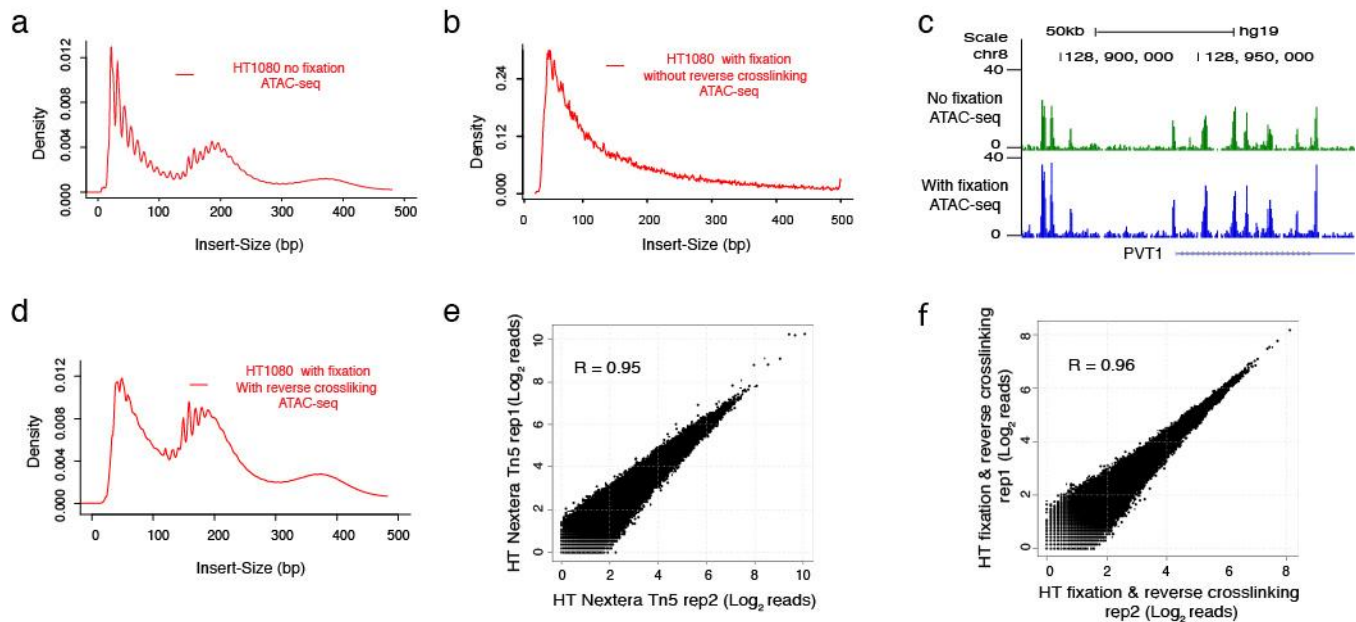


## Supplementary Figure 1

### Validation of ATAC-seq library from Atto-Tn5

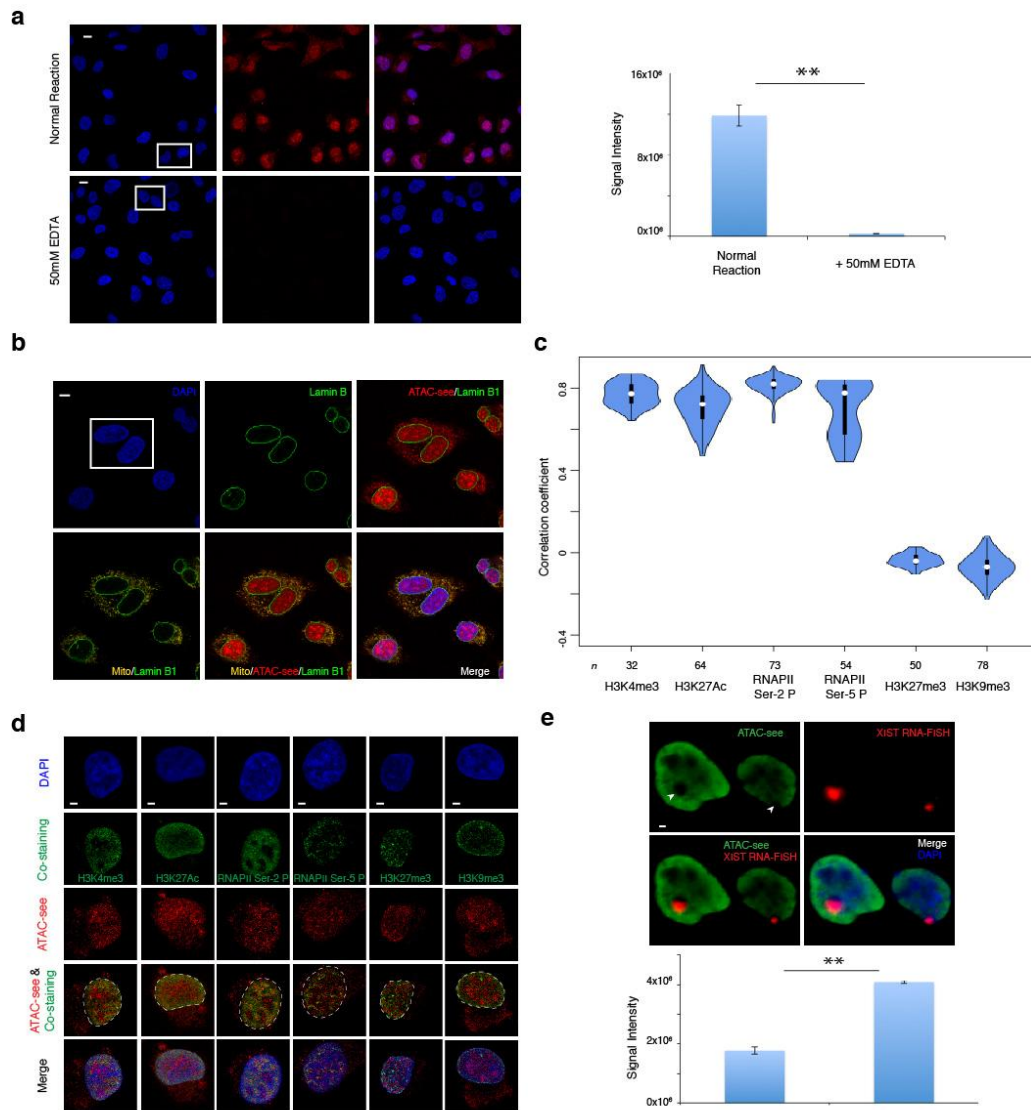
**a**, genome-wide comparisons of ATAC-seq reproducibility with Atto-Tn5 in GM12878 cells (GM). **b**, genome-wide comparisons of ATAC-seq reproducibility with Nextera Tn5 in GM12878 cells (GM). **c**, Insert size distribution of GM12878 ATAC-seq libraries transposed by Nextera Tn5. **d**, Insert size distribution of GM12878 cells ATAC-seq libraries from Atto-Tn5. **e**, Calculation of regulatory element enrichment from ChromHMM in previously published GM12878 ATAC-seq libraries and new ATAC-seq libraries using either Atto-Tn5 or Illumina Nextera Tn5. **f**: density plot of differential ATAC-seq peaks fold change (FC)(log<sub>2</sub> value) in GM12878 from Atto-Tn5 and Nextera Tn5 among technical replicates and different enzyme.



## Supplementary Figure 2

### Validation of ATAC-seq library in fixed cells

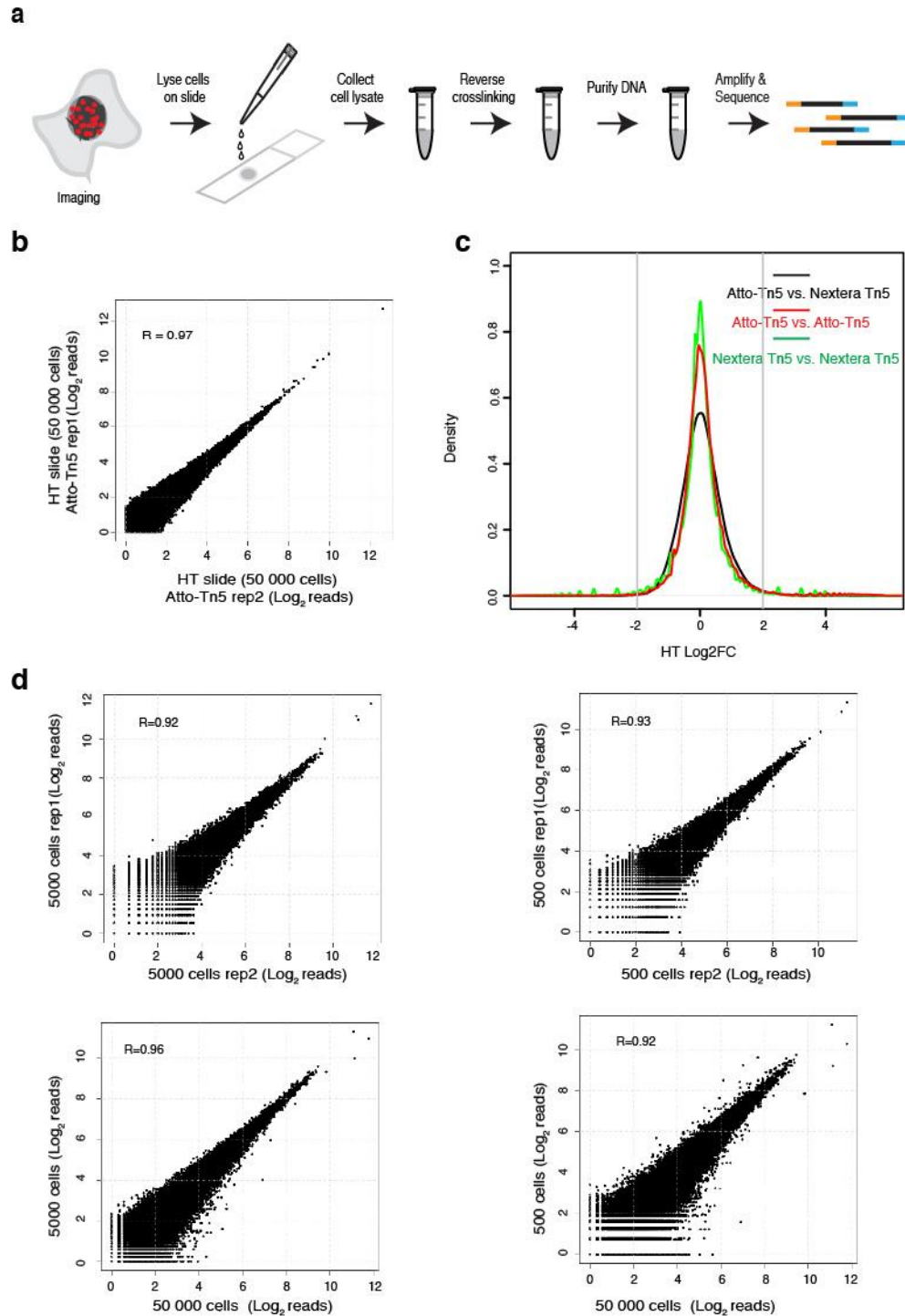
**a**, Insert size distribution of HT1080 cells ATAC-seq with standard protocol. **b**, Insert size distribution of fixed HT1080 cells ATAC-seq without reverse crosslinking step. **c**, Genomic tracks of ATAC-seq data from HT1080 cells among different conditions: No fixation, with fixation. X-axis is genomic coordinates; Y-axis is normalized ATAC-seq read counts. **d**, Insert size distribution of fixed HT1080 cells ATAC-seq with reverse crosslinking step. **e**, genome-wide comparisons of ATAC-seq reproducibility with Nextera Tn5 in non-fixed HT1080 cells (HT). **f**, genome-wide comparisons of ATAC-seq reproducibility with Nextera Tn5 in fixed HT1080 cells (HT) with reverse crosslinking.



### Supplementary Figure 3

#### Confirmation of ATAC-see principle

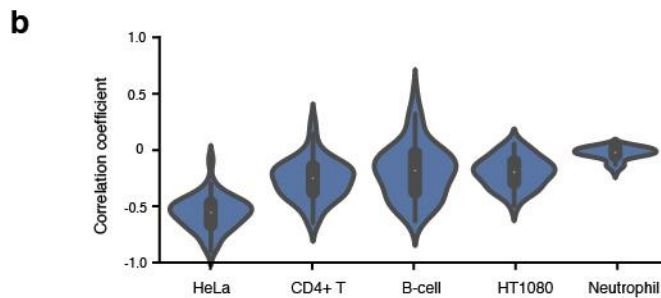
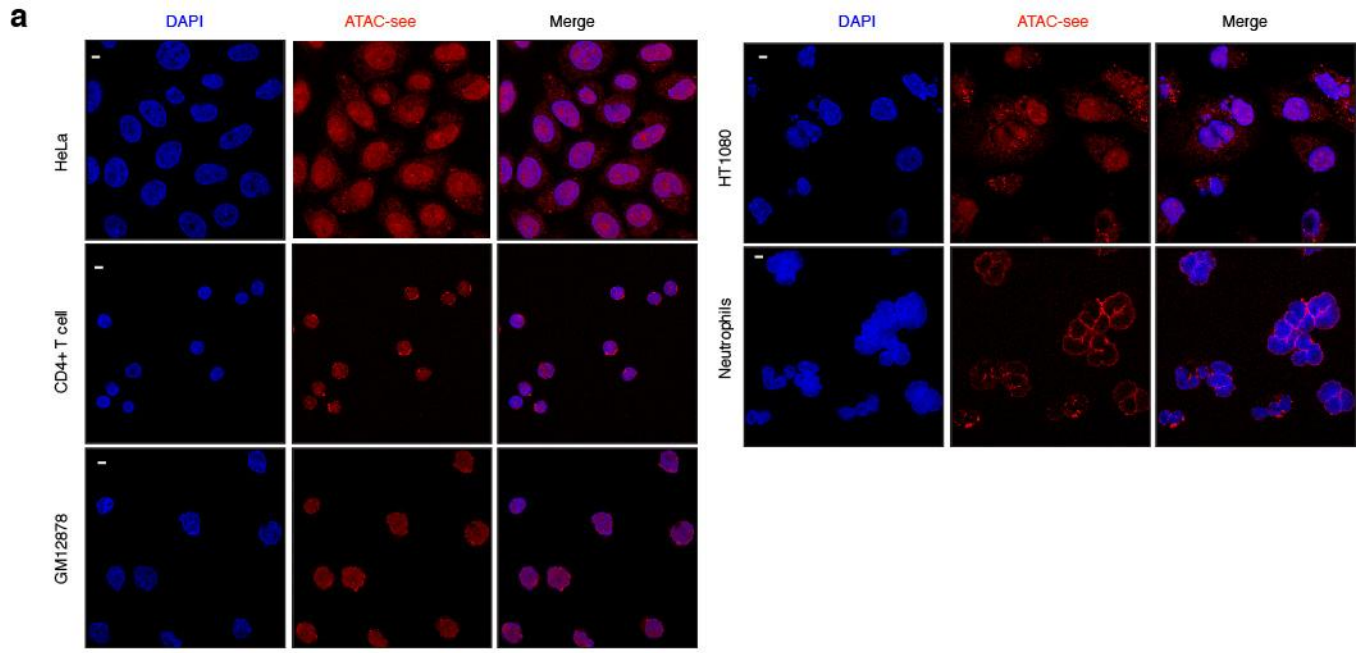
**a**, Left: representative whole frame images of ATAC-see from normal reaction and with 50 mM EDTA treated in HT1080 cells. The white squares in the DAPI channel indicate the cropped cells in Figure 2a. Scale bar=2  $\mu$ m. Right: Signal intensity of ATAC-see was quantified in both normal reaction and 50mM EDTA control samples. 20 cells were counted in each condition with independent replication, \*\* ( $p < 0.005$ , student t-test), error bar is standard deviation. **b**, Representative whole frame images of ATAC-see co-staining with Lamin B1 and mitochondria protein marker (Mito) in HT1080 cells. The white square in the DAPI channel indicates the cropped cells in Figure 2b. Scale bar=2  $\mu$ m. **c**, Correlation coefficient of ATAC-see with different epigenetic markers and active form of RNAP II in HT1080 cells ( $n$ = cell number); RNAPII Ser-2 P = RNA polymerase II phosphorylation ser-2, and RNAPII Ser-5 P= RNA polymerase II phosphorylation ser-5. **d**, Representative images of ATAC-see co-staining with different epigenetic markers and active form of RNAP II in HT1080 cells. **e**, ATAC-see and XIST RNA-FISH in mouse Neural Progenitor Cells. Upper panel: representative images (the white arrows in the ATAC-see panel indicate the location of XIST RNA FISH signal); lower panel: signal intensity quantification of ATAC-see within and outside of XIST area. 30 cells were counted in each condition with independent replicate, \*\* ( $p < 0.005$ , student t-test), error bar is standard deviation.



## Supplementary Figure 4

### Validation of ATAC-seq library after ATAC-seq imaging

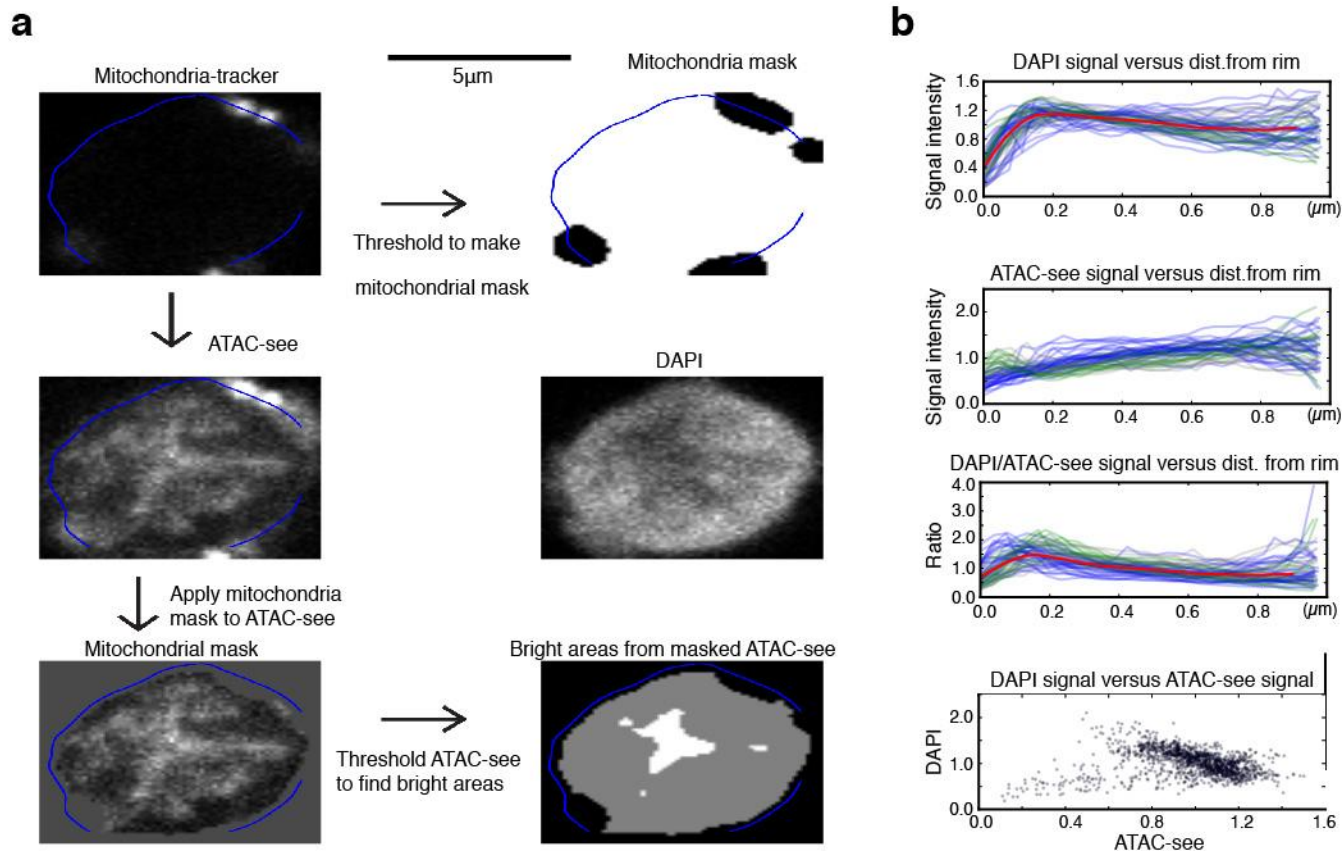
**a**, Schematic workflow of ATAC-seq library preparation after ATAC-seq imaging. **b**, genome-wide comparisons of ATAC-seq reproducibility with Atto-Tn5 on slides from HT1080 cells (HT). **c**, density plot of differential ATAC-seq peaks fold change (FC)(log<sub>2</sub> value) in HT1080(HT) from Atto-Tn5 (on slide) and Nextera Tn5 (in solution) among technical replicates and different enzyme. **d**, Sensitivity assay (with different input) of global DNA accessibility of ATAC-seq after imaging (on slides) from HT1080 cells.



### Supplementary Figure 5

#### ATAC-seq in different cell types

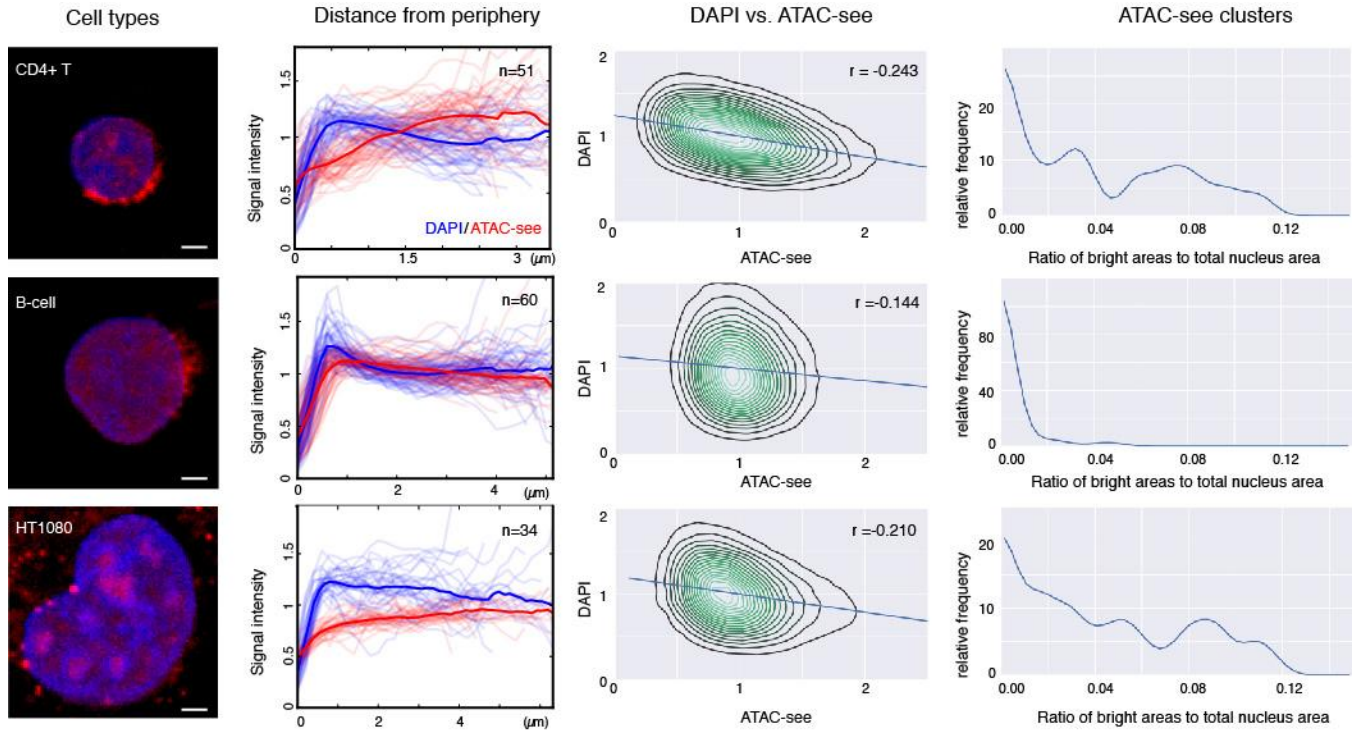
**a**, Representative whole frame images of ATAC-seq from different cell types. Scale bar=2  $\mu$ m. Multi images ( $n>5$ ) were taken in each cell type with independent replicates. **b**, Cell type specific accessible chromatin organization in the intact nucleus. The violin plot represents of the correlation coefficients between ATAC-seq signal and DAPI signal per nucleus in different cell types. Each cell type has a unique profile, and neutrophils stand out as an outlier. B-cell = B-lymphoblastoid GM12878 cells.



**Supplementary Figure 6**

### Systematic imaging processing of ATAC-seq

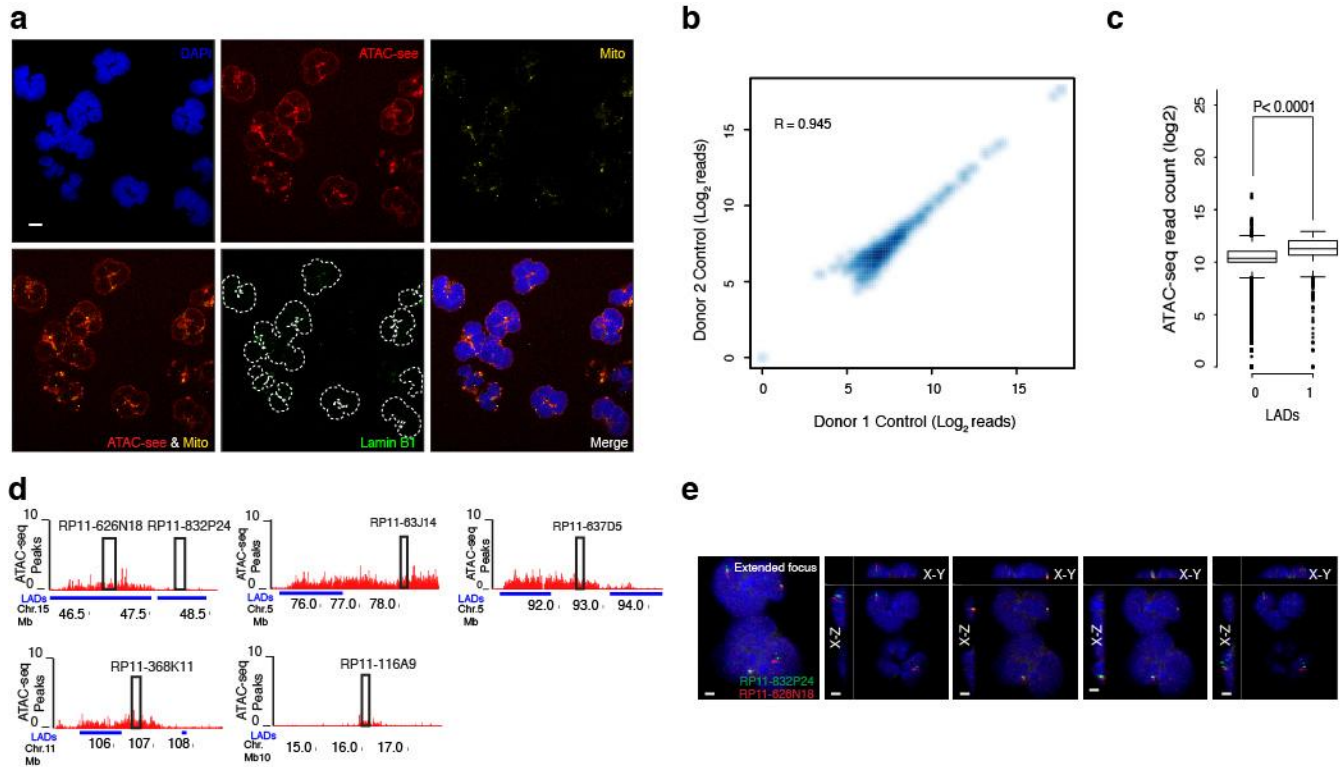
**a**, Schematic of image processing workflow of making mitochondria masks from ATAC-seq and define the bright area of ATAC-seq signal in the nucleus. **b**, Analysis of two different ATAC-seq patterns in CD4<sup>+</sup> T cells. The two plots in the upper panel represent the radial distribution of ATAC-seq signal intensity and DAPI signal intensity in two different groups of CD4<sup>+</sup> T cells. The blue line shows the ATAC-seq signal intensity is low at the nucleus periphery, the green line illustrates the ATAC-seq signal form a rim structure at the nucleus periphery (“Cap pattern”) and the red line indicates the means of all signal intensity. The line plot in the middle panel shows the ratio of ATAC-seq signal intensity and DAPI signal intensity among the population cells. The red lines in the plot represent the average values of single intensity from all groups. The scatter plot in the lower panel represents the correlation of ATAC-seq signal intensity and DAPI signal intensity.



**Supplementary Figure 7**

**Cell type specific accessible chromatin organization in the intact nucleus.**

For each cell type (organized in rows), we display from left to right columns: **(i)** A representative ATAC-see image (red color is ATAC-see and blue is DAPI, scale bar = 2  $\mu\text{m}$ ). **(ii)** Signal intensity of ATAC-see and DAPI as a function of distance from nuclear periphery. Each trace is one nucleus;  $n$  = number of nuclei analyzed. **(iii)** Correlation of ATAC-see and DAPI signal intensity; Pearson correlation ( $r$ ) is indicated. **(iv)** ATAC-see clusters, quantified as the ratio of ATAC-see bright areas vs total nucleus area.

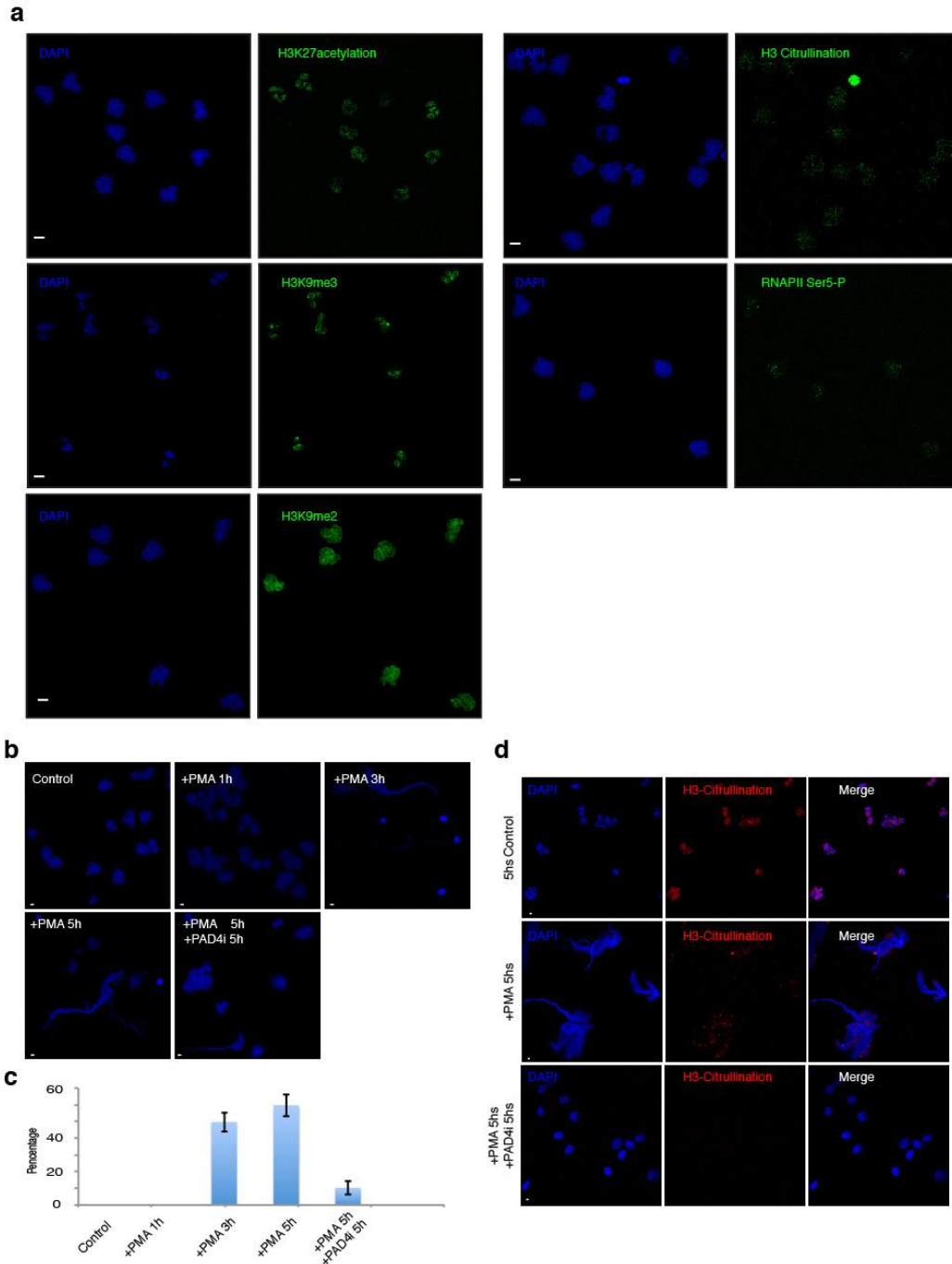


**Supplementary Figure 8**

### Unique pattern of ATAC-seq in the human neutrophil

**a**, Representative whole frame images show ATAC-seq co-staining with Lamin B1 and mitochondria protein marker (Mito) in human neutrophils. The dotted lines in the Lamin B1 panel show the location of the nucleus periphery based on DAPI staining. Multi images ( $n > 5$ ) were taken with independent replicates. Scale bar = 2  $\mu\text{m}$ . **b**, The similarity of ATAC-seq libraries after imaging (on slide) with ATTO-590 from different donors. **c**, The boxplot represents the ATAC-seq peaks enrichment within NKI LADs and outside of NKI LADs, 0 = outside of LADs, 1 = within LADs. **d**, the black squares show the location of BAC clones chosen for DNA FISH according to the genomic tracks of ATAC-seq data in human neutrophil; BAC clones were chosen from both LAD region (RP11-626N18, RP11-832P24) and non-LAD regions (RP11-63J14, RP11-637D5, RP11-368K11, RP11-116A9). **e**, Representative DNA FISH image in human neutrophils: the left panel: extended focus, right four panels: side view of 3D images. X-Y = X dimension and Y dimension, X-Z = X dimension and Z dimension. Scale bar = 2  $\mu\text{m}$ .

