	5465 tags=42%, list=23%, signal=55%
0.328554	0.906777	0.588665	0.931961	1	1294 tags=20%, list=6%, signal=21%
0.337907	0.906666	0.61597	0.931205	1	1175 tags=21%, list=5%, signal=22%
0.326927	0.906587	0.555357	0.930393	1	5852 tags=48%, list=25%, signal=63%
0.417255	0.906291	0.559041	0.930142	1	4797 tags=33%, list=20%, signal=42%
0.325085	0.906285	0.600939	0.929157	1	4308 tags=32%, list=18%, signal=39%
0.326058	0.906082	0.576512	0.928625	1	6053 tags=47%, list=26%, signal=63%
0.229869	0.905467	0.763291	0.929052	1	3892 tags=25%, list=17%, signal=30%
0.295904	0.905248	0.718519	0.928545	1	1374 tags=17%, list=6%, signal=18%
0.339639	0.904586	0.616822	0.929224	1	3848 tags=48%, list=16%, signal=58%
0.425949	0.90448	0.629845	0.928524	1	5877 tags=55%, list=25%, signal=73%
0.354618	0.903899	0.568471	0.928845	1	6499 tags=56%, list=28%, signal=77%
0.273051	0.903728	0.664516	0.928288	1	4204 tags=31%, list=18%, signal=37%
0.379326	0.903724	0.593592	0.927302	1	2839 tags=20%, list=12%, signal=23%
0.259581	0.903712	0.647163	0.92634	1	6370 tags=36%, list=27%, signal=50%
0.309407	0.903671	0.65008	0.925455	1	4818 tags=41%, list=21%, signal=52%
0.294861	0.903579	0.603531	0.924684	1	2932 tags=25%, list=13%, signal=29%
0.224553	0.902961	0.68369	0.9251	1	4665 tags=29%, list=20%, signal=36%
0.236639	0.901957	0.693467	0.926511	1	5632 tags=34%, list=24%, signal=45%
0.303766	0.901293	0.614754	0.926988	1	5208 tags=38%, list=22%, signal=48%
0.237855	0.900715	0.679487	0.927325	1	2796 tags=23%, list=12%, signal=26%
0.321289	0.900152	0.607023	0.927572	1	3375 tags=31%, list=14%, signal=36%
0.247782	0.899171	0.612319	0.928892	1	5736 tags=35%, list=24%, signal=46%
0.252146	0.89836	0.677698	0.929883	1	3381 tags=27%, list=14%, signal=31%
0.26681	0.897766	0.696429	0.930245	1	5530 tags=39%, list=24%, signal=50%
0.40574	0.897402	0.641953	0.93007	1	3036 tags=35%, list=13%, signal=41%

0.32285	0.896839	0.570565	0.930408	1	4727 tags=39%, list=20%, signal=49%
0.295221	0.896726	0.591767	0.929683	1	4451 tags=30%, list=19%, signal=37%
0.315782	0.896725	0.607143	0.928716	1	5428 tags=36%, list=23%, signal=47%
0.27613	0.896623	0.627809	0.927901	1	5909 tags=37%, list=25%, signal=49%
0.442965	0.89654	0.590741	0.927124	1	8050 tags=67%, list=34%, signal=101%
0.287959	0.896359	0.593807	0.926631	1	3869 tags=28%, list=17%, signal=34%
0.386898	0.895558	0.548023	0.927597	1	3825 tags=37%, list=16%, signal=44%
0.285936	0.895437	0.662441	0.926976	1	2027 tags=19%, list=9%, signal=20%
0.334226	0.895311	0.628425	0.926289	1	2966 tags=33%, list=13%, signal=38%
0.278192	0.895077	0.596745	0.925916	1	7439 tags=56%, list=32%, signal=81%
0.357429	0.894976	0.633758	0.925179	1	4963 tags=36%, list=21%, signal=46%
0.249552	0.894722	0.687302	0.924781	1	2415 tags=18%, list=10%, signal=20%
0.237035	0.89469	0.696275	0.923909	1	5651 tags=42%, list=24%, signal=55%
0.340302	0.894565	0.634892	0.923225	1	3327 tags=33%, list=14%, signal=39%
0.419964	0.894184	0.581921	0.923161	1	7965 tags=70%, list=34%, signal=105%
0.280611	0.893672	0.663793	0.923446	1	5794 tags=42%, list=25%, signal=55%
0.27644	0.893164	0.634069	0.923695	1	2966 tags=24%, list=13%, signal=27%
0.317069	0.892622	0.647841	0.923962	1	2659 tags=28%, list=11%, signal=31%
0.252137	0.891703	0.646259	0.92506	1	3395 tags=27%, list=14%, signal=32%
0.248541	0.891	0.690583	0.925722	1	5465 tags=35%, list=23%, signal=45%
0.269985	0.890969	0.555716	0.924848	1	5908 tags=43%, list=25%, signal=57%
0.260778	0.8907	0.699837	0.924568	1	5044 tags=26%, list=22%, signal=34%
0.240651	0.890214	0.738028	0.924783	1	3048 tags=23%, list=13%, signal=27%
0.305505	0.889837	0.657556	0.924734	1	2466 tags=25%, list=11%, signal=28%
0.30961	0.889387	0.649148	0.924872	1	5523 tags=36%, list=24%, signal=47%
0.268263	0.889164	0.643505	0.924452	1	2816 tags=23%, list=12%, signal=26%
0.27178	0.888989	0.727666	0.923854	1	2722 tags=26%, list=12%, signal=29%
0.32279	0.8881	0.614853	0.925002	1	6100 tags=45%, list=26%, signal=61%
0.383288	0.887972	0.562738	0.924325	1	5421 tags=47%, list=23%, signal=61%
0.26689	0.887948	0.655987	0.923424	1	4204 tags=31%, list=18%, signal=38%
0.288135	0.887737	0.673701	0.922915	1	4108 tags=30%, list=18%, signal=36%
0.404094	0.8876	0.566728	0.922324	1	7901 tags=66%, list=34%, signal=99%
0.250788	0.88743	0.676638	0.921722	1	5593 tags=37%, list=24%, signal=48%
0.279977	0.886987	0.770227	0.921729	1	4143 tags=30%, list=18%, signal=37%
