

Supplementary Material to:

Yi Qing He, Elissa L. Sutcliffe, Karen L. Bunting, Jasmine Li, Katharine J. Goodall, Ivan K.A. Poon, et al. The endoglycosidase heparanase enters the nucleus of T lymphocytes and modulates H3 methylation at actively transcribed genes via the interplay with key chromatin modifying enzymes. *Transcription* 2012; 3(3); <http://dx.doi.org/10.4161/trns.19998>;
<http://www.landesbioscience.com/journals/transcription/article/19998/>

Figure S1

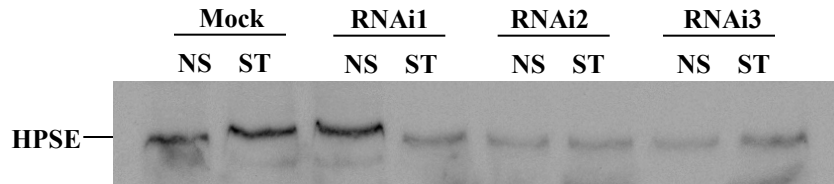
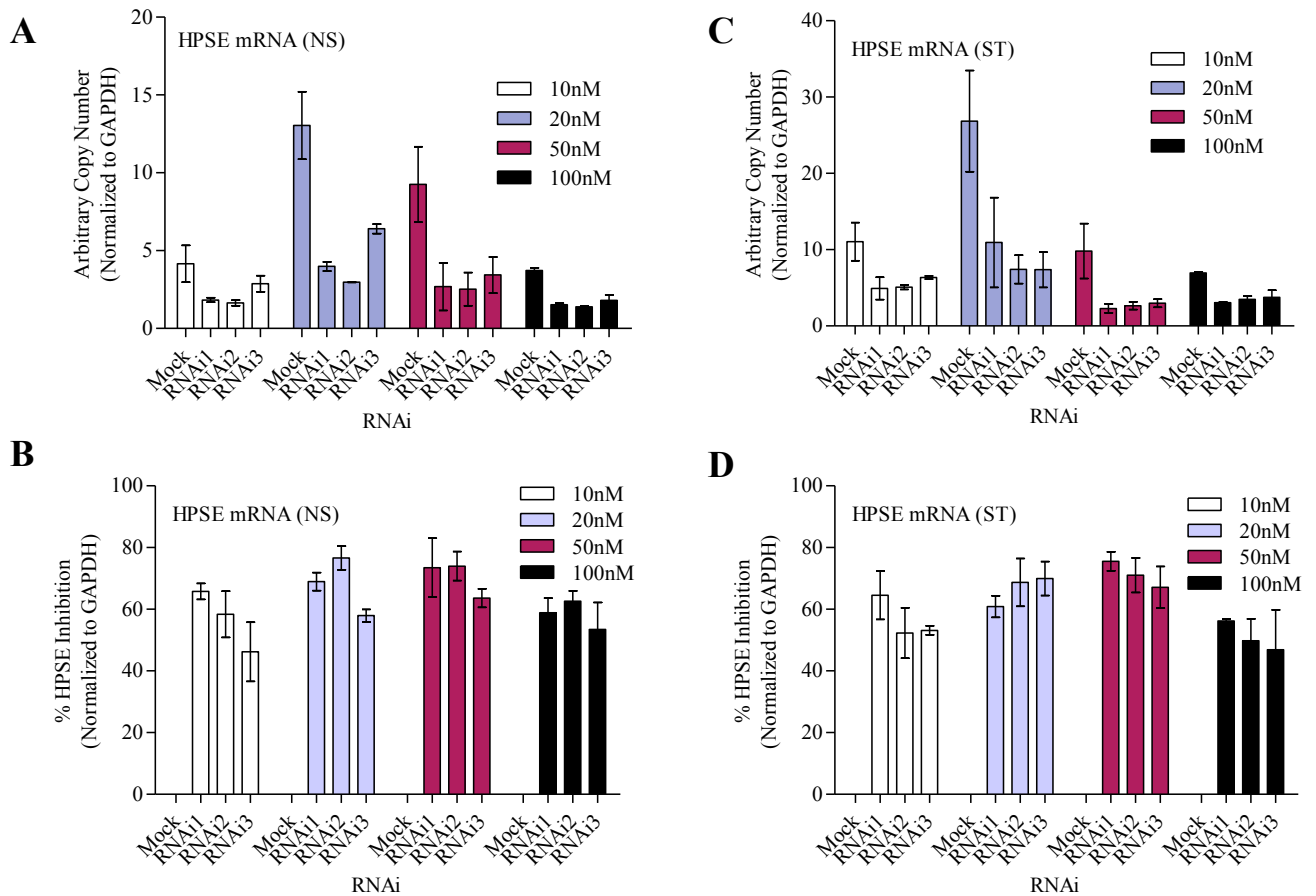
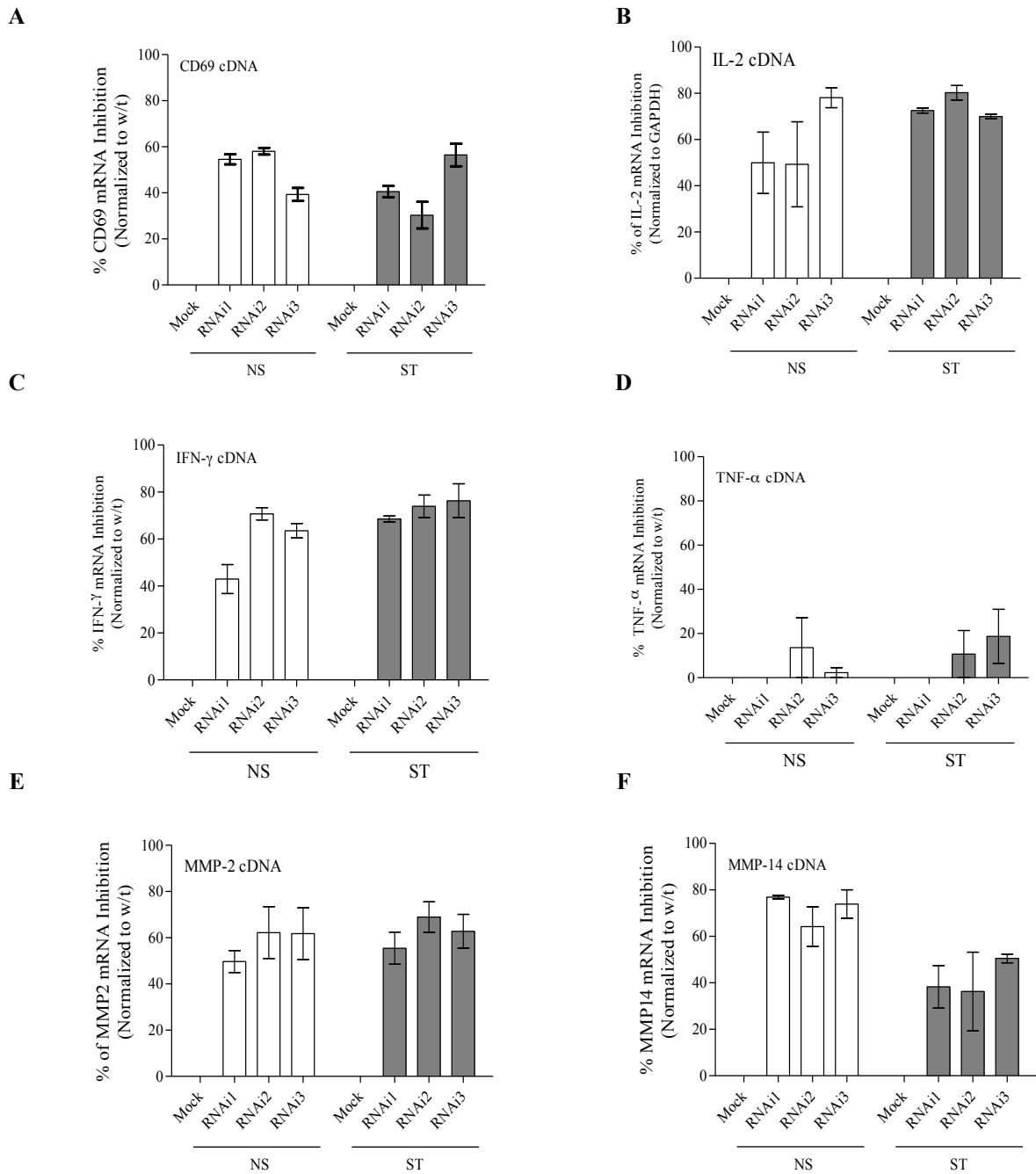