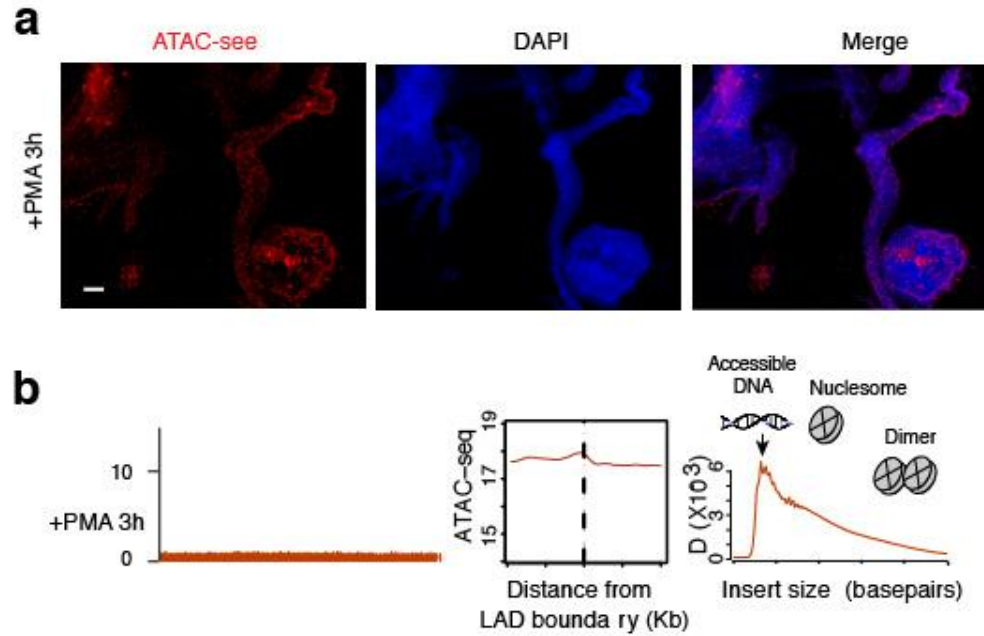




## Supplementary Figure 9

### Immunostaining in human neutrophils and NETosis

**a**, Immunostaining of epigenetic markers in human neutrophil. RNAPII Ser-5 P= RNA polymerase II phosphorylation ser-5. Multi images ( $n>5$ ) were taken with independent replicates in each staining. **b**, The representative images show DAPI staining of control, PMA and PAD4 inhibitor (PAD4i) treated human neutrophils. Scale bar= $2\ \mu\text{m}$ . **c**, The bar graph presents the quantification of NETosis in PMA and PAD4 inhibitor treated human neutrophils based on DAPI staining, Error bar= standard deviation;  $n=60\times 2$  for each condition. **d**, Representative whole frame images of H3 citrullination staining in control, 5 h PMA treated and 5 h PAD4 inhibitor (PAD4i) treated human neutrophils. Multi images ( $n=5\times 2$ ) were taken in each condition. Scale bar= $2\ \mu\text{m}$ .

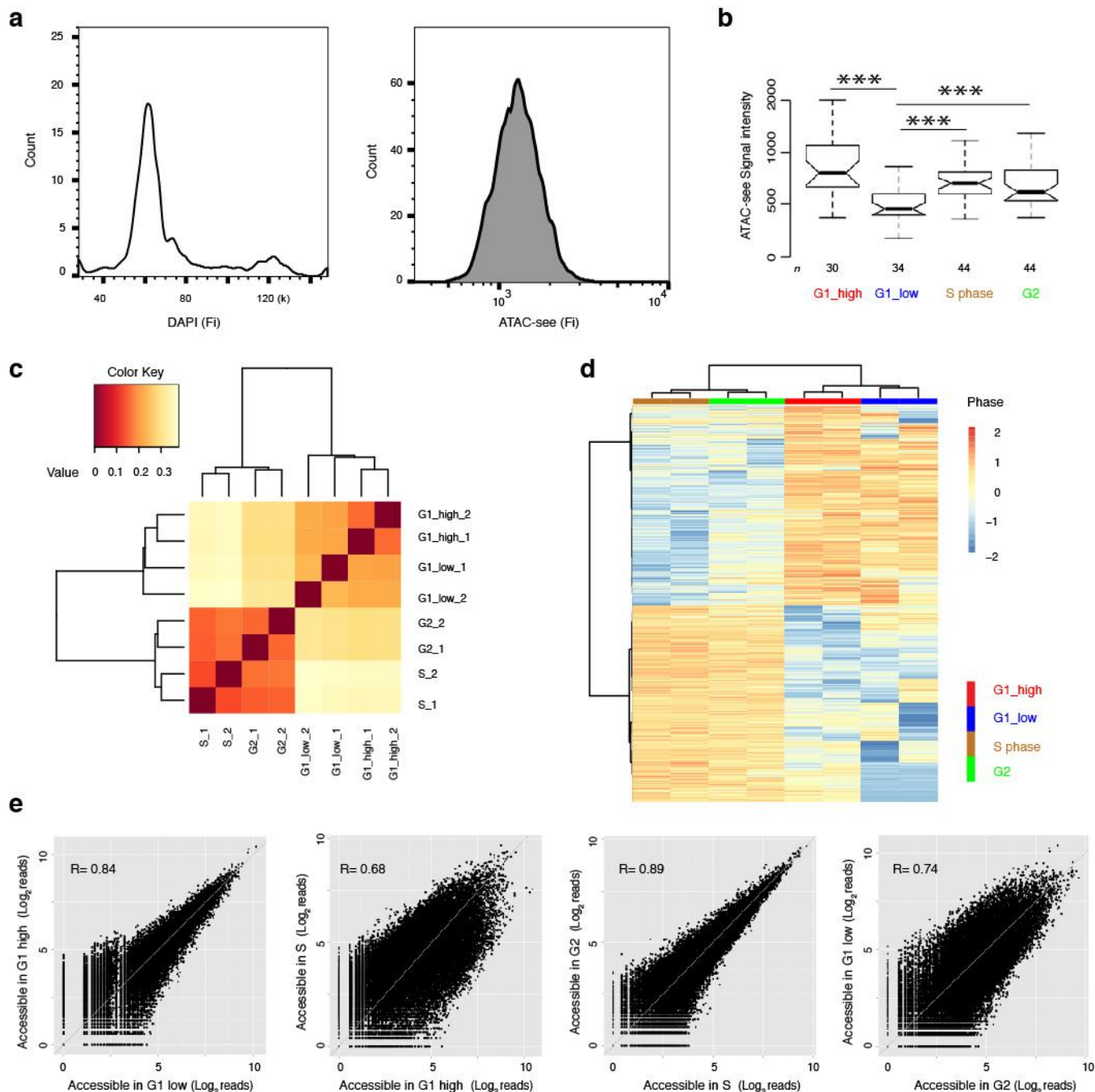


**Supplementary Figure 10**

**ATAC-seq and -see in the human NETosis.**

**a**, Representative images ATAC-seq in 3h PMA stimulation human neutrophils. Scale bar=2  $\mu$ m.

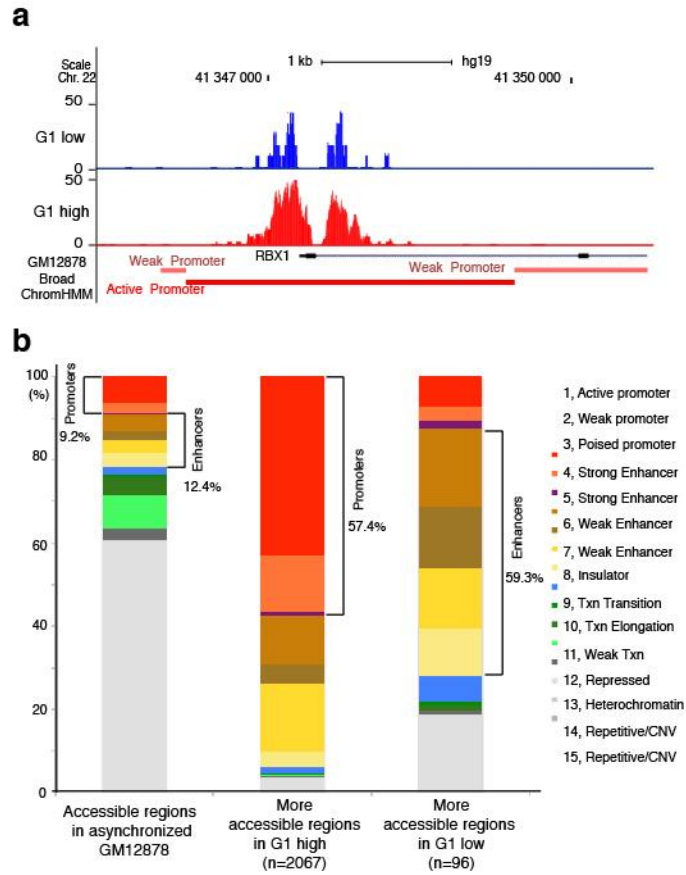
**b**, Epigenomic landscape of 3h PMA stimulation human neutrophils. Left column: Genomic tracks of ATAC-seq data. Locations of NKI Lamin associated domains (LADs) are indicated. X-axis is genomic coordinates; Y-axis is ATAC-seq normalized read counts. Middle: Metagene plot of ATAC-seq signal centered on the boundary between NKI LADs and neighboring sequences. Right: ATAC-seq insert size distribution for the corresponding samples. Diagnostic insert sizes for accessible DNA, mononucleosome, and di-nucleosome are labeled.



## Supplementary Figure 11

### FACS analysis of ATAC-seq and DAPI dual staining in GM12878 cells.

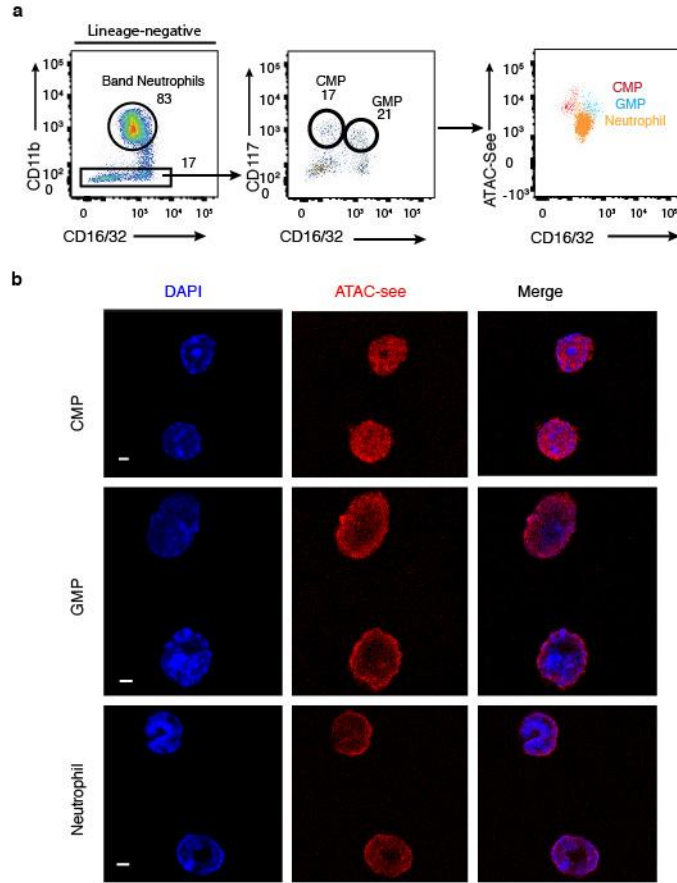
**a**, Left panel: cell cycle histogram from DAPI staining. Right panel: ATAC-seq signal intensity histogram. **b**, violin plots show the ATAC-seq signal intensity of the sorted cells measured by confocal microscopy.  $n$  = cell number measured under the confocal microscopy. \*\*\* ( $p < 0.001$ , ANOVA test). **c**, Heatmap of the correlation coefficient of different FACS sorted groups. Each group contains independent replicate. **d**, Heatmap represents the cluster of accessible regions ( $FD > 2$ ,  $FDR < 0.05$ ) in FACS sorted groups: G1 low, G1 high, S phase and G2. Each group contains independent replicate. **e**, genome-wide comparison of accessible regions between different ATAC-seq sorted groups: G1 low vs. G1 high; S vs. G1 high; G2 vs. S; G1 low vs. G2.



## Supplementary Figure 12

### Classification of accessible regions in G1

**a**, Genomic tracks of ATAC-seq data from ATAC-seq G1 low and G1 high group after FACS sorting. X-axis is genomic coordinates; Y-axis is normalized ATAC-seq read counts. **b**, ChromHMM classification of accessible regions in asynchronous GM12878 cells (left), more accessible G1 high (middle) and more accessible G1 low regions (right). Each chromatin state was color-coded.



**Supplementary Figure 13**

**FACS analysis of ATAC-see and cell surface marker staining in mouse bone marrow progenitor cells.**

**a:** FACS plots was gated (see Methods) as common myeloid progenitors (CMP), granulocyte-macrophage progenitors (GMP), and band neutrophils; **b:** Representative images of sorted populations shown in (a) by confocal microscopy, and multi images ( $n > 5$ ) were taken with independent replicates in each group.

<b>Table 1: significant more accessible regions G1 high vs. G1 low</b>			
Peak_location	logFC	PValue	FDR
chr20:26188599-26189488_mergedPeaks.20630_MIR663A_129_LOC2_84801_826	1.0282 69816	9.13E- 30	3.46E- 25
chr9:139685135-139685900_mergedPeaks.38317_LCN15_26552_TME_M141_259	1.5743 52816	1.54E- 16	1.94E- 12
chr22:41346941-41347929_mergedPeaks.21585_RBX1_85_MIR1281_141081	1.7489 22804	4.81E- 16	4.56E- 12
chr19:16770544-16771307_mergedPeaks.16146_MED26_31910_SMI_M7_43	2.3634 81668	2.12E- 15	1.61E- 11
chr16:22201584-22202805_mergedPeaks.12865_VWA3A_98336_EEF2K_15397	1.0815 21971	3.14E- 15	1.98E- 11
chr19:10764416-10765252_mergedPeaks.16015_ILF3-AS1_286_ILF3_102	1.6432 15777	1.03E- 12	4.89E- 09
chr17:43394033-43394959_mergedPeaks.14380_MAP3K14_66_ARHG_AP27_113167	1.4794 3126	3.92E- 12	1.49E- 08
chr7:105924922-105925994_mergedPeaks.34038_SYPL1_172365_NA_MPT_180	1.5403 92696	7.15E- 12	2.46E- 08
chr16:46722531-46723926_mergedPeaks.13044_VPS35_84_ORC6_329	1.1873 21065	8.64E- 12	2.73E- 08
chr19:18391749-18392956_mergedPeaks.16190_KIAA1683_7033_JUN_D_114	1.2446 87111	4.02E- 11	1.17E- 07
chr15:72409848-72411036_mergedPeaks.12110_MYO9A_2_GRAMD2_79694	1.4917 53705	4.32E- 11	1.17E- 07
chr13:115046652-115047631_mergedPeaks.10461_UPF3A_83_CHAMP1_32823	1.5171 74588	5.07E- 11	1.28E- 07
chr17:62971301-62972250_mergedPeaks.14607_AMZ2P1_72_GNA13_80117	1.6360 44515	6.01E- 11	1.43E- 07
chr19:15236004-15236880_mergedPeaks.16119_SYDE1_18229_ILVBL_168	1.6909 51518	1.23E- 10	2.60E- 07
chr19:8454664-8455937_mergedPeaks.15975_RAB11B_96_RAB11B-	1.3628 23772	1.79E- 10	3.40E- 07

AS1_275			
chr5:179050181-179051047_mergedPeaks.29844_LOC101928445_19872_HNRNPH1_97	2.261009189	3.06E-10	5.28E-07
chr17:80055849-80056916_mergedPeaks.14881_FASN_276_CCDC57_114307	1.241356845	4.24E-10	7.00E-07
chr9:95857593-95858715_mergedPeaks.37712_SUSD3_37185_C9orf89_295	1.148327207	6.30E-10	9.56E-07
chr19:4471487-4472353_mergedPeaks.15910_UBXN6_16625_HDGF_RP2_334	1.072635336	1.23E-09	1.80E-06
chr1:10092590-10093370_mergedPeaks.130_RBP7_35726_UBE4B_60	1.486261948	1.32E-09	1.81E-06
chr17:62502154-62503189_mergedPeaks.14600_DDX5_187_CEP95_486	1.468353393	1.33E-09	1.81E-06
chr3:49058605-49059631_mergedPeaks.22485_NDUFAF3_501_IMP_H2_7757	1.225283207	2.11E-09	2.67E-06
chr16:89574510-89575182_mergedPeaks.13842_SPG7_51_RPL13_52218	2.81570218	2.30E-09	2.82E-06
chr19:2096094-2097076_mergedPeaks.15854_MOB3A_316_IZUMO4_282	1.274320549	3.65E-09	4.07E-06
chr19:54974808-54976102_mergedPeaks.16713_LENG9_561_CDC42EP5_8982	1.489682258	4.38E-09	4.71E-06
chr19:17580341-17581380_mergedPeaks.16163_NXNL1_9135_SLC27A1_439	1.393582122	4.47E-09	4.71E-06
chr3:23987060-23988069_mergedPeaks.22131_NR1D2_814_LINC00691_157174	1.146234301	4.79E-09	4.78E-06
chr11:694964-696008_mergedPeaks.5478_DRD4_58182_TMEM80_104	1.065384492	5.33E-09	5.06E-06
chr11:65382620-65383351_mergedPeaks.6366_MAP3K11_1265_PC_NXL3_797	1.304743544	7.11E-09	6.58E-06
chr22:50963872-50964738_mergedPeaks.21682_NCAPH2_17661_SCO	2.084412832	8.20E-09	7.03E-06

2_563			
chr19:4867516-4868151_mergedPeaks.15917_PLIN3_53_ARRDC5_35046	2.1284 48374	8.20E- 09	7.03E- 06
chr9:96928088-96929342_mergedPeaks.37723_PTPDC1_135640_MIRLET7A1_9523	1.0403 0697	8.33E- 09	7.03E- 06
chr9:115095112-115096407_mergedPeaks.37988_SUSD1_158182_PTBP3_185	1.1937 99966	9.38E- 09	7.58E- 06
chr19:14247260-14248128_mergedPeaks.16106_ASF1B_254_LOC100507373_269	1.0694 62193	9.70E- 09	7.67E- 06
chr2:114361039-114362053_mergedPeaks.18259_DDX11L2_2393_RPL23AP7_23169	1.1174 03604	1.03E- 08	7.95E- 06
chr14:67707709-67708604_mergedPeaks.11086_MPP5_145_ATP6V1D_118564	1.7128 41482	1.12E- 08	8.48E- 06
chr17:74733073-74734183_mergedPeaks.14805_MFSD11_46_LOC101928514_61497	1.2866 97033	1.24E- 08	9.21E- 06
chr9:139980952-139981744_mergedPeaks.38330_MAN1B1-AS1_79_MAN1B1_30	1.5252 62384	1.45E- 08	1.06E- 05
chr17:44270125-44271591_mergedPeaks.14388_KANSL1_586_KANSL1-AS1_80	1.3377 69749	1.68E- 08	1.18E- 05
chr1:174968319-174969377_mergedPeaks.2251_CACYBP_278_MRPS14_23743	1.0405 39286	1.68E- 08	1.18E- 05
chr8:124428426-124429302_mergedPeaks.36506_ATAD2_20159_WDYHV1_100	1.0193 45472	2.40E- 08	1.57E- 05
chr16:31470482-31471478_mergedPeaks.13023_ARMC5_664_TGFB1I1_12495	1.1775 88593	3.02E- 08	1.91E- 05
chr2:197241886-197242622_mergedPeaks.19515_AC020571.3_117507_HECW2_215081	3.1398 91973	3.19E- 08	1.98E- 05
chr20:39656956-39657639_mergedPeaks.20753_MAFB_339417_TOP1_164	1.5725 97025	3.23E- 08	1.98E- 05
chr7:100026208-100027605_mergedPeaks.33936_ZCWPW1_475_MEP	1.2961 11508	4.12E- 08	2.45E- 05



CE_347			
chr19:59084107-59085106_mergedPeaks.16793_AC016629.8_14054_MZF1_336	1.0485 58379	4.18E- 08	2.45E- 05
chr16:89307098-89307813_mergedPeaks.13827_ZNF778_23345_AC137932.6_80085	3.1820 74842	4.20E- 08	2.45E- 05
chr19:56110302-56111332_mergedPeaks.16729_ZNF579_18606_FIZ1_76	1.2992 93298	4.38E- 08	2.52E- 05
chr17:43225474-43226442_mergedPeaks.14374_HEXIM1_1275_HEXIM2_12305	1.0960 28164	4.45E- 08	2.52E- 05
chr16:28835047-28835905_mergedPeaks.12940_ATXN2L_1108_MIR4721_19852	1.7554 5777	5.34E- 08	2.94E- 05
chr22:41487314-41488142_mergedPeaks.21586_RBX1_140378_MIR1281_788	1.4103 20353	5.53E- 08	3.00E- 05
chr16:53164257-53165092_mergedPeaks.13158_CHD9_75730_LOC643802_240367	1.0721 33	5.92E- 08	3.16E- 05
chr14:58894056-58894823_mergedPeaks.10950_TIMM9_207_KIAA0586_270	3.1537 02927	7.05E- 08	3.72E- 05
chr14:77494784-77495387_mergedPeaks.11215_IRF2BPL_43_RP11-7F17.5_12306	2.0838 54905	7.75E- 08	4.03E- 05
chr19:44037243-44037780_mergedPeaks.16483_ZNF575_172_XRCC1_42219	2.3542 98902	7.87E- 08	4.03E- 05
chr22:46431467-46432130_mergedPeaks.21645_LOC730668_29303_LINC00899_8950	1.4883 73171	8.36E- 08	4.23E- 05
chr19:44100062-44100772_mergedPeaks.16486_IRGQ_130_ZNF576_320	1.8188 92089	8.81E- 08	4.34E- 05
chr16:88518982-88519861_mergedPeaks.13797_ZNF469_25543_ZFP M1_592	1.2089 78191	9.30E- 08	4.52E- 05
chr19:19516122-19516755_mergedPeaks.16218_GATAD2A_19797_TS SK6_110031	1.8119 02626	1.15E- 07	5.54E- 05
chr4:83205973-83206615_mergedPeaks.25661_RASGEF1B_813233_	2.1902 53849	1.19E- 07	5.63E- 05

HNRNPD_88855			
chr16:84651329-84652035_mergedPeaks.13709_TLDC1_113394_COTL1_20	2.0128 46955	1.36E- 07	6.31E- 05
chr22:24950954-24952063_mergedPeaks.21424_UPB1_60258_SNRPD3_109	1.2958 84231	1.51E- 07	6.91E- 05
chr19:18747028-18747934_mergedPeaks.16206_TMEN59L_23800_KLHL26_356	1.3592 54674	1.70E- 07	7.67E- 05
chr19:11545868-11546587_mergedPeaks.16034_PRKCSH_150_ELAVL3_45576	1.1376 99145	1.73E- 07	7.72E- 05
chr19:45250526-45250976_mergedPeaks.16508_CEACAM16_48331_BCL3_1226	3.0991 1598	1.93E- 07	8.48E- 05
chr12:113658665-113659429_mergedPeaks.9075_IQCD_148_TPCN1_212	1.0403 31285	1.94E- 07	8.48E- 05
chr7:104652854-104653787_mergedPeaks.34014_LINC01004_21708_KMT2E-AS1_1268	1.0460 52352	2.00E- 07	8.60E- 05
chr19:42746599-42747525_mergedPeaks.16466_GSK3A_326_ERF_12247	1.2241 25702	2.06E- 07	8.78E- 05
chr3:49044544-49045576_mergedPeaks.22484_WDR6_424_DALRD3_10981	1.7561 7062	2.12E- 07	8.94E- 05
chr19:9929561-9930452_mergedPeaks.15988_FBXL12_275_UBL5_8549	1.0764 6344	2.28E- 07	9.51E- 05
chr20:47662605-47663541_mergedPeaks.20843_CSE1L_291_STAU1_141831	1.7345 68443	2.64E- 07	0.0001 06766
chr6:31794977-31795838_mergedPeaks.30474_HSPA1A_12117_HSPA1B_104	1.1383 34805	2.69E- 07	0.0001 07478
chr3:49130982-49132087_mergedPeaks.22487_QRICH1_30_MIR6890_5813	1.5449 72567	2.93E- 07	0.0001 13592
chr19:41256287-41257250_mergedPeaks.16440_SNRPA_10_MIA_24513	1.1181 07858	3.01E- 07	0.0001 14982
chr17:65821314-65822240_mergedPeaks.14653_SNORA38B_84992_B	1.9078 76854	3.09E- 07	0.0001 14982

PTF_2			
chr12:123849219-123850512_mergedPeaks.9207_MIR8072_475_SETD8_18838	1.3302 61645	3.09E- 07	0.0001 14982
chr19:8273833-8274695_mergedPeaks.15970_CERS4_48_CD320_98976	2.0171 80826	3.12E- 07	0.0001 14982
chr10:12084690-12085584_mergedPeaks.3809_PROSER2-AS1_148428_UPF2_32	1.6237 36437	3.39E- 07	0.0001 22663
chr17:61850700-61851673_mergedPeaks.14590_CCDC47_98_DDX42_362	1.2378 08356	3.86E- 07	0.0001 37356
chr6:148345-149031_mergedPeaks.29884_LINC00266-3_529_DUSP22_143368	1.2475 10855	3.87E- 07	0.0001 37356
chr19:2475826-2476840_mergedPeaks.15863_GADD45B_211_GNG7_226413	1.1933 31086	4.03E- 07	0.0001 4156
chr19:41903114-41903688_mergedPeaks.16450_EXOSC5_145_BCKDH A_292	2.3276 20368	4.40E- 07	0.0001 53166
chr17:72868955-72869792_mergedPeaks.14754_FDXR_217_FADS6_20332	1.2147 89509	4.44E- 07	0.0001 53166
chr11:66383767-66384686_mergedPeaks.6403_RBM14_174_RBM4_21861	1.5020 97469	4.95E- 07	0.0001 67537
chr16:28935951-28937058_mergedPeaks.12946_ATP2A1_45141_RAB EP2_28	1.1312 4103	5.00E- 07	0.0001 68048
chr19:53836711-53837197_mergedPeaks.16695_BIRC8_42079_ZNF845_47	3.7231 26063	5.37E- 07	0.0001 77145
chr18:12883726-12884590_mergedPeaks.15032_RP11-973H7.4_134737_PTPN2_176	1.1076 76893	5.57E- 07	0.0001 80519
chr1:173991144-173991858_mergedPeaks.2235_RC3H1_29291_GPR52_425710	1.9755 12601	6.22E- 07	0.0001 9995
chr17:38296194-38297006_mergedPeaks.14290_CASC3_94_MIR6866_21585	2.0403 62657	6.33E- 07	0.0002 01993
chr3:160116813-160117640_mergedPeaks.24031_SMC4_135_IFT80_9	1.6050 10617	6.74E- 07	0.0002 11414

4			
chr11:33933969-33934629_mergedPeaks.5984_LMO2_20463_CAPRIN1_138930	7.417803161	7.50E-07	0.000231248
chr20:49347438-49348217_mergedPeaks.20874_FAM65C_94372_PARD6B_253	1.195002669	7.83E-07	0.000239713
chr12:131356016-131356886_mergedPeaks.9287_STX2_32632_RAN_165	1.267497181	8.11E-07	0.00024631
chr20:55043297-55043913_mergedPeaks.20940_CASS4_56292_RTFC1_35	2.130556346	8.31E-07	0.000250394
chr4:1685815-1686445_mergedPeaks.24709_FAM53A_412_SLBP_27900	1.654645196	8.42E-07	0.000250394
chr3:51533303-51534473_mergedPeaks.22527_RBM15B_105190_VPRBP_130	1.020401673	8.45E-07	0.000250394
chr1:173445844-173446602_mergedPeaks.2228_TNFSF4_269752_LOC100506023_71	1.647440961	8.75E-07	0.000257296
chr22:42228543-42229341_mergedPeaks.21604_CCDC134_32265_SREBF2_140	1.229489628	8.85E-07	0.000258259
chr19:13953145-13953896_mergedPeaks.16093_MIR23A_6047_MIR181C_31992	1.967138729	9.11E-07	0.000262676
chr16:11836243-11837133_mergedPeaks.12761_TXNDC11_40_ZC3H7A_54426	1.217560557	9.14E-07	0.000262676
chr22:39548401-39549047_mergedPeaks.21564_CBX7_186_PDGF8_8190	1.89016083	9.32E-07	0.000266034
chr17:29876602-29877202_mergedPeaks.14200_MIR4724_15002_MIR193A_10112	3.012732536	9.57E-07	0.000270991
chr3:112280420-112281468_mergedPeaks.23299_SLC35A5_88_LOC100506621_39872	1.227537374	1.02E-06	0.00028618
chr19:50143279-50143952_mergedPeaks.16630_RRAS_215_SCAF1_1766	1.743539253	1.04E-06	0.000289443
chr6:34216669-34217310_mergedPeaks.30531_C6orf1_104_NUDT3_	1.617540169	1.10E-06	0.00030156