0.318836	0.886961	0.574861	0.920865	1	5868 tags=41%, list=25%, signal=55%
0.381205	0.886898	0.568015	0.9201	1	4802 tags=48%, list=21%, signal=60%
0.272981	0.886191	0.637771	0.920738	1	2522 tags=21%, list=11%, signal=24%
0.339268	0.885918	0.592087	0.92044	1	5713 tags=50%, list=24%, signal=66%
0.445807	0.885539	0.643178	0.920316	1	6315 tags=65%, list=27%, signal=88%
0.323948	0.885453	0.710456	0.919593	1	4243 tags=42%, list=18%, signal=52%
0.28659	0.884914	0.731278	0.920014	1	3500 tags=28%, list=15%, signal=32%
0.340001	0.884676	0.588785	0.919686	1	5020 tags=44%, list=21%, signal=56%
0.336808	0.884597	0.630182	0.918951	1	3786 tags=32%, list=16%, signal=38%
0.315263	0.884469	0.689597	0.918288	1	3062 tags=33%, list=13%, signal=38%
0.239858	0.884422	0.725086	0.917467	1	3633 tags=23%, list=16%, signal=27%
0.28719	0.884065	0.67033	0.917423	1	6033 tags=40%, list=26%, signal=53%
0.217539	0.883922	0.784993	0.916849	1	3449 tags=23%, list=15%, signal=27%
0.31324	0.883235	0.61244	0.917559	1	5433 tags=33%, list=23%, signal=43%
0.358189	0.882764	0.636929	0.917779	1	2470 tags=33%, list=11%, signal=37%
0.306522	0.882642	0.678238	0.917102	1	6854 tags=53%, list=29%, signal=75%



0.309816	0.882412	0.606272	0.916699	1	5339 tags=43%, list=23%, signal=56%
0.317789	0.882382	0.688496	0.915879	1	9034 tags=69%, list=39%, signal=112%
0.297901	0.881367	0.613126	0.917173	1	3419 tags=21%, list=15%, signal=24%
0.254159	0.880634	0.705247	0.91782	1	2952 tags=21%, list=13%, signal=24%
0.322018	0.880163	0.695868	0.917953	1	5107 tags=28%, list=22%, signal=35%
0.27782	0.87999	0.679856	0.917397	1	1301 tags=11%, list=6%, signal=11%
0.298666	0.87994	0.609428	0.916606	1	2416 tags=26%, list=10%, signal=29%
0.329523	0.879925	0.674174	0.915733	1	5474 tags=33%, list=23%, signal=43%
0.412457	0.879723	0.615672	0.915309	1	3870 tags=27%, list=17%, signal=33%
0.251635	0.879594	0.697161	0.914665	1	4268 tags=30%, list=18%, signal=37%
0.246482	0.879427	0.66766	0.914152	1	4981 tags=32%, list=21%, signal=41%
0.252715	0.879315	0.70015	0.91349	1	5918 tags=38%, list=25%, signal=50%
0.30934	0.878542	0.734597	0.914265	1	4321 tags=39%, list=18%, signal=48%
0.338761	0.878417	0.655116	0.913635	1	3725 tags=40%, list=16%, signal=48%
0.316379	0.878136	0.655436	0.913377	1	4268 tags=43%, list=18%, signal=52%
0.303955	0.87804	0.676752	0.912707	1	3391 tags=33%, list=14%, signal=38%
0.385751	0.877946	0.674536	0.911974	1	5108 tags=42%, list=22%, signal=54%
0.353351	0.877808	0.717687	0.911433	1	3072 tags=40%, list=13%, signal=46%
0.370646	0.877718	0.614341	0.910696	1	5020 tags=39%, list=21%, signal=50%
0.279381	0.8774	0.69702	0.910549	1	4599 tags=34%, list=20%, signal=42%
0.352755	0.876841	0.656301	0.910933	1	6960 tags=55%, list=30%, signal=79%
0.332918	0.876816	0.629565	0.910095	1	6733 tags=38%, list=29%, signal=53%
0.296464	0.876576	0.666201	0.909728	1	3833 tags=32%, list=16%, signal=38%
0.242875	0.876432	0.687692	0.909172	1	4428 tags=31%, list=19%, signal=37%
0.262653	0.875505	0.649469	0.910262	1	3592 tags=27%, list=15%, signal=31%
0.305726	0.875257	0.616341	0.909877	1	3161 tags=29%, list=13%, signal=34%
0.37815	0.873751	0.703959	0.912408	1	5642 tags=52%, list=24%, signal=68%
0.260374	0.873305	0.699377	0.912457	1	3323 tags=24%, list=14%, signal=27%
0.315776	0.871717	0.696309	0.915191	1	5475 tags=32%, list=23%, signal=42%
0.264722	0.87108	0.769671	0.915629	1	7094 tags=42%, list=30%, signal=60%
0.296398	0.870814	0.675039	0.915354	1	5246 tags=38%, list=22%, signal=49%
0.306531	0.869963	0.606947	0.91626	1	4347 tags=24%, list=19%, signal=29%
0.22441	0.869757	0.798649	0.915774	1	4711 tags=27%, list=20%, signal=34%
0.302075	0.869033	0.6832	0.916529	1	4189 tags=32%, list=18%, signal=39%
0.325865	0.867702	0.590226	0.918653	1	5627 tags=40%, list=24%, signal=52%
0.271835	0.867653	0.600649	0.917878	1	5584 tags=37%, list=24%, signal=48%
0.425499	0.867557	0.624074	0.91716	1	6859 tags=58%, list=29%, signal=82%
0.370014	0.867469	0.626118	0.916433	1	5378 tags=50%, list=23%, signal=65%
0.318366	0.867455	0.611807	0.915575	1	5428 tags=40%, list=23%, signal=52%
0.31001	0.867105	0.651543	0.915489	1	2470 tags=25%, list=11%, signal=28%
0.267004	0.866732	0.728997	0.915356	1	5298 tags=39%, list=23%, signal=50%
0.282666	0.866243	0.641286	0.915546	1	5857 tags=50%, list=25%, signal=67%
0.391604	0.866023	0.609108	0.915138	1	4514 tags=46%, list=19%, signal=57%