Figure S1. Heparanase Protein Production is Prevented by Heparanase siRNA Transfection

Jurkat T cells were transfected with a single heparanase siRNA (RNai1, RNai2, and RNai3) or a negative control siRNA (Mock) (Ambion) at a concentration of 50 nM using Lipofectamine 2000 reagent (Invitrogen) for 2 days and subsequently left untreated (NS) or stimulated with PI for 2 hr (ST). Whole cell protein extracts were made and Western blotting analysis was used to detect heparanase protein in the cells. Minimal heparanase protein could be detected in resting or activated Jurkat cells that had been transfected with the heparanase siRNAs.

Figure S2**Figure S2. Heparanase mRNA Production is Reduced by Heparanase siRNA transfection**

Jurkat T cells were transfected with a single heparanase siRNA (RNAi1, RNAi2 or RNAi3) or a combination of the three siRNAs or mock siRNA at different concentrations (10 nM, 20 nM, 30 nM, 50 nM and 100 nM) using Lipofectamine 2000 reagent for 2 days and subsequently left untreated (NS) or stimulated with PI for 2 hr (ST). Total RNA was extracted and Taqman real Time PCR analysis was used to detect the efficiency of heparanase mRNA knockdown by heparanase siRNA transfection. Heparanase cDNA levels were significantly reduced in both resting (A, B) and activated (C, D) Jurkat cells transfected with any of the three heparanase siRNAs. The inhibition efficiency ranged from 57% to 80% (B and D). No significant difference was seen between the three heparanase siRNAs. The heparanase siRNAs were generally effective at all concentrations tested but a concentration of 50 nM was chosen for all subsequent experiments. Data represent the mean \pm SE of three independent experiments.