143468			
chr1:25942705-25943454_mergedPeaks.302_LDLRAP1_73004_MAN1C1_879	1.8467 2706	1.11E- 06	0.0003 0156
chr5:176738820-176739626_mergedPeaks.29807_PRELID1_8461_MXD3_69	1.4298 78118	1.11E- 06	0.0003 0156
chr17:20946093-20947075_mergedPeaks.14118_USP22_232_HP0894_2_32284	1.1060 31533	1.12E- 06	0.0003 0156
chr11:62572403-62573235_mergedPeaks.6291_MIR6514_12576_NXF1_145	1.3744 75844	1.12E- 06	0.0003 0156
chr17:45726601-45727534_mergedPeaks.14401_NPEPPS_118624_KP_NB1_1494	1.0161 16383	1.17E- 06	0.0003 13099
chr11:568288-568941_mergedPeaks.5475_MIR210HG_157_LOC143666_7271	1.9748 17773	1.22E- 06	0.0003 22612
chr19:11071240-11072078_mergedPeaks.16023_C19orf52_32236_SMARCA4_23168	1.3515 01456	1.30E- 06	0.0003 43283
chr15:72523293-72523947_mergedPeaks.12114_PKM_1557_PARP6_40008	1.5349 62979	1.35E- 06	0.0003 51736
chr17:47439060-47440013_mergedPeaks.14430_MIR6129_73720_RP11-1079K10.3_207	1.4592 77326	1.38E- 06	0.0003 55288
chr20:2082730-2083637_mergedPeaks.20301_STK35_656_LOC388780_104390	2.1442 43682	1.39E- 06	0.0003 55289
chr17:76182938-76183677_mergedPeaks.14827_TK1_22_AFMID_90	1.5289 15773	1.43E- 06	0.0003 63579
chr12:53894325-53895432_mergedPeaks.8109_MAP3K12_1434_TARBP2_498	1.1538 99508	1.46E- 06	0.0003 6646
chr5:109024768-109025805_mergedPeaks.28644_MAN2A1_220_LOC100289673_193596	1.1638 17508	1.53E- 06	0.0003 80808
chr16:1020784-1021303_mergedPeaks.12575_LOC101929387_50011_LMF1_10275	3.3789 84922	1.55E- 06	0.0003 84877
chr19:4791188-4791916_mergedPeaks.15914_MIR7-3_20871_FEM1A_175	1.1048 1935	1.56E- 06	0.0003 84877

chr5:137800255- 137801425_mergedPeaks.29134_REEP2_26151_EGR 1_340	1.0055 43644	1.69E- 06	0.0004 12569
chr16:67514807- 67515461_mergedPeaks.13356_ATP6V0D1_45_AGRP _2582	1.7699 93465	1.73E- 06	0.0004 19628
chr10:54577750- 54578283_mergedPeaks.4317_MBL2_46556_PCDH15 _1983035	3.7086 43572	1.90E- 06	0.0004 50417
chr14:81936428- 81937107_mergedPeaks.11264_RP11- 299L17.3_20266_SEL1L_63438	2.8281 75427	1.98E- 06	0.0004 66682
chr17:7210159- 7211133_mergedPeaks.13969_YBX2_12770_EIF5A_2 09	1.1425 15871	2.16E- 06	0.0005 02624
chr16:2723191- 2723864_mergedPeaks.12619_ERVK13- 1_87_KCTD5_8967	1.2174 30081	2.34E- 06	0.0005 37077
chr11:119076432- 119077222_mergedPeaks.7120_CCDC153_10243_CB L_158	1.5727 78575	2.37E- 06	0.0005 38553
chr19:40324033- 40325020_mergedPeaks.16416_MIR6719_4084_DYR K1B_315	1.2104 61727	2.37E- 06	0.0005 38553
chr10:103590213- 103590916_mergedPeaks.5030_KCNIP2- AS1_11740_KCNIP2_13113	1.6834 19069	2.51E- 06	0.0005 6643
chr1:149857989- 149858863_mergedPeaks.1730_HIST2H2BE_194_HIS T2H2AC_98	1.1673 34059	2.52E- 06	0.0005 6643
chr20:39945770- 39946652_mergedPeaks.20762_ZHX3_17472_LPIN3_ 23348	1.4205 37735	2.56E- 06	0.0005 71251
chrX:48814995- 48815971_mergedPeaks.38897_OTUD5_590_KCND1_ 12768	1.1720 33876	2.57E- 06	0.0005 71251
chr1:39456441- 39457159_mergedPeaks.491_RHBDL2_49344_AKIRI N1_115	1.8478 68978	2.78E- 06	0.0006 10438
chr3:10157039- 10157730_mergedPeaks.21872_BRK1_52_VHL_2593 4	1.7342 98203	2.79E- 06	0.0006 10438
chr1:219394225- 219394784_mergedPeaks.3016_LYPLAL1_47313_RN U5F-1_652114	3.1820 03734	2.80E- 06	0.0006 10438

chr9:139010217- 139010961_mergedPeaks.38304_C9orf69_312_LHX3_86366	1.5638 37412	3.02E- 06	0.0006 54595
chr6:132833624- 132834500_mergedPeaks.31926_MOXD1_111398_STX7_275	1.5946 83428	3.05E- 06	0.0006 57362
chr17:7517983- 7518776_mergedPeaks.13981_FXR2_164_SAT2_12815	1.0731 70861	3.17E- 06	0.0006 78705
chr19:38826775- 38827801_mergedPeaks.16382_CATSPERG_846_PSM D8_37901	1.0351 90803	3.23E- 06	0.0006 89044
chr12:82986852- 82987418_mergedPeaks.8556_METTL25_234860_T MTC2_93798	7.3051 96768	3.26E- 06	0.0006 90361
chr7:32930746- 32932009_mergedPeaks.33126_LINC00997_133480_KBTBD2_91	1.0825 31682	3.31E- 06	0.0006 94732
chr4:7104975- 7105417_mergedPeaks.24781_FLJ36777_93_SORCS2_89177	7.5979 35406	3.31E- 06	0.0006 94732
chr1:31190844-31191713_mergedPeaks.379_RP11-111I12.1_680819_MATN1-AS1_340	1.0304 25455	3.37E- 06	0.0007 03007
chr19:40854101- 40854794_mergedPeaks.16424_C19orf47_13_MIR6796_21305	1.4475 07818	3.54E- 06	0.0007 33269
chr3:156892409- 156893254_mergedPeaks.23986_CCNL1_14349_PTX3_261748	1.3825 74116	3.61E- 06	0.0007 44002
chr19:1248600- 1249932_mergedPeaks.15821_MIDN_715_CIRBP_20000	1.0744 94136	3.64E- 06	0.0007 46084
chr4:180051209- 180051786_mergedPeaks.27148_LINC01099_1222407_LINC00290_2028805	- 2.0714 8179	3.66E- 06	0.0007 46084
chr10:45454793- 45455335_mergedPeaks.4225_TMEM72_48301_TME M72-AS1_73	2.1624 25393	3.68E- 06	0.0007 46885
chr12:69201403- 69202171_mergedPeaks.8351_LOC100130075_2513_MDM2_164	1.2515 90899	3.75E- 06	0.0007 56352
chr9:35115789- 35116550_mergedPeaks.37322_FAM214B_276_UNC13B_45819	1.6786 00528	3.83E- 06	0.0007 69823
chr16:2042025-	2.3621	3.86E-	0.0007

2042599_mergedPeaks.12598_SYNGR3_2367_ZNF598_17510	46175	06	70847
chr19:2151375-2152068_mergedPeaks.15855_AP3D1_165_DOT1L_12426	1.4140 39693	4.17E- 06	0.0008 23261
chr13:41634810-41636331_mergedPeaks.9597_ELF1_79152_WBP4_126	1.0494 36482	4.30E- 06	0.0008 46232
chr20:62496196-62496735_mergedPeaks.21013_ABHD16B_3900_TP D52L2_115	2.1283 89502	4.35E- 06	0.0008 47209
chr6:167369950-167371089_mergedPeaks.32565_RNASET2_442_MIR 3939_40881	1.6683 02384	4.35E- 06	0.0008 47209
chr1:29507855-29508834_mergedPeaks.376_TMEM200B_57923_SR SF4_293	1.3831 81233	4.54E- 06	0.0008 71419
chr20:305814-306270_mergedPeaks.20277_RP5- 1103G7.4_146_SOX12_172	2.1736 89827	4.59E- 06	0.0008 71419
chr19:56165061-56166521_mergedPeaks.16733_U2AF2_376_EPN1_2 0769	1.1021 08908	4.59E- 06	0.0008 71419
chr13:24153002-24153876_mergedPeaks.9374_LINC00327_109789_T NFRSF19_59	1.7574 78873	4.67E- 06	0.0008 71419
chr19:50528409-50529251_mergedPeaks.16643_VRK3_25_ZNF473_3 81	1.2143 75968	4.67E- 06	0.0008 71419
chr17:47269836-47270590_mergedPeaks.14427_B4GALNT2_59885_G NGT2_16549	1.1903 88217	4.68E- 06	0.0008 71419
chr16:18937043-18938187_mergedPeaks.12832_ARL6IP1_124758_S MG1_111	1.0613 4988	4.86E- 06	0.0008 99804
chr19:5622621-5623258_mergedPeaks.15922_SAFB2_1_SAFB_106	1.6726 76449	4.92E- 06	0.0009 06717
chr5:179049671-179050016_mergedPeaks.29843_LOC101928445_19 101_HNRNPH1_868	3.5077 20058	5.04E- 06	0.0009 23678
chr6:30684895-30685624_mergedPeaks.30441_NRM_26353_MDC1_ 199	1.2258 85443	5.08E- 06	0.0009 26694
chr22:39715324-39716040_mergedPeaks.21566_RPL3_12_SYNGR1_3 0271	1.4713 54348	5.17E- 06	0.0009 33994



chr17:57969965- 57970790_mergedPeaks.14556_TUBD1_71_RPS6KB1_29	1.6036 20414	5.48E- 06	0.0009 80475
chr3:5019098- 5019527_mergedPeaks.21783_BHLHE40- AS1_71126_BHLHE40_1784	2.0788 85996	5.54E- 06	0.0009 87499
chr11:64645723- 64646556_mergedPeaks.6333_CDC42BPG_34098_EH D1_101	1.0493 94082	5.63E- 06	0.0009 95801
chr14:54955228- 54955985_mergedPeaks.10892_CNIH1_47458_GMFB_138	2.8885 81414	5.64E- 06	0.0009 95801
chr14:64970273- 64971073_mergedPeaks.11055_ZBTB25_119_ZBTB1_618	1.4692 91735	5.70E- 06	0.0010 01333
chr14:35342713- 35343520_mergedPeaks.10677_CFL2_159355_BAZ1 A_1737	2.1478 62432	5.73E- 06	0.0010 01333
chr1:240739544- 240739914_mergedPeaks.3433_FMN2_484545_GRE M2_35733	- 6.6998 02982	6.17E- 06	0.0010 66786
chr11:66886234- 66886869_mergedPeaks.6409_RHOD_62263_KDM2A_120954	1.2502 00398	6.21E- 06	0.0010 66786
chr15:44719148- 44719947_mergedPeaks.11793_CASC4_138639_CTD SPL2_31	1.9017 4092	6.45E- 06	0.0010 87885
chr16:89767934- 89768755_mergedPeaks.13849_SPATA2L_223_VPS9 D1-AS1_9919	1.2036 08575	6.46E- 06	0.0010 87885
chr9:140024067- 140024394_mergedPeaks.38333_DPP7_15035_GRIN 1_9378	3.5350 54714	6.48E- 06	0.0010 87885
chr16:691675- 692019_mergedPeaks.12564_C16orf13_5481_FAM19 5A_1	7.6827 15875	6.48E- 06	0.0010 87885
chr19:1905016- 1905750_mergedPeaks.15847_SCAMP4_11_CSNK1G2_35777	1.4926 77594	6.57E- 06	0.0010 96444
chr22:42486575- 42487255_mergedPeaks.21611_NDUFA6_27_NDUFA 6-AS1_21	1.6497 25503	6.59E- 06	0.0010 96444
chr1:169680421- 169681037_mergedPeaks.2145_SELP_81352_SELL_1 14	7.1763 45478	6.94E- 06	0.0011 49539

chr15:80215870- 80216531_mergedPeaks.12220_ST20_536_BCL2A1_4 7443	1.5432 49867	7.24E- 06	0.0011 83952
chr3:50336586- 50337256_mergedPeaks.22513_HYAL3_22_HYAL1_4 111	1.2025 80486	7.34E- 06	0.0011 94931
chr7:134855281- 134856730_mergedPeaks.34480_C7orf49_427_MIR6 509_35825	1.1271 499	7.72E- 06	0.0012 52246
chr17:46125238- 46126219_mergedPeaks.14413_NFE2L1_43_CBX1_52 832	1.0741 42644	7.76E- 06	0.0012 52666
chr21:30396733- 30397553_mergedPeaks.21134_USP16_206_CCT8_48 975	1.1794 87022	8.03E- 06	0.0012 83207
chr17:79319623- 79320288_mergedPeaks.14859_TMEM105_15481_R P11-1055B8.3_39205	1.8454 82585	8.05E- 06	0.0012 83207
chr1:212781549- 212782562_mergedPeaks.2911_ATF3_43380_FAM71 A_15733	1.4244 50581	8.21E- 06	0.0012 98467
chr16:28223025- 28223662_mergedPeaks.12935_XPO6_104_SBK1_80 496	1.6775 22223	8.38E- 06	0.0013 20092
chr6:114291442- 114292795_mergedPeaks.31604_FLJ34503_66568_H DAC2_241	1.6173 9898	8.52E- 06	0.0013 31371
chr19:30302168- 30302989_mergedPeaks.16263_C19orf12_96615_CC NE1_322	1.0958 59393	8.54E- 06	0.0013 31371
chr3:144148491- 144148944_mergedPeaks.23763_C3orf58_456551_P LOD2_1730565	7.3235 59613	8.57E- 06	0.0013 31371
chr2:32390561- 32391181_mergedPeaks.17206_SPAST_102192_SLC3 0A6_38	2.5225 19488	8.78E- 06	0.0013 54324
chr19:19887044- 19887721_mergedPeaks.16229_LINC00663_160_ZNF 506_45178	1.6229 34193	9.00E- 06	0.0013 75256
chr8:41909429- 41910168_mergedPeaks.35274_KAT6A_293_AP3M2_ 100665	1.4127 5397	9.04E- 06	0.0013 75256
chr7:74267150- 74267578_mergedPeaks.33533_NCF1_79056_GTF2I RD2_508	2.9069 90087	9.04E- 06	0.0013 75256

chr19:42724080- 42724554_mergedPeaks.16465_DEDD2_2373_ZNF526_174	2.5740 91864	9.06E- 06	0.0013 75256
chr11:805149- 805491_mergedPeaks.5484_PIDD_70_RPLP2_4615	2.7119 76735	9.10E- 06	0.0013 754
chr9:5493598- 5494470_mergedPeaks.36979_CD274_43532_PDCD1LG2_16510	2.6411 28868	9.38E- 06	0.0014 11798
chr2:214016153- 214017022_mergedPeaks.19771_IKZF2_254_AC079610.2_132342	1.2162 30754	9.93E- 06	0.0014 89664
chr20:37590590- 37591428_mergedPeaks.20735_DHX35_29_RP4-70501.1_262382	1.3398 4413	1.00E- 05	0.0014 94245
chr6:149969463- 149970165_mergedPeaks.32260_RPS18P9_55063_KATNA1_126	1.7581 74108	1.01E- 05	0.0014 97681
chr1:45265391- 45266250_mergedPeaks.576_BEST4_12394_PLK3_215	1.1196 82474	1.01E- 05	0.0014 97898
chr1:153606214- 153607017_mergedPeaks.1798_CHTOP_158_SNAPIN_24514	1.5520 00838	1.04E- 05	0.0015 20265
chr16:10837520- 10838310_mergedPeaks.12723_NUBP1_273_TVP23A_74706	1.1319 05193	1.04E- 05	0.0015 20265
chr17:27916507- 27916921_mergedPeaks.14184_GIT1_104_ANKRD13B_3812	3.7344 10369	1.10E- 05	0.0015 96
chr16:402504- 403299_mergedPeaks.12555_AXIN1_225_MRPL28_17668	1.0010 30808	1.11E- 05	0.0016 001
chr20:49411292- 49411958_mergedPeaks.20875_BCAS4_195_ADNP_114703	1.7297 16301	1.20E- 05	0.0017 19381
chr1:235106892- 235107986_mergedPeaks.3344_LINC01132_247651_SNORA14B_183813	2.3520 01916	1.21E- 05	0.0017 26323
chr4:74401727- 74402341_mergedPeaks.25524_RP11-622A1.2_27515_RASSF6_84253	7.0289 67236	1.22E- 05	0.0017 39975
chr19:344549- 344980_mergedPeaks.15795_PPAP2C_53329_MIER2_27	3.6046 42111	1.24E- 05	0.0017 55707
chr19:680285-	1.1238	1.28E-	0.0017

681193_mergedPeaks.15804_FSTL3_4351_PRSS57_14722	23354	05	92636
chr3:101567904-101568930_mergedPeaks.23107_NFKBIZ_21584_LO C152225_91285	1.2379 78409	1.29E- 05	0.0018 06926
chr12:6960446-6961930_mergedPeaks.7438_CDCA3_732_USP5_102	1.0020 16859	1.34E- 05	0.0018 66348
chr10:109488448-109488831_mergedPeaks.5121_SORCS1_564173_RN U6-53P_1441775	- 6.6799 17007	1.35E- 05	0.0018 77954
chr21:38738383-38739259_mergedPeaks.21254_DSCR3_98988_DYRK 1A_52385	1.2867 4939	1.37E- 05	0.0019 00851
chr19:1260697-1261240_mergedPeaks.15823_MIDN_12417_CIRBP_8 298	1.3638 9513	1.38E- 05	0.0019 08995
chr8:55014083-55014800_mergedPeaks.35393_TCEA1_79425_LYPL A1_136	1.2129 99492	1.44E- 05	0.0019 62574
chr19:51897274-51897927_mergedPeaks.16664_C19orf84_3772_LOC 100129083_21559	1.8237 66781	1.44E- 05	0.0019 62574
chr19:47164259-47164953_mergedPeaks.16566_DACT3_211_MIR320 E_47996	1.1272 38673	1.45E- 05	0.0019 77336
chr3:49449207-49450035_mergedPeaks.22493_RHOA_95_TCTA_17	1.2385 74775	1.49E- 05	0.0020 17558
chr18:11980750-11981580_mergedPeaks.15023_MPPE1_72369_IMPA 2_261	1.4626 82752	1.51E- 05	0.0020 29586
chr17:27229774-27230374_mergedPeaks.14176_FLOT2_5359_DHRS1 3_15	1.8350 20119	1.51E- 05	0.0020 29586
chr1:28879197-28879843_mergedPeaks.365_RCC1_34776_TRNAU1A P_8	1.7427 41509	1.54E- 05	0.0020 48348
chr8:42150138-42151049_mergedPeaks.35284_IKBKB_21774_POLB_ 45379	1.2904 51205	1.54E- 05	0.0020 48348
chr5:56110851-56111525_mergedPeaks.27874_MAP3K1_289_SETD9 _93898	1.3152 43656	1.55E- 05	0.0020 50523
chr22:45097656-45098280_mergedPeaks.21639_LINC00229_76669_P RR5_109	2.1938 32573	1.56E- 05	0.0020 59305

chr17:259630- 260254_mergedPeaks.13864_RPH3AL_57309_C17orf 97_175	1.6706 2691	1.60E- 05	0.0020 97609
chr17:57183968- 57184606_mergedPeaks.14545_TRIM37_21_MIR454 _30946	1.3712 934	1.61E- 05	0.0021 0156
chr6:44187085- 44187497_mergedPeaks.30656_CAPN11_60744_SLC 29A1_4071	7.4588 8204	1.67E- 05	0.0021 83241
chr17:79935153- 79935919_mergedPeaks.14877_ASPSCR1_111_STRA 13_45249	1.3746 35449	1.69E- 05	0.0021 96133
chr16:2033783- 2034300_mergedPeaks.12596_NOXO1_2491_GFER_1 08	2.2626 22351	1.70E- 05	0.0022 00164
chr18:812111- 812820_mergedPeaks.14912_YES1_138_ADCYAP1_9 2478	1.6515 90702	1.74E- 05	0.0022 34956
chr16:71842285- 71843473_mergedPeaks.13468_SNORD71_50489_AP 1G1_97	1.2902 67594	1.78E- 05	0.0022 69345
chr21:34960793- 34961353_mergedPeaks.21207_DONSON_59_CRYZL1 _53087	3.5360 38377	1.78E- 05	0.0022 69345
chr12:17010132- 17010857_mergedPeaks.7640_LMO3_249346_SKP1P 2_131186	2.7917 33346	1.79E- 05	0.0022 76686
chr12:121904945- 121905624_mergedPeaks.9173_MIR7107_23129_KD M2B_113080	1.2411 59013	1.80E- 05	0.0022 76686
chr17:29814680- 29815268_mergedPeaks.14198_RAB11FIP4_96333_ MIR4724_46926	1.4996 71016	1.82E- 05	0.0022 95972
chr6:44094941- 44095528_mergedPeaks.30654_MRPL14_43_TM6 3B_141	1.8082 38809	1.84E- 05	0.0022 98174
chr22:50945953- 50946824_mergedPeaks.21681_LMF2_253_NCAPH2_ 256	1.2623 96799	1.86E- 05	0.0023 12376
chr17:4613422- 4614164_mergedPeaks.13931_ARRB2_5_MED11_209 29	1.1644 24733	1.91E- 05	0.0023 55295
chr11:9594565- 9595453_mergedPeaks.5632_ZNF143_112498_WEE1 _218	1.0843 55949	1.97E- 05	0.0024 1136

chr9:132404214- 132404854_mergedPeaks.38243_ASB6_86_PRRX2_2 3385	1.4653 74788	1.98E- 05	0.0024 12327
chr16:88636423- 88637136_mergedPeaks.13799_MIR5189_101454_Z C3H18_9	1.4796 23194	2.01E- 05	0.0024 43506
chr13:42845594- 42846430_mergedPeaks.9608_DGKH_231841_AKAP 11_276	1.2409 22127	2.03E- 05	0.0024 60395
chr11:67120712- 67121571_mergedPeaks.6414_POLD4_74_CLCF1_205 07	1.0188 9071	2.04E- 05	0.0024 60395
chr10:105127599- 105128675_mergedPeaks.5062_TAF5_414_MIR1307_ 26021	2.1306 31365	2.07E- 05	0.0024 92486
chr8:62692730- 62693339_mergedPeaks.35532_MIR4470_65688_NK AIN3_468466	7.0644 0196	2.09E- 05	0.0025 0718
chr12:80687224- 80687922_mergedPeaks.8517_OTOGL_84341_PTPRQ _150552	7.0425 97428	2.33E- 05	0.0027 76607
chr1:32816658- 32817345_mergedPeaks.408_MARCKSL1_15161_FA M229A_10843	1.9291 22507	2.38E- 05	0.0028 25001
chr19:41304508- 41305280_mergedPeaks.16444_RAB4B- EGLN2_20771_EGLN2_439	1.0886 94936	2.38E- 05	0.0028 25001
chr13:46038710- 46039476_mergedPeaks.9645_COG3_64_ERICH6B_1 50781	1.8136 50106	2.45E- 05	0.0028 93594
chr8:87354417- 87355336_mergedPeaks.35922_SLC7A13_112272_W WP1_117	1.1690 30547	2.46E- 05	0.0028 99909
chr11:46142730- 46143572_mergedPeaks.6116_PHF21A_166_CREB3L 1_156037	1.6866 51546	2.51E- 05	0.0029 51617
chr9:37402647- 37403384_mergedPeaks.37366_ZCCHC7_282421_GR HPR_19691	2.3371 85619	2.58E- 05	0.0030 26305
chr9:131037913- 131038676_mergedPeaks.38215_GOLGA2_26_SWI5_ 130	1.1349 03148	2.62E- 05	0.0030 6357
chr1:144533549- 144534746_mergedPeaks.1673_RP11- 640M9.1_192392_PFN1P2_78580	1.3613 27478	2.68E- 05	0.0031 12521

chr19:796882-798019_mergedPeaks.15805_PTBP1_59_MIR4745_7489	1.068940797	2.69E-05	0.003112521
chr17:2295864-2296414_mergedPeaks.13894_SGSM2_55334_MNT_8119	1.469546128	2.69E-05	0.003112521
chr19:4638992-4639676_mergedPeaks.15911_SEMA6B_79563_TNF_AIP8L1_192	1.243303901	2.70E-05	0.003114571
chr2:113992959-113993309_mergedPeaks.18254_PAX8-AS1_31_PAX8_43364	6.974245918	2.75E-05	0.00315471
chr16:75589741-75590493_mergedPeaks.13561_CHST5_21049_TME_M231_67	1.986871635	2.77E-05	0.003168514
chr17:46985511-46986200_mergedPeaks.14425_UBE2Z_125_SNF8_36299	1.620948865	2.86E-05	0.003263301
chr7:6120780-6121458_mergedPeaks.32713 EIF2AK1_22259_USP42_23430	1.2483014	2.89E-05	0.003270326
chr9:20621982-20622886_mergedPeaks.37138_MIR4474_120094_MLLT3_108	1.520573306	2.90E-05	0.003275366
chr6:34204164-34205128_mergedPeaks.30530_HMGA1_70_MIR6835_3803	1.442899963	2.96E-05	0.003332661
chr4:100768474-100768926_mergedPeaks.25924_DAPP1_30720_LAMTOR3_47003	1.953138368	2.98E-05	0.003339504
chr9:35603921-35604565_mergedPeaks.37324_FAM166B_40347_TESK1_1037	1.155493131	2.99E-05	0.003339504
chr11:62623153-62623784_mergedPeaks.6294_SNHG1_108_SLC3A2_15	1.441001719	2.99E-05	0.003339504
chr1:165847072-165847651_mergedPeaks.2069_UCK2_50630_MIR3658_29796	3.331586111	3.02E-05	0.003357369
chr9:6412662-6413381_mergedPeaks.37005_TPD52L3_84673_UHRF2_129	1.150517145	3.04E-05	0.00336208
chr19:58891929-58892837_mergedPeaks.16777_ZNF497_18169_ZNF837_6	1.112076479	3.04E-05	0.00336208

chr1:208108366- 208108939_mergedPeaks.2818_CD34_23969_PLXNA 2_309013	- 1.3746 39685	3.05E- 05	0.0033 6208
chr20:34542060- 34542728_mergedPeaks.20695_PHF20_182472_SCA ND1_887	1.2644 95535	3.07E- 05	0.0033 77046
chr20:25677040- 25677823_mergedPeaks.20625_ZNF337_9856_FAM1 82B_99447	1.2242 42908	3.09E- 05	0.0033 87546
chr19:7402343- 7402989_mergedPeaks.15955_INSR_108655_ARHGE F18_101907	1.9712 00498	3.11E- 05	0.0033 9796
chr20:18568311- 18568933_mergedPeaks.20551_DTD1_67_RP11- 379J5.5_110730	1.5922 22597	3.12E- 05	0.0033 99508
chr19:4246896- 4247706_mergedPeaks.15903_CCDC94_191_SHD_31 296	1.4145 85364	3.15E- 05	0.0034 085
chr1:109756262- 109757038_mergedPeaks.1492_SARS_136_CELSR2_3 5990	2.1210 57271	3.16E- 05	0.0034 085
chr2:185317199- 185318091_mergedPeaks.19284_NUP35_1328563_Z NF804A_145447	6.8541 45485	3.16E- 05	0.0034 085
chr20:3748286- 3748875_mergedPeaks.20319_C20orf27_128_SPEF1_ 13522	1.2512 94164	3.18E- 05	0.0034 085
chrX:70503013- 70503641_mergedPeaks.39052_NONO_286_ITGB1BP 2_18300	3.3708 11576	3.18E- 05	0.0034 085
chr10:28623774- 28624450_mergedPeaks.4067_MIR8086_45833_WAC -AS1_197171	4.0254 19475	3.27E- 05	0.0035 00504
chr17:21030056- 21030587_mergedPeaks.14122_DHRS7B_81_TMEM1 1_87587	2.2850 62981	3.30E- 05	0.0035 17511
chr15:64673455- 64673911_mergedPeaks.12011_CSNK1G1_25241_KI AA0101_26	3.0819 58539	3.35E- 05	0.0035 65689
chr5:95297013- 95298123_mergedPeaks.28437_C5orf27_109633_EL L2_207	1.0069 36614	3.38E- 05	0.0035 8066
chr21:46707633- 46708117_mergedPeaks.21330_POFUT2_64_LOC642 852_91	2.1125 25877	3.48E- 05	0.0036 73141



chr16:87929224- 87929641_mergedPeaks.13788_SLC7A5_26332_CA5 A_40680	7.2939 0428	3.54E- 05	0.0036 90035
chr3:197024674- 197025295_mergedPeaks.24665_MIR4797_4165_DL G1-AS1_133	1.7628 22052	3.54E- 05	0.0036 90035
chr12:81096729- 81097407_mergedPeaks.8522_PTPRQ_258943_MYF6 _4339	6.9200 96933	3.56E- 05	0.0036 96108
chr11:60928451- 60929365_mergedPeaks.6258_CD5_58979_VPS37C_8	1.1161 48643	3.61E- 05	0.0037 39241
chr4:155537907- 155538193_mergedPeaks.26767_FGG_4148_LRAT_1 27112	- 6.5307 25111	3.63E- 05	0.0037 56004
chr2:71295200- 71296082_mergedPeaks.17780_NAGK_234_MCEE_61 753	1.2673 20637	3.66E- 05	0.0037 75017
chr9:131314363- 131315345_mergedPeaks.38222_SPTAN1_18_WDR3 4_104275	1.1612 35539	3.67E- 05	0.0037 76527
chr18:3247144- 3247952_mergedPeaks.14929_MYL12A_21_MYL12B_ 14562	1.2240 50267	3.68E- 05	0.0037 76527
chr1:178994702- 178995719_mergedPeaks.2321_FAM20B_137_TOR3 A_55901	1.1770 50886	3.72E- 05	0.0038 07058
chr19:47353848- 47354414_mergedPeaks.16568_SNAR- E_20170_AP2S1_72	2.6908 21087	3.86E- 05	0.0039 24927
chr18:3012938- 3013635_mergedPeaks.14925_LPIN2_1341_MYOM1_ 206820	1.2863 44907	3.88E- 05	0.0039 25461
chr7:45039119- 45039909_mergedPeaks.33302_CCM2_170_NACAD_8 8979	1.1693 10105	3.88E- 05	0.0039 25461
chr10:76969912- 76970736_mergedPeaks.4644_VDAC2_25_COMTD1_ 25446	1.6007 05875	3.93E- 05	0.0039 53839
chr1:109505627- 109506338_mergedPeaks.1484_CLCC1_12912_WDR4 7_78868	2.2410 86927	4.00E- 05	0.0039 98622
chr20:55129846- 55130258_mergedPeaks.20941_FAM209B_21751_TF AP2C_74305	- 6.5299 11057	4.07E- 05	0.0040 56417
chr12:124068795-	2.3827	4.12E-	0.0040

124069381_mergedPeaks.9213_TMED2_13_DDX55_17583	92546	05	91771
chr22:39928577-39929142_mergedPeaks.21571_ATF4_12291_RPS19BP1_1	1.713341571	4.13E-05	0.004091771
chr1:53018277-53019299_mergedPeaks.657_ZCCHC11_26_GPX7_49254	1.688604263	4.22E-05	0.004168016
chr11:46368672-46369195_mergedPeaks.6119_DGKZ_14479_MIR4688_29018	1.566162618	4.26E-05	0.00419428
chr5:123985183-123986208_mergedPeaks.28893_CSNK1G3_1137903_ZNF608_95110	1.31556898	4.31E-05	0.004229695
chr1:1310456-1311111_mergedPeaks.17_AURKAIP1_203_CCNL2_23935	1.43370508	4.32E-05	0.004229695
chr8:28479699-28480441_mergedPeaks.35116_MIR4288_117371_EXTL3_78919	1.090995587	4.33E-05	0.004229695
chr6:33601335-33601721_mergedPeaks.30524_ITPR3_12373_UQCC2_78000	3.554862947	4.38E-05	0.004261076
chr12:53614501-53615040_mergedPeaks.8099_ITGB7_13679_RARG_11270	1.699044403	4.39E-05	0.004261076
chr21:47743686-47744695_mergedPeaks.21337_PCNT_155_DIP2A_134671	1.028325419	4.42E-05	0.004261076
chr9:127962565-127963049_mergedPeaks.38163_PPP6C_10589_RABEPK_54	2.851801413	4.42E-05	0.004261076
chr3:81810066-81811160_mergedPeaks.22901_LOC101927374_2349737_GBE1_337	1.085942147	4.42E-05	0.004261076
chr16:23846770-23847447_mergedPeaks.12886_CHP2_81161_PRKCB_191	2.396142593	4.45E-05	0.004267253
chr15:42782752-42783366_mergedPeaks.11769_ZNF106_33294_SNAIP23_4444	3.505540805	4.45E-05	0.004267253
chr5:138739393-138740005_mergedPeaks.29149_PROB1_8814_SPATA24_77	1.349502582	4.48E-05	0.004274042
chr6:44224772-	1.4967	4.48E-	0.0042

44225563_mergedPeaks.30661_MIR4647_3145_SLC35B2_141	20948	05	74042
chr1:36614906-36615515_mergedPeaks.451_TRAPPC3_95_MAP7D1_6355	1.2177 71531	4.52E- 05	0.0042 76745
chr19:16435232-16436113_mergedPeaks.16134_KLF2_22_EPS15L1_147151	1.1902 01095	4.52E- 05	0.0042 76745
chr15:65185782-65186621_mergedPeaks.12026_PLEKH02_52120_ANKDD1A_17899	1.2883 21266	4.53E- 05	0.0042 76745
chr1:17222386-17223339_mergedPeaks.209_MST1L_131887_CROCC_25582	1.1638 0578	4.53E- 05	0.0042 76745
chr21:18984955-18985469_mergedPeaks.21066_CXADR_99989_BTG3_56	1.8064 4924	4.56E- 05	0.0042 95497
chrX:135055764-135056391_mergedPeaks.39598_SAGE1_80293_MMGT1_57	3.2864 44154	4.65E- 05	0.0043 59291
chr19:48111836-48112491_mergedPeaks.16586_GLTSCR1_711_EHD2_104437	1.6535 53682	4.65E- 05	0.0043 59291
chr22:37595154-37595763_mergedPeaks.21521_C1QTNF6_11128_SSTR3_11547	1.3095 31843	4.67E- 05	0.0043 61108
chr18:10525757-10526508_mergedPeaks.15004_NAPG_260_RP11-856M7.1_135797	1.9665 39714	4.73E- 05	0.0043 93538
chr18:29598220-29598943_mergedPeaks.15187_RNF125_137_RNF138_73987	2.1842 193	4.74E- 05	0.0043 93538
chr19:55770221-55770947_mergedPeaks.16719_PPP6R1_546_HSPBP1_21167	1.5797 30064	4.78E- 05	0.0044 20792
chr18:29671754-29672864_mergedPeaks.15189_RNF125_73865_RNF138_259	1.0240 566	4.85E- 05	0.0044 82013
chr14:59950554-59951581_mergedPeaks.10972_GPR135_19008_L3HYPDH_6	1.3187 80907	4.88E- 05	0.0044 94486
chr9:123555393-123555939_mergedPeaks.38091_MEGF9_78901_FBXW2_74	2.2073 59997	4.95E- 05	0.0045 50284
chr6:32939392-	1.1197	5.01E-	0.0045