0.310661	0.865676	0.582878	0.915031	1	4755 tags=34%, list=20%, signal=42%
0.270167	0.865484	0.729345	0.914593	1	2974 tags=29%, list=13%, signal=33%
0.333458	0.864825	0.627151	0.915103	1	7600 tags=51%, list=32%, signal=76%
0.254651	0.864161	0.735474	0.915738	1	7506 tags=45%, list=32%, signal=66%
0.266006	0.86414	0.691265	0.914901	1	6068 tags=42%, list=26%, signal=57%
0.26653	0.863693	0.6608	0.914928	1	4575 tags=29%, list=20%, signal=36%
0.323886	0.863686	0.68871	0.914068	1	5283 tags=50%, list=23%, signal=65%

0.260631	0.863675	0.697324	0.913216	1	3195 tags=23%, list=14%, signal=26%
0.283878	0.863556	0.795082	0.912604	1	3082 tags=34%, list=13%, signal=40%
0.237307	0.86287	0.762295	0.913209	1	4237 tags=25%, list=18%, signal=31%
0.395757	0.862512	0.616387	0.913153	1	5020 tags=47%, list=21%, signal=60%
0.306819	0.861839	0.653916	0.913705	1	966 tags=20%, list=4%, signal=20%
0.378719	0.861811	0.731482	0.912928	1	6052 tags=43%, list=26%, signal=59%
0.30886	0.861657	0.7031	0.912411	1	5445 tags=41%, list=23%, signal=53%
0.23529	0.861404	0.720497	0.912123	1	3708 tags=26%, list=16%, signal=31%
0.258888	0.861119	0.70442	0.911889	1	5150 tags=35%, list=22%, signal=44%
0.263611	0.85989	0.70547	0.913608	1	5026 tags=33%, list=21%, signal=42%
0.328476	0.859781	0.620451	0.912995	1	7874 tags=53%, list=34%, signal=79%
0.313006	0.85973	0.690566	0.912251	1	6314 tags=40%, list=27%, signal=55%
0.257662	0.859122	0.71722	0.912638	1	2451 tags=22%, list=10%, signal=24%
0.341225	0.859058	0.65744	0.911918	1	5796 tags=47%, list=25%, signal=62%
0.270706	0.858949	0.756494	0.911325	1	3453 tags=30%, list=15%, signal=35%
0.208484	0.858523	0.876056	0.91138	1	5857 tags=29%, list=25%, signal=39%
0.236627	0.858069	0.810888	0.911403	1	5878 tags=36%, list=25%, signal=48%
0.250732	0.856806	0.803523	0.913256	1	4322 tags=31%, list=18%, signal=38%
0.349738	0.856619	0.642857	0.912825	1	4802 tags=44%, list=21%, signal=55%
0.343301	0.856145	0.669368	0.912908	1	5026 tags=38%, list=21%, signal=48%
0.315338	0.855993	0.704293	0.912346	1	3661 tags=40%, list=16%, signal=47%
0.340252	0.855696	0.641326	0.91216	1	5452 tags=44%, list=23%, signal=57%
0.24422	0.854199	0.768116	0.914403	1	7559 tags=50%, list=32%, signal=74%
0.258808	0.854189	0.809524	0.91357	1	438 tags=12%, list=2%, signal=12%
0.298184	0.854121	0.72619	0.912831	1	5857 tags=33%, list=25%, signal=44%
0.269182	0.853772	0.579848	0.912659	1	5671 tags=36%, list=24%, signal=47%
0.292123	0.853759	0.814077	0.911832	1	1884 tags=24%, list=8%, signal=26%
0.31761	0.853393	0.641682	0.911709	1	5923 tags=41%, list=25%, signal=54%
0.35288	0.852879	0.590226	0.912003	1	4388 tags=36%, list=19%, signal=44%
0.317618	0.852513	0.591241	0.911941	1	5612 tags=45%, list=24%, signal=59%
0.321478	0.852341	0.697436	0.91145	1	2597 tags=33%, list=11%, signal=37%
0.286835	0.852303	0.623352	0.910677	1	5760 tags=41%, list=25%, signal=54%
0.220004	0.851994	0.771341	0.910408	1	4546 tags=25%, list=19%, signal=31%
0.286465	0.851807	0.74359	0.909919	1	1187 tags=14%, list=5%, signal=15%
0.28562	0.851323	0.654412	0.910037	1	7998 tags=52%, list=34%, signal=78%
0.324306	0.851301	0.660142	0.909247	1	5857 tags=43%, list=25%, signal=57%
0.368428	0.851208	0.568047	0.908596	1	6167 tags=43%, list=26%, signal=58%
0.303094	0.850652	0.744224	0.908807	1	5060 tags=33%, list=22%, signal=42%
0.329457	0.850474	0.642593	0.908306	1	3944 tags=34%, list=17%, signal=41%
0.228328	0.849843	0.737303	0.908788	1	6416 tags=34%, list=27%, signal=47%
0.261232	0.849803	0.79483	0.908056	1	5397 tags=33%, list=23%, signal=43%
0.43601	0.848762	0.621377	0.909337	1	8059 tags=60%, list=34%, signal=91%
0.381513	0.847304	0.669935	0.91153	1	4591 tags=35%, list=20%, signal=43%
0.2803	0.846201	0.712251	0.912934	1	7448 tags=43%, list=32%, signal=63%
0.408646	0.845889	0.702417	0.912756	1	6315 tags=58%, list=27%, signal=80%
0.297723	0.845101	0.720749	0.913564	1	5868 tags=44%, list=25%, signal=59%
0.245883	0.844434	0.781437	0.914041	1	5882 tags=44%, list=25%, signal=59%
0.230168	0.844125	0.749594	0.91383	1	4640 tags=27%, list=20%, signal=33%
0.311004	0.844004	0.745066	0.913258	1	3835 tags=26%, list=16%, signal=31%
0.266518	0.84394	0.709122	0.912557	1	4277 tags=29%, list=18%, signal=35%

0.33292	0.843763	0.6832	0.91205	1	6018 tags=53%, list=26%, signal=71%
0.284055	0.843392	0.75614	0.911877	1	3371 tags=29%, list=14%, signal=33%
0.314229	0.843245	0.684127	0.911406	1	5796 tags=55%, list=25%, signal=73%