Figure S3**Figure S3 Heparanase is Essential for Inducible Gene Transcription in T cells**

Jurkat T cells were transfected with validated heparanase siRNAs (RNAi1, RNAi2 and RNAi3) or a negative control siRNA (Mock) using Lipofectamine 2000 reagent (Invitrogen). At 48 hr post-transfection, Jurkat T cells were either left untreated (NS) or stimulated with PI for 2 hr (ST). Total RNA was extracted and TaqMan real-time PCR performed for CD69 (A), IL-2 (B), IFN- γ (C), TNF- α (D), MMP-2 (E) and MMP-14 (F). The arbitrary copies were normalised to GAPDH and results plotted as percentage inhibition. Data represent the mean \pm SE of three independent experiments.

Figure S4

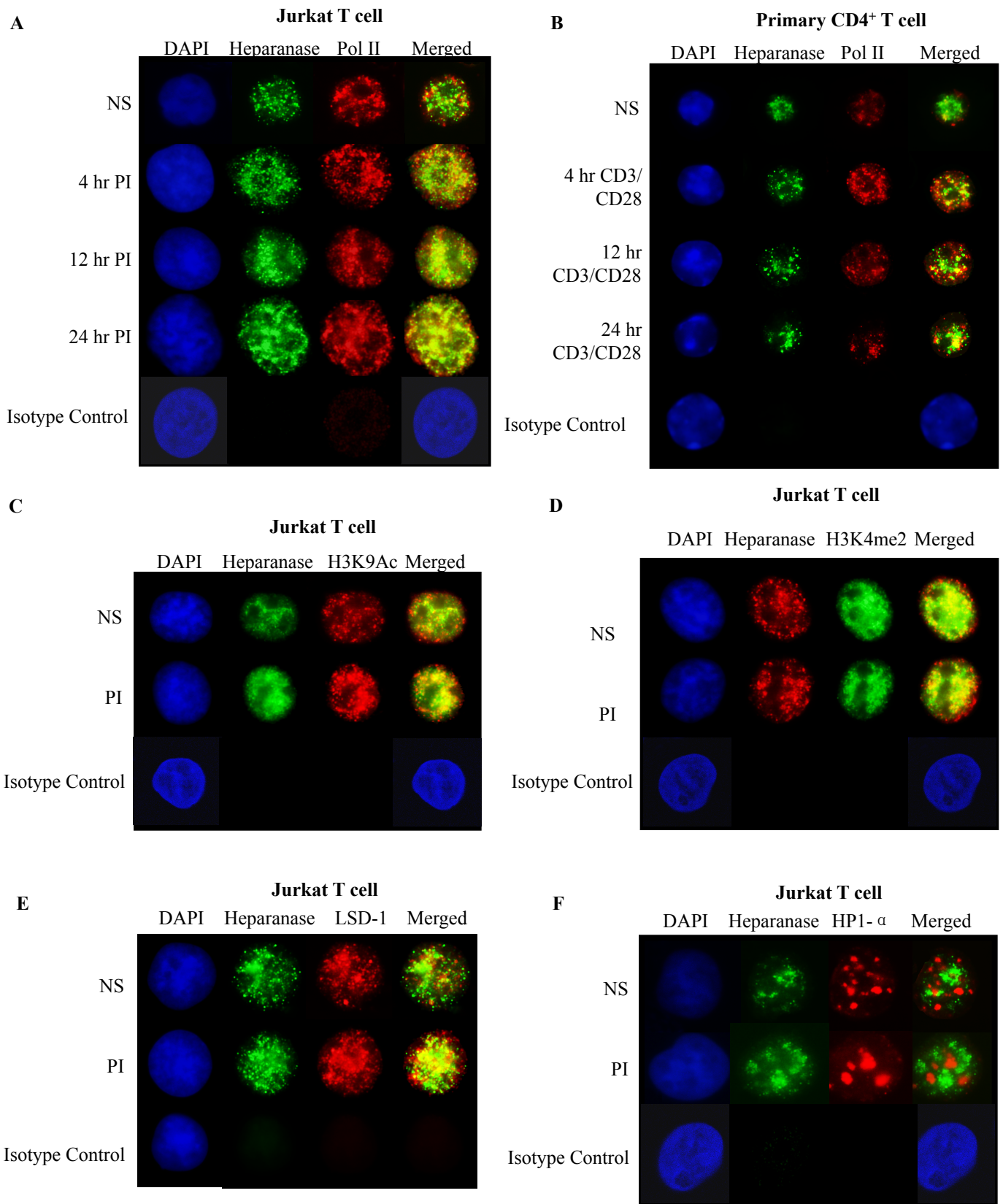


Figure S4. Nuclear Heparanase Associates with Discrete Chromatin Regions

(A) Fluorescence microscopy of fixed nuclei from Jurkat T cells (NS or PI-stimulated for the indicated time points) stained with DAPI and rabbit anti-heparanase or mouse anti-Pol II antibodies. A rabbit isotype of equivalent concentration was used as a control and showed no fluorescence.

(B) Fluorescence microscopy was performed as above using purified mouse primary CD4⁺ T cells that were NS or stimulated with anti-CD3 and anti-CD28 antibodies for the indicated time points.

(C-F) Fluorescence microscopy was performed as in A, using rabbit polyclonal antibodies against H3K9ac (C) and H3K4me2 (D) and mouse monoclonal antibodies against LSD1 (E) and HP-1 α (F).

