EnrichmentHsSymbolsFile2 Top pathways by non-permulation

BIALOCK ALZHEIMERS DISEASE DN	Geneset	stat	num.genes	pval	p.adj	gene.vals
BLALOCK ALZHEIMERS DISEASE DN -0.04943605 1933 37676-08 8.1486-05 CHL13 HERC210 LERR3;16 LTN131 BHLHE40:40 PHTF1:44 KIM_ALL_DISORDERS_CALB1_CORR_UP -0.07347183 492 2,7896-08 8.1486-05 CHL13 CAMSAP2:34 BHLHE40:40 ATP1B1:49 AKRIB1:77 AHSA1 BENPORATH_ES_WITH_H9K27MES -0.04936650 664 2,1896-05 5.8986-02 CACNARIB_26 CALCR:76 LIND13:8 KCNY1395 WAY398 BRIPPS-1 KIM_ALL_DISORDERS_DUGODENDROCYTE_NUMBER -0.04896650 664 2,1896-05 3,3676-02 CHL13:3 PPFI64:39 KIP218:52 AKRIB1:77 AHSA1:80 PRR3:82 REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR -0.03383984 129 5,1568-05 3,3676-02 CHL13:3 PPFI64:39 KIP218:52 AKRIB1:77 AHSA1:80 PRR3:82 CREATOME_DNA_DOUBLE_STRAND_BREAK_REPAIR -0.03384785 1247 7,2186-05 5,2036-02 CMLCR:78 PPI64:39 KIP218:52 DKLR:131 DCLR:E10:22 POLH:31 EACH CONTROL CREATER -0.03384785 1247 7,2186-05 5,2036-02 CMLCR:78 URB:181 WAY398 ZMP277:116 SREBF1:138 CHLCR:122 PRKDC:48 POLK:61 ELX:466 DCLR:E10:232 POLK:15 ELX:466 DCLR:E10:332 POLK:15 ELX						
KIM_ALL_DISORDERS_CALEL_CORR_UP						
BENPORATH_ES_WITH_HAKZ/ME3						
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER -0.04898895						
RAJEFRANN DNA REPAIR GENES 0.88398894 208 3.114e-05 3.387e-02 TEP1.8 PRKDC.48 POLK61 ENCOS.125 MBD4:31 DCLREIC.22 PDIA: TP1.01AZ_OHRONIC_MYELOGENOUS_LEUKEMIA_UP						
REACTOME_DNA_DUBLE_STRAND_BREAK_REPAIR						
DIAZ CHRONIC MYELOGENOUS LEUKEMIA UP						
REGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERAC						
BENPORATH_EED_TAGETS						
BENPORATH_PRC2_TARGETS						
NIKOLSKY_BREAST_CANCER_16Q24_AMPLICON 0.16396499 46 1.199e-04 6.927e-02 ANKRD11:7 CTU2:21 SNAI3:57 CBFA2T3:71 ACSF3:102 PIEZO1:1 WP_DNA_REPAIR_PATHWAYS_FULL_NETWORK 0.10397984 113 1.363e-04 6.927e-02 PRKDC:48 POLK:61 ERCC5:125 MBD4:131 DCLRE1C:232 POLK:5 NIKOLSKY_BREAST_CANCER_BQ12_Q22_AMPLICON -0.09724968 118 2.671e-04 1.083e-01 SLC26A7:9 MMP16:22 TMEM64:33 GDAP1:58 OSGIN2:60 GEM:1 MATHEW FANCONI ANEMIA GENES 0.31834153 11 2.561e-04 1.083e-01 BRIP1:606 BRCA2:828 FANCG:1092 FANCE:1166 FANCM:1537 FANC BENPORATH_SUZ12_TARGETS -0.03586074 898 3.036e-04 1.112e-01 CVP4X1:11 CACNA1B:26 KCNV1:95 VIPR2:102 BRINP3:07 SLC12A KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DEN -0.04430895 574 3.086e-04 1.112e-01 CVP4X1:11 CACNA1B:26 KCNV1:95 VIPR2:102 BRINP3:07 SLC12A KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DEN -0.04930995 478 3.520e-04 1.202e-01 WWP1:7 BAX:43 SIN3A:48 VAV3:98 ATP6V0D2:136 DNIM3:139 WP_PRADERWILL_AND_ANGELMAN_SYNDROME -0.13867321 54 4.255e-04 1.204e-01 HERC2:10 ATP10A:18 UBESA:117 CDKN2C:173 TUBGCP5:286 GABR WP_AALLOGRAFT_REJECTION -0.1222423 70 4.082e-04 1.204e-01 HLA-DOBISTOF CXCL13:191 TNIF:209 CC21:422 CD66:653 ARCBIT WP_NONHOMOLOGOUS_END_JOINING 0.32171763 10 4.267e-04 1.204e-01 PRKDC:48 DCLRE1C:232 NHEJI:749 LIG4:935 WRN:1141 XRCC5: WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 126 4.052e-04 1.204e-01 PRKDC:48 DCLRE1C:232 NHEJI:749 LIG4:935 WRN:1141 XRCC5: WP_PHOTODYNAMIC_THERAPYINDUCED_API_SURVI -0.14224815 48 6.429e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:99 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_API_SURVI -0.14224815 48 6.429e-04 1.604e-01 BAX:43 THRSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS.67 REACTOME_DNA_REPAIR 0.0455608 62 8.420e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 RBIP1:606 BRCA1:653 RPI1:606 BRCA1:65						
## PDNA_REPAIR_PATHWAYS_FULL_NETWORK						
REACTOME_ADAPTIVE_IMMUNE_SYSTEM						
NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON						