0.376094	0.843124	0.684783	0.910802	1	5152 tags=38%, list=22%, signal=48%
0.274155	0.84202	0.791476	0.912096	1	3375 tags=28%, list=14%, signal=33%
0.318515	0.841671	0.659537	0.911947	1	4319 tags=35%, list=18%, signal=43%
0.349524	0.841349	0.631068	0.911749	1	2007 tags=25%, list=9%, signal=27%
0.365249	0.838961	0.621723	0.915801	1	6502 tags=50%, list=28%, signal=69%
0.346749	0.838914	0.661211	0.915074	1	5885 tags=45%, list=25%, signal=60%
0.264223	0.838559	0.76197	0.914932	1	3467 tags=28%, list=15%, signal=33%
0.275934	0.838502	0.828841	0.914258	1	4243 tags=36%, list=18%, signal=44%
0.292122	0.838363	0.721843	0.913682	1	1959 tags=20%, list=8%, signal=22%
0.226296	0.837687	0.854667	0.914137	1	5670 tags=34%, list=24%, signal=44%
0.329782	0.837583	0.657143	0.913599	1	3764 tags=34%, list=16%, signal=40%
0.3293	0.837158	0.742402	0.913636	1	253 tags=15%, list=1%, signal=15%
0.225392	0.837041	0.775036	0.913061	1	3583 tags=23%, list=15%, signal=27%
0.385148	0.836376	0.643275	0.913601	1	5020 tags=42%, list=21%, signal=54%
0.26491	0.836041	0.713826	0.913363	1	4332 tags=30%, list=18%, signal=37%
0.31781	0.835971	0.716561	0.912666	1	5696 tags=35%, list=24%, signal=46%
0.268559	0.835589	0.758621	0.91266	1	6185 tags=40%, list=26%, signal=54%
0.245211	0.835551	0.75	0.911928	1	5128 tags=32%, list=22%, signal=41%
0.235808	0.835064	0.732143	0.912003	1	5285 tags=29%, list=23%, signal=37%
0.337201	0.834265	0.715771	0.91264	1	382 tags=21%, list=2%, signal=21%
0.346384	0.834133	0.689524	0.912051	1	3602 tags=37%, list=15%, signal=44%
0.255719	0.83412	0.709677	0.911267	1	5857 tags=37%, list=25%, signal=49%
0.280914	0.833975	0.753582	0.910703	1	2601 tags=24%, list=11%, signal=27%
0.276232	0.833548	0.7616	0.910682	1	2738 tags=27%, list=12%, signal=31%
0.330011	0.8327	0.694915	0.911526	1	2921 tags=31%, list=12%, signal=36%
0.235241	0.832604	0.800664	0.910948	1	6282 tags=38%, list=27%, signal=51%
0.351029	0.830523	0.715909	0.914255	1	3737 tags=38%, list=16%, signal=44%
0.267773	0.829936	0.768982	0.914583	1	3710 tags=27%, list=16%, signal=32%
0.355384	0.829799	0.612245	0.914005	1	3764 tags=38%, list=16%, signal=45%
0.310948	0.828675	0.616105	0.915301	1	5644 tags=41%, list=24%, signal=53%
0.263054	0.827829	0.730129	0.916107	1	3280 tags=24%, list=14%, signal=28%
0.26935	0.827775	0.791111	0.915417	1	4816 tags=35%, list=21%, signal=44%
0.235233	0.827469	0.727586	0.915141	1	1485 tags=11%, list=6%, signal=12%
0.230519	0.827147	0.791379	0.91501	1	4519 tags=28%, list=19%, signal=34%
0.330082	0.827119	0.664336	0.914248	1	3375 tags=29%, list=14%, signal=33%
0.340583	0.825573	0.617702	0.91631	1	5547 tags=40%, list=24%, signal=52%
0.283489	0.824273	0.766423	0.917911	1	5673 tags=42%, list=24%, signal=55%
0.294825	0.823714	0.688925	0.918187	1	4559 tags=39%, list=19%, signal=48%
0.271271	0.823478	0.765958	0.917834	1	2192 tags=22%, list=9%, signal=24%
0.307187	0.822932	0.744373	0.918048	1	697 tags=12%, list=3%, signal=12%
0.240533	0.821839	0.739583	0.919208	1	4800 tags=33%, list=20%, signal=41%
0.270525	0.821738	0.819005	0.918584	1	4996 tags=40%, list=21%, signal=51%
0.289156	0.821695	0.711039	0.917847	1	4972 tags=30%, list=21%, signal=38%
0.269046	0.820748	0.790551	0.918717	1	6321 tags=45%, list=27%, signal=62%
0.467806	0.819889	0.699812	0.919506	1	7858 tags=81%, list=34%, signal=122%
0.282946	0.81855	0.700717	0.921031	1	7474 tags=53%, list=32%, signal=78%
0.319724	0.818293	0.736091	0.920692	1	3975 tags=33%, list=17%, signal=40%

0.256524	0.816826	0.789292	0.922554	1	3704 tags=29%, list=16%, signal=34%
0.350431	0.816647	0.801399	0.922058	1	4404 tags=47%, list=19%, signal=58%
0.333846	0.81642	0.722936	0.921654	1	4227 tags=44%, list=18%, signal=53%
0.234198	0.816191	0.813665	0.921295	1	2966 tags=23%, list=13%, signal=26%
0.363888	0.814062	0.666667	0.92434	1	5846 tags=59%, list=25%, signal=79%
0.270551	0.814003	0.8	0.92365	1	5608 tags=41%, list=24%, signal=54%
0.338791	0.813431	0.627451	0.923818	1	7008 tags=54%, list=30%, signal=77%
0.364357	0.813075	0.708075	0.923628	1	2245 tags=31%, list=10%, signal=35%
0.261792	0.812665	0.793781	0.923531	1	5777 tags=45%, list=25%, signal=59%
0.33642	0.812399	0.722034	0.923227	1	7774 tags=59%, list=33%, signal=88%
0.258229	0.810715	0.747069	0.925528	1	4726 tags=34%, list=20%, signal=43%
0.229909	0.809822	0.841018	0.926333	1	3582 tags=23%, list=15%, signal=27%