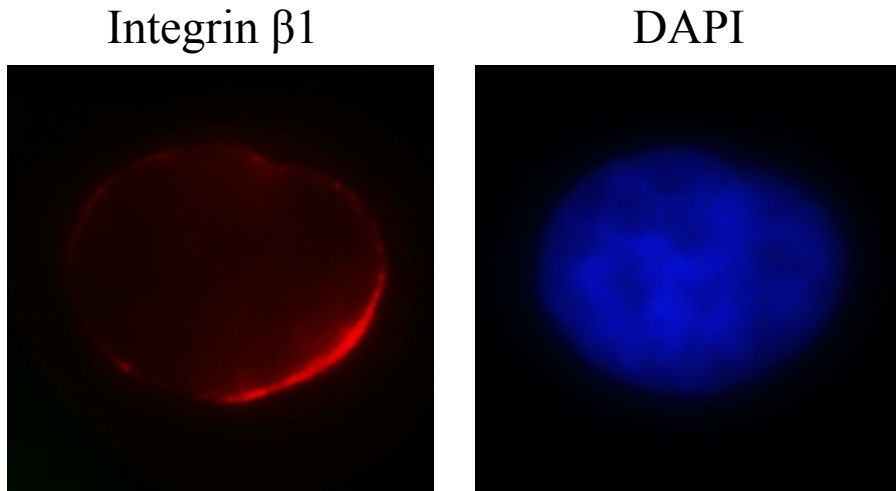


Figure S5. Fluorescence microscopy on fixed whole cells and nuclei
Whole cells and nuclei from Jurkat T cells were stained with the monoclonal mouse anti-human integrin $\beta 1$ (Abcam, ab8238) followed by Cy3-conjugated donkey anti-mouse (Jackson ImmunoResearch, 715-165-151) and DAPI.

Figure S6

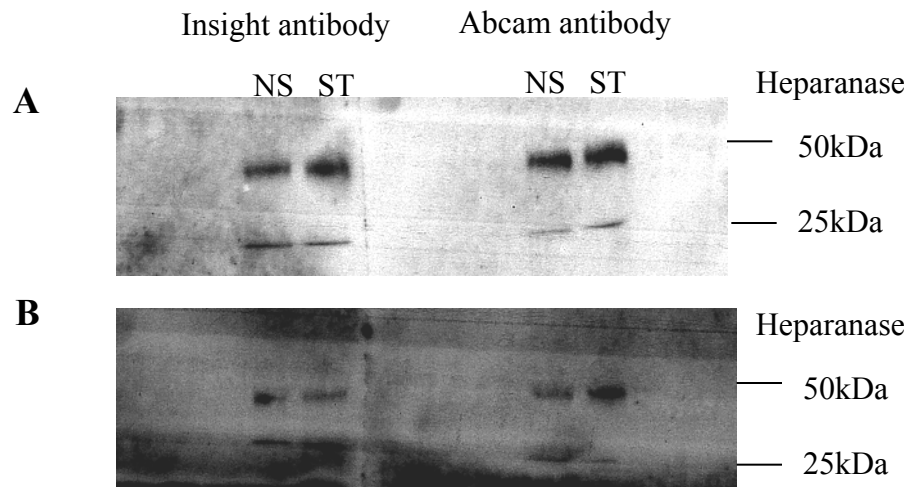


Figure S6. Nuclear Heparanase detected with two different antibodies

(A) Immunoblot analysis of heparanase protein levels in nuclear extracts prepared from non-stimulated (NS) and stimulated (ST) Jurkat T cells. Western blotting analysis was used to detect heparanase protein using a rabbit polyclonal heparanase antibody either from Insight (Insight, Ins-AB-04002) or Abcam (Ab85543) .

(B) Repeat experiment is shown.

Figure S7

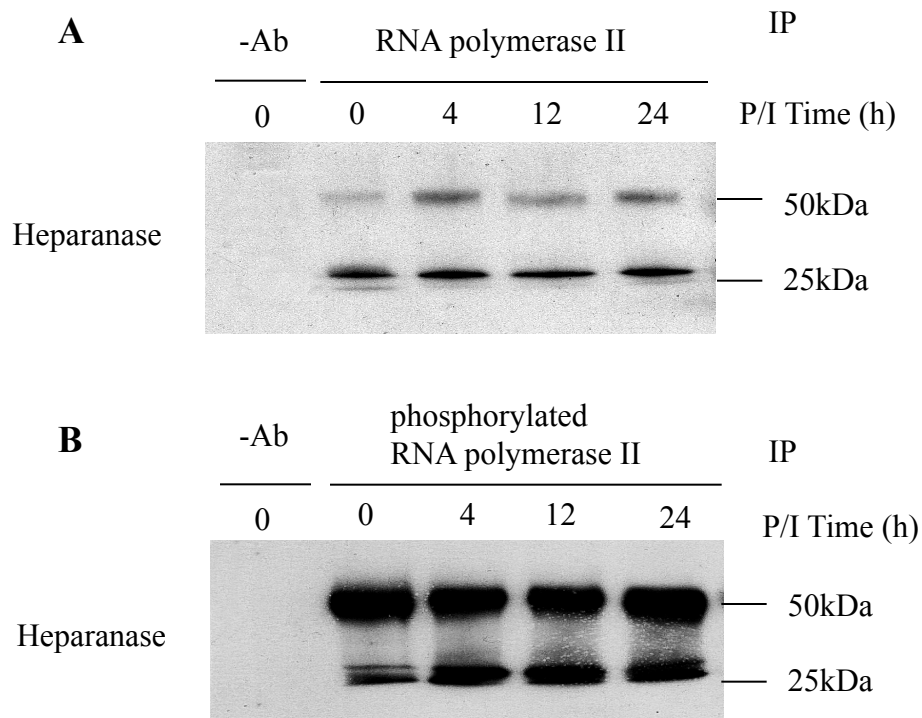


Figure S7. Nuclear Heparanase Associates with RNA polymerase II

Immunoprecipitation of (A) RNA polymerase II or (B) RNA polymerase II phosphorylated from cross-linked sonicated nuclear lysates of either resting (0) or PI-treated T cells for the times indicated followed by immunoblot analysis for heparanase. No antibody (-Ab) was used as a negative control.