32940324_mergedPeaks.30504_BRD2_1194_HLA-DOA_37531	14642	05	8113
chr2:172778630-172779325_mergedPeaks.19088_HAT1_43_METAP1D_85826	1.9041 14765	5.02E- 05	0.0045 8113
chr3:53194815-53195361_mergedPeaks.22561_RFT1_30618_PRKCD_134	2.2109 24603	5.02E- 05	0.0045 8113
chr2:64925749-64926320_mergedPeaks.17666_SERTAD2_44988_AC007880.1_164731	3.7863 74104	5.07E- 05	0.0045 99362
chr13:45914977-45915847_mergedPeaks.9641_SNORA31_3668_TPT1_7	1.1199 43922	5.08E- 05	0.0045 99362
chr7:44787864-44788580_mergedPeaks.33295_OGDH_142102_ZMIZ2_307	1.0664 19033	5.10E- 05	0.0046 09475
chr7:141258335-141258796_mergedPeaks.34604_AGK_7488_KIAA1147_143388	- 3.6053 40824	5.11E- 05	0.0046 10118
chr13:31773947-31774665_mergedPeaks.9467_B3GALTL_195_RXFP2_539372	1.4833 64681	5.23E- 05	0.0047 00146
chr1:216179190-216179860_mergedPeaks.2978_KCTD3_438791_USH2A_417213	3.8775 38793	5.30E- 05	0.0047 5669
chr19:52511215-52511595_mergedPeaks.16673_ZNF350_21326_ZNF615_78	7.1003 24235	5.32E- 05	0.0047 57142
chr10:5454322-5454754_mergedPeaks.3673_TUBAL3_7745_NET1_33975	7.0244 61713	5.38E- 05	0.0048 05494
chr13:45151188-45152008_mergedPeaks.9635_TSC22D1-AS1_1567_LINC00330_232168	3.2503 83608	5.58E- 05	0.0049 69592
chr12:54019605-54020384_mergedPeaks.8110_RP11-793H13.3_112227_ATF7_205	1.3309 70155	5.64E- 05	0.0050 12249
chr12:93835431-93836250_mergedPeaks.8732_NUDT4P1_64095_UBE2N_186	1.5778 42026	5.69E- 05	0.0050 4424
chr6:43138734-43139292_mergedPeaks.30636_SRF_94_CUL9_10908	1.3105 63704	5.81E- 05	0.0051 39949
chr19:12792010-12792964_mergedPeaks.16063_WDR83OS_12022_D	1.9069 99343	5.85E- 05	0.0051 49668

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chr16:67701775-67702173_mergedPeaks.13363_C16orf86_1258_GFO D2_51299	6.8515 20993	5.87E- 05	0.0051 53825
chr19:4342614-4343679_mergedPeaks.15905_STAP2_4299_MPND_377	1.0074 71557	5.90E- 05	0.0051 72244
chr18:9334302-9335091_mergedPeaks.14994_ANKRD12_197946_T WSG1_68	1.3115 76953	5.93E- 05	0.0051 88677
chr1:89356674-89357576_mergedPeaks.1168_RP11-76N22.2_206238_GTF2B_176	1.4868 58071	5.96E- 05	0.0051 9192
chr9:37120026-37120774_mergedPeaks.37351_LOC100506710_40508_ZCCHC7_194	1.6950 7687	5.99E- 05	0.0051 9192
chr17:7154944-7155989_mergedPeaks.13968_ELP5_95_CLDN7_10798	1.1223 80336	5.99E- 05	0.0051 9192
chr5:171614819-171615878_mergedPeaks.29736_STK10_2_EFCAB9_5827	1.1255 47254	6.06E- 05	0.0052 30529
chr4:56411921-56413443_mergedPeaks.25359_TMEM165_150603_CLOCK_394	1.2147 39229	6.07E- 05	0.0052 30529
chr22:41777282-41778267_mergedPeaks.21592_TEF_14438_TOB2_65253	1.2402 43205	6.12E- 05	0.0052 68548
chr5:176797685-176798060_mergedPeaks.29810_RGS14_13029_SLC34A1_13559	7.3434 35423	6.26E- 05	0.0053 60624
chr19:48672836-48674049_mergedPeaks.16588_PLA2G4C_59333_LIG1_418	1.4178 4161	6.27E- 05	0.0053 60624
chr8:6603988-6604313_mergedPeaks.34855_MIR4659B_1389_GS1-24F4.2_88925	6.7922 2416	6.31E- 05	0.0053 70144
chr14:60679067-60679988_mergedPeaks.10982_DHRS7_47316_PPM1A_32942	1.7343 64414	6.36E- 05	0.0053 94299
chr17:56736051-56736789_mergedPeaks.14541_C17orf47_114687_TEX14_32996	3.0283 15463	6.37E- 05	0.0053 94299
chr21:43429852-43430766_mergedPeaks.21281_C2CD2_83510_ZBTB21_187	1.6105 30394	6.43E- 05	0.0054 32486

chr16:57278655- 57279408_mergedPeaks.13231_RSPRY1_58791_ARL 2BP_6	1.2283 73196	6.46E- 05	0.0054 4355
chr8:137194552- 137195250_mergedPeaks.36754_KHDRBS3_725186_ FAM135B_2314164	- 1.8068 66032	6.53E- 05	0.0054 86616
chr16:3493404- 3493799_mergedPeaks.12646_ZNF597_111_NAA60_ 14390	4.1096 8614	6.54E- 05	0.0054 86616
chr16:3930635- 3931095_mergedPeaks.12652_CREBBP_744_ADCY9_ 235321	2.1050 84789	6.55E- 05	0.0054 897
chr2:47142919- 47143456_mergedPeaks.17433_MCFD2_180_TTC7A_ 80	2.9385 10006	6.61E- 05	0.0055 23518
chr22:26879551- 26880081_mergedPeaks.21431_ASPHD2_54537_HPS 4_13	2.4004 27627	6.91E- 05	0.0057 4718
chr12:113772663- 113773171_mergedPeaks.9077_MIR6762_43590_SL C8B1_8	2.5694 99533	6.92E- 05	0.0057 4718
chr12:133463906- 133464620_mergedPeaks.9320_CHFR_59_LOC10192 8530_164	1.4805 33338	6.94E- 05	0.0057 50752
chr19:46295874- 46296451_mergedPeaks.16555_DMWD_102_RSPH6A _22443	1.2896 36437	7.05E- 05	0.0058 12759
chr8:28259171- 28260061_mergedPeaks.35113_ZNF395_15639_FBX O16_88219	1.1288 65898	7.12E- 05	0.0058 57695
chr4:128508169- 128508518_mergedPeaks.26352_MIR2054_2079930 _INTU_45743	- 4.2501 04001	7.13E- 05	0.0058 57695
chr21:47062825- 47063750_mergedPeaks.21333_SLC19A1_108745_A L592528.1_193046	1.2164 50287	7.15E- 05	0.0058 60586
chr7:2442819- 2443361_mergedPeaks.32654_EIF3B_48617_CHST12 _104	1.2394 15103	7.18E- 05	0.0058 7013
chr3:50374580- 50375225_mergedPeaks.22516_RASSF1_7_RASSF1- AS1_39	1.1236 18532	7.32E- 05	0.0059 75452
chr1:9488772- 9489316_mergedPeaks.120_SPSB1_136104_LOC100 506022_11	1.6699 6059	7.38E- 05	0.0060 0637

chr19:18335229-18335720_mergedPeaks.16189_RAB3A_20600_PDE4C_1811	1.891087052	7.39E-05	0.006007848
chr2:198017709-198018175_mergedPeaks.19534_PGAP1_226488_ANKRD44-IT1_149301	7.049554758	7.66E-05	0.006211149
chr19:4400367-4400850_mergedPeaks.15907_SH3GL1_43_CHAF1A_2051	1.333815482	7.70E-05	0.006228959
chr1:176162031-176162559_mergedPeaks.2275_SCARNA3_224619_RFWD2_14085	6.851145005	7.72E-05	0.006231169
chr3:12525588-12526207_mergedPeaks.21900_PPARG_195462_TSEN2_33	2.674089391	7.76E-05	0.006249926
chr16:81514841-81515392_mergedPeaks.13646_MIR4720_96494_CMIP_13837	2.263675668	7.81E-05	0.006276047
chr9:136932974-136933889_mergedPeaks.38295_BRD3_290_WDR5_71482	1.174031089	7.86E-05	0.00629282
chr11:71791362-71792042_mergedPeaks.6457_LRTOMT_326_NUMA1_37	1.112864309	7.89E-05	0.006300928
chr12:50419022-50419674_mergedPeaks.8064_RACGAP1_41_ASIC1_48019	1.862372339	8.00E-05	0.00636355
chr16:29816658-29817465_mergedPeaks.12957_KIF22_15028_MAZ_796	1.347154314	8.06E-05	0.006398162
chr13:21714290-21715105_mergedPeaks.9350_SAP18_45_MRPL57_35674	1.441759046	8.22E-05	0.006440456
chr15:82338323-82338814_mergedPeaks.12250_MEX3B_84_EFTUD1_216536	2.235342869	8.23E-05	0.006440456
chr2:97481607-97482450_mergedPeaks.18047_CNNM3_38_ANKRD23_27730	1.123260441	8.25E-05	0.006440456
chr2:220024861-220025830_mergedPeaks.19891_IHH_100107_NHEJ1_242	1.034144221	8.36E-05	0.006511635
chr16:21512856-21513871_mergedPeaks.12854_LOC100190986_67587_SMG1P3_239	1.056740353	8.37E-05	0.006511635

chr15:42066163- 42066987_mergedPeaks.11764_MIR626_82793_MAP KBP1_56	1.1280 86542	8.53E- 05	0.0066 16361
chr11:60673827- 60674343_mergedPeaks.6250_PRPF19_24_TMEM10 9_7285	1.9400 51816	8.67E- 05	0.0067 02503
chr6:91120950- 91121540_mergedPeaks.31281_MIR4464_98785_MA P3K7_175775	7.0187 43953	8.70E- 05	0.0067 03641
chr19:1268975- 1269723_mergedPeaks.15825_CIRBP_83_CIRBP- AS1_910	1.0876 81634	8.72E- 05	0.0067 03641
chr15:55700041- 55700867_mergedPeaks.11910_MIR628_35222_CCP G1_254	1.5687 65561	8.73E- 05	0.0067 03641
chr7:49806449- 49807012_mergedPeaks.33345_CDC14C_842574_VW C2_6526	2.1742 33138	8.81E- 05	0.0067 56551
chr6:52859939- 52860894_mergedPeaks.30777_GSTA4_238_ICK_661 84	1.0930 62388	8.83E- 05	0.0067 58562
chr16:78133051- 78134153_mergedPeaks.13594_WWOX_276_MAF_15 01020	1.1630 66441	8.86E- 05	0.0067 67194
chr10:75503901- 75504414_mergedPeaks.4620_SEC24C_27_FUT11_27 891	2.1925 17659	9.02E- 05	0.0068 71795
chr19:18058513- 18059254_mergedPeaks.16175_CCDC124_15060_KC NN1_3227	1.6707 17419	9.07E- 05	0.0068 99148
chr20:56884309- 56885104_mergedPeaks.20953_PPP4R1L_211_RAB2 2A_64	1.4961 16748	9.20E- 05	0.0069 8163
chr16:19078682- 19079432_mergedPeaks.12834_TMC7_83449_COQ7_ 181	1.2369 19029	9.24E- 05	0.0069 99955
chr10:104262261- 104262774_mergedPeaks.5048_ACTR1A_5_SUFU_12 01	2.3955 52808	9.32E- 05	0.0070 08924
chrX:41301421- 41301959_mergedPeaks.38792_DDX3X_109040_NYX _5022	2.2063 37734	9.34E- 05	0.0070 08924
chr3:142838134- 142838777_mergedPeaks.23731_U2SURP_118084_C HST2_162	1.9654 12245	9.35E- 05	0.0070 08924



chr9:140512996- 140513833_mergedPeaks.38349_C9orf37_106_EHM T1_29	1.4567 93102	9.36E- 05	0.0070 08924
chr7:17422140- 17422813_mergedPeaks.32852_AC019117.1_7936_A C017060.1_176057	3.7334 96116	9.42E- 05	0.0070 33808
chr1:226309208- 226309963_mergedPeaks.3167_H3F3AP4_59158_AC BD3_64838	1.6017 4985	9.45E- 05	0.0070 43058
chr19:37019055- 37019852_mergedPeaks.16350_ZNF260_205_AC092 295.7_44518	1.5831 80887	9.53E- 05	0.0070 72189
chr17:685312- 685834_mergedPeaks.13868_GLOD4_2_NXN_81778	3.3025 3938	9.54E- 05	0.0070 72189
chr19:38864903- 38865646_mergedPeaks.16383_PSMD8_85_GGN_133 94	1.1599 61487	9.63E- 05	0.0071 15688
chr19:10402911- 10403314_mergedPeaks.16003_ICAM5_2458_ZGLP1_ 17121	3.4430 22561	9.68E- 05	0.0071 29298
chr1:115053309- 115054225_mergedPeaks.1576_SYT6_358705_TRIM 33_14	1.4456 74102	9.90E- 05	0.0072 64633
chr17:27278394- 27279687_mergedPeaks.14177_PHF12_532_SEZ6_54 418	1.0094 71968	9.95E- 05	0.0072 90609
chr16:71322873- 71323784_mergedPeaks.13457_HYDIN_58703_CMTR 2_181	1.1865 42941	0.0001 00469	0.0073 17299
chr1:1550478- 1551392_mergedPeaks.24_MIB2_141_MMP23B_1662 4	1.3584 19646	0.0001 01059	0.0073 46169
chr10:102295359- 102296033_mergedPeaks.5017_HIF1AN_56_PAX2_20 9771	1.9638 1076	0.0001 01454	0.0073 6077
chr6:17706149- 17707404_mergedPeaks.30207_FAM8A1_106259_N UP153_289	1.0684 67533	0.0001 03576	0.0074 71824
chr1:53168607- 53169079_mergedPeaks.659_COA7_4805_ZYG11B_2 3287	2.8550 51146	0.0001 04224	0.0074 90138
chr7:75987936- 75988887_mergedPeaks.33550_YWHAG_69_ZP3_384 29	1.0532 86601	0.0001 04797	0.0075 17079
chr16:11890965-	1.1428	0.0001	0.0076

11891493_mergedPeaks.12763_ZC3H7A_115_BCAR4_31460	10758	06586	03276
chr19:4108903-4109619_mergedPeaks.15899_ZBTB7A_42445_MAP2K2_14865	1.8922 13651	0.0001 066	0.0076 03276
chr15:79165002-79165549_mergedPeaks.12208_MORF4L1_153_CTSH_72145	1.7427 86648	0.0001 07015	0.0076 14918
chr11:63705957-63706662_mergedPeaks.6305_RCOR2_21993_NAA40_132	1.3334 73487	0.0001 07197	0.0076 14918
chr16:29984693-29985324_mergedPeaks.12963_TMEN219_11658_TAOK2_179	1.0767 32191	0.0001 08251	0.0076 63395
chr9:37027505-37028031_mergedPeaks.37349_MIR4476_134240_PAX5_6708	1.2101 79632	0.0001 09001	0.0077 02096
chr17:3571617-3572318_mergedPeaks.13906_CTNS_32206_TAX1BP3_6	1.5008 01799	0.0001 09975	0.0077 56485
chr14:24075195-24075849_mergedPeaks.10550_JPH4_27513_DHRS2_30050	2.9184 62498	0.0001 11152	0.0078 24952
chr8:145549912-145550820_mergedPeaks.36857_MIR6848_9388_DGAT1_216	1.0170 90333	0.0001 11396	0.0078 2761
chr9:131451085-131451881_mergedPeaks.38226_SET_5550_PKN3_13318	1.0180 99389	0.0001 1167	0.0078 32381
chr14:77564110-77564764_mergedPeaks.11219_RP11-7F17.3_21903_CIPC_140	1.0416 53656	0.0001 12358	0.0078 5859
chr10:70847599-70848077_mergedPeaks.4569_SRGN_11_VPS26A_36069	3.2774 43406	0.0001 1266	0.0078 5859
chr16:21275081-21275408_mergedPeaks.12848_ANKS4B_30229_CRYM-AS1_36925	6.7893 58402	0.0001 12665	0.0078 5859
chr16:81110146-81111067_mergedPeaks.13632_ATMIN_41149_C16orf46_266	1.0788 13207	0.0001 12874	0.0078 58713
chr1:67660138-67660699_mergedPeaks.862_IL23R_28250_IL12RB2_112628	3.7847 70349	0.0001 1321	0.0078 67707
chr19:1275294-	1.3573	0.0001	0.0078

1276104_mergedPeaks.15826_C19orf24_180_EFNA2_10453	71901	13498	73257
chr5:137688033-137688841_mergedPeaks.29131_KDM3B_153_REEP2_86252	2.1387 69913	0.0001 13825	0.0078 81523
chr7:54664423-54664796_mergedPeaks.33383_GS1-18A18.1_39947_SEC61G_162330	6.6510 49822	0.0001 14841	0.0079 37433
chr1:67114480-67115310_mergedPeaks.850_MIR3117_20773_TCTEX1D1_103244	- 1.7097 17034	0.0001 15822	0.0079 84353
chr3:66633146-66633545_mergedPeaks.22731_LRIG1_82500_KBTBD8_415381	7.0180 89164	0.0001 16682	0.0080 20858
chr1:31538391-31538854_mergedPeaks.383_PUM1_58_NKAIN1_174112	1.9658 23907	0.0001 176	0.0080 69314
chr5:133339818-133340819_mergedPeaks.29069_C5orf15_35912_VDAC1_339	1.3768 86855	0.0001 19716	0.0081 8492
chr22:20849886-20850455_mergedPeaks.21378_SCARF2_58024_MED15_11715	1.7647 54985	0.0001 2234	0.0083 34295
chr6:43445150-43445437_mergedPeaks.30643_TJAP1_33_LRRC73_32788	3.9214 84557	0.0001 23009	0.0083 64827
chr2:156837513-156838078_mergedPeaks.18829_KCNJ3_1282703_AC093375.1_273637	6.6505 42939	0.0001 28338	0.0086 41042
chr1:163291374-163292150_mergedPeaks.2041_NUF2_40_LOC100422212_101219	1.3160 27355	0.0001 28376	0.0086 41042
chr9:125226097-125226668_mergedPeaks.38117_PTGS1_93574_OR1J1_13823	3.1008 19422	0.0001 28449	0.0086 41042
chr21:47878360-47879088_mergedPeaks.21339_PCNT_134689_DIP2A_137	1.2008 31331	0.0001 28618	0.0086 41042
chr3:47517061-47517758_mergedPeaks.22458_PTPN23_94919_SCAP_36	1.5083 75925	0.0001 28665	0.0086 41042
chr5:139943865-139944599_mergedPeaks.29187_APBB3_43_SLC35A4_187	1.1218 95238	0.0001 29253	0.0086 5094
chr1:93426598-93427522_mergedPeaks.1252_SNORA66_120785_FA	1.3007 69689	0.0001 29268	0.0086 5094

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chr4:25161588- 25162519_mergedPeaks.24970_LGI2_129639_SEPSE CS_151	1.3207 08835	0.0001 29596	0.0086 57616
chr1:117544041- 117544583_mergedPeaks.1619_PTGFRN_91624_CD1 01_59	6.8760 89673	0.0001 29896	0.0086 62401
chr19:15490175- 15491015_mergedPeaks.16122_BRD4_99333_AKAP8 _17	1.0196 86203	0.0001 30674	0.0086 86089
chr19:2269137- 2269769_mergedPeaks.15860_JSRP1_13031_OAZ1_6 6	1.2182 39639	0.0001 31021	0.0086 91609
chr3:110062740- 110063226_mergedPeaks.23248_LINC01205_93414 7_PVRL3-AS1_725823	6.6504 20107	0.0001 31951	0.0087 38008
chr22:42315835- 42316583_mergedPeaks.21605_SHISA8_5538_TNFR SF13C_6612	1.6901 41237	0.0001 33315	0.0088 12946
chr7:915766- 916706_mergedPeaks.32616_GET4_46_ADAP1_7808 3	1.0863 22943	0.0001 34555	0.0088 64063
chr6:73393425- 73393963_mergedPeaks.31008_KCNQ5_62124_MIR4 282_283782	6.6621 09688	0.0001 35898	0.0089 17801
chr9:94877460- 94877908_mergedPeaks.37700_ROR2_165240_SPTL C1_72	2.3659 47438	0.0001 36051	0.0089 17801
chr7:77045618- 77046154_mergedPeaks.33568_GSAP_169_PTPN12_ 121465	2.7076 42688	0.0001 36539	0.0089 32728
chr19:6530857- 6531498_mergedPeaks.15940_TNFSF9_168_CD70_59 986	1.2385 82195	0.0001 37255	0.0089 51879
chr9:117971836- 117972225_mergedPeaks.38042_DEC1_67934_RP11- 284G10.1_534488	2.7312 40741	0.0001 38472	0.0090 06854
chr21:33651095- 33651605_mergedPeaks.21178_LINC00159_192742_ MIS18A_26	2.2210 12195	0.0001 39355	0.0090 39025
chr4:26859005- 26859417_mergedPeaks.25003_TBC1D19_273666_S TIM2_3101	1.7211 72613	0.0001 41064	0.0091 02716
chr1:117909316- 117910253_mergedPeaks.1623_VTCN1_163326_MA	1.0248 825	0.0001 41089	0.0091 02716

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chr19:14800326- 14801134_mergedPeaks.16118_EMR3_15000_ZNF33 3_139	1.0659 84893	0.0001 41297	0.0091 02716
chr16:1464544- 1464983_mergedPeaks.12582_UNKL_42_C16orf91_6 038	3.6193 72112	0.0001 43387	0.0092 16759
chr9:34048634- 34049655_mergedPeaks.37300_SNORD121A_96292_ DCAF12_77627	1.0376 15652	0.0001 43553	0.0092 16759
chr21:38361984- 38362631_mergedPeaks.21246_SIM2_290317_HLCS_ 238	1.6379 42924	0.0001 45059	0.0092 97724
chr5:32585980- 32586442_mergedPeaks.27597_SUB1_607_NPR3_12 5226	1.9385 43247	0.0001 47033	0.0094 08377
chr7:118476923- 118477539_mergedPeaks.34246_ANKRD7_612520_K CND2_1436490	1.9816 32088	0.0001 48649	0.0094 79812
chr2:130938949- 130940003_mergedPeaks.18429_SMPD4_146_MZT2 B_24	1.0250 01007	0.0001 50218	0.0095 40245
chr1:32538257- 32539096_mergedPeaks.401_TMEM39B_174_KPNA6 _34967	1.3721 88197	0.0001 51035	0.0095 67671
chr2:3257972- 3258773_mergedPeaks.16815_LINC01250_128574_T SSC1_123281	2.2140 39203	0.0001 5155	0.0095 84272
chr14:71373919- 71374794_mergedPeaks.11140_PCNX_235_SNORD56 B_490697	1.4424 28478	0.0001 53512	0.0096 50398
chr20:61557619- 61558075_mergedPeaks.20990_TCFL5_64732_DIDO 1_11457	2.4956 49786	0.0001 54368	0.0096 8178
chr16:75032353- 75033229_mergedPeaks.13535_WDR59_13774_ZNR F1_123	1.3149 21705	0.0001 54889	0.0096 8888
chr22:23623939- 23624229_mergedPeaks.21406_FBXW4P1_19131_CE S5AP1_100229	7.0117 69959	0.0001 55966	0.0097 33791
chr7:96934869- 96935400_mergedPeaks.33876_ACN9_189230_TAC1 _426136	3.8368 5555	0.0001 57312	0.0097 81463
chr20:43991462- 43992259_mergedPeaks.20799_SYS1-	1.2411 84919	0.0001 57504	0.0097 81463

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chr15:69452502-69453144_mergedPeaks.12077_LINC00277_79634_GLCE_149	1.9262 0701	0.0001 58074	0.0097 98827
chr15:94849858-94850447_mergedPeaks.12427_RGMA_1217709_MC TP2_49011	3.6470 85714	0.0001 591	0.0098 0501
chr9:5437606-5438161_mergedPeaks.36973_RLN1_98010_PLGRKT_54	1.5687 80265	0.0001 59175	0.0098 0501
chr1:2457523-2458374_mergedPeaks.46_PLCH2_50195_PANK4_87	1.1405 19207	0.0001 60983	0.0099 00333
chr19:58919603-58920170_mergedPeaks.16780_LOC646862_12430_ZNF584_176	1.9472 27554	0.0001 62566	0.0099 60726
chr1:45769129-45769952_mergedPeaks.583_ZSWIM5_97290_LINC01144_41	1.1616 4962	0.0001 62787	0.0099 60726
chr11:125757136-125758184_mergedPeaks.7250_HYLS1_4152_PUS3_15456	1.2259 64478	0.0001 63015	0.0099 60726
chr15:73075894-73076594_mergedPeaks.12122_ADPGK_118_NEO1_268580	1.3584 31825	0.0001 63883	0.0099 92804
chr12:49658469-49659272_mergedPeaks.8051_TUBA1C_6_PRPB_30038	1.5191 62415	0.0001 64067	0.0099 92804
chr3:52739606-52740266_mergedPeaks.22552_SPCS1_80_GLT8D1_163	2.1667 2022	0.0001 6627	0.0101 10779
chr19:47615475-47615883_mergedPeaks.16572_TMEN160_63797_ZC3H4_1330	2.1115 17073	0.0001 68531	0.0101 67424
chr16:68390166-68390830_mergedPeaks.13393_PRMT7_45482_SMPD3_91911	6.8100 35379	0.0001 68794	0.0101 67424
chr2:219264256-219264863_mergedPeaks.19879_CTDSP1_1499_MIR26B_2809	1.3785 47567	0.0001 70208	0.0102 23624
chr6:80044629-80045515_mergedPeaks.31114_HMGN3_100617_LCA5_202075	1.4443 6868	0.0001 72006	0.0103 10855
chr11:121237923-121238661_mergedPeaks.7156_SC5D_74716_SORL1_84619	6.5835 60267	0.0001 72471	0.0103 22417

chr6:41747461- 41748049_mergedPeaks.30607_FRS3_112_PRICKLE4_744	1.5415 85856	0.0001 72844	0.0103 2588
chr2:223298325- 223298843_mergedPeaks.19947_SGPP2_9263_FARS_B_222243	6.7694 62804	0.0001 73327	0.0103 2588
chr2:74433382- 74433715_mergedPeaks.17828_MTHFD2_7859_SLC4_A5_108604	6.7791 89385	0.0001 73435	0.0103 2588
chr10:73975550- 73976246_mergedPeaks.4602_ANAPC16_141_ASCC1_994	1.7131 84957	0.0001 73617	0.0103 2588
chr3:147802593- 147803091_mergedPeaks.23791_ZIC1_675662_AGTR1_612815	3.6954 5233	0.0001 74024	0.0103 33875
chr4:101744213- 101745151_mergedPeaks.25941_LINC01216_14841_2_MIR8066_417347	1.6970 30226	0.0001 75336	0.0103 95525
chr15:38746204- 38746906_mergedPeaks.11710_FAM98B_228_RASGRP1_110452	2.4589 72482	0.0001 77681	0.0105 18081
chr13:31377055- 31377436_mergedPeaks.9463_ALOX5AP_67601_LINC00398_97	7.0055 40822	0.0001 78794	0.0105 47604
chr10:120839892- 120840674_mergedPeaks.5298_SNORA19_20633_EIF3A_51	1.6222 44176	0.0001 79013	0.0105 47604
chr11:61100493- 61100884_mergedPeaks.6260_DDB1_4_TMEM138_2_8784	2.2202 51762	0.0001 8067	0.0106 28737
chr11:121352549- 121352850_mergedPeaks.7164_SORL1_29788_MIR125B1_617853	6.9026 23294	0.0001 81215	0.0106 44258
chr12:52463262- 52463733_mergedPeaks.8087_NR4A1_18312_ATG101_260	2.2788 95482	0.0001 83423	0.0107 40727
chr1:160759469- 160760300_mergedPeaks.1976_SLAMF7_51038_LY9_5979	1.5386 29728	0.0001 84611	0.0107 74548
chr13:50510234- 50510932_mergedPeaks.9725_CTAGE10P_46039_SRRYD7_42	1.0136 91421	0.0001 84799	0.0107 74548
chr15:62352352- 62352981_mergedPeaks.11980_VPS13C_2_C2CD4A_6509	1.3924 44512	0.0001 85553	0.0107 74548

chr1:79655700- 79656121_mergedPeaks.1027_ELTD1_183415_LPHN 2_2610171	6.7788 78945	0.0001 86599	0.0107 74548
chr1:11025551- 11025860_mergedPeaks.137_CASZ1_168972_C1orf1 27_16389	6.8613 98045	0.0001 87208	0.0107 74548
chr21:34696462- 34697553_mergedPeaks.21197_IL10RB_58343_IFNA R1_206	1.2150 97433	0.0001 87408	0.0107 74548
chr14:105487201- 105487942_mergedPeaks.11558_CDCA4_146_GPR13 2_44316	1.1954 39217	0.0001 89336	0.0108 68935
chr10:23651061- 23651510_mergedPeaks.3992_C10orf67_17513_OTU D1_76912	6.5783 38035	0.0001 92426	0.0110 12972
chr17:33894827- 33895258_mergedPeaks.14234_SLFN14_9932_SNOR D7_5633	2.2118 73614	0.0001 94088	0.0110 9136
chr17:73900817- 73901428_mergedPeaks.14786_TRIM65_8038_MRPL 38_59	1.1189 23149	0.0001 94574	0.0110 97491
chr13:24382110- 24382500_mergedPeaks.9380_TNFRSF19_228807_C 1QTNF9B-AS1_80722	2.7269 83862	0.0001 94998	0.0110 97491
chr2:88354996- 88355599_mergedPeaks.17999_KRCC1_49_SMYD1_1 2001	1.5374 00443	0.0001 95073	0.0110 97491
chr1:145826787- 145827299_mergedPeaks.1699_PDZK1_99378_GPR8 9A_60	1.9177 43415	0.0001 97025	0.0111 91797
chr5:137224943- 137225319_mergedPeaks.29123_PKD2L2_7_FAM13B _143671	2.7623 6786	0.0001 97454	0.0111 99368
chr6:167502171- 167502458_mergedPeaks.32572_FGFR1OP_89510_C CR6_33926	6.7153 77382	0.0001 98502	0.0112 25275
chr2:231084544- 231084979_mergedPeaks.20087_SLC16A14_151046_ SP110_66	6.8226 99426	0.0001 99018	0.0112 37709
chr11:47663833- 47664524_mergedPeaks.6144_C1QTNF4_48217_MTC H2_28	1.2143 92262	0.0002 01253	0.0112 97795
chr20:11492454- 11492792_mergedPeaks.20456_LOC339593_238592 _LINC00687_358740	6.7402 96303	0.0002 0205	0.0112 97795



chr9:130547381- 130548478_mergedPeaks.38202_SH2D3C_14281_MIR3960_182	1.1150 19466	0.0002 02441	0.0112 97795
chr17:17109359- 17110074_mergedPeaks.14072_PLD6_70_FLCN_30786	1.6669 63257	0.0002 0395	0.0113 63992
chr8:145634563- 145634911_mergedPeaks.36862_CPSF1_4_SLC39A4_4238	2.9298 09159	0.0002 04724	0.0113 90412
chr9:15510210- 15511537_mergedPeaks.37084_PSIP1_586_CCDC171_42223	1.2912 91123	0.0002 0532	0.0114 06828
chr16:14013558- 14014226_mergedPeaks.12781_SHISA9_1018416_ERCC4_121	1.1539 85561	0.0002 06537	0.0114 57692
chrX:153774949- 153775916_mergedPeaks.39742_FAM3A_30866_IKBKG_129	1.0846 26228	0.0002 06999	0.0114 66554
chr9:34646437- 34647071_mergedPeaks.37312_GALT_169_IL11RA_7139	2.1342 86318	0.0002 09066	0.0115 64148
chr10:98346256- 98347098_mergedPeaks.4953_TLL2_72994_TM9SF3_132	1.6276 0965	0.0002 1	0.0115 98928
chr16:4674454- 4675104_mergedPeaks.12669_UBALD1_9852_MGRN1_45	2.0680 26875	0.0002 11508	0.0116 65243
chr2:43422045- 43422532_mergedPeaks.17371_AC016735.2_155606_ZFP36L2_31457	6.5881 87966	0.0002 14964	0.0118 21436
chr3:50606376- 50607114_mergedPeaks.22521_C3orf18_1522_HEMK1_163	1.3636 36236	0.0002 15942	0.0118 58078
chr16:29606295- 29606994_mergedPeaks.12951_SMG1P2_29104_SLC7A5P1_18394	1.2937 44912	0.0002 18084	0.0119 41143
chr22:31063650- 31064137_mergedPeaks.21468_DUSP18_21_MIR3200_63650	1.9234 99049	0.0002 19366	0.0119 94013
chr14:55518040- 55518558_mergedPeaks.10901_SOCS4_24456_MAPK1IP1L_62	2.1586 65097	0.0002 20751	0.0120 52365
chrX:152864417- 152865029_mergedPeaks.39719_FAM58A_91_DUSP9_43173	1.6338 25874	0.0002 22546	0.0121 06437