0.276105	0.809701	0.822504	0.925758	1	3777 tags=32%, list=16%, signal=38%
0.274148	0.809612	0.77812	0.925152	1	3293 tags=28%, list=14%, signal=32%
0.261572	0.809161	0.863014	0.925156	1	2601 tags=20%, list=11%, signal=22%
0.254159	0.80901	0.748175	0.924634	1	5890 tags=32%, list=25%, signal=42%
0.254472	0.808097	0.759921	0.925521	1	3389 tags=25%, list=14%, signal=29%
0.236374	0.806699	0.874797	0.927077	1	7439 tags=48%, list=32%, signal=70%
0.240413	0.806546	0.825352	0.926556	1	3817 tags=24%, list=16%, signal=28%
0.297661	0.806177	0.788732	0.926479	1	2594 tags=20%, list=11%, signal=22%
0.263645	0.804148	0.887324	0.929381	1	6112 tags=41%, list=26%, signal=55%
0.35619	0.804122	0.702448	0.928646	1	7635 tags=45%, list=33%, signal=66%
0.291593	0.804018	0.80102	0.92806	1	4208 tags=31%, list=18%, signal=38%
0.280465	0.803727	0.639042	0.927813	1	5353 tags=36%, list=23%, signal=46%
0.254917	0.801218	0.666102	0.931369	1	3672 tags=22%, list=16%, signal=26%
0.278957	0.800319	0.748175	0.932102	1	3381 tags=26%, list=14%, signal=30%
0.245368	0.799698	0.832861	0.932321	1	5673 tags=39%, list=24%, signal=52%
0.310328	0.799506	0.794258	0.931889	1	926 tags=13%, list=4%, signal=14%
0.32298	0.799174	0.76507	0.931638	1	642 tags=12%, list=3%, signal=12%
0.308661	0.798818	0.802432	0.93144	1	2518 tags=28%, list=11%, signal=31%
0.402523	0.798597	0.714822	0.931055	1	5020 tags=37%, list=21%, signal=46%
0.286748	0.797892	0.816529	0.931551	1	5696 tags=39%, list=24%, signal=52%
0.248529	0.797749	0.784588	0.930983	1	6282 tags=36%, list=27%, signal=49%
0.359368	0.797684	0.648936	0.930331	1	7082 tags=63%, list=30%, signal=90%
0.322688	0.797082	0.763889	0.930563	1	2286 tags=25%, list=10%, signal=28%
0.281386	0.797024	0.721854	0.929877	1	4248 tags=36%, list=18%, signal=44%
0.401202	0.796905	0.75	0.929304	1	8282 tags=67%, list=35%, signal=103%
0.301454	0.796196	0.672535	0.929711	1	4900 tags=39%, list=21%, signal=49%
0.296383	0.795292	0.829755	0.9305	1	5270 tags=42%, list=23%, signal=54%
0.251841	0.794864	0.716607	0.930466	1	5939 tags=38%, list=25%, signal=51%
0.254292	0.794526	0.683616	0.930231	1	5349 tags=32%, list=23%, signal=41%
0.356034	0.793405	0.645098	0.931316	1	5428 tags=43%, list=23%, signal=56%
0.283078	0.792049	0.791878	0.932767	1	5777 tags=28%, list=25%, signal=37%
0.364913	0.792044	0.713761	0.931998	1	4797 tags=29%, list=20%, signal=37%
0.225751	0.790823	0.818038	0.933244	1	5857 tags=39%, list=25%, signal=52%
0.285105	0.790711	0.859568	0.932658	1	6655 tags=56%, list=28%, signal=78%
0.239823	0.790578	0.882726	0.932098	1	5786 tags=35%, list=25%, signal=47%
0.228653	0.790258	0.734993	0.93193	1	4708 tags=31%, list=20%, signal=38%
0.32033	0.790033	0.810594	0.931552	1	3398 tags=26%, list=15%, signal=31%
0.252185	0.789971	0.782759	0.930898	1	2054 tags=19%, list=9%, signal=21%

0.255851	0.789257	0.798987	0.93128	1	7362 tags=52%, list=31%, signal=75%
0.324485	0.78819	0.721368	0.932249	1	1655 tags=20%, list=7%, signal=22%
0.234699	0.787445	0.877947	0.932652	1	6213 tags=36%, list=27%, signal=49%
0.251223	0.785172	0.75576	0.935581	1	5909 tags=38%, list=25%, signal=51%
0.288905	0.784834	0.802023	0.935369	1	5593 tags=48%, list=24%, signal=63%
0.21708	0.783098	0.87092	0.937368	1	3371 tags=20%, list=14%, signal=24%
0.225738	0.783093	0.86014	0.936621	1	5882 tags=40%, list=25%, signal=53%
0.319073	0.781273	0.750831	0.938705	1	5717 tags=50%, list=24%, signal=66%
0.263395	0.780888	0.827869	0.938511	1	4860 tags=36%, list=21%, signal=46%
0.346982	0.780428	0.7061	0.938481	1	4739 tags=45%, list=20%, signal=56%
0.292183	0.779929	0.720268	0.938552	1	1043 tags=14%, list=4%, signal=15%
0.229845	0.778742	0.790105	0.939656	1	6436 tags=44%, list=27%, signal=60%
0.265741	0.77723	0.845277	0.941305	1	3632 tags=26%, list=16%, signal=31%
0.30146	0.776954	0.77621	0.940933	1	2739 tags=22%, list=12%, signal=25%
0.231254	0.774845	0.883683	0.943445	1	3276 tags=21%, list=14%, signal=25%
0.242355	0.774451	0.798013	0.943238	1	5919 tags=40%, list=25%, signal=53%
0.262108	0.774111	0.741936	0.943018	1	6680 tags=36%, list=29%, signal=50%
0.372941	0.772633	0.808349	0.94461	1	5396 tags=41%, list=23%, signal=54%
0.300926	0.772433	0.773109	0.944124	1	7212 tags=53%, list=31%, signal=77%
0.237508	0.772026	0.777778	0.944003	1	4319 tags=23%, list=18%, signal=28%
0.287512	0.771741	0.790997	0.943668	1	4217 tags=36%, list=18%, signal=43%
0.221505	0.771725	0.791946	0.942927	1	4766 tags=27%, list=20%, signal=34%