Figure S8

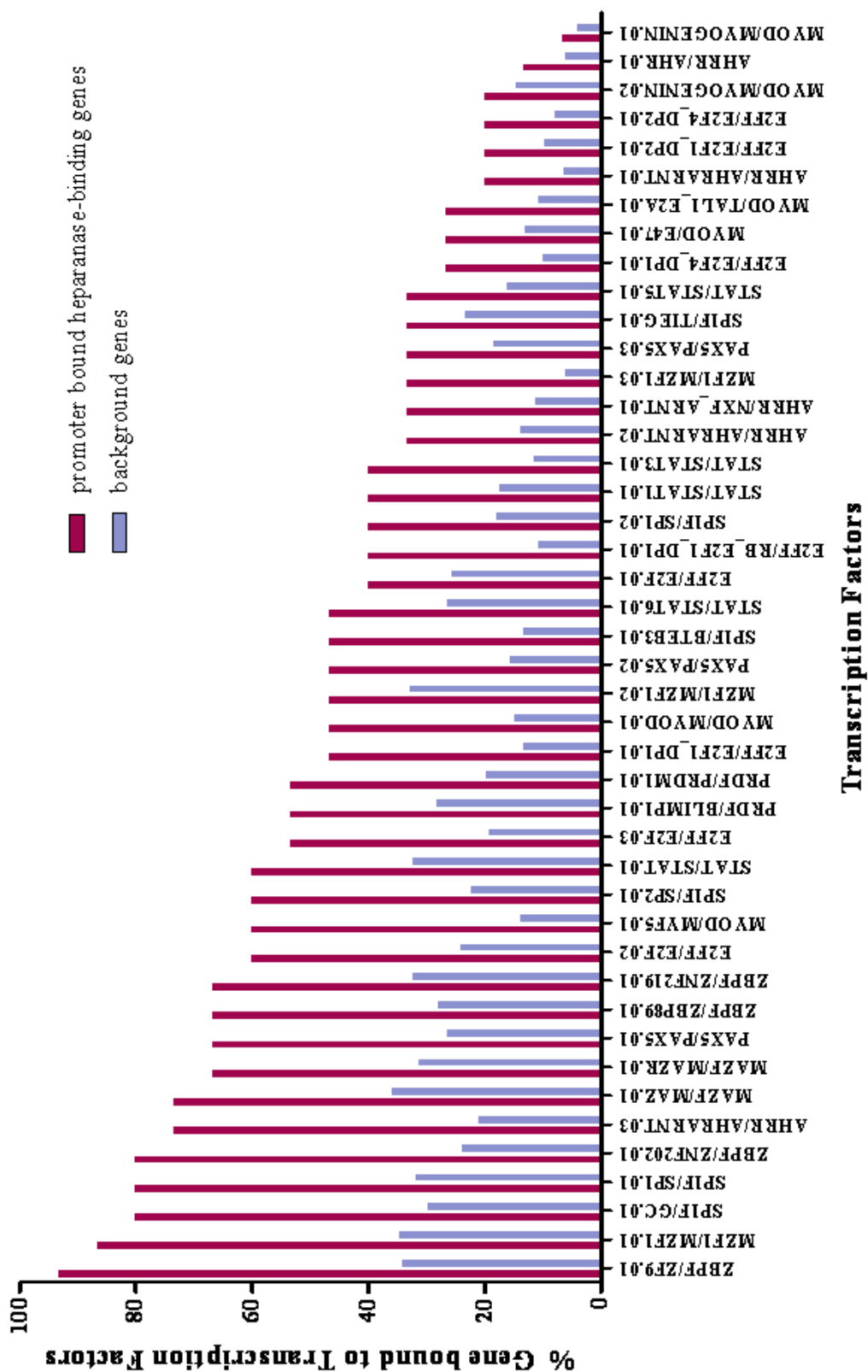


Figure S8 Genomatix analysis showing transcription factor binding sites on heparanase target genes
Bar graph of the most significant transcription factor modules predicted to bind heparanase within promoter regions of heparanase-bound genes identified by ChIP-on-Chip.

Figure S9

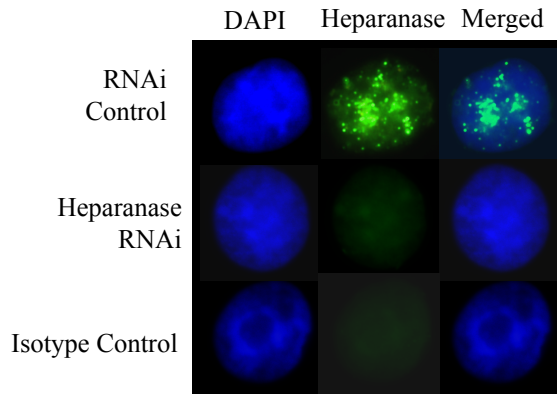


Figure S9. Nuclear localisation of heparanase in Jurkat T cells

(A) Fluorescence microscopy of fixed Jurkat T cells transfected with heparanase siRNA or a negative control siRNA (Ambion) at a concentration of 50 nM using Lipofectamine 2000 reagent (Invitrogen) for 2 days and subsequently stained with DAPI and rabbit polyclonal anti-heparanase. A rabbit isotype of equivalent concentration was used as a control to show no non-specific fluorescence.