chr1:234508844- 234509637_mergedPeaks.3318_MIR4671_67028_CO A6_188	1.0928 35337	0.0002 22698	0.0121 06437
chr19:19774313- 19775031_mergedPeaks.16226_ATP13A1_169_ZNF1 01_4990	1.2705 24227	0.0002 24764	0.0121 52887
chr12:51157490- 51158384_mergedPeaks.8073_ATF1_149_TMPRSS12 _78763	1.4639 12555	0.0002 25154	0.0121 52887
chr2:220042726- 220043211_mergedPeaks.19894_FAM134A_30_ZFAN D2B_28537	2.0818 87846	0.0002 25485	0.0121 53438
chr1:112162209- 112162846_mergedPeaks.1535_RAP1A_123_FAM212 B-AS1_119935	1.4694 34869	0.0002 27342	0.0122 36169
chr2:135381332- 135381742_mergedPeaks.18497_MGAT5_369708_T MEM163_95034	- 6.1918 28554	0.0002 29363	0.0123 09989
chr16:50402550- 50403087_mergedPeaks.13123_MIR6771_76292_BR D7_27	2.5141 53213	0.0002 30374	0.0123 14395
chr6:159420606- 159421293_mergedPeaks.32460_C6orf99_111331_R SPH3_249	1.4879 37151	0.0002 30415	0.0123 14395
chr17:30469164- 30469654_mergedPeaks.14206_SH3GL1P1_102055_ RHOT1_63	3.0749 24939	0.0002 30418	0.0123 14395
chr5:65220893- 65221848_mergedPeaks.27998_NLN_203348_ERBB2 IP_1011	1.5239 75068	0.0002 33994	0.0124 49298
chrX:70287940- 70288665_mergedPeaks.39044_SNX12_4_FOXO4_27 696	1.4991 06212	0.0002 34054	0.0124 49298
chr2:46473513- 46474325_mergedPeaks.17422_PRKCE_594877_EPA S1_50621	6.5708 22509	0.0002 35148	0.0124 79289
chr9:91003019- 91004019_mergedPeaks.37658_SPIN1_223_NXNL2_1 46496	1.0776 4983	0.0002 35548	0.0124 81597
chr19:10305238- 10305936_mergedPeaks.15997_EIF3G_74988_DNMT 1_168	1.6466 9062	0.0002 35954	0.0124 81597
chr7:86781411- 86782354_mergedPeaks.33673_DMTF1_206_TMEM2 43_67149	1.0042 16372	0.0002 38177	0.0125 52246

chr12:68758746- 68759589_mergedPeaks.8339_MDM1_33006_RAP1B_245451	1.2345 29219	0.0002 39541	0.0125 881
chr5:72112133- 72113097_mergedPeaks.28078_LOC102477328_156119_TNPO1_31314	1.4042 05765	0.0002 39768	0.0125 881
chr3:129158638- 129159416_mergedPeaks.23563_MBD4_5_RHO_88454	1.0160 28581	0.0002 39852	0.0125 881
chr14:96857883- 96858635_mergedPeaks.11467_GSKIP_27187_AK7_188	1.0019 41781	0.0002 40603	0.0126 10056
chr18:42258911- 42259576_mergedPeaks.15314_LOC101927921_147581_SETBP1_1619	1.9720 49283	0.0002 41915	0.0126 61334
chr1:191143268- 191143913_mergedPeaks.2510_RP11-463J7.2_549571_RGS18_984001	3.5988 68849	0.0002 42366	0.0126 67487
chrX:52949904- 52950667_mergedPeaks.38926_FAM156B_21877_FAM156A_74366	1.4814 75341	0.0002 43035	0.0126 7524
chr9:99328870- 99329378_mergedPeaks.37752_HABP4_116688_CDC14B_79	2.3836 97733	0.0002 43511	0.0126 7524
chr8:67687191- 67687985_mergedPeaks.35608_PTTG3P_7348_MCMDC2_96148	1.2295 70991	0.0002 43638	0.0126 7524
chr4:140222257- 140222951_mergedPeaks.26486_MGARP_21112_NAA15_71	1.1412 20337	0.0002 44366	0.0126 7524
chr4:84376601- 84377448_mergedPeaks.25691_HPSE_121058_HELQ_1	1.3243 0773	0.0002 44519	0.0126 7524
chr10:32635017- 32636370_mergedPeaks.4125_KIF5B_290322_EPC1_453	1.0257 26929	0.0002 47398	0.0127 73956
chr11:448033- 448530_mergedPeaks.5468_ANO9_6270_PTDSS2_1998	2.2351 93789	0.0002 48497	0.0128 11453
chr5:14144960- 14145644_mergedPeaks.27427_TRIO_1474_FAM105A_436588	- 1.2911 92624	0.0002 49714	0.0128 56704
chr5:131831488- 131832376_mergedPeaks.29047_IRF1_5467_IL5_47282	1.2185 53778	0.0002 52012	0.0129 54784

chr1:117113237- 117113836_mergedPeaks.1608_ATP1A1OS_152339_CD58_179	1.8374 40104	0.0002 52581	0.0129 54784
chr1:37939921- 37940602_mergedPeaks.464_ZC3H12A_143_MIR673_2_5569	1.4614 75285	0.0002 52643	0.0129 54784
chrX:17755112- 17755664_mergedPeaks.38561_NHS_101976_SCML1_180	1.2210 84348	0.0002 56982	0.0131 4176
chr22:23277556- 23278316_mergedPeaks.21402_IGLL5_47977_GNAZ_134732	1.1049 14944	0.0002 57727	0.0131 62125
chr19:8578523- 8579239_mergedPeaks.15979_PRAM1_11343_ZNF414_167	1.3839 6399	0.0002 63817	0.0134 36951
chr20:813972- 814542_mergedPeaks.20286_SLC52A3_65029_FAM110A_7660	1.5202 88055	0.0002 64764	0.0134 67131
chr17:15902740- 15903499_mergedPeaks.14054_ZSWIM7_113_NCOR1_194834	1.5164 97771	0.0002 65177	0.0134 70072
chr6:99872604- 99873872_mergedPeaks.31382_PNISR_31_USP45_90014	1.0865 89472	0.0002 67457	0.0135 67716
chr10:5734526- 5735101_mergedPeaks.3681_FAM208B_8013_GDI2_120699	2.4595 75718	0.0002 69217	0.0136 38794
chr10:104180500- 104181292_mergedPeaks.5043_FBXL15_1326_CUEDC2_11527	1.3469 43588	0.0002 72831	0.0137 6671
chr17:7142706- 7143296_mergedPeaks.13966_PHF23_752_GABARAP_2752	1.1312 62672	0.0002 74159	0.0137 7369
chr11:62341216- 62341830_mergedPeaks.6274_EEF1G_63_TUT1_17586	1.0552 16464	0.0002 745	0.0137 7369
chr21:19220497- 19220975_mergedPeaks.21073_C21orf91_29033_CHODL-AS1_37189	3.1371 69495	0.0002 74665	0.0137 7369
chr6:33756665- 33757121_mergedPeaks.30527_IP6K3_42131_LEMD2_13	2.5595 25387	0.0002 74999	0.0137 7369
chr17:28256785- 28257471_mergedPeaks.14189_CORO6_308687_SSH2_118	1.6722 77577	0.0002 75147	0.0137 7369

chr16:88729317-88729975_mergedPeaks.13804_MVD_151_SNAI3-AS1_134	1.0457 63103	0.0002 78564	0.0139 26344
chr15:64995021-64995701_mergedPeaks.12018_ZNF609_203743_OAZ2_101	1.7488 80128	0.0002 7914	0.0139 368
chr12:56511654-56512357_mergedPeaks.8164_RPL41_1632_ZC3H10_24	1.1440 93713	0.0002 79705	0.0139 4666
chr7:111720473-111720963_mergedPeaks.34119_DOCK4-AS1_272158_DOCK4_125744	6.5815 57592	0.0002 88624	0.0143 62692
chr19:17336843-17337553_mergedPeaks.16152_OCEL1_144_NR2F6_18953	1.0062 10596	0.0002 90557	0.0144 05228
chr1:33282814-33283414_mergedPeaks.413_KIAA1522_75603_S100PBP_4	1.1786 23447	0.0002 908	0.0144 05228
chr1:155532392-155533223_mergedPeaks.1862_ASH1L_483_MSTO1_47153	1.4508 07637	0.0002 93313	0.0145 10761
chr8:61693160-61693818_mergedPeaks.35504_CHD7_102166_LOC100130298_186818	2.9681 25822	0.0002 94592	0.0145 55092
chr20:5054830-5055341_mergedPeaks.20344_SLC23A2_64146_TMEM230_38648	6.8313 03404	0.0002 96098	0.0146 10458
chr9:19048921-19049650_mergedPeaks.37110_MIR3152_475982_FAM154A_67	1.2502 40085	0.0002 96809	0.0146 26515
chr16:3184717-3185364_mergedPeaks.12637_RP11-473M20.14_157_ZNF213_93	1.6254 05444	0.0002 98099	0.0146 52033
chr12:39861113-39861694_mergedPeaks.7898_KIF21A_24211_ABCD2_152440	3.0668 00509	0.0002 99263	0.0146 70197
chr5:118272994-118273637_mergedPeaks.28813_RP11-2N5.1_341433_DTWD2_50925	6.5908 60814	0.0002 99572	0.0146 70197
chr9:100684296-100685006_mergedPeaks.37774_FOXC1_69115_C9orf156_201	1.1848 49179	0.0002 99628	0.0146 70197
chr3:195642021-195642299_mergedPeaks.24638_TNK2_19728_SDHAP1_74990	6.8204 0094	0.0003 05215	0.0149 04885
chr7:28448757-	6.6579	0.0003	0.0149

28449082_mergedPeaks.33047_JAZF1_228482_CREB 5_276801	51174	07051	46446
chr13:33762399- 33763046_mergedPeaks.9496_KL_172152_STARD13 _17465	6.4990 3007	0.0003 07634	0.0149 46446
chrX:16041929- 16042765_mergedPeaks.38534_AP1S2_169210_GRP R_99076	1.8256 51966	0.0003 11952	0.0150 93051
chr20:61492978- 61493585_mergedPeaks.20989_TCFL5_166_DIDO1_7 6023	1.4281 79153	0.0003 12243	0.0150 93051
chr7:120627719- 120628075_mergedPeaks.34285_ING3_37081_CPED 1_853	6.5058 04589	0.0003 14819	0.0151 98211
chr13:77600317- 77601660_mergedPeaks.9983_CLN5_34930_FBXL3_3 43	1.0462 86874	0.0003 15272	0.0152 00775
chr3:113774975- 113775975_mergedPeaks.23329_KIAA1407_15_QTR TD1_106	1.0744 44888	0.0003 17386	0.0152 64542
chr7:7606216-7606987_mergedPeaks.32742_RP5- 115904.2_905_MIOS_14	1.0494 94373	0.0003 1889	0.0152 90065
chr3:72031771- 72032137_mergedPeaks.22807_PROK2_197597_LIN C00877_117652	6.5133 40847	0.0003 19139	0.0152 90065
chr13:103659179- 103659994_mergedPeaks.10335_METTL21EP_12713 8_SLC10A2_59610	2.5416 94555	0.0003 20394	0.0153 30836
chr2:203240581- 203241154_mergedPeaks.19626_SNORD11_83094_B MPR2_182	1.3766 00268	0.0003 22306	0.0154 02906
chr16:88923154- 88923730_mergedPeaks.13813_GALNS_68_TRAPPC2 L_63	1.1665 27859	0.0003 25762	0.0155 48478
chr3:183892252- 183892845_mergedPeaks.24436_DVL3_19265_AP2M 1_85	1.2179 16308	0.0003 26294	0.0155 54321
chr1:54303649- 54304435_mergedPeaks.671_GLIS1_104165_NDC1_1 83	1.3384 57738	0.0003 26902	0.0155 6375
chr15:22387293- 22387708_mergedPeaks.11596_OR4N4_5028_OR4N 3P_25961	6.7953 39016	0.0003 29005	0.0156 44221
chr19:50887141- 50887901_mergedPeaks.16649_NR1H2_7842_POLD1	1.2217 39012	0.0003 3186	0.0157 40553

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chr16:22448291- 22448991_mergedPeaks.12871_SMG1P1_313_RRN3P 3_395	2.0728 58152	0.0003 35467	0.0158 59487
chr10:90639911- 90640837_mergedPeaks.4840_STAMBPL1_431_FAS_ 109913	1.2729 49238	0.0003 35514	0.0158 59487
chr10:69834400- 69835255_mergedPeaks.4550_SIRT1_189889_HERC 4_276	1.1172 97496	0.0003 35622	0.0158 59487
chr15:59041730- 59042401_mergedPeaks.11940_HSP90AB4P_56259_ ADAM10_112	1.1681 35959	0.0003 36573	0.0158 84672
chr12:105724074- 105724715_mergedPeaks.8966_APPL2_97211_C12or f75_19	1.1817 44805	0.0003 37369	0.0158 84688
chr17:41399935- 41400174_mergedPeaks.14343_LINC00854_18992_L INC00910_66212	6.8369 51933	0.0003 37411	0.0158 84688
chr8:128300294- 128301023_mergedPeaks.36589_CCAT1_69145_CCA T2_111985	2.9770 91232	0.0003 37889	0.0158 87491
chr9:6917103- 6917598_mergedPeaks.37022_KDM4C_196488_TME M261_882449	6.5674 36368	0.0003 38776	0.0159 09491
chr7:95099806- 95100237_mergedPeaks.33843_PON2_35637_ASB4_ 15191	- 3.9572 99518	0.0003 40885	0.0159 88739
chr22:41488489- 41488717_mergedPeaks.21587_MIR1281_87_EP300_ 10	3.9338 48204	0.0003 42444	0.0160 24315
chr7:45808276- 45808954_mergedPeaks.33307_ADCY1_194877_SEP T7P2_2	1.2871 15087	0.0003 43701	0.0160 35443
chr6:83299418- 83299777_mergedPeaks.31157_TPBG_225637_UBE3 D_475948	- 6.1654 59665	0.0003 44101	0.0160 35443
chr16:15248453- 15249105_mergedPeaks.12802_RRN3_60621_MIR31 80-4_80	1.3978 90848	0.0003 4419	0.0160 35443
chr19:46389570- 46390202_mergedPeaks.16558_IRF2BP1_510_MYPO P_15976	1.5969 56869	0.0003 4458	0.0160 35443
chr2:42396195- 42396965_mergedPeaks.17351_EML4_91_AC083949.	1.3877 76923	0.0003 44839	0.0160 35443

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chr16:81865233-81865737_mergedPeaks.13672_PLCG2_52623_SDR42E1_179608	3.0028 54969	0.0003 4671	0.0160 71695
chr2:216705303-216705828_mergedPeaks.19820_AC012462.2_387136_LINC00607_2694	6.4983 45745	0.0003 4936	0.0161 46748
chr14:24711382-24712223_mergedPeaks.10571_GMPR2_9725_TINF2_78	1.0533 69809	0.0003 53003	0.0162 95242
chr21:40817295-40818157_mergedPeaks.21272_LCA5L_1598_SH3BGR_70	1.7956 57577	0.0003 5508	0.0163 71226
chr8:42248410-42248769_mergedPeaks.35288_DKK4_13915_VDAC3_689	6.5021 4568	0.0003 56438	0.0164 13898
chrX:48776059-48776691_mergedPeaks.38894_SLC35A2_7140_PIM2_38	1.3616 23946	0.0003 58141	0.0164 72333
chr9:73034850-73035517_mergedPeaks.37465_KLF9_5610_MIR204_389817	1.6162 87367	0.0003 59333	0.0165 07148
chr20:62612202-62612620_mergedPeaks.21017_SAMD10_1416_PRPF6_19	2.0854 74551	0.0003 60089	0.0165 21838
chr19:34850031-34850712_mergedPeaks.16295_KIAA0355_104916_GPI_5273	1.0640 33009	0.0003 60677	0.0165 26047
chr7:90242294-90242862_mergedPeaks.33739_CDK14_16903_FZD1_651204	6.4246 75787	0.0003 61051	0.0165 26047
chr15:72668089-72668726_mergedPeaks.12117_CELF6_55882_HEXAS1_46	1.7131 3956	0.0003 64706	0.0166 47886
chr10:50570505-50571081_mergedPeaks.4275_C10orf71_63607_DRGX_33269	3.5841 25076	0.0003 65029	0.0166 47886
chr3:46249820-46250057_mergedPeaks.22440_CCR1_106_CCR3_33933	6.7192 80908	0.0003 67009	0.0167 18057
chr1:35318281-35318631_mergedPeaks.432_GJA4_59858_SMIM12_6190	7.0350 1807	0.0003 74365	0.0170 06139
chr1:10534874-10535216_mergedPeaks.135_PEX14_43_CASZ1_3216	6.6299 97739	0.0003 74723	0.0170 06139



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chr6:91078688-91079269_mergedPeaks.31280_MIR4464_56518_MAPP3K7_218042	2.9063 07999	0.0003 75126	0.0170 06139
chr12:24894174-24894553_mergedPeaks.7714_LINC00477_157261_BCAT1_161646	6.4222 27864	0.0003 75761	0.0170 14636
chr15:40732826-40733369_mergedPeaks.11742_IVD_35412_BAHD1_313	1.2184 21698	0.0003 79763	0.0171 34471
chr7:5229518-5230103_mergedPeaks.32691_ZNF890P_45633_WIP12_24089	1.6184 53235	0.0003 80516	0.0171 4809
chr5:140026845-140027669_mergedPeaks.29189_TMCO6_8246_NDUFA2_113	1.3347 08394	0.0003 81621	0.0171 77462
chr3:197025309-197025691_mergedPeaks.24666_DLG1-AS1_383_DLG1_643	2.0802 33586	0.0003 83471	0.0171 99892
chr7:26904008-26904703_mergedPeaks.33035_SKAP2_14_HOXA1_231270	1.1016 3516	0.0003 8353	0.0171 99892
chr19:58858825-58859209_mergedPeaks.16775_MIR6806_12964_A1BG-AS1_4318	3.1939 4402	0.0003 83626	0.0171 99892
chr19:12833330-12833687_mergedPeaks.16065_TNPO2_403_C19orf43_12021	3.3806 30516	0.0003 84793	0.0171 99892
chr19:41869564-41870377_mergedPeaks.16449_TGFB1_10132_B9D2_108	1.3994 94129	0.0003 85491	0.0172 08772
chr1:231473387-231474213_mergedPeaks.3272_SPRTN_119_EGLN1_86990	1.5212 5453	0.0003 86979	0.0172 14342
chr2:48009911-48010824_mergedPeaks.17449_MSH6_147_FBXO11_122565	1.2814 26306	0.0003 87339	0.0172 14342
chr12:57916184-57916720_mergedPeaks.8202_DDIT3_2152_MBD6_206	1.2177 08791	0.0003 87522	0.0172 14342
chr16:4303586-4304382_mergedPeaks.12656_RP11-95P2.1_194_TFAP4_19017	1.1401 9694	0.0003 8805	0.0172 14342
chr19:10349833-10350349_mergedPeaks.16001_S1PR2_8143_MRPL4_12548	1.6279 18321	0.0003 88338	0.0172 14342

chr19:47777352- 47778262_mergedPeaks.16580_PRR24_149_C5AR1_35296	1.1640 19221	0.0003 91928	0.0173 32984
chr17:73663149- 73663617_mergedPeaks.14779_RECQL5_114_SAP30BP_15	1.7604 36043	0.0003 92669	0.0173 45564
chr12:63034657- 63035286_mergedPeaks.8240_MIRLET7I_37506_PP M1H_293694	6.4894 80721	0.0003 94755	0.0174 07232
chr10:85954163- 85954442_mergedPeaks.4768_C10orf99_20749_CDH R1_88	6.5064 58754	0.0003 9543	0.0174 07232
chr19:39340031- 39340288_mergedPeaks.16393_ECH1_17662_HNRN PL_2820	1.8496 73294	0.0003 95781	0.0174 07232
chr1:40626822- 40627265_mergedPeaks.507_RLF_3_TMCO2_86529	2.1468 84407	0.0003 96812	0.0174 27116
chr18:41613131- 41613584_mergedPeaks.15308_SYT4_755742_LOC1 01927921_498305	6.5712 28563	0.0003 97807	0.0174 37033
chr17:30185887- 30186496_mergedPeaks.14202_MIR365B_283762_C OPRS_135	2.5102 11518	0.0003 98215	0.0174 37033
chr9:14585598- 14586182_mergedPeaks.37067_NFIB_271845_ZDHH C21_107590	- 1.5141 53151	0.0003 98416	0.0174 37033
chr13:60308419- 60309028_mergedPeaks.9800_PCDH17_2102935_DI APH3-AS1_278128	- 1.9023 27111	0.0004 00935	0.0175 06861
chr8:42911082- 42911915_mergedPeaks.35301_FNTA_57_POMK_371 50	1.1715 58049	0.0004 03083	0.0175 52507
chr9:21444152- 21444638_mergedPeaks.37160_IFNA1_3943_IFNE_3 7917	6.6524 41834	0.0004 03654	0.0175 52507
chr6:26157678- 26158784_mergedPeaks.30344_HIST1H1E_1673_HIS T1H2BD_117	1.2962 80538	0.0004 04227	0.0175 52507
chr7:100860803- 100861524_mergedPeaks.33955_PLOD3_152_CLDN1 5_20064	1.9566 08165	0.0004 04755	0.0175 52507
chr7:102036423- 102037040_mergedPeaks.33971_LOC100630923_32 424_PRKRIP1_72	1.6881 78315	0.0004 07744	0.0176 61919
chr2:101868884-	1.0941	0.0004	0.0176

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chr21:33031627- 33032486_mergedPeaks.21176_SOD1_122_SCAF4_72 375	1.1059 38402	0.0004 09745	0.0177 08175
chr10:64415139- 64415702_mergedPeaks.4471_LOC283045_280534_ ADO_149095	1.9945 72758	0.0004 13027	0.0177 94318
chrX:112984162- 112984595_mergedPeaks.39354_LOC101928437_69 8424_HTR2C_834172	- 2.9670 8765	0.0004 16009	0.0178 77101
chr12:57081784- 57082466_mergedPeaks.8184_PTGES3_344_NACA_3 6941	1.2331 58949	0.0004 17165	0.0179 06493
chr2:85444075- 85444664_mergedPeaks.17961_TCF7L1_83787_TGO LN2_111050	6.5113 76007	0.0004 18095	0.0179 26111
chr1:9687046- 9687364_mergedPeaks.123_TMEN201_38274_PIK3C D_24584	2.2780 57541	0.0004 21706	0.0180 60519
chr8:40031934- 40032469_mergedPeaks.35257_C8orf4_21215_ZMAT 4_723142	6.6174 7062	0.0004 25246	0.0181 91625
chr5:86399491- 86399916_mergedPeaks.28264_LOC100505878_357 069_MIR4280_11068	- 5.9632 06503	0.0004 26077	0.0182 05771
chr7:81246221- 81246766_mergedPeaks.33602_SEMA3C_697826_HG F_152959	6.7385 93992	0.0004 27436	0.0182 23676
chr3:50654185- 50654741_mergedPeaks.22524_CISH_5201_MAPKAP K3_98	1.4326 83714	0.0004 28745	0.0182 52116
chr14:96968090- 96968969_mergedPeaks.11469_AK7_110082_PAPOL A_183	1.3600 59586	0.0004 29065	0.0182 52116
chr10:27531877- 27532145_mergedPeaks.4058_ACBD5_943_LRRC37A 6P_9224	3.8658 89023	0.0004 41352	0.0187 14594
chr9:72873480- 72874405_mergedPeaks.37461_SMC5_65_KLF9_155 631	1.1813 69777	0.0004 45129	0.0188 50901
chr1:1509900- 1510525_mergedPeaks.23_TMEN240_34472_SSU72_ 50	1.8047 35355	0.0004 46597	0.0188 91983
chr17:40075098-	1.3324	0.0004	0.0190

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chr8:26148706-26149566_mergedPeaks.35072_EBF2_246496_PPP2R2A_1595	1.0727 84987	0.0004 52949	0.0190 75657
chr21:33104013-33104934_mergedPeaks.21177_SCAF4_42_HUNK_141154	1.1309 26448	0.0004 54319	0.0191 12114
chr3:14692827-14693464_mergedPeaks.21933_GRIP2_109557_CCD C174_107	1.3641 68273	0.0004 55144	0.0191 25623
chr1:3541110-3541728_mergedPeaks.58_MEGF6_13360_TPRG1L_136	1.1747 95237	0.0004 60775	0.0193 25037
chr7:5258223-5258807_mergedPeaks.32692_WIPI2_4616_SLC29A4_64045	- 1.4611 49803	0.0004 61417	0.0193 25037
chr6:122792567-122793449_mergedPeaks.31749_SERINC1_56_PKIB_180865	1.4164 25947	0.0004 63547	0.0193 89126
chr15:52758233-52758839_mergedPeaks.11880_MYO5C_170541_MY O5A_62711	1.8534 80464	0.0004 64843	0.0193 89126
chr3:173113241-173113538_mergedPeaks.24237_SPATA16_254331_NLGN1_2848	- 2.9583 74439	0.0004 64864	0.0193 89126
chr8:67025181-67026265_mergedPeaks.35590_DNAJC5B_91933_TRIM55_13554	1.1969 32361	0.0004 64992	0.0193 89126
chr10:30024182-30024890_mergedPeaks.4078_SVIL_100635_KIAA1462_323952	2.3897 69756	0.0004 67158	0.0194 25657
chr15:86189737-86190160_mergedPeaks.12311_AKAP13_26768_MIR1276_123861	6.5173 69288	0.0004 67751	0.0194 25657
chr12:114435129-114435531_mergedPeaks.9084_RBM19_31154_TBX5_408638	6.6932 84948	0.0004 67915	0.0194 25657
chr15:101791823-101792725_mergedPeaks.12538_CHSY1_137_VIMP_25451	1.6033 39155	0.0004 69525	0.0194 57256
chr1:2517675-2518275_mergedPeaks.55_FAM213B_77_MMEL1_46506	1.3242 05702	0.0004 70525	0.0194 57256
chr20:32890646-	1.3238	0.0004	0.0195

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chr22:21271308-21272086_mergedPeaks.21382_SNAP29_58406_CRK_L_16	1.2584493	0.0004742	0.019520032
chr17:49338192-49338467_mergedPeaks.14469_UTP18_433_RP11-1018N14.1_74194	2.195977521	0.00047428	0.019520032
chr19:58789910-58790483_mergedPeaks.16772_ZNF544_50127_ZNF8_121	1.128877935	0.000474304	0.019520032
chr7:84305114-84305427_mergedPeaks.33653_AC003984.1_143479_SEMA3D_445977	-5.988615289	0.000477496	0.019628037
chr19:41222633-41223261_mergedPeaks.16439_ADCK4_157_ITPKC_60	1.271275756	0.000477963	0.019628037
chr21:48055154-48056049_mergedPeaks.21340_PRMT2_95_NA_INF	1.310346086	0.000481845	0.019743263
chrX:148959162-148959413_mergedPeaks.39688_LINC00850_655_MAGEA8_50653	-4.407752393	0.000484157	0.019754112
chr8:59323637-59324183_mergedPeaks.35462_UBXN2B_88_CYP7A1_88810	1.995143028	0.000488231	0.019898961
chr2:192058611-192059320_mergedPeaks.19407_STAT4_42643_MYO1B_51141	1.347110404	0.000490814	0.019945899
chr17:7591401-7591810_mergedPeaks.13983_WRAP53_2217_EFNB3_16914	2.192397343	0.000491306	0.019945899
chr4:170019155-170020039_mergedPeaks.26996_CBR4_88129_SH3RF1_172652	2.469681106	0.000491485	0.019945899
chr8:145733889-145734693_mergedPeaks.36870_GPT_4827_MFSD3_260	1.048311963	0.000494921	0.020057401
chr7:31745105-31745430_mergedPeaks.33107_PPP1R17_18637_PDE1C_365207	6.570157835	0.000495794	0.020057401
chr6:27858326-27858861_mergedPeaks.30401_HIST1H3J_23_HIST1H2AM_2370	1.330749191	0.000495903	0.020057401
chr3:61566963-61567339_mergedPeaks.22674_PTPRG_19909_PTPR	6.879894992	0.000496347	0.020057401

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chr7:76751403- 76752069_mergedPeaks.33558_PMS2P9_82940_CCD C146_197	1.0934 26917	0.0004 97886	0.0200 76808
chr3:101695391- 101695826_mergedPeaks.23114_LOC152225_35906 _ZPLD1_458250	6.4916 14537	0.0004 98551	0.0200 82279
chr18:51777134- 51777669_mergedPeaks.15443_MBD2_26243_POLI_ 18447	- 3.0807 34967	0.0005 03819	0.0202 19715
chr20:30467391- 30468107_mergedPeaks.20647_TTLL9_9245_PDRG1 _72134	2.1467 51907	0.0005 04448	0.0202 19715
chr9:132650649- 132651297_mergedPeaks.38247_MIR6855_19090_F NBP1_154500	1.3157 82311	0.0005 04855	0.0202 19715
chr14:105282064- 105282669_mergedPeaks.11554_ZBTB42_15434_LI NC00638_5171	1.8121 5303	0.0005 05542	0.0202 19715
chrX:118149442- 118150072_mergedPeaks.39399_LONRF3_41181_KI AA1210_134785	- 2.4364 7817	0.0005 05693	0.0202 19715
chr5:150826855- 150827331_mergedPeaks.29405_SLC36A2_99942_SL C36A1_69	1.7797 004	0.0005 07195	0.0202 27398
chr2:157389487- 157389864_mergedPeaks.18850_GPD2_96776_GALN T5_724664	6.4224 77611	0.0005 07509	0.0202 27398
chr2:39322045- 39322594_mergedPeaks.17312_LOC375196_134834 _SOS1_25285	6.4401 78243	0.0005 07905	0.0202 27398
chr2:201753561- 201754377_mergedPeaks.19601_PPIL3_120_NIF3L1 _138	1.7352 10367	0.0005 0807	0.0202 27398
chr3:43732003- 43733031_mergedPeaks.22409_ABHD5_143_MIR138 -1_423186	1.0515 50723	0.0005 13759	0.0203 70512
chr11:61734673- 61735422_mergedPeaks.6269_BEST1_17692_FTH1_ 85	1.1898 61034	0.0005 15643	0.0204 16542
chr7:142985003- 142985722_mergedPeaks.34635_TMEN139_3371_C ASP2_1318	1.1050 99744	0.0005 15996	0.0204 16542
chr1:238162814- 238163375_mergedPeaks.3408_ZP4_108872_LINC01	6.5759 19672	0.0005 17487	0.0204 26947

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chr1:154531070- 154531708_mergedPeaks.1826_UBE2Q1_269_CHRN B2_8867	1.1479 68347	0.0005 1783	0.0204 26947
chr11:59436282- 59437146_mergedPeaks.6229_PATL1_203_OR10V1_ 44604	1.1804 23711	0.0005 17936	0.0204 26947
chr10:31607112- 31608542_mergedPeaks.4106_ZNF438_286961_ZEB 1-AS1_197	1.0306 83408	0.0005 18412	0.0204 26947
chr8:54674131- 54674664_mergedPeaks.35383_OPRK1_510140_ATP 6V1H_81474	6.5526 0268	0.0005 2139	0.0205 22962
chr2:148601655- 148602328_mergedPeaks.18695_PABPC1P2_125736 7_ACVR2A_94	1.8629 89803	0.0005 22026	0.0205 26704
chr1:182572971- 182573872_mergedPeaks.2392_RNASEL_15027_RGS 16_127	1.1461 29595	0.0005 23283	0.0205 54845
chr7:37826308- 37827194_mergedPeaks.33191_GPR141_46756_NME 8_61447	- 1.7316 99124	0.0005 25064	0.0206 03485
chr1:76960450- 76960836_mergedPeaks.983_ST6GALNAC3_420255_ ST6GALNAC5_372542	6.5698 87051	0.0005 25988	0.0206 18395
chr6:24992099- 24992352_mergedPeaks.30318_FAM65B_114632_C MAHP_145826	6.5072 08819	0.0005 33095	0.0208 75443
chr2:74709868- 74710570_mergedPeaks.17836_TTC31_20_CCDC142 _138	1.8374 39504	0.0005 35055	0.0208 95814
chr1:154955492- 154955916_mergedPeaks.1841_MIR4258_7536_FLA D1_65	1.7118 30281	0.0005 35268	0.0208 95814
chr18:60860087- 60860428_mergedPeaks.15598_PHLPP1_477586_BC L2_126356	6.5882 65301	0.0005 38424	0.0209 97446
chr7:45047541- 45047788_mergedPeaks.33303_CCM2_8320_NACAD_ 80829	6.5697 74424	0.0005 3932	0.0210 10767
chr11:62358920- 62359495_mergedPeaks.6275_TUT1_98_MTA2_1010 5	1.6069 09488	0.0005 40702	0.0210 21455
chr15:60770962- 60771600_mergedPeaks.11963_ANXA2_81096_NAR	1.1780 51823	0.0005 41833	0.0210 43881