0.338079	0.771367	0.722846	0.942694	1	5020 tags=34%, list=21%, signal=44%
0.350561	0.77041	0.725379	0.943447	1	5020 tags=34%, list=21%, signal=43%
0.249122	0.770209	0.862629	0.942989	1	2664 tags=20%, list=11%, signal=23%
0.280924	0.77006	0.834671	0.94246	1	7324 tags=61%, list=31%, signal=89%
0.249973	0.76937	0.696915	0.94276	1	5718 tags=36%, list=24%, signal=46%
0.271913	0.768154	0.785032	0.943894	1	4514 tags=36%, list=19%, signal=45%
0.308711	0.767477	0.78831	0.94419	1	3109 tags=34%, list=13%, signal=39%
0.283628	0.76736	0.831547	0.943595	1	466 tags=11%, list=2%, signal=11%
0.276486	0.766383	0.572954	0.944268	1	2114 tags=21%, list=9%, signal=23%
0.309636	0.766085	0.696462	0.94393	1	4665 tags=44%, list=20%, signal=55%
0.283683	0.76608	0.865478	0.943185	1	5533 tags=37%, list=24%, signal=48%
0.296308	0.765532	0.849722	0.943286	1	2577 tags=25%, list=11%, signal=28%
0.267847	0.765439	0.83913	0.942656	1	4478 tags=27%, list=19%, signal=33%
0.318072	0.765233	0.766304	0.942192	1	7718 tags=43%, list=33%, signal=65%
0.229595	0.764887	0.927497	0.94198	1	5768 tags=32%, list=25%, signal=42%
0.301698	0.764041	0.795737	0.942498	1	4673 tags=40%, list=20%, signal=50%
0.31153	0.763562	0.767176	0.942403	1	2470 tags=30%, list=11%, signal=34%
0.23484	0.763502	0.871404	0.941746	1	2966 tags=19%, list=13%, signal=22%
0.244707	0.762639	0.886115	0.942213	1	1984 tags=18%, list=8%, signal=20%
0.269943	0.762017	0.726957	0.94232	1	3125 tags=22%, list=13%, signal=26%
0.21831	0.761421	0.973793	0.942425	1	4767 tags=28%, list=20%, signal=35%
0.316865	0.761009	0.794682	0.942272	1	4847 tags=38%, list=21%, signal=47%
0.326763	0.76081	0.737037	0.941805	1	5857 tags=59%, list=25%, signal=78%
0.285693	0.760703	0.769912	0.94118	1	5133 tags=41%, list=22%, signal=53%
0.251174	0.760398	0.850407	0.940884	1	4065 tags=26%, list=17%, signal=31%
0.296545	0.759975	0.756055	0.940789	1	2662 tags=27%, list=11%, signal=30%
0.321213	0.759355	0.713208	0.940901	1	3764 tags=35%, list=16%, signal=42%
0.279827	0.75883	0.773124	0.940859	1	5595 tags=37%, list=24%, signal=49%

0.288352	0.757162	0.789784	0.942405	1	3640 tags=25%, list=16%, signal=30%
0.260097	0.756919	0.861429	0.941963	1	2594 tags=15%, list=11%, signal=17%
0.30608	0.756258	0.723443	0.942093	1	3764 tags=35%, list=16%, signal=41%
0.28683	0.755266	0.704331	0.942763	1	5468 tags=38%, list=23%, signal=49%
0.276921	0.754113	0.756906	0.943516	1	2859 tags=23%, list=12%, signal=27%
0.28459	0.75405	0.817658	0.94285	1	3535 tags=33%, list=15%, signal=39%
0.214508	0.753677	0.917492	0.942571	1	4038 tags=22%, list=17%, signal=27%
0.236989	0.753663	0.764706	0.941848	1	6117 tags=35%, list=26%, signal=48%
0.363275	0.753349	0.742215	0.941568	1	5246 tags=53%, list=22%, signal=68%
0.265293	0.752553	0.870827	0.941919	1	4683 tags=30%, list=20%, signal=37%
0.262709	0.752028	0.887805	0.941845	1	4075 tags=22%, list=17%, signal=27%
0.287656	0.751533	0.829528	0.941758	1	5379 tags=53%, list=23%, signal=69%
0.266926	0.75146	0.874063	0.941107	1	3048 tags=23%, list=13%, signal=26%
0.240422	0.750741	0.953125	0.94136	1	5315 tags=30%, list=23%, signal=39%
0.24236	0.75061	0.821667	0.940776	1	3337 tags=22%, list=14%, signal=26%
0.239646	0.750199	0.871017	0.940593	1	5584 tags=31%, list=24%, signal=41%
0.315808	0.748235	0.768473	0.942438	1	2832 tags=20%, list=12%, signal=23%
0.282167	0.747968	0.791209	0.942094	1	8091 tags=47%, list=35%, signal=71%
0.230473	0.745574	0.910334	0.944554	1	3005 tags=19%, list=13%, signal=21%
0.231133	0.745392	0.897674	0.94402	1	5910 tags=37%, list=25%, signal=49%
0.285852	0.74535	0.731076	0.943351	1	6132 tags=43%, list=26%, signal=58%
0.278812	0.744461	0.822161	0.943845	1	4108 tags=26%, list=18%, signal=32%
0.212148	0.744186	0.938211	0.94349	1	6164 tags=36%, list=26%, signal=48%
0.285841	0.744011	0.824773	0.942971	1	6304 tags=33%, list=27%, signal=46%
0.266644	0.7429	0.889695	0.943545	1	7335 tags=53%, list=31%, signal=77%
0.307207	0.742548	0.733962	0.943248	1	3764 tags=36%, list=16%, signal=42%
0.209422	0.741903	0.947458	0.94333	1	6416 tags=35%, list=27%, signal=48%
0.257927	0.741767	0.85913	0.942738	1	3355 tags=23%, list=14%, signal=27%
0.218701	0.74124	0.9	0.942587	1	6670 tags=38%, list=28%, signal=53%
0.216649	0.741071	0.934426	0.942048	1	5595 tags=26%, list=24%, signal=34%
0.227509	0.740351	0.889923	0.9422	1	5234 tags=32%, list=22%, signal=41%