Figure S10

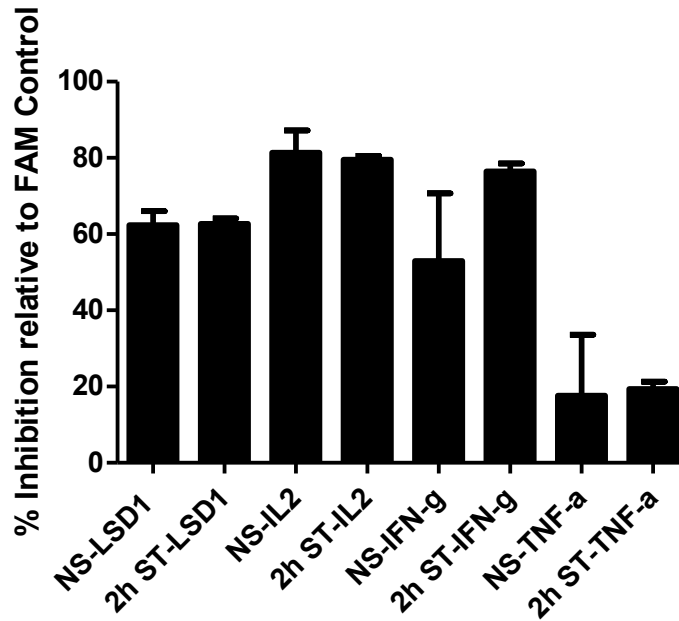


Figure S10. LSD1 is Essential for Inducible Gene Transcription in T cells

Jurkat T cells were transfected with 30 nM LSD1 siRNA (sc-60970) or a negative control siRNA (Mock). At 48 hr post-transfection, Jurkat T cells were either left untreated (NS) or stimulated with PI for 2 hr (ST). Total RNA was extracted and TaqMan real-time PCR performed for *LSD1*, *IL-2*, *IFN- γ* and *TNF- α* . Results are plotted as percentage inhibition relative to corresponding FAM control.