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chr15:93168487-93169241_mergedPeaks.12400_LINC00930_53371_FAM174B_30167	3.0607 13213	0.0005 43928	0.0211 03613
chr11:67572685-67573673_mergedPeaks.6428_FAM86C2P_372_UNC93B1_198416	1.4364 72884	0.0005 45559	0.0211 45273
chr13:66080130-66080443_mergedPeaks.9857_LINC00395_1768135_PCDH9-AS2_1319014	6.4270 81028	0.0005 47334	0.0211 71235
chr15:65133499-65134267_mergedPeaks.12023_PIF1_16016_PLEKH02_198	1.5035 88875	0.0005 47667	0.0211 71235
chr11:132227571-132228701_mergedPeaks.7353_NTM-IT_73941_OPCML_584901	- 1.1545 17141	0.0005 47902	0.0211 71235
chr5:153608151-153608791_mergedPeaks.29445_GALNT10_38177_SAP30L-AS1_216911	- 3.9728 07971	0.0005 49331	0.0212 04836
chr12:8763727-8764241_mergedPeaks.7471_CLEC4E_70426_AICDA_1458	6.5309 37725	0.0005 51685	0.0212 74065
chr12:42491796-42492256_mergedPeaks.7932_PDZRN4_909777_GXYLT1_46647	6.4908 05801	0.0005 54051	0.0213 21969
chrX:48900838-48901529_mergedPeaks.38899_TFE3_140_CCDC120_9777	1.1561 58589	0.0005 55716	0.0213 45281
chr15:62352035-62352326_mergedPeaks.11979_RORA_1467473_VPS13C_484	2.8991 64578	0.0005 55782	0.0213 45281
chr6:154619505-154619843_mergedPeaks.32346_OPRM1_212033_IPCEF1_58226	6.4419 04929	0.0005 56948	0.0213 68432
chr9:75748801-75749190_mergedPeaks.37510_ALDH1A1_180762_A_NXA1_17785	6.3431 0486	0.0005 57912	0.0213 83817
chr3:15386782-15387550_mergedPeaks.21953_SH3BP5_4265_METTL6_81876	2.5187 73273	0.0005 61152	0.0214 86279
chr1:224390962-224391232_mergedPeaks.3126_DEGS1_20188_LOC101927143_9884	6.4272 17932	0.0005 62255	0.0215 06817
chr15:82339176-82339751_mergedPeaks.12251_MEX3B_979_EFTUD	1.4413 01335	0.0005 63814	0.0215 24098



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chr6:122744011- 122744394_mergedPeaks.31748_HSF2_23507_SERIN C1_48750	6.4136 02194	0.0005 64976	0.0215 24098
chr7:76022317- 76022794_mergedPeaks.33552_YWHAG_34213_ZP3_ 4285	2.3967 06341	0.0005 67079	0.0215 82553
chr6:5260635- 5261898_mergedPeaks.29971_LYRM4_83_FARS2_31 7	1.0989 84192	0.0005 68776	0.0216 2547
chr8:90416007- 90416385_mergedPeaks.35951_MMP16_1076479_RI PK2_353778	- 2.5736 96099	0.0005 70231	0.0216 59056
chr5:120363404- 120363722_mergedPeaks.28849_PRR16_563545_LO C102467226_294681	- 2.9636 96362	0.0005 72515	0.0216 97805
chr6:37400768- 37401244_mergedPeaks.30574_CMTR1_100_CCDC16 7_66694	1.5039 50656	0.0005 72834	0.0216 97805
chr6:97355337- 97355851_mergedPeaks.31355_NDUFAF4_9827_KLH L32_16901	6.5314 96435	0.0005 72966	0.0216 97805
chr17:16311269- 16312073_mergedPeaks.14062_UBB_27068_TRPV2_ 7184	1.4344 03485	0.0005 73614	0.0217 00678
chr20:30946573- 30946937_mergedPeaks.20658_ASXL1_609_LOC101 929698_151006	2.5592 84955	0.0005 75886	0.0217 37085
chr9:68726145- 68726743_mergedPeaks.37417_LOC642236_272069 _LOC100132352_96	1.3673 2067	0.0005 76234	0.0217 37085
chr11:108491586- 108492739_mergedPeaks.6959_EXPH5_27788_DDX1 0_43589	1.8915 79661	0.0005 76295	0.0217 37085
chr1:68214234- 68214681_mergedPeaks.874_GADD45A_63598_GNG 12-AS1_83513	6.3404 32698	0.0005 79424	0.0218 33397
chr1:50992979- 50993485_mergedPeaks.630_DMRTA2_104113_FAF 1_432704	6.3342 61763	0.0005 80999	0.0218 67959
chr7:74072505- 74073101_mergedPeaks.33531_GTF2I_813_LOC1019 26943_70453	1.1340 17167	0.0005 81493	0.0218 67959
chr16:2390486- 2391127_mergedPeaks.12610_ABCA3_59_ABCA17P_ 7	1.3796 02322	0.0005 8457	0.0219 27062

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chr12:15103419- 15103764_mergedPeaks.7604_ERP27_12128_ARHGD IB_10971	3.6029 11117	0.0005 84799	0.0219 27062
chr7:14788187- 14788556_mergedPeaks.32823_ETV1_758729_DGKB _92704	6.4088 14636	0.0005 89631	0.0220 50027
chr11:18417506- 18418025_mergedPeaks.5769_LDHA_1830_LDHC_16 087	1.4668 6897	0.0005 8991	0.0220 50027
chr22:36924923- 36925759_mergedPeaks.21514_EIF3D_64_CACNG2_1 73349	1.0624 9137	0.0005 91586	0.0220 50027
chrX:135067330- 135067808_mergedPeaks.39599_MMGT1_11435_SLC 9A6_16	6.4794 98225	0.0005 91796	0.0220 50027
chr6:47683436- 47683874_mergedPeaks.30711_GPR115_17367_OPN 5_66119	6.5319 73304	0.0005 92154	0.0220 50027
chr1:146713979- 146715035_mergedPeaks.1706_CHD1L_217_LINC00 624_275192	1.2006 99656	0.0005 92738	0.0220 50027
chr14:101106784- 101107078_mergedPeaks.11504_BEGAIN_72524_LIN C00523_16673	6.6257 88852	0.0005 93069	0.0220 50027
chr15:97104771- 97105173_mergedPeaks.12463_MIR1469_228483_S PATA8-AS1_219912	- 2.9658 84573	0.0005 93308	0.0220 50027
chr4:39460287- 39460887_mergedPeaks.25161_RPL9_380_LIAS_56	1.5674 10104	0.0005 96436	0.0221 0135
chr11:33795830- 33796400_mergedPeaks.5982_FBXO3_44_LMO2_117 721	1.8124 77178	0.0005 97914	0.0221 27417
chr9:139304759- 139305221_mergedPeaks.38309_SNAPC4_12101_PM PCA_34	3.0727 94755	0.0006 04296	0.0223 05454
chr14:95982275- 95982695_mergedPeaks.11457_SYNE3_40312_SCAR NA13_17481	2.6522 49653	0.0006 0595	0.0223 23075
chr10:49514298- 49515155_mergedPeaks.4258_FRMPD2_131540_MA PK8_94928	1.2155 16169	0.0006 09825	0.0224 22292
chr4:59627643- 59628012_mergedPeaks.25395_IGFBP7_1651276_LP HN3_2735011	6.5075 20305	0.0006 12191	0.0224 87499

chr1:178062588- 178062998_mergedPeaks.2300_LOC730102_55651_ RASAL2-AS1_335	6.4436 37662	0.0006 14382	0.0225 10348
chr10:103329911- 103330210_mergedPeaks.5025_BTRC_216271_POLL _17967	3.7040 87162	0.0006 14454	0.0225 10348
chr5:35058453- 35058964_mergedPeaks.27624_AGXT2_10468_PRLR _59516	6.3309 14172	0.0006 1464	0.0225 10348
chr2:70417372- 70418407_mergedPeaks.17769_LOC100133985_654 41_C2orf42_262	1.3400 99159	0.0006 16231	0.0225 10348
chr5:148211267- 148211851_mergedPeaks.29337_ADRB2_5404_SH3T C2_231178	6.4276 72348	0.0006 1658	0.0225 10348
chr3:102886577- 102887057_mergedPeaks.23137_ZPLD1_732959_MI R548A3_1059288	6.3341 30908	0.0006 17598	0.0225 10348
chr10:23003231- 23003807_mergedPeaks.3978_PIP4K2A_16_ARMC3_ 213433	1.8967 82012	0.0006 17763	0.0225 10348
chr22:38073185- 38073500_mergedPeaks.21531_LGALS1_1730_NOL1 2_9001	2.6760 55233	0.0006 18152	0.0225 10348
chr19:46405781- 46406550_mergedPeaks.16559_MYPOP_303_NANOS 2_11871	1.2176 94465	0.0006 20482	0.0225 73544
chr20:46115913- 46116623_mergedPeaks.20829_ZMYND8_130635_N COA3_14332	2.0366 90016	0.0006 22135	0.0226 05488
chr22:31364850- 31365595_mergedPeaks.21470_TUG1_26_SMTN_115 759	1.2308 733	0.0006 24353	0.0226 27577
chr16:70099586- 70100250_mergedPeaks.13436_PDXDC2P_67_PDPR_ 47610	1.5775 54106	0.0006 29672	0.0227 76839
chr1:150551758- 150552459_mergedPeaks.1749_ADAMTSL4- AS1_5080_MCL1_106	1.0987 32829	0.0006 33453	0.0228 70021
chr5:1523925- 1524443_mergedPeaks.27325_LPCAT1_108_SDHAP3 _70462	1.7317 04415	0.0006 39264	0.0230 57846
chr9:120406705- 120407204_mergedPeaks.38061_SNORA70C_463474 _RP11-500B12.1_3929	6.3340 54632	0.0006 40626	0.0230 85032

chr12:56360271- 56360693_mergedPeaks.8156_DGKA_34671_PMEL_1 4	2.5786 25388	0.0006 4413	0.0231 89296
chr17:37617972- 37618225_mergedPeaks.14276_CDK12_335_NEURO D2_146077	6.6385 17595	0.0006 45439	0.0232 09035
chr1:101901566- 101902177_mergedPeaks.1407_RNU6- 31P_95420_OLFM3_410765	6.4077 58321	0.0006 45902	0.0232 09035
chr1:53308231- 53308679_mergedPeaks.661_ZYG11A_273_ECHDC2_ 78991	2.1034 93767	0.0006 46793	0.0232 16486
chr1:234735515- 234736219_mergedPeaks.3325_RP5- 855F14.1_68342_IRF2BP2_9404	1.0712 29769	0.0006 50134	0.0232 94951
chr16:56643490- 56643759_mergedPeaks.13200_MT2A_1147_MT1L_7 748	6.4279 73971	0.0006 57256	0.0235 17382
chr2:146402312- 146402891_mergedPeaks.18663_TEX41_977068_PA BPC1P2_942023	3.4196 41802	0.0006 57582	0.0235 17382
chr17:76778243- 76778829_mergedPeaks.14837_CYTH1_160_USP36_ 58433	1.4282 78796	0.0006 58696	0.0235 35034
chr1:154974340- 154974953_mergedPeaks.1843_LENEP_8585_ZBTB7 B_459	1.4802 91173	0.0006 59561	0.0235 43791
chr4:110354454- 110355215_mergedPeaks.26064_COL25A1_131035_ SEC24B_136	1.1016 3934	0.0006 61993	0.0236 08379
chr1:28099265- 28099939_mergedPeaks.349_FAM76A_47113_STX12 _91	1.1447 45705	0.0006 64447	0.0236 73657
chr2:157918282- 157918778_mergedPeaks.18856_GPD2_625631_GAL NT5_195809	3.4196 11159	0.0006 65895	0.0237 02978
chr2:28615376- 28615924_mergedPeaks.17169_AC093690.1_82324_ FOSL2_128	2.0008 74806	0.0006 6891	0.0237 65724
chr3:39425556- 39426075_mergedPeaks.22355_SLC25A38_1001_RP SA_23295	1.2949 41266	0.0006 77645	0.0240 53562
chr16:278929- 279567_mergedPeaks.12553_HBQ1_48916_LUC7L_2 01	2.6904 50581	0.0006 87554	0.0242 91662

chr22:19842159- 19842770_mergedPeaks.21372_GNB1L_2_COMT_867 98	1.4450 28336	0.0006 89557	0.0243 39744
chr17:21117267- 21118188_mergedPeaks.14126_DHRS7B_87487_TM EM11_181	1.0852 86161	0.0006 94528	0.0244 46992
chr19:50372611- 50373245_mergedPeaks.16639_PNKP_2106_AKT1S1 _7716	1.0515 29749	0.0006 9837	0.0245 53283
chr10:30722606- 30723605_mergedPeaks.4088_MAP3K8_156_LYZL2_ 195542	1.1300 14181	0.0007 00691	0.0245 95486
chr18:74086748- 74087100_mergedPeaks.15739_LOC339298_251972 _ZNF516_120222	6.4227 05561	0.0007 01828	0.0246 12623
chr1:27153004- 27153450_mergedPeaks.327_ZDHHC18_27_SFN_364 05	2.5982 14092	0.0007 04567	0.0246 71731
chr4:57843577- 57844468_mergedPeaks.25383_NOA1_196_POLR2B_ 1086	1.0221 77098	0.0007 0988	0.0247 01889
chr10:45470475- 45470774_mergedPeaks.4228_RASSF4_15406_C10or f10_3706	2.8910 76323	0.0007 10001	0.0247 01889
chr11:65405420- 65405748_mergedPeaks.6367_MIR4690_1804_SIPA1 _2007	3.3410 00912	0.0007 10739	0.0247 01889
chr10:80062761- 80063508_mergedPeaks.4681_LINC00595_36050_Z MIZ1-AS1_764071	1.1483 55306	0.0007 108	0.0247 01889
chr1:112938641- 112939065_mergedPeaks.1539_CTTNBP2NL_54_MIR 4256_65602	1.8562 74436	0.0007 11444	0.0247 01889
chr20:39762529- 39762990_mergedPeaks.20757_TOP1_105298_PLCG 1_3401	1.5516 34641	0.0007 12615	0.0247 01889
chr7:65235552- 65236273_mergedPeaks.33435_SNORA22_15400_VK ORC1L1_102344	1.2810 57726	0.0007 13041	0.0247 01889
chr12:14518249- 14519030_mergedPeaks.7582_ATF7IP_74_PLBD1_20 2152	1.3963 67055	0.0007 14141	0.0247 01889
chr17:69846567- 69847325_mergedPeaks.14701_CASC17_648626_AC 005152.3_175174	6.3380 21436	0.0007 14495	0.0247 01889

chr12:56320611- 56321198_mergedPeaks.8151_MMP19_84137_WIBG_793	1.1832 82147	0.0007 14829	0.0247 01889
chr1:234745825- 234746216_mergedPeaks.3326_IRF2BP2_749_LINC00184_19036	1.8998 66129	0.0007 15052	0.0247 01889
chr14:31495419- 31496080_mergedPeaks.10626_STRN3_142_HECTD1_180940	1.2575 91124	0.0007 15365	0.0247 01889
chr14:25602015- 25602276_mergedPeaks.10604_STXBP6_83050_NOV_A1_1464815	6.5619 21288	0.0007 1544	0.0247 01889
chr12:120907227- 120907839_mergedPeaks.9147_GATC_23293_SRSF9_25	1.9760 37723	0.0007 19488	0.0248 19068
chr7:44621546- 44622229_mergedPeaks.33287_TMED4_60_OGDH_2_4233	1.1248 8647	0.0007 21101	0.0248 52107
chr12:105629797- 105630226_mergedPeaks.8965_APPL2_2828_C12orf75_94402	2.3327 92982	0.0007 3196	0.0252 03459
chr15:45694299- 45694957_mergedPeaks.11807_SPATA5L1_110_C15orf48_28098	1.9056 52833	0.0007 34013	0.0252 51231
chr4:113218169- 113218629_mergedPeaks.26132_TIFA_11340_ALPK1_99	- 3.7917 15887	0.0007 35113	0.0252 66188
chr9:102669212- 102669537_mergedPeaks.37814_STX17_460_ERP44_191956	3.6043 6968	0.0007 36221	0.0252 8136
chr19:13262472- 13262949_mergedPeaks.16085_IER2_1429_CACNA1A_354564	1.2696 26956	0.0007 38464	0.0253 35469
chr1:111991645- 111992261_mergedPeaks.1529_WDR77_123_C1orf162_24650	1.3514 57899	0.0007 45086	0.0255 16513
chr2:70475331- 70476033_mergedPeaks.17770_C2orf42_57531_TIA1_97	1.3634 22934	0.0007 45946	0.0255 22938
chr17:73178695- 73179433_mergedPeaks.14762_HN1_28286_SUMO2_34	1.2272 34266	0.0007 47566	0.0255 51493
chr14:52118095- 52119014_mergedPeaks.10848_FRMD6-AS1_92_FRMD6_65446	1.1094 7733	0.0007 49297	0.0255 68403

chr20:50807880- 50808672_mergedPeaks.20893_RP5- 1112F19.2_328824_ZFP64_248	1.6851 07849	0.0007 50049	0.0255 71061
chr11:27340521- 27341030_mergedPeaks.5896_BBOX1_278267_CCDC 34_44020	6.4007 14674	0.0007 5698	0.0257 25809
chr4:2845275- 2845847_mergedPeaks.24729_SH3BP2_50812_ADD1 _315	1.3637 98701	0.0007 58994	0.0257 44569
chr6:73092330- 73093207_mergedPeaks.30995_RIMS1_16337_KCNQ 5_238802	2.8600 39031	0.0007 59209	0.0257 44569
chr16:10870161- 10870487_mergedPeaks.12725_NUBP1_32682_TVP2 3A_42297	6.3382 27363	0.0007 61315	0.0257 69949
chr1:192672921- 192673242_mergedPeaks.2544_RGS13_67814_RGS2_ 105087	6.3293 30805	0.0007 64023	0.0258 38564
chr10:103453945- 103454194_mergedPeaks.5027_MIR3158- 2_92815_FBXW4_674	3.9183 90125	0.0007 67456	0.0259 31526
chr1:167191142- 167191781_mergedPeaks.2085_POU2F1_1339_CD24 7_296386	2.0137 25241	0.0007 7028	0.0259 80676
chr15:91235311- 91235981_mergedPeaks.12371_CRTC3_162529_BLM _24911	6.4347 41142	0.0007 70985	0.0259 81374
chr17:62023843- 62024271_mergedPeaks.14594_CD79B_14353_SCN4 A_26221	2.8120 98436	0.0007 75131	0.0260 81194
chr1:91966259- 91966811_mergedPeaks.1218_HFM1_96109_CDC7_1 29	1.7688 80363	0.0007 75645	0.0260 81194
chr18:35109846- 35110355_mergedPeaks.15270_TPGS2_700921_CEL F4_35900	6.3530 73799	0.0007 76009	0.0260 81194
chr1:227102851- 227103257_mergedPeaks.3201_PSEN2_44782_ADCK 3_24883	6.4112 65329	0.0007 79434	0.0261 52072
chr9:111696191- 111696976_mergedPeaks.37922_ACTL7A_72076_IK BKAP_25	1.1522 93079	0.0007 79496	0.0261 52072
chr16:71598661- 71599640_mergedPeaks.13463_CHST4_38997_RP11- 432I5.1_541	1.0698 72436	0.0007 82306	0.0261 74155

chr8:10368933- 10369319_mergedPeaks.34906_MSRA_416061_PRSS 55_13929	6.4820 91169	0.0007 82564	0.0261 74155
chr3:2384866- 2385369_mergedPeaks.21719_CNTN4- AS2_199192_CNTN4_548781	2.4719 63334	0.0007 82914	0.0261 74155
chr6:39082307- 39083038_mergedPeaks.30587_GLP1R_66116_SAYS D1_193	1.1755 49354	0.0007 84929	0.0262 18432
chr6:64283316- 64283849_mergedPeaks.30901_PTP4A1_1666_PHF3 _72848	1.6341 50985	0.0007 906	0.0263 70463
chr11:32830835- 32831113_mergedPeaks.5967_CCDC73_14770_PRRG 4_20506	- 5.9593 17135	0.0007 91279	0.0263 70463
chr22:27068424- 27069196_mergedPeaks.21434_LOC102724827_5_R P1-90L6.2_230444	1.3041 2115	0.0007 91566	0.0263 70463
chr4:151936252- 151937199_mergedPeaks.26684_LRBA_76_RPS3A_8 3999	1.1088 48578	0.0007 9671	0.0264 95321
chr4:122121139- 122121732_mergedPeaks.26266_NDNF_127762_TNI P3_16347	3.3581 15887	0.0007 99881	0.0265 77496
chr10:79471076- 79471469_mergedPeaks.4674_KCNMA1_73695_DLG 5_215076	6.3998 52235	0.0008 04729	0.0266 72841
chr21:26882227- 26882694_mergedPeaks.21109_LINC00158_78447_ MIR155HG_51996	6.3384 04395	0.0008 05563	0.0266 72841
chr16:11457120- 11457481_mergedPeaks.12757_RMI2_17990_LOC10 1927131_101815	6.3384 13164	0.0008 07859	0.0266 95508
chr12:25204629- 25205678_mergedPeaks.7728_C12orf77_54780_LRM P_27	1.2095 60212	0.0008 08038	0.0266 95508
chr6:24494952- 24496019_mergedPeaks.30302_ALDH5A1_289_KIAA 0319_87970	1.8217 24507	0.0008 08358	0.0266 95508
chr3:128598072- 128598614_mergedPeaks.23550_ACAD9_11_KIAA12 57_114643	1.5428 19316	0.0008 10159	0.0267 31723
chr12:125051931- 125052478_mergedPeaks.9227_NCOR2_194_SCARB1 _296315	1.7844 47253	0.0008 14379	0.0268 24332



chr1:15438707- 15439051_mergedPeaks.182_KAZN_188255_TM MEM51-AS1_40081	6.6448 34385	0.0008 15622	0.0268 41946
chr16:76818416- 76818869_mergedPeaks.13577_RP11- 96P7.1_149748_MIR4719_84190	6.3198 91493	0.0008 18043	0.0268 98306
chr16:4321870-4322194_mergedPeaks.12657_RP11- 95P2.1_18242_TFAP4_969	3.5751 73807	0.0008 20663	0.0269 61078
chr1:1334577- 1335122_mergedPeaks.18_CCNL2_131_LOC148413_ 60	1.6300 68172	0.0008 27477	0.0271 37943
chr13:76534611- 76535245_mergedPeaks.9974_C13orf45_89755_KCT D12_925612	2.7606 93673	0.0008 29414	0.0271 78001
chr17:56084415- 56085301_mergedPeaks.14527_SRSF1_151_RP11- 159D12.10_75707	1.2455 69452	0.0008 30396	0.0271 86703
chr3:13009065- 13009659_mergedPeaks.21907_RPL32_126281_IQSE C1_105255	1.3775 55859	0.0008 31353	0.0271 94551
chr4:116193390- 116194092_mergedPeaks.26193_NDST4_158709_MI R1973_1027139	6.4290 06158	0.0008 32879	0.0272 21012
chr11:5521701- 5522125_mergedPeaks.5543_OR52D1_11999_OR51B 5_4969	- 2.3550 65607	0.0008 35409	0.0272 80194
chr16:66914067- 66914718_mergedPeaks.13334_PDP2_10_CDH16_38 495	1.2123 87522	0.0008 40986	0.0274 38702
chr2:158325387- 158326311_mergedPeaks.18878_CYTIP_25245_ACV R1C_128223	1.3187 76701	0.0008 462	0.0275 62696
chr15:102264162- 102264955_mergedPeaks.12546_TM2D3_71964_TA RSL2_87	1.3777 5852	0.0008 46761	0.0275 62696
chr3:84783978- 84784254_mergedPeaks.22926_GBE1_2973166_LIN C00971_134610	- 5.9488 76101	0.0008 46965	0.0275 62696
chr1:45285004- 45285831_mergedPeaks.578_BTBD19_11264_PTCH2 _23199	1.7944 19582	0.0008 52831	0.0277 0607
chr19:55574373- 55574807_mergedPeaks.16716_GP6_24958_RDH13_ 6324	1.6223 93901	0.0008 65472	0.0280 44685
chrX:154254853-	1.3235	0.0008	0.0280

154255744_mergedPeaks.39750_FUNDC2_235_MTC P1_44249	43963	66619	57893
chr8:60873003- 60873378_mergedPeaks.35483_TOX_841423_CA8_3 20764	3.4227 20757	0.0008 68386	0.0280 66137
chr3:162216425- 162216931_mergedPeaks.24067_OTOL1_1002083_LI NC01192_804411	6.5152 52771	0.0008 68819	0.0280 66137
chr15:82578737- 82579381_mergedPeaks.12256_FAM154B_23908_AD AMTS7P1_6561	6.3494 30519	0.0008 69092	0.0280 66137
chr2:191208842- 191209161_mergedPeaks.19373_INPP1_806_MFSD6 _64079	6.3334 70229	0.0008 72035	0.0281 20311
chr19:6199486- 6199969_mergedPeaks.15931_ACSBG2_64084_MLLT 1_80232	1.5067 08458	0.0008 72252	0.0281 20311
chr6:152128317- 152128517_mergedPeaks.32306_CCDC170_313243_ ESR1_396	- 6.3517 89728	0.0008 73575	0.0281 39063
chr17:33415837- 33416646_mergedPeaks.14224_RFFL_25482_RAD51 D_30647	1.1205 97144	0.0008 75944	0.0281 6755
chr10:16829490- 16829906_mergedPeaks.3875_C1QL3_265694_RSU1_ 29755	- 3.2527 22641	0.0008 78023	0.0282 10472
chr5:67729999- 67730713_mergedPeaks.28033_PIK3R1_218773_SLC 30A5_659419	1.3485 64029	0.0008 90305	0.0285 36064
chr3:119278375- 119278695_mergedPeaks.23415_CD80_54_ADPRH_1 9987	6.2404 09151	0.0008 90921	0.0285 36064
chr2:16195851- 16196611_mergedPeaks.17011_MYCNOS_114386_FA M49A_650903	6.5082 6819	0.0008 91164	0.0285 36064
chr2:161560435- 161561035_mergedPeaks.18931_RBMS1_210417_TA NK_456203	6.2473 01128	0.0008 95838	0.0286 54447
chr7:92861175- 92861914_mergedPeaks.33806_HEPACAM2_12636_ CCDC132_108	- 1.0687 59793	0.0008 96372	0.0286 54447
chr14:54907662- 54908390_mergedPeaks.10890_CDKN3_44354_CNIH 1_122	1.3932 0105	0.0008 98346	0.0286 93388
chr4:56383781-	6.4042	0.0008	0.0287

56384344_mergedPeaks.25358_TMEM165_121983_CLOCK_29014	68072	99875	04649
chr15:78423690-78424030_mergedPeaks.12198_SH2D7_38934_CIB2_17	2.9518 32952	0.0009 03233	0.0287 59017
chr17:7297674-7298234_mergedPeaks.13972_TNK1_13662_PLSCR3_208	2.0799 27108	0.0009 03783	0.0287 59017
chr10:62111824-62112288_mergedPeaks.4414_C10orf40_391385_AN K3_37578	6.2473 6787	0.0009 0419	0.0287 59017
chr17:42200866-42201449_mergedPeaks.14354_HDAC5_143_C17orf53_18116	1.3898 91599	0.0009 09021	0.0288 88443
chr5:140998307-140999012_mergedPeaks.29211_DIAPH1_37_HDAC3_17764	1.1202 73611	0.0009 13404	0.0289 62667
chr17:1359280-1359927_mergedPeaks.13873_CRK_42_MYO1C_29448	1.0875 66141	0.0009 13726	0.0289 62667
chr19:10216650-10217119_mergedPeaks.15995_ANGPTL6_3459_PPA N-P2RY11_14	1.4563 30859	0.0009 14051	0.0289 62667
chr5:63911670-63912161_mergedPeaks.27973_RGS7BP_40439_FAM159B_74219	6.2512 84501	0.0009 1441	0.0289 62667
chr1:156698153-156698781_mergedPeaks.1889_RRNAD1_205_MRPL24_12456	1.4731 79992	0.0009 20571	0.0290 76706
chr10:126077685-126078059_mergedPeaks.5369_CHST15_224749_OA T_29673	2.1415 06014	0.0009 20909	0.0290 76706
chr4:145968374-145968682_mergedPeaks.26571_HHIP-AS1_401357_ABCE1_50627	6.2437 78923	0.0009 21075	0.0290 76706
chr4:185235218-185235732_mergedPeaks.27216_ENPP6_96361_RP11-290F5.2_39655	- 1.2801 64704	0.0009 24477	0.0291 59826
chr10:3780097-3780531_mergedPeaks.3650_PITRM1_565281_KLF6_47159	6.5675 89123	0.0009 31208	0.0293 00276
chr11:18415777-18416259_mergedPeaks.5768_LDHA_83_LDHC_17834	2.0724 15744	0.0009 31246	0.0293 00276
chr12:1058592-	1.0351	0.0009	0.0293

1059417_mergedPeaks.7387_RAD52_141_ERC1_413 99	33668	3206	01577
chr19:17416269- 17416754_mergedPeaks.16157_MRPL34_35_DDA1_3 825	1.4160 38119	0.0009 34125	0.0293 42199
chr1:235931014- 235931553_mergedPeaks.3361_GNG4_117229_MIR1 537_85077	6.2476 15865	0.0009 36383	0.0293 7261
chr14:91863814- 91864196_mergedPeaks.11382_GPR68_153153_CCD C88C_20183	- 5.9694 98187	0.0009 37002	0.0293 7261
chr2:197141170- 197141532_mergedPeaks.19512_AC020571.3_16604 _HECW2_315984	6.6733 9309	0.0009 3827	0.0293 75116
chr1:72433319- 72433751_mergedPeaks.924_NEGR1- IT1_130840_NEGR1_314742	6.2517 10869	0.0009 43419	0.0295 11967
chr16:67548304- 67548753_mergedPeaks.13358_AGRP_30812_LOC10 0505942_14120	6.3388 76021	0.0009 45389	0.0295 49238
chr9:95820601- 95821121_mergedPeaks.37710_FGD3_94619_SUSD3 _108	1.1095 87277	0.0009 48194	0.0296 08097
chr1:24741912- 24742406_mergedPeaks.278_STPG1_1897_NIPAL3_8 5	1.3643 52277	0.0009 51287	0.0296 08097
chr12:95466924- 95467704_mergedPeaks.8775_NDUFA12_69825_NR 2C1_90	1.6930 68763	0.0009 5148	0.0296 08097
chr10:7829810- 7830575_mergedPeaks.3738_ATP5C1_100_TAF3_30 274	1.0249 22788	0.0009 51929	0.0296 08097
chr4:13388013- 13388435_mergedPeaks.24844_HS3ST1_1957687_R AB28_97765	6.2364 0252	0.0009 52308	0.0296 08097
chr2:29305679- 29306289_mergedPeaks.17176_C2orf71_8857_CLIP4 _31759	3.4220 32288	0.0009 5424	0.0296 08097
chr2:241075598- 241075958_mergedPeaks.20233_MYEOV2_14_OTOS_ 4295	6.2477 47836	0.0009 54294	0.0296 08097
chr1:161147026- 161147471_mergedPeaks.1995_PPOX_11068_B4GAL T3_510	2.5931 16344	0.0009 5648	0.0296 51673
chr19:3035533-	1.3885	0.0009	0.0298

3036026_mergedPeaks.15879_TLE6_58244_TLE2_11854	32284	63468	19561
chr7:48285622-48286087_mergedPeaks.33336_ABCA13_74798_CDC14C_678302	6.256383419	0.000965158	0.029847522
chrX:53713196-53713755_mergedPeaks.38935_MIRLET7F2_129240_HUWE1_199	1.533139745	0.000966062	0.029851157
chr11:65625216-65625985_mergedPeaks.6376_SNX32_24191_CFL1_204	1.024660994	0.000968223	0.029893604
chr8:97273582-97274358_mergedPeaks.36075_MTERFD1_129_PTDSS1_143	1.137236867	0.00097103	0.029907257
chr3:185050155-185050533_mergedPeaks.24450_MAP3K13_49616_TMEM41A_166501	-3.800128962	0.000973131	0.029947651
chr10:25305142-25306045_mergedPeaks.4023_THNSL1_86_GPR158_158696	1.094513631	0.00097398	0.029949481
chr6:25962517-25963170_mergedPeaks.30329_SLC17A2_31889_TRIM38_73	1.624426479	0.000975501	0.029971987
chr19:46220360-46221087_mergedPeaks.16550_QPCTL_24983_FBXO46_13428	1.071346315	0.000976619	0.029973397
chr9:140445897-140446604_mergedPeaks.38345_PNPLA7_1264_MRPL41_58	1.164227198	0.000977817	0.029973397
chr12:10765948-10766513_mergedPeaks.7506_MAGOHB_22_STYK1_60661	2.027572756	0.000978226	0.029973397
chr3:22605604-22605978_mergedPeaks.22089_ZNF385D_812975_UBE2E2_638992	6.239864706	0.000979497	0.029973397
chr15:96817004-96817404_mergedPeaks.12458_LINC00924_840883_NR2F2_51952	6.416287582	0.000981307	0.030004584
chr17:38478736-38479505_mergedPeaks.14294_RARA_4648_RARA-AS1_20268	1.401278177	0.000982726	0.030023789
chr20:15876357-15876750_mergedPeaks.20512_MACROD2_699050_KIF16B_677526	6.252330921	0.000988467	0.030151914
chr12:76953171-	1.2890	0.0009	0.0301