0.229915	0.739886	0.790441	0.941997	1	5361 tags=33%, list=23%, signal=43%
0.314243	0.739818	0.852649	0.941351	1	8403 tags=41%, list=36%, signal=64%
0.301212	0.739665	0.768382	0.940814	1	2654 tags=26%, list=11%, signal=29%
0.316574	0.738421	0.738095	0.941562	1	4345 tags=39%, list=19%, signal=48%
0.282764	0.738014	0.70674	0.941306	1	5777 tags=44%, list=25%, signal=58%
0.219044	0.737278	0.870432	0.941541	1	5859 tags=32%, list=25%, signal=42%
0.272555	0.735735	0.853333	0.94279	1	6866 tags=35%, list=29%, signal=50%
0.263726	0.733524	0.820809	0.944633	1	5715 tags=36%, list=24%, signal=48%
0.305218	0.733079	0.755459	0.944441	1	4958 tags=33%, list=21%, signal=42%
0.25343	0.732071	0.876068	0.944933	1	7759 tags=46%, list=33%, signal=68%
0.29387	0.731667	0.801105	0.944663	1	1855 tags=17%, list=8%, signal=19%
0.338645	0.730788	0.723776	0.944997	1	7082 tags=53%, list=30%, signal=76%
0.306738	0.730125	0.728782	0.945094	1	4802 tags=40%, list=21%, signal=50%
0.27246	0.729556	0.8646	0.945005	1	3220 tags=23%, list=14%, signal=27%
0.22329	0.728903	0.841818	0.945054	1	5547 tags=34%, list=24%, signal=44%
0.265397	0.726022	0.927808	0.947726	1	5593 tags=38%, list=24%, signal=49%
0.23269	0.725617	0.926563	0.947452	1	1442 tags=16%, list=6%, signal=17%
0.334555	0.725523	0.850556	0.946819	1	6983 tags=40%, list=30%, signal=57%
0.285915	0.725335	0.776062	0.946279	1	5869 tags=48%, list=25%, signal=64%

0.299316	0.72432	0.822464	0.946757	1	8091 tags=59%, list=35%, signal=90%
0.312752	0.723953	0.833055	0.946446	1	1542 tags=20%, list=7%, signal=21%
0.211457	0.723518	0.926761	0.946292	1	4534 tags=28%, list=19%, signal=34%
0.255761	0.723003	0.929217	0.946134	1	5203 tags=33%, list=22%, signal=43%
0.284367	0.722958	0.855446	0.945447	1	3737 tags=32%, list=16%, signal=38%
0.278767	0.721888	0.831826	0.945966	1	6336 tags=41%, list=27%, signal=56%
0.220639	0.721735	0.825704	0.945405	1	5910 tags=35%, list=25%, signal=46%
0.277144	0.721115	0.867669	0.945315	1	5922 tags=48%, list=25%, signal=64%
0.249477	0.719436	0.838583	0.946406	1	4347 tags=25%, list=19%, signal=31%
0.296347	0.719042	0.795411	0.946139	1	3764 tags=33%, list=16%, signal=39%
0.234802	0.718859	0.865835	0.945613	1	4672 tags=29%, list=20%, signal=36%
0.324252	0.718642	0.9046	0.945149	1	6336 tags=47%, list=27%, signal=64%
0.293967	0.718263	0.749042	0.944847	1	3764 tags=27%, list=16%, signal=32%
0.285191	0.718051	0.827709	0.944414	1	6094 tags=36%, list=26%, signal=49%
0.274209	0.717877	0.867508	0.943902	1	7965 tags=60%, list=34%, signal=91%
0.334564	0.717368	0.83	0.943761	1	5847 tags=63%, list=25%, signal=84%
0.263126	0.715928	0.821218	0.944727	1	3897 tags=25%, list=17%, signal=30%
0.248477	0.715213	0.906143	0.944859	1	4190 tags=30%, list=18%, signal=37%
0.219524	0.711375	0.935024	0.948007	1	6381 tags=38%, list=27%, signal=53%
0.29447	0.709771	0.776557	0.948935	1	3764 tags=33%, list=16%, signal=40%
0.262598	0.707918	0.687037	0.950063	1	5834 tags=39%, list=25%, signal=51%
0.225552	0.705613	0.923211	0.951683	1	5911 tags=33%, list=25%, signal=44%
0.257963	0.705182	0.875385	0.951414	1	4929 tags=44%, list=21%, signal=55%
0.261966	0.703682	0.928685	0.952158	1	5131 tags=33%, list=22%, signal=43%
0.247848	0.703265	0.844794	0.951826	1	5857 tags=43%, list=25%, signal=57%
0.25064	0.70276	0.881557	0.951606	1	4352 tags=26%, list=19%, signal=32%
0.213015	0.701553	0.973134	0.952099	1	5671 tags=33%, list=24%, signal=43%
0.281876	0.701298	0.889621	0.951637	1	4008 tags=30%, list=17%, signal=36%
0.23239	0.701254	0.954167	0.950965	1	4217 tags=28%, list=18%, signal=34%
0.220569	0.699323	0.813528	0.952083	1	5760 tags=32%, list=25%, signal=42%
0.243889	0.699045	0.881024	0.951637	1	6316 tags=42%, list=27%, signal=58%
0.220526	0.69806	0.88547	0.951895	1	3560 tags=25%, list=15%, signal=29%
0.259852	0.694647	0.896552	0.954466	1	1948 tags=19%, list=8%, signal=20%
0.258527	0.6946	0.763986	0.953799	1	8033 tags=58%, list=34%, signal=89%
0.274698	0.694574	0.854938	0.953108	1	6304 tags=40%, list=27%, signal=54%
0.318688	0.694215	0.769674	0.952735	1	5020 tags=31%, list=21%, signal=40%
0.269958	0.692371	0.826241	0.953725	1	4145 tags=35%, list=18%, signal=42%
0.286484	0.691538	0.863139	0.953735	1	3632 tags=27%, list=16%, signal=32%
0.247719	0.691518	0.880783	0.953053	1	3871 tags=22%, list=17%, signal=27%
0.251356	0.688287	0.913997	0.955275	1	5787 tags=38%, list=25%, signal=51%
0.269189	0.688149	0.950213	0.954707	1	5379 tags=35%, list=23%, signal=45%