MATHEW_FANCONI_ANEMIA_GENES BENPORATH_SUZ12_TARGETS -0.03586074 888 3.036e-04 1.112e-01 CYP4X1:11 CACNA18:26 KCNV1:95 VIPR2:102 BRINP3:107 SLC12A REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE0.04793795 478 3.250e-04 1.112e-01 CH1:3 CAMSAP2:34 AKR181:77 AHSA1:80 ALAS1:150 SLC22A12 REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE0.04793795 478 3.250e-04 1.202e-01 WWP-17 BAX:43 SIN3A:48 VAX3:98 ATP6V0D2:103 bNM3:139 WP_PRADERWILLI_AND_ANGELMAN_SYNDROME -0.13867321 54 4.255e-04 1.204e-01 WP_NONHOMOLOGOUS_END_JOINING -0.12224223 70 4.082e-04 1.204e-01 HLA_DOB:157 CXC1:3:191 TNF:209 CC12:1429 CD86:653 ABC81 WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 10 4.267e-04 1.204e-01 REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU -0.16152459 WP_PRADERWILL_AND_AREPAIR -0.06111750 WP_PRADERWINDUCED_AP1_SURVI REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 FEACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES -0.04959680 -0.049						
BENPORATH_SUZ12_TARGETS			118			SLC26A7:9 MMP16:22 TMEM64:33 GDAP1:58 OSGIN2:60 GEM:134
KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DEN		0.31834153				BRIP1:606 BRCA2:828 FANCG:1092 FANCE:1166 FANCM:1537 FANCA:1652
REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE_	BENPORATH_SUZ12_TARGETS	-0.03586074	898	3.036e-04	1.112e-01	CYP4X1:11 CACNA1B:26 KCNV1:95 VIPR2:102 BRINP3:107 SLC12A5:125
WP_PRADERWILLI_AND_ANGELMAN_SYNDROME -0.13867321 54 4.255e-04 1.204e-01 HERC2:10 ATP10A:18 UBE3A:117 CDKN2C:173 TUBGCP5:286 GABR WP_ALLOGRAFT_REJECTION -0.12224223 70 4.082e-04 1.204e-01 HLA-DOB:157 CXCL13:191 TNF:209 CCL21:429 CD86:653 ABCB1 WP_NONHOMOLOGOUS_END_JOINING 0.32171763 10 4.267e-04 1.204e-01 PRKDC:48 DCLRE1C:232 NHEJ1:749 LIG4:935 WRN:1141 XRCC5: WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 126 4.052e-04 1.204e-01 CACNA18:26 ATP181:49 RYR2:121 GJA8:235 CHRM2:245 CACNA13 REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU 0.16152459 39 4.834e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT4:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67 REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800	KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DEN	-0.04430895	574	3.086e-04	1.112e-01	CHL1:3 CAMSAP2:34 AKR1B1:77 AHSA1:80 ALAS1:150 SLC25A12:187
WP_ALLOGRAFT_REJECTION -0.12224223 70 4.082e-04 1.204e-01 HLA-DOB:157 CXCL13:191 TNF:209 CCL21:429 CD86:653 ABCB1 WP_NONHOMOLOGOUS_END_JOINING 0.32171763 10 4.267e-04 1.204e-01 PRKDC:48 DCLREIC:232 NHEJ1:749 LIG4:935 WRN:1141 XRCC5: WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 126 4.052e-04 1.204e-01 CACNA1B:26 ATP1B1:49 RYR2:121 GJA8:235 CHRM2:245 CACNA1S REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU 0.16152459 39 4.834e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67: REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: REACTOME_RESOLUTION_OF_DLOOP_STRUCTURES 0.17207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740 REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800	REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE_	-0.04793795	478	3.520e-04	1.202e-01	WWP1:7 BAX:43 SIN3A:48 VAV3:98 ATP6V0D2:136 DNM3:139
WP_NONHOMOLOGOUS_END_JOINING 0.32171763 10 4.267e-04 1.204e-01 PRKDC:48 DCLRE1C:232 NHEJ1:749 LIG4:935 WRN:1141 XRCC5: WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 126 4.052e-04 1.204e-01 CACNA1B:26 ATP1B1:49 RYR2:121 GJA8:235 CHRM2:245 CACNA13 REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU 0.16152459 39 4.834e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNF5F10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67: REACTOME_RESOLUTION_OF_DL_OOP_STRUCTURES 0.17207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740 REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABI1:566 BRIP1:606 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D 0.12265088 62 8.420e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:6 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.0415	WP_PRADERWILLI_AND_ANGELMAN_SYNDROME	-0.13867321	54	4.255e-04	1.204e-01	HERC2:10 ATP10A:18 UBE3A:117 CDKN2C:173 TUBGCP5:286 GABRA5:305
WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS -0.09133176 126 4.052e-04 1.204e-01 CACNA1B:26 ATP1B1:49 RYR2:121 GJA8:235 CHRM2:245 CACNA1S REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU 0.16152459 39 4.834e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67:725 REACTOME_DRECTED_REPAIR -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: REACTOME_DRECTED_REPAIR 0.07207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:663 EME1:660 SPIDR:740 REACTOME_HDR PIRPICHOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:560 BRIP1:606 BRCA1:653 REACTOME_POLK:61 BRCA1:660 POLK:317 ABL1:560 BRIP1:606 BRCA1:653	WP_ALLOGRAFT_REJECTION	-0.12224223	70	4.082e-04	1.204e-01	HLA-DOB:157 CXCL13:191 TNF:209 CCL21:429 CD86:653 ABCB1:666
REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU 0.16152459 39 4.834e-04 1.307e-01 CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1 REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67: REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES 0.17207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740 REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606 REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBIN 0.12265088 62 8.420e-04 1.821e-01 EME2:9 POLK:61 SLX4:66 POLH:317 BRIP1:606 BRCA1:653 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NET02:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:6 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:8: NIKOLSKY_BREAST_CANCER_102[_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL-HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15026_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	WP_NONHOMOLOGOUS_END_JOINING	0.32171763	10	4.267e-04	1.204e-01	PRKDC:48 DCLRE1C:232 NHEJ1:749 LIG4:935 WRN:1141 XRCC5:2373
REACTOME_DNA_REPAIR 0.06111750 271 5.516e-04 1.432e-01 EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125 WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67: REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES 0.17207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740 REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606 REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBIN 0.12265088 62 8.420e-04 1.821e-01 EME2:9 POLK:61 SLX4:66 POLH:317 BRIP1:606 BRCA1:653 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:6 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:8: NIKOLSKY_BREAST_CANCER_1021_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL-HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	WP_CALCIUM_REGULATION_IN_CARDIAC_CELLS	-0.09133176	126	4.052e-04	1.204e-01	CACNA1B:26 ATP1B1:49 RYR2:121 GJA8:235 CHRM2:245 CACNA1S:264
WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI -0.14242815 48 6.429e-04 1.604e-01 BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:67: REACTOME_GPCR_LIGAND_BINDING -0.04959680 394 7.620e-04 1.748e-01 CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R: CALCR:78 VIPR2:102 LTM:2124 CXCL13:191 CHRM2:245 PTH1R: CALCR:78 VIPR2:102 HRH2:124 CXCL1	REACTOME_TRNA_MODIFICATION_IN_THE_NUCLEU	0.16152459	39	4.834e-04	1.307e-01	CTU2:21 THADA:194 NSUN6:612 TRMT44:638 ALKBH8:683 TRMT1:756
REACTOME_GPCR_LIGAND_BINDING	REACTOME_DNA_REPAIR	0.06111750	271	5.516e-04	1.432e-01	EME2:9 PRKDC:48 POLK:61 SLX4:66 USP10:98 ERCC5:125
REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES 0.17207352 32 7.563e-04 1.748e-01 EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740 REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606 BRCA1:653 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:60 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:81 NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPLS HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI	-0.14242815	48	6.429e-04	1.604e-01	BAX:43 TNFSF10:74 MAP2K3:202 TNF:209 CCNE1:234 FOS:672