76953952_mergedPeaks.8454_BBS10_211339_OSBP L8_28	62842	88509	51914
chr14:39519610- 39520008_mergedPeaks.10705_LINC00639_133723_ SEC23A_52628	- 5.9815 50725	0.0010 04548	0.0306 16523
chr2:137012269- 137012650_mergedPeaks.18537_CXCR4_138646_TH SD7B_736002	6.2319 3219	0.0010 08113	0.0307 00527
chr11:58984078- 58984742_mergedPeaks.6219_MPEG1_3916_OR5AN 1_147521	1.9542 96204	0.0010 11564	0.0307 80921
chr1:27816465- 27817154_mergedPeaks.340_WASF2_131_AHDC1_11 3334	1.1864 44606	0.0010 1248	0.0307 84085
chr1:112135373- 112135968_mergedPeaks.1532_ADORA3_88927_LIN C01160_15270	1.6036 20067	0.0010 14274	0.0308 13962
chr7:149321397- 149322151_mergedPeaks.34705_ZNF746_126876_Z NF767P_107	1.4334 41161	0.0010 19113	0.0308 77368
chr20:42310570- 42311036_mergedPeaks.20778_MYBL2_15145_GTSF 1L_44839	3.6954 3469	0.0010 21469	0.0308 77368
chr20:35491795- 35492597_mergedPeaks.20705_SOGA1_3920_TLDC2 _12373	1.4481 05406	0.0010 22612	0.0308 77368
chr19:19701929- 19702272_mergedPeaks.16220_CILP2_53027_PBX4_ 27625	6.6054 97906	0.0010 2344	0.0308 77368
chr4:38665293- 38665896_mergedPeaks.25139_RP11- 83C7.2_140793_KLF3_195	1.0566 725	0.0010 23513	0.0308 77368
chr20:37075151- 37075504_mergedPeaks.20723_SNHG11_31_SNORA3 9_1398	3.8116 04668	0.0010 23685	0.0308 77368
chr2:62732921- 62733579_mergedPeaks.17631_MIR5192_300290_T MEM17_354	2.8605 69074	0.0010 29948	0.0309 67813
chr13:79980173- 79980892_mergedPeaks.10040_RBM26- AS1_89_NDFIP2_74726	1.8662 56439	0.0010 33505	0.0310 50162
chr1:219262170- 219262676_mergedPeaks.3008_RP11- 224019.2_743403_RP11-135J2.4_84707	2.3786 96804	0.0010 35484	0.0310 64488
chr13:70617815-	3.4115	0.0010	0.0311

70618216_mergedPeaks.9895_LINC00550_1158558_ATXN8OS_63329	51007	38522	08564
chr10:22937560-22937918_mergedPeaks.3974_LOC100499489_210881_PIP4K2A_65764	6.2353 93664	0.0010 39548	0.0311 08564
chr3:18782113-18783131_mergedPeaks.22039_SATB1_315793_KCNH8_407394	1.5568 5804	0.0010 41807	0.0311 27056
chr9:27485272-27485570_mergedPeaks.37233_EQTN_188284_IFNK_38890	- 5.9577 77016	0.0010 50108	0.0313 50391
chr2:223288928-223289164_mergedPeaks.19945_PAX3_125331_SGP2_275	6.4299 08761	0.0010 52773	0.0313 89642
chr3:169966213-169966589_mergedPeaks.24174_PRKCI_26182_SKIL_111009	6.2438 52925	0.0010 53383	0.0313 89642
chr6:119856440-119856904_mergedPeaks.31712_LOC285762_44205_TBC1D32_1798974	6.3391 76083	0.0010 55203	0.0313 89642
chr2:99952507-99953240_mergedPeaks.18079_TXNDC9_13 EIF5B_960	1.0610 69259	0.0010 55536	0.0313 89642
chr19:39342550-39342774_mergedPeaks.16395_ECH1_20165_HNRNPL_317	1.5380 84381	0.0010 58101	0.0314 19577
chr2:122406743-122407895_mergedPeaks.18327_CLASP1_267_NIFK-AS1_245	1.0876 34478	0.0010 58909	0.0314 19577
chr19:42759165-42759574_mergedPeaks.16469_ERF_60_CIC_29447	2.1889 71939	0.0010 59083	0.0314 19577
chr22:38071381-38072043_mergedPeaks.21530_LGALS1_100_NOL12_10631	1.6153 08088	0.0010 59878	0.0314 19577
chr9:102847043-102847383_mergedPeaks.37820_STX17_178299_ERP44_14117	6.2351 56234	0.0010 61878	0.0314 24186
chr18:51736047-51736725_mergedPeaks.15438_LOC101928167_628957_SNORA37_12396	1.7221 1623	0.0010 62518	0.0314 24186
chr8:31878739-31879170_mergedPeaks.35164_PURG_987723_NRG1-IT1_4297	3.5125 35245	0.0010 69025	0.0315 92016
chr2:232645834-232646569_mergedPeaks.20147_PDE6D_164_COPS7	- 1.0873	0.0010 7031	0.0316 05376

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chr11:68227612- 68228344_mergedPeaks.6435_LRP5_147871_PPP6R 3_207	1.0621 82881	0.0010 72585	0.0316 24593
chr1:23866391- 23866615_mergedPeaks.260_E2F2_8791_ID3_19782	6.5237 66784	0.0010 72628	0.0316 24593
chr16:75520605- 75520966_mergedPeaks.13557_TMEN170A_22201_ CHST6_8141	6.2485 51948	0.0010 7675	0.0317 21475
chr6:99865063- 99865690_mergedPeaks.31381_COQ3_23294_PNISR_ 7831	6.2534 97437	0.0010 83677	0.0318 99333
chr19:51944798- 51945472_mergedPeaks.16666_SIGLEC10_24078_SI GLEC8_16573	2.5245 44188	0.0010 84967	0.0318 99333
chr9:80456885- 80457417_mergedPeaks.37560_GNA14_193919_GNA Q_189214	6.4582 49452	0.0010 85309	0.0318 99333
chr19:47291519- 47292140_mergedPeaks.16567_STRN4_42109_SLC1 A5_13	1.4984 25289	0.0010 8723	0.0319 31084
chr4:137171835- 137172139_mergedPeaks.26430_LINC00613_36273 9_PCDH18_1281642	6.3520 85949	0.0010 94274	0.0321 131
chr1:168996830- 168997526_mergedPeaks.2128_LINC00626_241000_ LINC00970_59065	- 1.4220 19401	0.0011 04925	0.0323 4487
chr5:115700636- 115701288_mergedPeaks.28768_COMMD10_280236 _LOC101927190_9305	2.2030 89455	0.0011 05889	0.0323 4487
chr11:62389146- 62389929_mergedPeaks.6279_EML3_9300_B3GAT3_ 110	1.0362 08232	0.0011 05924	0.0323 4487
chr20:52367744- 52368254_mergedPeaks.20906_ZNF217_168363_SU MO1P1_124249	3.4086 50983	0.0011 0622	0.0323 4487
chr5:68665139- 68665898_mergedPeaks.28051_RAD17_395_AK6_32 2	1.1896 49492	0.0011 06434	0.0323 4487
chr16:84150077- 84151002_mergedPeaks.13696_SLC38A8_74777_MB TPS1_9	1.0124 40797	0.0011 1199	0.0324 53649
chr10:54044365- 54044757_mergedPeaks.4312_CSTF2T_585206_PRK G1-AS1_29327	6.2538 16702	0.0011 1243	0.0324 53649



chr2:107748597- 107748964_mergedPeaks.18174_ST6GAL2_246170_ RGP4-AS1_693803	6.4648 19867	0.0011 12721	0.0324 53649
chr16:87902720- 87903315_mergedPeaks.13786_MIR6775_34751_SL C7A5_83	1.1739 13564	0.0011 23994	0.0327 12705
chr20:13102685- 13103112_mergedPeaks.20463_SPTLC3_113272_ISM 1_99519	6.4301 42759	0.0011 24189	0.0327 12705
chr2:85105622- 85105861_mergedPeaks.17944_DNAH6_362163_TR ABD2A_2628	6.2345 05744	0.0011 26994	0.0327 44082
chr17:49197955- 49198593_mergedPeaks.14464_SPAG9_73945_NME1 -NME2_32622	1.0412 36316	0.0011 30994	0.0328 35156
chr15:78441413- 78442043_mergedPeaks.12199_IDH3A_10_ACSBG1_ 85321	1.1525 03433	0.0011 32691	0.0328 593
chr6:73941658- 73942094_mergedPeaks.31022_KHDC1L_6701_KHD C1_78062	6.4645 56718	0.0011 35292	0.0329 09603
chr19:40909383- 40909783_mergedPeaks.16425_HIPK4_13489_PRX_9 688	1.8417 59076	0.0011 40725	0.0330 16633
chr1:67578087- 67578697_mergedPeaks.858_SLC35D1_58312_C1orf 141_22262	1.8218 86184	0.0011 44159	0.0330 90781
chr6:48167213- 48167414_mergedPeaks.30720_PTCHD4_130888_M UT_1263728	- 7.1009 92879	0.0011 59185	0.0334 48882
chr1:26496078- 26496583_mergedPeaks.313_FAM110D_10820_ZNF5 93_57	2.4791 60876	0.0011 62236	0.0335 11433
chr4:128172611- 128172934_mergedPeaks.26350_MIR2054_1744359 _INTU_381314	- 5.7072 5448	0.0011 64652	0.0335 55604
chr11:89955823- 89956728_mergedPeaks.6714_NAALAD2_88458_CH ORDC1_257	1.0612 92444	0.0011 68947	0.0336 53802
chrX:11776155- 11776806_mergedPeaks.38449_MSL3_203_FRMPD4_ 380104	1.2024 96925	0.0011 7327	0.0337 33954
chr6:31620049- 31620776_mergedPeaks.30466_APOM_226_BAG6_65	1.1230 34066	0.0011 7351	0.0337 33954
chr5:176873544-	6.6306	0.0011	0.0338

176873808_mergedPeaks.29815_GRK6_19990_PRR7_119	74127	77838	07145
chr11:88090383-88090968_mergedPeaks.6698_CTSC_19734_GRM5-AS1_147068	1.8544 75977	0.0011 83062	0.0338 50183
chr5:125797886-125798391_mergedPeaks.28934_GRAMD3_39270_ALDH7A1_132944	6.3028 02878	0.0011 83067	0.0338 50183
chr17:28927415-28927952_mergedPeaks.14195_LRRC37BP1_24201_SH3GL1P2_23652	2.5684 01246	0.0011 8435	0.0338 50183
chr9:100173942-100174552_mergedPeaks.37764_LOC286359_15274_TDRD7_54	1.1478 3419	0.0011 85443	0.0338 50183
chr2:232378868-232379494_mergedPeaks.20136_LINC00471_131_NMUR1_16001	1.0466 86749	0.0011 85582	0.0338 50183
chr5:131999720-132000176_mergedPeaks.29053_IL13_6084_IL4_9729	2.1717 977	0.0011 90754	0.0339 72299
chr4:133423277-133423718_mergedPeaks.26409_RP11-519M16.1_2730864_PCDH10_646972	6.2491 99852	0.0011 95356	0.0340 6926
chr20:36010165-36010375_mergedPeaks.20717_SRC_35740_NNAT_139336	6.6362 20481	0.0011 95948	0.0340 6926
chr5:127156635-127157093_mergedPeaks.28972_CTXN3_172152_LINCO1184_261902	6.1468 94482	0.0012 02744	0.0341 99575
chr3:107317762-107318314_mergedPeaks.23206_BBX_76256_LINCO0635_278877	2.4762 77011	0.0012 02945	0.0341 99575
chr19:35464049-35464309_mergedPeaks.16305_ZNF792_9226_GRAMD1A_27066	6.4230 09975	0.0012 03227	0.0341 99575
chr11:67188451-67188949_mergedPeaks.6417_CARNS1_5552_RPS6KB2_7234	1.4560 8623	0.0012 04203	0.0342 01716
chr22:24666476-24667157_mergedPeaks.21421_SPECC1L_32_ADORA2A_161270	1.0421 80619	0.0012 06711	0.0342 47307
chr19:4670276-4670653_mergedPeaks.15912_C19orf10_49_AC005594.3_8829	1.7341 41831	0.0012 1093	0.0343 41352
chr7:82188543-	6.1439	0.0012	0.0343

82189214_mergedPeaks.33623_CACNA2D1_115847_P CLO_603319	59603	12901	58879
chr17:27053873- 27054489_mergedPeaks.14168_TLCD1_951_NEK8_1 650	1.0735 63894	0.0012 13359	0.0343 58879
chr19:13263673- 13264058_mergedPeaks.16086_IER2_2584_CACNA1 A_353409	1.2141 09843	0.0012 15521	0.0343 94441
chr22:45559447- 45560112_mergedPeaks.21641_NUP50_54_MIR1249 _37121	1.6926 59879	0.0012 24045	0.0346 09836
chr20:52539484- 52539850_mergedPeaks.20917_SUMO1P1_47419_MI R4756_145357	6.5896 28254	0.0012 28558	0.0346 90101
chr16:9934853- 9935569_mergedPeaks.12706_MIR7641- 2_276963_GRIN2A_341400	2.1919 28451	0.0012 28712	0.0346 90101
chr2:157292305- 157293106_mergedPeaks.18842_NR4A2_103418_GP D2_194	1.7289 99424	0.0012 35115	0.0348 44935
chr5:159885897- 159886592_mergedPeaks.29595_PTTG1_37328_MIR 3142_15164	2.1418 64002	0.0012 37094	0.0348 74838
chr3:1422897- 1423225_mergedPeaks.21711_CNTN6_288720_CNT N4-AS2_762864	6.2609 34449	0.0012 39866	0.0348 7585
chr17:80709231- 80710019_mergedPeaks.14898_FN3K_16174_TBCD_ 314	1.3778 24244	0.0012 39887	0.0348 7585
chr3:98331422- 98332378_mergedPeaks.23039_CPOX_19445_ST3GA L6_119179	1.2092 93887	0.0012 42184	0.0349 14576
chr11:8008470- 8009075_mergedPeaks.5606_NLRP10_23713_EIF3F_ 94	- 1.0526 70088	0.0012 44275	0.0349 36562
chr9:100130006- 100130349_mergedPeaks.37760_CCDC180_60268_L OC286359_28796	- 3.8016 26327	0.0012 45846	0.0349 36562
chr9:104295650- 104296359_mergedPeaks.37840_TMEM246_46529_ RNF20_126	1.1923 35218	0.0012 46499	0.0349 36562
chr12:110718645- 110719542_mergedPeaks.9024_ATP2A2_62_ANAPC7 _122442	1.1950 2509	0.0012 46649	0.0349 36562
chr19:50144987-	1.0126	0.0012	0.0349

50145599_mergedPeaks.16631_RRAS_1893_SCAF1_88	04623	50188	84058
chr16:3174046-3174818_mergedPeaks.12636_ZNF205-AS1_8833_RP11-473M20.14_10451	1.2932 36567	0.0012 55944	0.0351 19242
chr6:26103873-26104601_mergedPeaks.30341_HIST1H4C_62_HIST1H1T_4127	1.0239 53305	0.0012 59762	0.0352 00046
chr1:207925089-207925849_mergedPeaks.2808_CD46_87_MIR29C_49815	1.1441 04781	0.0012 63702	0.0352 6348
chrX:41782588-41783137_mergedPeaks.38806_CASK_575_PPP1R2P9_854624	1.3596 66148	0.0012 63891	0.0352 6348
chr4:170359091-170359651_mergedPeaks.27011_SH3RF1_167122_NEK1_174407	- 2.4820 53974	0.0012 74877	0.0354 77963
chr21:45358514-45359247_mergedPeaks.21309_AGPAT3_73765_TRAPPC10_73325	1.3674 31788	0.0012 75318	0.0354 77963
chr2:201981313-201981735_mergedPeaks.19605_NDUFB3_45063_CFLAR_23473	1.7640 89673	0.0012 84203	0.0356 98952
chr17:79008495-79009374_mergedPeaks.14855_BAIAP2-AS1_415_BAIAP2_12	1.1754 2568	0.0012 891	0.0357 58128
chr11:67232050-67232458_mergedPeaks.6419_CABP4_9437_TMEM134_4494	1.4827 29813	0.0012 90437	0.0357 58128
chr1:191527451-191527865_mergedPeaks.2515_RP11-463J7.2_933639_RGS18_599933	6.2616 10564	0.0012 92006	0.0357 58128
chr17:17726844-17727398_mergedPeaks.14083_MIR33B_9876_SREBF1_13204	1.7998 85403	0.0012 928	0.0357 58128
chr1:38157724-38158314_mergedPeaks.471_C1orf109_1827_CDCA8_53	1.0841 488	0.0012 92851	0.0357 58128
chr20:16553822-16554429_mergedPeaks.20524_KIF16B_46_SNRPB2_156483	1.3308 71405	0.0012 93518	0.0357 58128
chr16:58136874-58137319_mergedPeaks.13263_MMP15_77815_C16orf80_26200	6.1472 10608	0.0012 9387	0.0357 58128
chr4:36082827-	6.1508	0.0012	0.0357

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chr11:60222807-60223481_mergedPeaks.6242_MS4A5_26083_MS4A1_137	1.2309 49931	0.0012 98073	0.0358 22094
chr16:15736369-15737346_mergedPeaks.12804_MIR6506_31905_KIA A0430_166	1.1213 35704	0.0012 99378	0.0358 32049
chr8:6547598-6548413_mergedPeaks.34848_MIR8055_68264_AGP AT5_17872	1.2180 47813	0.0013 01232	0.0358 57102
chr22:28315127-28315662_mergedPeaks.21438_TTC28-AS1_31_MIR3199-2_1119	1.0454 18513	0.0013 10396	0.0360 33186
chr4:151973504-151973966_mergedPeaks.26687_LRBA_37086_RPS3 A_46989	6.1402 85496	0.0013 1047	0.0360 33186
chr7:24875769-24876064_mergedPeaks.32999_DFNA5_78833_OSBP L3_143915	6.4081 40249	0.0013 17562	0.0362 01945
chr7:86945582-86946049_mergedPeaks.33678_TMEM243_96784_T P53TG1_28993	6.1472 92382	0.0013 19353	0.0362 24918
chr18:29077831-29078560_mergedPeaks.15170_DSG2_169_RP11-75N4.2_58679	1.8355 76937	0.0013 26443	0.0363 66968
chr12:69202429-69202936_mergedPeaks.8352_MDM2_731_CPM_124 297	1.1747 33877	0.0013 32302	0.0364 92572
chr17:29058441-29058896_mergedPeaks.14196_SUZ12P1_22043_CR LF3_93110	2.9042 07636	0.0013 34842	0.0365 1807
chr19:2168817-2169245_mergedPeaks.15857_DOT1L_4884_MIR122 7_65117	1.3470 70446	0.0013 37816	0.0365 73073
chr8:102805647-102806330_mergedPeaks.36159_GRHL2_301321_NC ALD_330574	3.3751 39738	0.0013 39048	0.0365 80403
chr12:76132240-76132686_mergedPeaks.8431_KRR1_227045_PHLDA 1_293093	6.1473 60521	0.0013 41237	0.0366 13851
chr10:18698965-18699346_mergedPeaks.3908_CACNB2_269550_NSU N6_241395	6.1512 99341	0.0013 42624	0.0366 2536
chr6:102434289-	3.3557	0.0013	0.0366

102434792_mergedPeaks.31417_GRIK2_587680_HACE1_2873254	8979	4632	99794
chr9:103211564-103212048_mergedPeaks.37827_MSANTD3-TMEFF1_7619_TMEFF1_23713	6.262304362	0.001349433	0.03671642
chr5:55376298-55377186_mergedPeaks.27852_FLJ31104_85748_ANKRD55_152444	1.575562993	0.001354022	0.036773351
chr2:178013470-178013945_mergedPeaks.19143_AC017048.4_511226_HNRNPA3_63714	6.325929562	0.001354194	0.036773351
chr2:48460154-48460567_mergedPeaks.17456_FBXO11_327428_FOXN2_81434	6.407994597	0.001354833	0.036773351
chr18:77960175-77960797_mergedPeaks.15791_PARD6G-AS1_54680_PARD6G_44911	2.769027845	0.001356902	0.036803179
chr17:40118562-40119019_mergedPeaks.14314_CNP_32_DNAJC7_50393	2.198409577	0.001360355	0.036870278
chr2:162016596-162017205_mergedPeaks.18942_RBMS1_666582_TANK_38	1.204288529	0.001365318	0.036925872
chr5:159935831-159936181_mergedPeaks.29599_MIR146A_23648_ATP10B_343213	6.151514483	0.001367617	0.036935386
chr11:67888714-67889266_mergedPeaks.6432_CHKA_132_SUV420H1_91794	1.240060454	0.001373081	0.03704242
chr17:48784686-48784917_mergedPeaks.14456_ABCC3_72584_ANKRD40_469	6.332764187	0.001378382	0.037146813
chr7:26331283-26331849_mergedPeaks.33031_CBX3_90243_SNX10_72378	2.302869664	0.001382237	0.037224257
chr21:30257250-30257861_mergedPeaks.21129_LINC00161_345916_N6AMT1_140	1.186500955	0.001386219	0.03730503
chr15:44068439-44068822_mergedPeaks.11784_PDIA3_30041_ELL3_872	1.920964885	0.001398029	0.037569552
chr9:34522929-34523329_mergedPeaks.37308_ENHO_92_CNTFR-AS1_44880	3.052826963	0.001408481	0.037810093
chr2:178770808-	-	0.0014	0.0378

178771196_mergedPeaks.19160_TTC30A_287308_P DE11A_16562	3.7782 38082	09659	10093
chr20:35089484- 35090264_mergedPeaks.20699_DLGAP4_33_MYL9_8 0012	1.2537 26199	0.0014 12154	0.0378 4194
chr17:79790790- 79791423_mergedPeaks.14868_GCGR_29097_FAM19 5B_64	1.1198 02821	0.0014 15817	0.0379 13324
chr1:93645763- 93646443_mergedPeaks.1261_MTF2_101312_TMED 5_143	1.0996 34253	0.0014 24849	0.0381 24474
chr5:133983985- 133984743_mergedPeaks.29092_SAR1B_15831_SEC 24A_110	1.9672 72305	0.0014 25712	0.0381 24474
chr9:23757358- 23757558_mergedPeaks.37193_LINC01239_111126 0_ELAVL2_68605	- 5.7063 97895	0.0014 2911	0.0381 71926
chr7:22893537- 22894165_mergedPeaks.32953_TOMM7_31380_SNO RD93_2380	1.1682 91599	0.0014 34761	0.0382 85511
chr16:31191001- 31192199_mergedPeaks.13016_FUS_170_C16orf98_2 1605	1.0964 41815	0.0014 35928	0.0382 89733
chr1:198222431- 198223253_mergedPeaks.2604_NEK7_96735_ATP6V 1G3_287233	2.0608 62612	0.0014 41677	0.0383 90387
chr8:61615563- 61616191_mergedPeaks.35502_CHD7_24554_LOC10 0130298_264430	- 1.6813 39058	0.0014 43536	0.0384 11618
chr16:86597415- 86597727_mergedPeaks.13762_FLJ30679_8646_FOX C2_3285	6.7408 82247	0.0014 47611	0.0384 93064
chr19:33726355- 33726881_mergedPeaks.16285_SLC7A10_9862_CEB PA_66852	2.8983 89111	0.0014 52266	0.0385 89801
chr5:140893506- 140893909_mergedPeaks.29204_PCDHGC5_24900_L OC100505658_44170	2.0727 09931	0.0014 54152	0.0386 12864
chr3:105891573- 105892103_mergedPeaks.23184_CBLB_303951_LINC 00882_1067647	2.0540 87341	0.0014 66837	0.0389 22456
chr3:145535699- 145536049_mergedPeaks.23768_C3orf58_1843708_ PLOC2_343408	6.3778 28823	0.0014 71022	0.0389 64206
chr6:35699113-	1.0774	0.0014	0.0389

35699978_mergedPeaks.30552_FKBP5_42826_RP3-51008.4_5179	86378	72257	64206
chr14:59823508-59823752_mergedPeaks.10969_DAAM1_168250_GPR135_108429	6.4075 70644	0.0014 72517	0.0389 64206
chr16:90038710-90039421_mergedPeaks.13860_AFG3L1P_78_CENPB D1_175	1.6067 2533	0.0014 74384	0.0389 82948
chr20:10539260-10539783_mergedPeaks.20436_SLX4IP_123571_MIR6870_90822	6.2145 84323	0.0014 88466	0.0392 86754
chr8:22573093-22573733_mergedPeaks.35020_EGR3_22598_PEBP4_212008	1.5476 73246	0.0014 88848	0.0392 86754
chr4:105789977-105790551_mergedPeaks.26014_CXXC4_374206_TE T2_276767	2.1716 55941	0.0014 90722	0.0393 08847
chr20:55966153-55966685_mergedPeaks.20942_MTRNR2L3_31541_RBM38_34	1.1645 49449	0.0015 03357	0.0395 95635
chr19:1354604-1355128_mergedPeaks.15828_EFNA2_68714_MUM1_109	1.0256 30876	0.0015 03685	0.0395 95635
chr22:29563171-29563797_mergedPeaks.21448_KREMEN1_94419_E MID1_38416	1.3935 21474	0.0015 08696	0.0396 99614
chr2:97151603-97152222_mergedPeaks.18042_NCAPH_150434_NE URL3_21934	2.4980 64167	0.0015 11818	0.0396 99614
chr5:160973620-160974160_mergedPeaks.29617_RP11-109J4.1_608257_GABRB2_1240	3.2979 036	0.0015 17558	0.0398 22776
chr14:64761594-64761968_mergedPeaks.11049_ESR2_653_TEX21P_52548	6.2255 45739	0.0015 20331	0.0398 67982
chr16:85604205-85604830_mergedPeaks.13738_MIR5093_264586_G SE1_42324	2.7363 04902	0.0015 22596	0.0398 99805
chr11:87850340-87850986_mergedPeaks.6680_TMEN135_1101778_RAB38_57972	2.6561 04792	0.0015 27011	0.0399 69611
chr16:89313724-89314298_mergedPeaks.13828_ZNF778_29901_AC137932.6_73529	1.8815 29612	0.0015 27367	0.0399 69611
chr15:59981285-	1.1633	0.0015	0.0399



59981914_mergedPeaks.11957_GTF2A2_31862_BNI P2_43	6918	29462	96855
chr2:201390550- 201391126_mergedPeaks.19596_KCTD18_16046_SG OL2_26	1.5112 85998	0.0015 37795	0.0401 87075
chr11:14566147- 14566468_mergedPeaks.5714_PSMA1_24316_PDE3B _98961	6.1479 06628	0.0015 41099	0.0402 45689
chr15:52374977- 52375417_mergedPeaks.11870_MAPK6_63787_BCL2 L10_29775	6.2643 16452	0.0015 42447	0.0402 53212
chr6:71418234- 71418520_mergedPeaks.30977_SMAP1_40904_B3GA T2_248411	- 3.7980 79556	0.0015 43987	0.0402 65704
chr20:25176051- 25176744_mergedPeaks.20615_ENTPD6_59_LOC101 926889_1131	1.4272 36039	0.0015 46416	0.0402 75968
chr13:65502969- 65503446_mergedPeaks.9848_LINC00395_1191056_ PCDH9-AS2_1896093	6.1479 19748	0.0015 46504	0.0402 75968
chr20:43594820- 43595352_mergedPeaks.20796_TOMM34_5972_STK 4-AS1_13	1.4196 41342	0.0015 48256	0.0402 93954
chr13:86564549- 86564941_mergedPeaks.10116_SLITRK6_191262_MI R4500_1706250	6.1479 35584	0.0015 5307	0.0403 9153
chr15:65321757- 65322112_mergedPeaks.12028_SPG21_39650_MTFM T_43	2.6347 94195	0.0015 57107	0.0403 96126
chr5:58012455- 58012947_mergedPeaks.27888_RAB3C_133763_PDE 4D_283058	6.2506 64449	0.0015 5735	0.0403 96126
chr22:26824752- 26825421_mergedPeaks.21430_SEZ6L_259647_ASP HD2_193	1.3049 61963	0.0015 57505	0.0403 96126
chr2:73964335- 73964861_mergedPeaks.17809_TPRKB_81_DUSP11_ 42686	2.2666 96543	0.0015 64671	0.0405 49206
chr6:152593078- 152593662_mergedPeaks.32313_ESR1_464557_SYN E1_365164	6.3634 81984	0.0015 65545	0.0405 49206
chr8:96240504- 96240902_mergedPeaks.36058_C8orf69_12101_LOC 100616530_40360	6.2191 5737	0.0015 67781	0.0405 52513
chr11:102217396-	1.3010	0.0015	0.0405

102218225_mergedPeaks.6855_BIRC3_29630_BIRC2_102	68607	6781	52513
chr17:48278139-48278364_mergedPeaks.14446_HILS1_28414_COL1A1_749	6.6163 25236	0.0015 74067	0.0406 68599
chr1:151253707-151254073_mergedPeaks.1766_PSMD4_26694_ZNF687_900	1.3121 04763	0.0015 7525	0.0406 68599
chr10:103892400-103893033_mergedPeaks.5038_LDB1_12506_PPRC1_34	1.2061 9184	0.0015 75513	0.0406 68599
chr1:71375741-71376089_mergedPeaks.918_CTH_499015_ZRANB2-AS1_136273	6.1383 98616	0.0015 78184	0.0407 09859
chr2:69016750-69017063_mergedPeaks.17736_ARHGAP25_54994_BMP10_81743	6.1531 32676	0.0015 84331	0.0408 11599
chr19:40790887-40791792_mergedPeaks.16423_AKT2_37_PLD3_62992	1.0381 83097	0.0015 85558	0.0408 11599
chr10:34813283-34813731_mergedPeaks.4145_LINC00838_751899_PARD3_290746	6.1531 71406	0.0015 90227	0.0408 25629
chr22:43045138-43045682_mergedPeaks.21621_CYB5R3_2415_A4GALT_71466	2.2288 37097	0.0015 91385	0.0408 25629
chr3:52312230-52312972_mergedPeaks.22542_MIRLET7G_10224_WDR82_58	1.2918 12451	0.0015 92356	0.0408 25629
chr21:38338706-38339274_mergedPeaks.21245_SIM2_267000_HLCS_23555	1.4557 58259	0.0015 94468	0.0408 52025
chr6:31465651-31465901_mergedPeaks.30461_MICB_3119_MCCD1_30962	3.5460 18109	0.0015 95538	0.0408 52025
chr3:168292422-168292971_mergedPeaks.24144_MIR551B_23055_RP11-368I23.2_327036	6.1586 34647	0.0016 00029	0.0409 39382
chr18:21166264-21167119_mergedPeaks.15080_NPC1_110_ANKRD29_76158	1.0156 66351	0.0016 05307	0.0410 46749
chr9:1938723-1939120_mergedPeaks.36914_DMRT2_888302_SMARCA2_219530	3.6091 89617	0.0016 22196	0.0413 36758
chr7:134921475-	6.1645	0.0016	0.0413

134921954_mergedPeaks.34483_STRA8_4984_CN 4_273161	97698	23514	36758
chr12:32112064- 32112852_mergedPeaks.7860_KIAA1551_106_RNU6 -78P_34344	1.5572 31122	0.0016 23748	0.0413 36758
chr7:155514750- 155515118_mergedPeaks.34781_RBM33_77732_SH H_90033	6.2508 76513	0.0016 24275	0.0413 36758
chr3:171856577- 171856964_mergedPeaks.24215_FNDC3B_98427_GH SR_309476	3.2974 26443	0.0016 29398	0.0414 11588
chr14:106873406- 106873994_mergedPeaks.11584_LINC00226_12943 2_LINC00221_64744	1.2677 0195	0.0016 30618	0.0414 14871
chr19:17716945- 17717235_mergedPeaks.16169_COLGALT1_50580_U NC13A_81918	6.7178 47967	0.0016 32255	0.0414 28716
chr14:55595809- 55596107_mergedPeaks.10907_LGALS3_24_DLGAP5 _62438	6.6104 50399	0.0016 38949	0.0415 15311
chr8:39338125- 39338516_mergedPeaks.35248_ADAM5_166139_AD AM3A_42188	6.3759 96791	0.0016 47016	0.0416 3627
chr9:82245534- 82246331_mergedPeaks.37591_TLE4_59245_TLE1_2 057664	1.9425 21632	0.0016 55942	0.0417 78415
chr7:2353852- 2354485_mergedPeaks.32651_SNX8_69_EIF3B_4030 5	1.0084 72206	0.0016 6042	0.0418 63536
chr15:45003431- 45004077_mergedPeaks.11796_B2M_70_TRIM69_24 805	1.3542 14226	0.0016 66172	0.0419 80669
chr12:6643354- 6644366_mergedPeaks.7430_SCARNA10_24473_GAP DH_524	1.0336 94792	0.0016 69877	0.0420 22212
chr9:37485552- 37486124_mergedPeaks.37370_ZBTB5_20431_POLR 1E_93	1.3115 08038	0.0016 71002	0.0420 22212
chr20:57556015- 57556735_mergedPeaks.20963_NELFCD_113_CTSZ_ 25934	1.3372 77646	0.0016 7191	0.0420 22212
chr6:134556989- 134557592_mergedPeaks.31953_SGK1_60220_LINC0 1010_201563	6.1429 29166	0.0016 7225	0.0420 22212
chr9:71596801-	6.1329	0.0016	0.0420