0.279914	0.688022	0.858716	0.954121	1	7107 tags=50%, list=30%, signal=72%
0.200507	0.687552	0.960227	0.953819	1	7206 tags=43%, list=31%, signal=62%
0.26486	0.687534	0.856867	0.953117	1	3368 tags=25%, list=14%, signal=29%
0.218262	0.687395	0.980029	0.952541	1	6761 tags=35%, list=29%, signal=49%
0.239242	0.685455	0.890388	0.95361	1	2470 tags=20%, list=11%, signal=22%
0.28893	0.68338	0.854962	0.954635	1	6440 tags=41%, list=28%, signal=57%
0.291366	0.681201	0.817308	0.955886	1	4802 tags=39%, list=21%, signal=49%
0.31204	0.676244	0.843985	0.959204	1	6273 tags=44%, list=27%, signal=61%
0.28007	0.675879	0.813264	0.958837	1	4959 tags=39%, list=21%, signal=49%

0.24457	0.674935	0.838889	0.958927	1	4532 tags=31%, list=19%, signal=38%
0.197209	0.670271	0.970968	0.96184	1	5537 tags=21%, list=24%, signal=28%
0.221841	0.669228	0.89781	0.961874	1	3897 tags=23%, list=17%, signal=28%
0.285109	0.667501	0.898551	0.96244	1	6960 tags=38%, list=30%, signal=54%
0.317746	0.666361	0.845238	0.962637	1	5847 tags=55%, list=25%, signal=72%
0.302996	0.665577	0.849315	0.962472	1	5869 tags=59%, list=25%, signal=78%
0.262728	0.662065	0.893155	0.964385	1	3481 tags=29%, list=15%, signal=35%
0.253739	0.65598	0.871143	0.967835	1	4959 tags=34%, list=21%, signal=43%
0.217174	0.655955	0.983146	0.967144	1	7461 tags=46%, list=32%, signal=68%
0.309891	0.654958	0.806273	0.967076	1	2033 tags=27%, list=9%, signal=30%
0.245123	0.654366	0.894928	0.966794	1	7116 tags=39%, list=30%, signal=56%
0.285609	0.652619	0.777989	0.967231	1	5516 tags=38%, list=24%, signal=49%
0.327498	0.652534	0.839458	0.966578	1	4755 tags=42%, list=20%, signal=53%
0.283991	0.650749	0.824299	0.967106	1	4603 tags=25%, list=20%, signal=31%
0.231535	0.649568	0.954041	0.96712	1	2902 tags=21%, list=12%, signal=23%
0.297532	0.648073	0.770093	0.967386	1	7205 tags=58%, list=31%, signal=84%
0.26754	0.640017	0.744059	0.971625	1	8089 tags=61%, list=35%, signal=93%
0.24133	0.639389	0.940154	0.97131	1	5501 tags=38%, list=23%, signal=49%
0.208087	0.638152	0.985185	0.971317	1	6808 tags=42%, list=29%, signal=59%
0.261541	0.629276	0.849057	0.975621	1	8050 tags=55%, list=34%, signal=84%
0.239583	0.628051	0.932526	0.975586	1	7984 tags=56%, list=34%, signal=85%
0.212495	0.627006	0.961268	0.975462	1	8413 tags=51%, list=36%, signal=80%
0.243294	0.62334	0.955385	0.976711	1	7372 tags=51%, list=31%, signal=74%
0.252554	0.623	0.954466	0.976173	1	8692 tags=47%, list=37%, signal=75%
0.267767	0.622642	0.874396	0.975662	1	6053 tags=38%, list=26%, signal=51%
0.249957	0.618873	0.880309	0.976808	1	3435 tags=23%, list=15%, signal=27%
0.223936	0.618686	0.950368	0.976169	1	6612 tags=32%, list=28%, signal=45%
0.186	0.616864	0.963855	0.976346	1	5620 tags=22%, list=24%, signal=29%
0.258347	0.616837	0.884393	0.975648	1	5861 tags=39%, list=25%, signal=52%
0.232968	0.616501	0.83054	0.975106	1	5745 tags=36%, list=25%, signal=48%
0.309521	0.612859	0.794495	0.976068	1	8050 tags=61%, list=34%, signal=92%
0.256746	0.611423	0.878613	0.975978	1	5752 tags=38%, list=25%, signal=51%
0.204515	0.61017	0.983283	0.975866	1	5389 tags=27%, list=23%, signal=35%
0.224691	0.610042	0.967407	0.975219	1	6876 tags=42%, list=29%, signal=59%
0.238099	0.607946	0.960568	0.975405	1	6537 tags=32%, list=28%, signal=44%
0.20293	0.601727	0.850746	0.977338	1	5601 tags=32%, list=24%, signal=42%
0.230992	0.601306	0.863884	0.976811	1	6004 tags=40%, list=26%, signal=54%
0.233452	0.596636	0.858238	0.977901	1	5880 tags=36%, list=25%, signal=48%
0.285607	0.590302	0.842294	0.97965	1	3825 tags=35%, list=16%, signal=42%
0.231717	0.588781	0.969871	0.979457	1	7343 tags=53%, list=31%, signal=77%
0.248543	0.583106	0.8625	0.980669	1	7269 tags=55%, list=31%, signal=79%
0.211245	0.570882	0.89942	0.983594	1	4347 tags=21%, list=19%, signal=26%
0.270914	0.569559	0.927644	0.983266	1	4926 tags=40%, list=21%, signal=51%
0.232894	0.564349	0.961938	0.983973	1	4888 tags=19%, list=21%, signal=24%
0.192931	0.526211	0.928972	0.991542	1	4347 tags=19%, list=19%, signal=24%
0.289345	0.513048	0.899054	0.99288	1	7933 tags=43%, list=34%, signal=66%
0.200692	0.511421	0.95946	0.992394	1	8367 tags=55%, list=36%, signal=86%
0.180616	0.413967	0.984375	0.999549	1	7858 tags=44%, list=34%, signal=67%
0.17699	0.409574	0.99361	0.998987	1	9322 tags=42%, list=40%, signal=69%
0.179512	0.403636	0.992308	0.998444	1	7858 tags=43%, list=34%, signal=64%