Figure S11

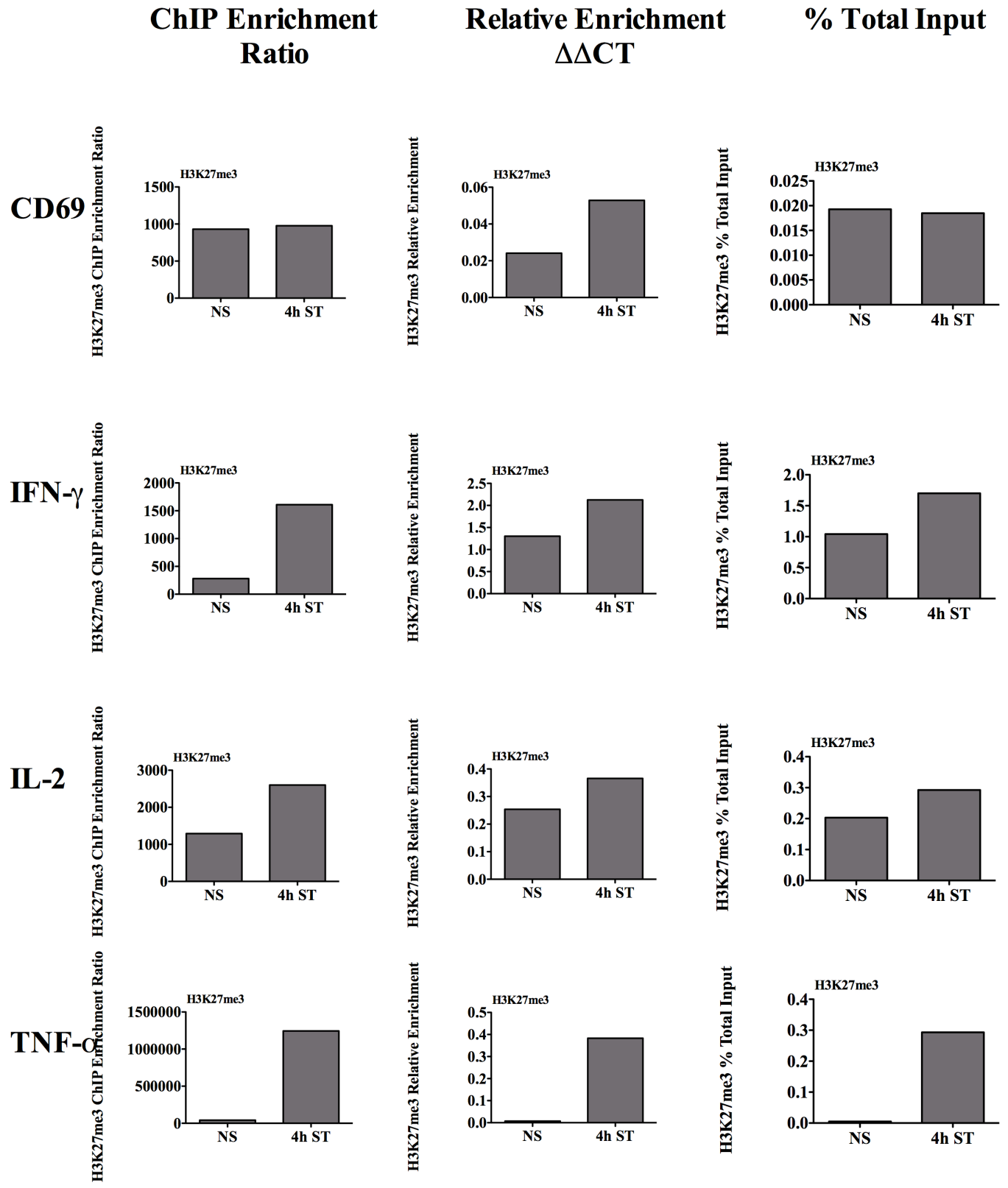


Figure S11. ChIP Analysis Comparison For H3K27me3

ChIP assays were carried out on Jurkat T cells either non-stimulated (NS) or stimulated with PMA/CaI for 4 hours (4h ST). Real-time PCR analysis was performed on immunoprecipitated DNA recovered with the anti-H3K27me3 antibody (Abcam, ab6002) using primers covering the proximal promoter of *CD69*, *IFN-g*, *IL-2* and *TNF-a*. ChIP data were analysed by 3 different methods: 1) For ChIP enrichment ratio, Ct values were converted to arbitrary copies and data graphed as the fold enrichment ratio of immunoprecipitated DNA relative to the no antibody control and normalised against the total input DNA. 2) Relative enrichment was calculated using the $\Delta\Delta\text{Ct}$ method. 3) Percentage total input involved subtraction of the no antibody control from the H3K27me3 samples and the data graphed by converting this value into a percentage out of the total genomic input DNA for each respective sample.

Table S1**Table S1 Genes in Resting and Activated Jurkat T cells with Bound Heparanase that also Carry RNA Polymerase II**

Data based on a ChIP-on-chip assay performed on resting (NS) and 12 hr PI activated (ST) Jurkat T cells using heparanase and Pol II specific antibodies.

		Binding region	Promoter			5'-transcribed region			3'-transcribed region		
			NS	NS & ST	ST	NS	NS & ST	ST	NS	NS & ST	ST
R>2 (6182)	heparanase	644	1387	469	969	1961	691	18	35	8	
	Pol II & heparanase	344 (53%)	1087 (78%)	169 (36%)	506 (52%)	1518 (77%)	228 (33%)	12 (67%)	24 (69%)	5 (63%)	
R>3 (3875)	heparanase	72	1154	356	100	1636	523	1	27	6	
	Pol II & heparanase	51 (71%)	928 (80%)	140 (39%)	60 (60%)	1297 (79%)	176 (34%)	1 (100%)	20 (74%)	3 (50%)	
R>5 (622)	heparanase	0	223	59	1	276	61	0	2	0	
	Pol II & heparanase	0 (N/A)	186 (83%)	21 (36%)	1 (100%)	229 (83%)	18 (30%)	0 (N/A)	1 (50%)	0 (N/A)	

(Values in brackets represent % of genes with bound heparanase that also carry bound Pol II)

N/A = not applicable

Table S2 ChIP-on-chip raw data showing the list of genes for each subgroup used to generate the Venn diagrams depicted in Figure 4A