71597140_mergedPeaks.37447_LOC101927069_6213_PRKACG_32069	44807	74683	36482
chr6:144261200-144261405_mergedPeaks.32155_ZC2HC1B_75730_PLAGL1_68239	- 3.9800 13104	0.0016 75817	0.0420 36482
chr6:52528959-52529740_mergedPeaks.30769_LOC730101_151_TMEM14A_6534	1.1619 26206	0.0016 7725	0.0420 36482
chr1:176294497-176294703_mergedPeaks.2279_RFWD2_118220_PAPPA2_137706	- 6.2144 05592	0.0016 83986	0.0421 49627
chr19:45754326-45754618_mergedPeaks.16527_EXOC3L2_17003_MARK4_43	6.5573 52308	0.0016 85782	0.0421 66773
chr2:214049910-214050422_mergedPeaks.19775_IKZF2_33833_AC079610.2_98763	6.1377 70936	0.0016 87012	0.0421 69735
chr8:66893966-66894790_mergedPeaks.35586_PDE7A_193049_DNAJC5B_39412	1.1022 46764	0.0016 89362	0.0422 00691
chr16:2317854-2318672_mergedPeaks.12609_ECI1_16661_RNPS1_150	1.1959 36924	0.0016 96319	0.0423 30355
chr1:32110268-32110878_mergedPeaks.392_HCRTR1_27273_PEF1_265	1.2307 13977	0.0016 96784	0.0423 30355
chr1:46049425-46049923_mergedPeaks.593_NASP_15_CCDC17_40057	1.2689 92041	0.0016 99737	0.0423 76165
chr10:62118020-62118572_mergedPeaks.4415_C10orf40_397625_ANK3_31338	2.7720 47349	0.0017 02363	0.0423 89208
chr2:131862385-131863099_mergedPeaks.18440_PLEKHB2_323_POTEE_113181	1.7006 83507	0.0017 03625	0.0423 89208
chr1:21766446-21766646_mergedPeaks.244_RP5-1071N3.1_146764_NBPF3_36	6.3482 2673	0.0017 04435	0.0423 89208
chr7:43768958-43769395_mergedPeaks.33269_COA1_36_BLVRA_29095	3.5196 57142	0.0017 05133	0.0423 89208
chr2:186155779-186156207_mergedPeaks.19288_ZNF804A_692901_FSIP2_447361	- 3.7903 71936	0.0017 05846	0.0423 89208
chr3:56821852-56822123_mergedPeaks.22595_ARHGEF3_12242_AR	6.1539 04366	0.0017 09221	0.0424 32878

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chr2:65743924-65744294_mergedPeaks.17696_SPRED2_150178_MIR4778_841351	6.1326 16992	0.0017 10541	0.0424 32878
chr3:107352298-107353125_mergedPeaks.23207_BBX_110929_LINC00635_244204	2.6044 62116	0.0017 10958	0.0424 32878
chr16:3332739-3333625_mergedPeaks.12643_LINC00921_19415_ZNF263_304	1.1029 56415	0.0017 14237	0.0424 86432
chr6:26923844-26924299_mergedPeaks.30370_ZNF322_264091_GUSBP2_262	2.0348 51052	0.0017 23562	0.0425 93108
chr14:74180948-74181234_mergedPeaks.11173_DNAL1_69514_PNA1_37	2.9327 30853	0.0017 24154	0.0425 93108
chr10:17269958-17270181_mergedPeaks.3885_VIM-AS1_1172_VIM_188	3.2297 34258	0.0017 26691	0.0426 27547
chr20:32699813-32700473_mergedPeaks.20672_EIF2S2_58_ASIP_148027	1.1066 14027	0.0017 27795	0.0426 27547
chr12:89619631-89620117_mergedPeaks.8625_RP11-13A1.1_206405_DUSP6_126762	6.9988 70055	0.0017 31517	0.0426 91616
chr12:7062623-7063266_mergedPeaks.7445_PTPN6_2511_MIR200C_9917	1.0603 54927	0.0017 34507	0.0427 3307
chr9:17531603-17531973_mergedPeaks.37101_CNTLN_396800_SH3GL2_47164	6.2303 61346	0.0017 3545	0.0427 3307
chr16:23690054-23690335_mergedPeaks.12884_DCTN5_37508_PLK1_6	6.2659 75482	0.0017 38508	0.0427 80592
chr15:99191362-99191898_mergedPeaks.12475_FAM169B_134019_IGF1R_1130	2.0438 99303	0.0017 39831	0.0427 85407
chr10:73454372-73454587_mergedPeaks.4594_SLC29A3_375470_C10orf105_25099	6.1428 11103	0.0017 42778	0.0428 30122
chr19:45970826-45971680_mergedPeaks.16535_FOSB_1_RTN2_25250	1.2161 13619	0.0017 50287	0.0429 31898
chr19:12845301-12845729_mergedPeaks.16066_TNPO2_12410_C19orf43_14	1.6337 8314	0.0017 50314	0.0429 31898

chr10:70757472- 70757887_mergedPeaks.4564_KIAA1279_9203_SRG N_90148	6.7512 5105	0.0017 53531	0.0429 83042
chr19:45942813- 45943355_mergedPeaks.16532_ERCC1_16264_FOSB_ 28168	1.6647 34165	0.0017 56656	0.0430 31843
chr18:59955109- 59955309_mergedPeaks.15566_KIAA1468_100686_ TNFRSF11A_37310	- 5.7055 94163	0.0017 61536	0.0431 21844
chr8:71042778- 71043224_mergedPeaks.35653_PRDM14_59439_NC OA2_273019	6.1321 59611	0.0017 62603	0.0431 21844
chr1:25566117- 25566744_mergedPeaks.293_SYF2_7417_RSRP1_755 5	1.7470 5088	0.0017 69233	0.0432 00486
chr19:2427470- 2428029_mergedPeaks.15862_TMPRS9_37966_TIM M13_165	1.3593 69986	0.0017 73116	0.0432 6057
chr19:57751655- 57752267_mergedPeaks.16747_AURKC_9534_ZNF80 5_91	1.5823 19185	0.0017 73974	0.0432 6057
chr5:132072751- 132073587_mergedPeaks.29056_IL4_63492_KIF3A_ 96	1.2003 64547	0.0017 76386	0.0432 74198
chr8:61590816- 61591427_mergedPeaks.35500_RAB2A_161653_CHD 7_202	1.2164 0585	0.0017 78971	0.0432 98933
chr1:1167103- 1167841_mergedPeaks.12_SDF4_25_B3GALT6_156	1.0155 53021	0.0017 84663	0.0434 09634
chr7:69812807- 69813284_mergedPeaks.33491_AUTS2_749141_WBS CR17_784477	2.6595 84671	0.0017 87179	0.0434 42999
chr11:117685441- 117686425_mergedPeaks.7084_DSCAML1_17957_FX YD2_12874	1.4503 92977	0.0017 99273	0.0437 08962
chr9:26812268- 26812714_mergedPeaks.37217_LOC100506422_745 819_CAAP1_80335	6.1544 52512	0.0018 08408	0.0438 74712
chr13:100153430- 100153901_mergedPeaks.10281_TM9SF2_38_CLYBL _105252	1.4397 06671	0.0018 099	0.0438 82843
chr3:134513738- 134514426_mergedPeaks.23629_KY_144218_EPHB1 _16	1.0160 98348	0.0018 12556	0.0438 98337
chr12:96793946-	1.0804	0.0018	0.0438

96794529_mergedPeaks.8799_ELK3_206031_CDK17_129	53835	1401	98337
chr18:42379804-42380284_mergedPeaks.15321_SETBP1_119182_MIR4319_170087	3.2407 37247	0.0018 23067	0.0440 5695
chr1:227012691-227013033_mergedPeaks.3197_ITPKB_85986_PSEN2_45410	6.3822 97107	0.0018 24216	0.0440 5695
chr10:101769301-101769945_mergedPeaks.5006_DNMBP-AS1_82658_DNMBP_53	1.1840 34402	0.0018 27653	0.0440 87923
chrX:148227310-148227800_mergedPeaks.39673_AFF2_645417_IDS_359329	6.2825 0123	0.0018 28962	0.0440 91468
chr13:27998502-27998992_mergedPeaks.9411_GTF3A_67_MTIF3_25579	2.1157 53595	0.0018 3024	0.0440 94253
chr17:27620736-27621456_mergedPeaks.14181_CRYBA1_47222_NUFIP2_70	1.0583 71061	0.0018 34332	0.0441 40825
chr4:184208401-184209399_mergedPeaks.27196_WWC2_188438_CLDN22_33027	- 1.3203 78492	0.0018 34499	0.0441 40825
chr6:99328315-99328900_mergedPeaks.31369_POU3F2_46028_FBXL4_67275	2.5975 33114	0.0018 37208	0.0441 44908
chr16:2563475-2564148_mergedPeaks.12615_TBC1D24_38665_ATP6VOC_59	1.0702 43367	0.0018 38061	0.0441 44908
chr7:116610569-116611159_mergedPeaks.34206_ST7-AS1_16476_MIR6132_49400	6.0337 40934	0.0018 38159	0.0441 44908
chr4:147407725-147408038_mergedPeaks.26624_MIR7849_78147_SLC10A7_35242	6.2368 98625	0.0018 41815	0.0442 04724
chr22:24236281-24237001_mergedPeaks.21414_MIF_77_LOC284889_4476	1.7107 23492	0.0018 45559	0.0442 38628
chr16:75182186-75183068_mergedPeaks.13540_ZFP1_207_CTRB2_58445	1.1298 49072	0.0018 5175	0.0443 31018
chr4:65748445-65748869_mergedPeaks.25429_TECRL_473479_RP11-707A18.1_121561	6.1259 42983	0.0018 66383	0.0446 53154
chr13:78102918-	1.9034	0.0018	0.0446

78103512_mergedPeaks.10002_MYCBP2_202038_SC EL_6593	20097	7153	73511
chr2:74425395- 74426448_mergedPeaks.17827_MTHFD2_232_SLC4A 5_116231	1.4740 18784	0.0018 72041	0.0446 73511
chr9:33816534- 33817310_mergedPeaks.37298_PRSS3_66104_UBE2 R2_259	1.2276 09751	0.0018 72896	0.0446 73511
chr8:29265914- 29266351_mergedPeaks.35131_DUSP4_59810_LINC 00589_339493	- 2.5040 89325	0.0018 75321	0.0446 97909
chr15:101481066- 101481273_mergedPeaks.12522_LRRK1_21710_CHS Y1_310968	6.2669 97558	0.0018 80483	0.0447 92807
chr17:46102346- 46102894_mergedPeaks.14412_CDK5RAP3_54299_ MIR152_11993	1.0514 69153	0.0018 82835	0.0448 20688
chr9:77111886- 77112207_mergedPeaks.37522_ANXA1_1345266_RO RB_205	6.2158 9542	0.0018 85087	0.0448 39116
chr1:217668553- 217668965_mergedPeaks.2995_ESRRG_690050_GPA TCH2_135650	3.3585 93755	0.0018 91848	0.0449 22514
chrX:41696470- 41697088_mergedPeaks.38803_GPR82_113372_CAS K_85508	2.3406 53392	0.0019 01759	0.0450 20376
chr3:171527463- 171527943_mergedPeaks.24203_TNIK_349506_PLD 1_581	2.0622 76622	0.0019 02042	0.0450 20376
chr4:15656690- 15657350_mergedPeaks.24878_CC2D2A_185532_FB XL5_15	1.2763 41971	0.0019 0237	0.0450 20376
chr19:10712871- 10713285_mergedPeaks.16014_AP1M2_15087_SLC4 4A2_23092	1.5403 58432	0.0019 03372	0.0450 20376
chr15:74907818- 74908306_mergedPeaks.12139_CLK3_728_EDC3_80 324	1.5798 79783	0.0019 04675	0.0450 20376
chr19:13213584- 13213998_mergedPeaks.16082_NFIX_78397_LYL1_1 83	2.6543 4318	0.0019 04931	0.0450 20376
chr1:198322013- 198322901_mergedPeaks.2607_NEK7_196350_ATP6 V1G3_187618	1.9802 76292	0.0019 06648	0.0450 20376
chr11:65313809-	1.4810	0.0019	0.0451



65314414_mergedPeaks.6361_SCYL1_21564_LTBP3_11588	62296	12006	18833
chr6:99968721-99969458_mergedPeaks.31386_TSTD3_220_CCNC_47601	- 1.1057 62293	0.0019 16846	0.0452 04915
chr3:113548849-113549111_mergedPeaks.23323_ATP6V1A_83115_GRAMD1C_8700	6.3736 21818	0.0019 22728	0.0452 87341
chr15:96601428-96602138_mergedPeaks.12454_LINC00924_625462_NR2F2_267373	6.1365 7825	0.0019 29675	0.0454 22775
chr8:30515370-30516060_mergedPeaks.35153_SMIM18_19599_GTF2E2_23	1.0805 63938	0.0019 379	0.0455 88107
chr5:112849095-112849820_mergedPeaks.28718_YTHDC2_67_KCNN2_919769	1.9334 35485	0.0019 46539	0.0457 34627
chr1:6259451-6260109_mergedPeaks.75_RPL22_101_RNF207_6408	1.3324 66073	0.0019 47761	0.0457 35027
chr14:68086256-68086756_mergedPeaks.11091_PIGH_19489_ARG2_72	2.5129 12528	0.0019 55305	0.0458 44653
chr1:167599293-167599571_mergedPeaks.2095_CREG1_76376_RCSD1_41	2.8188 17741	0.0019 55346	0.0458 44653
chr6:16128980-16129799_mergedPeaks.30160_MYLIP_73_MIR4639_12397	1.0815 07414	0.0019 57145	0.0458 44653
chr7:99680141-99680547_mergedPeaks.33921_ZNF3_957_COPS6_6238	1.9255 44636	0.0019 58471	0.0458 44653
chr8:109973787-109974149_mergedPeaks.36290_TMEM74_174198_TRHR_125684	6.0292 2227	0.0019 61935	0.0458 86448
chr1:151735806-151736106_mergedPeaks.1775_OAZ3_512_MRPL9_84	3.3024 62361	0.0019 63387	0.0458 86448
chr12:70636432-70637747_mergedPeaks.8373_RAB3IP_464358_CNO_T2_404	1.0857 6779	0.0019 63884	0.0458 86448
chr19:41115796-41116234_mergedPeaks.16436_LTBP4_8739_NUMB_L_80548	1.8595 25419	0.0019 65353	0.0458 925
chrX:20242859-	6.0439	0.0019	0.0460

20243457_mergedPeaks.38605 EIF1AX_83192_RPS6 KA3_41592	81927	72071	15357
chr6:126762014- 126762437_mergedPeaks.31816_CENPW_101291_RS PO3_677822	- 3.0763 35837	0.0019 7304	0.0460 15357
chr12:88785398- 88785675_mergedPeaks.8615_TMTC3_249464_KITL G_188714	6.1247 89757	0.0019 75713	0.0460 29106
chr17:25659480- 25660315_mergedPeaks.14134_WSB1_38792_TBC1 D3P5_85133	1.3372 15657	0.0019 76055	0.0460 29106
chr7:137660002- 137660243_mergedPeaks.34531_AC022173.2_22029 _CREB3L2_26725	6.2221 00285	0.0019 78569	0.0460 59389
chr14:91371881- 91372295_mergedPeaks.11364_TTC7B_89327_RPS6 KA5_154905	6.1304 50561	0.0019 80718	0.0460 81139
chr1:28995029- 28995677_mergedPeaks.370_GMEB1_114_YTHDF2_6 8098	1.2521 32381	0.0019 88299	0.0462 29177
chr12:125030080- 125030586_mergedPeaks.9226_MIR6880_208545_N COR2_21677	- 1.7640 5109	0.0019 90984	0.0462 50572
chr19:45926612- 45927264_mergedPeaks.16531_ERCC1_118_FOSB_44 314	1.3789 04412	0.0019 92313	0.0462 50572
chr19:36618687- 36619022_mergedPeaks.16343_POLR2I_12648_CAP NS1_12063	3.0841 89793	0.0019 92876	0.0462 50572
chr16:27461209- 27461562_mergedPeaks.12930_IL21R_47903_IL21R- AS1_3329	6.5309 59026	0.0020 01153	0.0464 14281
chr10:85631280- 85631605_mergedPeaks.4758_NRG3_1996373_GHIT M_267742	6.0399 7342	0.0020 03924	0.0464 29472
chr19:11532917- 11533174_mergedPeaks.16033_RGL3_3027_CCDC15 1_12935	6.5449 6998	0.0020 05575	0.0464 29472
chr11:118868542- 118869022_mergedPeaks.7109_FOXR1_26366_CCDC 84_60	1.7114 57424	0.0020 12628	0.0464 29472
chr1:220267182- 220267777_mergedPeaks.3031_IARS2_25_MIR215_2 3825	1.3303 63818	0.0020 13242	0.0464 29472
chr12:93381601-	1.9232	0.0020	0.0464

93382177_mergedPeaks.8716_EEA1_58782_RP11-486A14.2_389623	12153	14756	29472
chr5:72959681-72960000_mergedPeaks.28088_UTP15_98275_ARHG_EF28_149502	6.1622 74745	0.0020 1491	0.0464 29472
chr4:39355040-39355771_mergedPeaks.25158_WDR19_171382_RF_C1_12596	2.2538 42552	0.0020 16542	0.0464 29472
chr6:97107230-97107678_mergedPeaks.31348_FHL5_97031_GPR63_177899	6.4674 07706	0.0020 16671	0.0464 29472
chr6:131350971-131351370_mergedPeaks.31903_EPB41L2_29263_A_KAP7_220128	6.0399 74016	0.0020 16999	0.0464 29472
chr13:66712330-66713085_mergedPeaks.9861_LINC00395_2400556_PCDH9-AS2_686593	- 1.0045 47966	0.0020 19922	0.0464 29472
chr7:7298485-7298728_mergedPeaks.32738_LOC101927354_3822_COL28A1_276854	6.0359 52442	0.0020 21961	0.0464 29472
chr5:35229390-35229856_mergedPeaks.27632_PRLR_111399_SPEF2_388365	6.4584 65217	0.0020 24266	0.0464 29472
chr1:24513680-24513930_mergedPeaks.276_IFNLR1_40_RP11-10N16.2_12924	6.5479 49961	0.0020 24405	0.0464 29472
chr2:225811767-225811978_mergedPeaks.20002_DOCK10_90_MIR4439_63385	6.0359 40134	0.0020 24962	0.0464 29472
chr11:88070593-88071105_mergedPeaks.6695_RAB38_162214_CTSC_92	1.3419 30952	0.0020 26912	0.0464 29472
chr13:49323839-49324384_mergedPeaks.9711_CYSLTR2_43161_FND_C3A_360327	2.7345 8032	0.0020 2777	0.0464 29472
chr6:44703499-44703751_mergedPeaks.30667_MIR4642_300248_MIR586_461882	6.3240 57251	0.0020 2854	0.0464 29472
chr17:65989540-65990117_mergedPeaks.14654_C17orf58_63_KPNA2_42019	1.2701 72966	0.0020 371	0.0465 67251
chr15:94003908-94004258_mergedPeaks.12413_RGMA_371640_MCTP2_895080	- 5.6837 54319	0.0020 37918	0.0465 67251
chr20:5824917-	3.4461	0.0020	0.0465

5825457_mergedPeaks.20360_C20orf196_94145_CH GB_66786	45056	38429	67251
chr11:8615341- 8615989_mergedPeaks.5614_STK33_110_TRIM66_64 718	3.2985 88032	0.0020 44725	0.0466 54894
chr5:59607921- 59608153_mergedPeaks.27913_PDE4D_1312278_PA RT1_175721	- 5.7165 43069	0.0020 4999	0.0467 30177
chr11:14330502- 14330972_mergedPeaks.5704_SPON1_346554_RRAS 2_49993	6.1423 74297	0.0020 50661	0.0467 30177
chr19:36869861- 36870306_mergedPeaks.16348_LINC00665_47463_Z FP14_22	3.0624 51945	0.0020 51719	0.0467 30177
chr7:12362467- 12362889_mergedPeaks.32799_TMEM106B_111831 _VWDE_81174	6.0358 17328	0.0020 55316	0.0467 84016
chr4:34711226- 34711511_mergedPeaks.25071_PCDH7_3989339_AR AP2_1534611	6.3665 08371	0.0020 58917	0.0468 37378
chr20:48807315- 48807563_mergedPeaks.20865_CEBPB_320_RP11- 290F20.3_76583	3.5412 89265	0.0020 60129	0.0468 37378
chr3:79317447- 79318061_mergedPeaks.22889_ROBO1_249145_LOC 101927374_143122	1.6882 3766	0.0020 65046	0.0469 04011
chr4:127817216- 127817566_mergedPeaks.26348_MIR2054_1388978 _INTU_736695	6.0443 85906	0.0020 65532	0.0469 04011
chr12:122356325- 122356529_mergedPeaks.9187_PSMD9_29791_WDR 66_35	6.3157 99088	0.0020 70706	0.0469 62748
chr16:67204088- 67204806_mergedPeaks.13347_HSF4_7160_NOL3_3 308	1.9366 20586	0.0020 71118	0.0469 62748
chr17:7232501- 7233241_mergedPeaks.13970_NEURL4_233_ACAP1_ 6976	1.0822 79072	0.0020 71831	0.0469 62748
chr4:2788864- 2789513_mergedPeaks.24728_TNIP2_31085_SH3BP 2_5561	1.3753 02884	0.0020 75794	0.0469 863
chr12:68042332- 68042847_mergedPeaks.8318_DYRK2_78_RP11- 43N5.1_80666	1.9002 27828	0.0020 76258	0.0469 863
chr11:62538591-	1.0886	0.0020	0.0469

62539311_mergedPeaks.6289_TAF6L_177_TMEM17 9B_15922	24696	76585	863
chr12:52444760- 52445429_mergedPeaks.8086_GRASP_40819_NR4A1 _91	1.3201 13168	0.0020 77846	0.0469 86801
chr17:20058936- 20059564_mergedPeaks.14113_AKAP10_178081_SP ECC1_56	1.2987 47985	0.0020 8573	0.0471 37
chr17:79481658- 79482173_mergedPeaks.14862_ACTG1_2023_FSCN2 _13501	1.1149 07485	0.0020 91426	0.0472 33795
chr11:118888851- 118889550_mergedPeaks.7110_RPS25_143_TRAPPC 4_40	1.3136 36723	0.0020 97997	0.0472 33795
chr19:21541998- 21542222_mergedPeaks.16243_ZNF738_376_ZNF49 3_37810	6.3157 00785	0.0020 99043	0.0472 33795
chr17:53045642- 53046415_mergedPeaks.14474_TOM1L1_67977_COX 11_36	1.7857 42113	0.0020 99242	0.0472 33795
chr8:6698227- 6698427_mergedPeaks.34858_XKR5_5161_DEFB1_3 7202	6.1558 07868	0.0020 99971	0.0472 33795
chr1:183559448- 183560320_mergedPeaks.2410_NCF2_145_ARPC5_4 5192	1.1743 50386	0.0021 01686	0.0472 34233
chr8:80557770- 80558292_mergedPeaks.35808_STMN2_34983_HEY1 _120679	6.1358 64519	0.0021 0248	0.0472 34233
chr5:68485185- 68485806_mergedPeaks.28046_CENPH_121_MRPS3 6_28077	3.2266 35951	0.0021 10706	0.0473 8344
chr8:74056916- 74057372_mergedPeaks.35710_SBSPON_51637_LOC 100130301_114593	- 2.4779 7342	0.0021 11619	0.0473 8344
chr17:8093360- 8093848_mergedPeaks.13998_C17orf59_40_AURKB_ 20340	1.0703 37706	0.0021 14766	0.0473 9962
chr9:100745356- 100745816_mergedPeaks.37776_ANP32B_98_NANS_ 73372	1.4264 14602	0.0021 14839	0.0473 9962
chr11:58939386- 58939853_mergedPeaks.6215_FAM111A_29302_DTX 4_192	1.7410 76502	0.0021 17585	0.0474 33145
chr7:65669986-	1.7797	0.0021	0.0475

65670496_mergedPeaks.33443_CRCP_90437_TPST1_17	52079	26175	8584
chr1:153643318-153643901_mergedPeaks.1801_ILF2_105_NPR1_7554	1.2294 98104	0.0021 2691	0.0475 8584
chr12:94541898-94542655_mergedPeaks.8742_RP11-887P2.5_410677_PLXNC1_114020	1.3406 19681	0.0021 31007	0.0476 18839
chr12:65582692-65583243_mergedPeaks.8284_LEMD3_19617_MSRB3_89455	6.1294 31673	0.0021 31387	0.0476 18839
chr4:95489110-95489365_mergedPeaks.25863_PDLIM5_116230_BMPR1B_428145	- 5.7049 16372	0.0021 32149	0.0476 18839
chr17:40761206-40761883_mergedPeaks.14329_FAM134C_99_TUBG2_49721	1.1094 56487	0.0021 39726	0.0477 59941
chr6:164133328-164133582_mergedPeaks.32520_QKI_297781_C6orf118_1589656	- 2.5851 63275	0.0021 4797	0.0478 74703
chr16:55867896-55868456_mergedPeaks.13185_CES1_1101_CES5A_41106	6.1171 65485	0.0021 49391	0.0478 74703
chr1:948456-949112_mergedPeaks.5_HES4_13232_ISG15_62	1.9530 44415	0.0021 50437	0.0478 74703
chr20:30200580-30200964_mergedPeaks.20641_MIR3193_5784_COX4I2_24918	2.2343 72707	0.0021 51871	0.0478 74703
chr3:47017889-47018522_mergedPeaks.22449_PTH1R_94467_CCDC12_52	1.0469 35264	0.0021 52438	0.0478 74703
chr5:149379730-149380354_mergedPeaks.29361_SLC26A2_39743_HMGXB3_126	1.5088 12968	0.0021 55619	0.0479 17367
chr1:59433943-59434688_mergedPeaks.742_LINC01135_183493_RP4-794H19.4_51832	2.0976 37344	0.0021 59856	0.0479 83448
chr2:132431544-132431910_mergedPeaks.18452_LINC01087_37130_C2orf27A_48336	- 2.2354 65926	0.0021 61503	0.0479 91936
chr12:106751297-106752148_mergedPeaks.8975_POLR3B_287_RFX4_224962	1.1000 41362	0.0021 67001	0.0480 85878
chr7:10746511-10746936_mergedPeaks.32780_PER4_1072824_NDU	3.3314 4814	0.0021 68995	0.0480 89008

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chr14:50787794- 50788262_mergedPeaks.10822_ATP5S_8982_CDKL1_76094	2.3477 6498	0.0021 71046	0.0480 91277
chr6:27720796- 27721244_mergedPeaks.30389_LINC01012_59207_L OC100131289_8502	1.8089 8287	0.0021 74125	0.0481 31377
chr17:16283877- 16284734_mergedPeaks.14061_CENPV_27493_UBB_298	1.0357 58499	0.0021 84916	0.0482 97386
chr3:5247031- 5247728_mergedPeaks.21804_EDEM1_18021_MIR47 90_44561	2.1010 99578	0.0021 8636	0.0482 97386
chr5:92413831- 92414777_mergedPeaks.28378_ARRDC3_1735155_N R2F1-AS1_502722	1.7112 22557	0.0021 86715	0.0482 97386
chr7:93671777- 93672058_mergedPeaks.33814_BET1_38227_COL1A 2_351955	6.0399 81257	0.0021 88338	0.0483 0512
chr7:139762407- 139763051_mergedPeaks.34578_TBXAS1_233778_P ARP12_792	1.5913 64362	0.0021 994	0.0485 02027
chr3:119395841- 119396629_mergedPeaks.23424_POPDC2_16831_CO X17_8	1.2261 01783	0.0021 99855	0.0485 02027
chr17:55532285- 55532936_mergedPeaks.14519_MS12_198680_RP11- 118E18.2_68348	1.5817 4971	0.0022 01093	0.0485 02027
chr12:118620894- 118621266_mergedPeaks.9119_PEBP1_47211_TAOK 3_189670	- 6.0209 59571	0.0022 10027	0.0486 42395
chr17:34136069- 34136754_mergedPeaks.14239_MMP28_13771_TAF 15_47	1.0965 89263	0.0022 12867	0.0486 76666
chr6:24403043- 24403559_mergedPeaks.30299_MRS2_166_GPLD1_8 6549	2.6888 2331	0.0022 16326	0.0486 96288
chr17:47773483- 47773851_mergedPeaks.14436_SPOP_18142_SLC35 B1_11646	3.5935 86683	0.0022 25914	0.0488 71641
chr2:199236587- 199237305_mergedPeaks.19567_PLCL1_567521_AC 005235.1_2875	2.0726 45692	0.0022 26883	0.0488 71641
chr10:85363201- 85363905_mergedPeaks.4756_NRG3_1728484_GHIT	6.0305 60278	0.0022 30046	0.0489 12768

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chr3:159745246- 159745977_mergedPeaks.24028_LINC01100_7176_I L12A-AS1_179268	2.6032 39203	0.0022 34389	0.0489 79714
chr7:114562736- 114563484_mergedPeaks.34167_MDFIC_902_TFEC_1 107757	1.9055 36318	0.0022 40527	0.0490 85913
chr1:179262638- 179263219_mergedPeaks.2330_SOAT1_80_AXDND1_ 71926	1.1632 66414	0.0022 42029	0.0490 90478
chr20:5986347- 5986973_mergedPeaks.20363_LOC101929225_193_ CRLS1_1237	1.7030 87011	0.0022 53131	0.0492 94143
chr7:44529926- 44530341_mergedPeaks.33285_CAMK2B_164903_N UDCD3_252	2.3783 63586	0.0022 55503	0.0492 94143
chr3:110533074- 110533416_mergedPeaks.23255_LINC01205_14044 09_PVRL3-AS1_255561	6.1286 66744	0.0022 56527	0.0492 94143
chr1:32802920- 32803267_mergedPeaks.407_MARCKSL1_1253_FAM 229A_24751	3.3032 53351	0.0022 67486	0.0494 59095
chr15:31528295- 31528701_mergedPeaks.11644_RP11- 16E12.2_5448_KLF13_90584	6.2282 28694	0.0022 67989	0.0494 59095
chr2:157236698- 157237263_mergedPeaks.18838_NR4A2_47693_GPD 2_55919	2.5456 63085	0.0022 72693	0.0494 78137
chr12:125405727- 125406166_mergedPeaks.9242_MIR5188_5854_DHX 37_67721	1.5900 50829	0.0022 72774	0.0494 78137
chr4:113514665- 113515140_mergedPeaks.26140_NEUROG2_77574_L ARP7_43217	6.2985 51688	0.0022 76646	0.0495 3401
chr2:56424969- 56425449_mergedPeaks.17537_CCDC85A_13952_VR K2_1709576	6.0452 0541	0.0022 8084	0.0495 96826
chr9:116341262- 116341604_mergedPeaks.38013_RGS3_77727_ZNF6 18_297128	- 1.5824 34711	0.0022 8604	0.0496 24578
chr19:35739204- 35739859_mergedPeaks.16311_FAM187B_19903_LS R_27	1.5003 08585	0.0022 86097	0.0496 24578
chr7:129592399- 129592996_mergedPeaks.34421_MIR183_177843_U	1.6003 47363	0.0022 86491	0.0496 24578



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chr11:35147970-35148333_mergedPeaks.6012_MIR1343_184768_CD44_12265	6.1284 75386	0.0022 89616	0.0496 24578
chr13:90408040-90408386_mergedPeaks.10145_LINC00353_191546_LINC00559_363758	6.0564 73353	0.0022 9117	0.0496 24578
chr13:41019477-41020100_mergedPeaks.9572_LINC00548_225149_LINC00598_35355	1.3338 43771	0.0022 91271	0.0496 24578
chr14:73715261-73715495_mergedPeaks.11164_PAPLN_11174_NUMB_209908	6.1565 51057	0.0022 94825	0.0496 73208
chr22:19109767-19110309_mergedPeaks.21363_DGCR2_71_TSSK2_8282	1.1914 61139	0.0022 96201	0.0496 74666
chr16:70771404-70771935_mergedPeaks.13454_MTSS1L_51715_VAC14-AS1_17293	2.2845 99404	0.0023 02184	0.0497 47371
chr2:48675476-48676144_mergedPeaks.17463_PPP1R21_7903_STON1_81497	2.6039 74508	0.0023 08355	0.0498 39944
chr3:122512457-122512805_mergedPeaks.23501_PARP14_112960_HSPBAP1_35	2.1756 60867	0.0023 09095	0.0498 39944
chr7:101855096-101855353_mergedPeaks.33966_CUX1_396041_SH2B2_73128	6.1492 45385	0.0023 13015	0.0498 96156

<b>Table2: Gene Ontology (GO) Analysis in G1 high more accessilbe regions</b>	
Gene Ontology (GO)	Term Name
GO Molecular function	transferase activity
GO Molecular function	acetyltransferase activity
GO Molecular function	ubiquitin-protein
GO Molecular function	histone acetyltransferase
GO Molecular function	N-acetyltransferase activity
GO Molecular function	androgen receptor
GO Biological Process	mRNA metabolic
GO Biological Process	symbiosis
GO Biological Process	RNA processing
GO Biological Process	modification of morphology
GO Biological Process	multi-organism cellular process
GO Biological Process	modification of morphology
GO Biological Process	interaction with host
GO Biological Process	termination of RNA
GO Biological Process	modulation by virus of host
GO Biological Process	modification by symbiont of host
GO Biological Process	mRNA processing
GO Biological Process	mRNA splicing
GO Biological Process	RNA splicing
GO Biological Process	Golgi vesicle
GO Biological Process	RNA splicing
GO Biological Process	ER to Golgi vesicle-mediated transport
GO Biological Process	regulation of multi-organism process
GO Biological Process	regulation of cell cycle
GO Biological Process	histone modification
GO Biological Process	posttranscriptional regulation of gene
GO Cellular Component	nuclear body
GO Cellular Component	exon-exonjunction
GO Cellular Component	nuclear speck
GO Cellular Component	ER to Golgi transport vesicle membrane
GO Cellular Component	Component cis-Golgi network
GO Cellular Component	Component ER to Golgi transport vesicle