REACTOME_HOMOLOGY_DIRECTED_REPAIR 0.09681800 101 7.811e-04 1.748e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606 REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBIN 0.12265088 62 8.420e-04 1.821e-01 EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606 BRCA1:653 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:66 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:83 NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL9 HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	REACTOME_GPCR_LIGAND_BINDING	-0.04959680	394	7.620e-04	1.748e-01	CALCR:78 VIPR2:102 HRH2:124 CXCL13:191 CHRM2:245 PTH1R:248
REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBIN 0.12265088 62 8.420e-04 1.821e-01 EME2:9 POLK:61 SLX4:66 POLH:317 BRIP1:606 BRCA1:653 ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:69 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:82 NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPLS HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:20 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	REACTOME_RESOLUTION_OF_D_LOOP_STRUCTURES	0.17207352	32	7.563e-04	1.748e-01	EME2:9 SLX4:66 BRIP1:606 BRCA1:653 EME1:660 SPIDR:740
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D -0.20421693 22 9.143e-04 1.914e-01 NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:66 MIKKELSEN_MEF_HCP_WITH_H3K27ME3 -0.04152419 546 9.639e-04 1.954e-01 UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:12 REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:8: NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPLs HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	REACTOME_HOMOLOGY_DIRECTED_REPAIR	0.09681800	101	7.811e-04	1.748e-01	EME2:9 POLK:61 SLX4:66 POLH:317 ABL1:566 BRIP1:606
MIKKELSEN_MEF_HCP_WITH_H3K27ME3	REACTOME_HDR_THROUGH_HOMOLOGOUS_RECOMBIN	0.12265088	62	8.420e-04	1.821e-01	EME2:9 POLK:61 SLX4:66 POLH:317 BRIP1:606 BRCA1:653
REACTOME_DISEASES_OF_DNA_REPAIR 0.13486480 49 1.095e-03 2.152e-01 MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:8: NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL9 HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D	-0.20421693	22	9.143e-04	1.914e-01	NETO2:59 VPS35:270 GPT2:427 ITFG1:490 SHCBP1:591 ORC6:638
NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON 0.16626657 32 1.135e-03 2.166e-01 RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL9 HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	MIKKELSEN_MEF_HCP_WITH_H3K27ME3	-0.04152419	546	9.639e-04	1.954e-01	UGT8:8 CALCR:78 KCNV1:95 RYR2:121 HRH2:124 SLC12A5:125
HOUNKPE_HOUSEKEEPING_GENES -0.03029310 996 1.362e-03 2.524e-01 NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:2 NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON -0.21037727 19 1.501e-03 2.639e-01 PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS	REACTOME_DISEASES_OF_DNA_REPAIR	0.13486480	49	1.095e-03	2.152e-01	MSH3:505 BRIP1:606 BRCA1:653 RFC2:797 PMS2:825 BRCA2:828
NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON	NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON	0.16626657	32	1.135e-03	2.166e-01	RUSC1:161 PBXIP1:249 FLAD1:485 ADAM15:839 ZBTB7B:899 MRPL9:1117
NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON						NUP133:56 AHSA1:80 IPO9:120 USP4:141 DHX29:241 RNF216:295
						PCSK6:203 CHSY1:208 LRRK1:221 ARRDC4:500 ALDH1A3:511 TARS3:520
	KEGG_TYPE_I_DIABETES_MELLITUS	-0.17330222	28			HLA-DOB:157 TNF:209 GAD1:280 LTA:435 CD86:653 CD80:780
						IRX3:204 VPS35:270 CHD9:284 GPT2:427 RBL2:499 SHCBP1:591
REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_						
						BHLHE40:40 VIPR2:102 RYR2:121 NOS1AP:128 LMX1B:207 TNF:209