HPSE- bound genes (promoter region)**NS subset (72 genes)**

Gene	Rank (Hep-N	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
BCL9	26	chr1	145474528	145482321	0.0083724	chr1:145478	0.0083724
RIOK2	80	chr5	96542285	96549740	0.01063179	chr5:096545	0.01063179
SLC12A3	100	chr16	55450071	55458963	0.01101466	chr16:05545	0.01101466
CST11	122	chr20	23379225	23386897	0.01155636	chr20:02338	0.01155636
HIST1H4D	328	chr6	26295209	26305006	0.01527961	chr6:026297	0.01527961
TNP2	396	chr16	11268464	11274594	0.01615194	chr16:01127	0.01615194
hsa-mir-365-	400	chr16	14305449	14312737	0.01618193	chr16:01430	0.01618193
TGM5	404	chr15	41344383	41350712	0.01619097	chr15:04135	0.01619097
COPA	483	chr1	158580130	158585586	0.01702716	chr1:158585	0.01702716
BTBD16	527	chr10	124015825	124022272	0.01742544	chr10:12401	0.01742544
HPX	625	chr11	6416244	6423836	0.0184473	chr11:00642	0.0184473
CRADD	678	chr12	92590704	92598143	0.01894699	chr12:09259	0.01894699
RSU1	737	chr10	16896591	16902586	0.01938508	chr10:01689	0.01938508
hsa-mir-142	859	chr17	53763604	53769081	0.02036659	chr17:05376	0.02036659
IFNE1	874	chr9	21469499	21473246	0.02050666	chr9:021472	0.02050666
IRF3	918	chr19	54860238	54868994	0.02088004	chr19:05486	0.02088004
BPGM	1003	chr7	133976677	133984607	0.02145829	chr7:133981	0.02145829
USPL1	1016	chr13	30084472	30092320	0.02153029	chr13:03008	0.02153029
SLC9A3R2	1118	chr16	2011849	2019360	0.02223858	chr16:00201	0.02223858
MYADM	1152	chr19	59059318	59066799	0.02247581	chr19:05906	0.02247581
MRPL11	1179	chr11	65960354	65963752	0.02261877	chr11:06596	0.02261877
C22orf36-GC	1195	chr22	23319187	23327336	0.0227134	chr22:02331	0.0227134
SSBP4	1265	chr19	18385855	18393619	0.02313938	chr19:01838	0.02313938
WNT8A	1489	chr5	137442071	137449093	0.02464208	chr5:137447	0.02464208
RNF186	1503	chr1	20012002	20019348	0.02476322	chr1:020015	0.02476322
FGF23	1562	chr12	4356663	4364489	0.02511217	chr12:00436	0.02511217
FLJ35767	1593	chr17	77905092	77912899	0.0253151	chr17:07790	0.0253151
KIAA1737	1632	chr14	76629318	76636258	0.02549416	chr14:07663	0.02549416
C20orf144	1687	chr20	31708624	31715370	0.02584901	chr20:03170	0.02584901
ANKRD2	1717	chr10	99321126	99333574	0.02605302	chr10:09932	0.02605302
PISD	1773	chr22	30354478	30362290	0.02632949	chr22:03035	0.02632949
SLC28A1	1803	chr15	83223681	83231172	0.02651064	chr15:08322	0.02651064
C14orf124	1827	chr14	23979222	23982176	0.02663443	chr14:02398	0.02663443
NHP2L1	1924	chr22	40406211	40414829	0.02717942	chr22:04041	0.02717942
C14orf159	2013	chr14	90645088	90652318	0.02765591	chr14:09065	0.02765591
PRIC285	2054	chr20	61667184	61675355	0.0278935	chr20:06167	0.0278935
RAB11FIP1	2141	chr8	37873730	37881597	0.02835216	chr8:037880	0.02835216
PWWP2	2244	chr10	134055349	134063105	0.02891875	chr10:13405	0.02891875
LCP1	2315	chr13	45651978	45657698	0.02939461	chr13:04565	0.02939461
SEMA4D	2340	chr9	91282126	91289928	0.02951147	chr9:091285	0.02951147
CECR5	2429	chr22	16018491	16030117	0.03007393	chr22:01602	0.03007393
PDCD10-SE	2562	chr3	168935525	168936167	0.03082651	chr3:168935	0.03082651
SYT8	2793	chr11	1806120	1815337	0.03194716	chr11:00180	0.03194716
AIFM1-RAB	2857	chrX	129127527	129133244	0.03239793	chrX:129132	0.03239793
SMEK2	2945	chr2	55695588	55703882	0.03281718	chr2:055699	0.03281718
WDR68	2967	chr17	58980753	58984037	0.03292285	chr17:05898	0.03292285
EPHB3	3046	chr3	185757105	185764831	0.0332505	chr3:185757	0.0332505
KLF16	3132	chr19	1803385	1819194	0.03364423	chr19:00181	0.03364423
LCN12	3179	chr9	138961219	138968992	0.03395174	chr9:138963	0.03395174
HELZ	3283	chr17	62669303	62675309	0.03446858	chr17:06267	0.03446858
LOC51057-N	3301	chr2	63669343	63669497	0.03453812	chr2:063669	0.03453812
C17orf61-NI	3426	chr17	7248233	7252087	0.03515438	chr17:00725	0.03515438
LASS4	3524	chr19	8175856	8182211	0.03570452	chr19:00817	0.03570452
WFIKKN1	3589	chr16	619481	624135	0.03603623	chr16:00062	0.03603623
IFT88	3833	chr13	20033365	20041219	0.03722604	chr13:02003	0.03722604

BRPF1	3851	chr3	9746715	9764698	0.03729898	chr3:0097482	0.03729898
GOLGA2	3910	chr9	130075982	130083058	0.03768074	chr9:1300822	0.03768074
TFAM	4290	chr10	59809771	59817322	0.03980244	chr10:059812	0.03980244
ZAK	4338	chr2	173643921	173651316	0.04003086	chr2:1736482	0.04003086
CXorf2-TKT	4446	chrX	153176646	153177204	0.04066329	chrX:153177	0.04066329
NLRC3	4668	chr16	3565418	3571123	0.04186397	chr16:003562	0.04186397
BLR1	4686	chr11	118254785	118262354	0.04196502	chr11:118252	0.04196502
C14orf133-A	4766	chr14	76993687	76994063	0.04243067	chr14:076992	0.04243067
ARNTL	4886	chr11	13251031	13258380	0.0431609	chr11:013252	0.0431609
IL27	4902	chr16	28424058	28431137	0.04328856	chr16:028422	0.04328856
hsa-mir-496	4936	chr14	100596166	100596726	0.04353422	chr14:100592	0.04353422
U72	4965	chr8	99124472	99126855	0.04367235	chr8:0991262	0.04367235
FLJ35695	4978	chr15	36770728	36778629	0.04375532	chr15:036772	0.04375532
IFNGR2	5012	chr21	33691902	33699450	0.043939	chr21:033692	0.043939
PRKAB1	5088	chr12	118585037	118592956	0.04439942	chr12:118592	0.04439942
CDC6	5154	chr17	35692270	35700095	0.04473573	chr17:035692	0.04473573
NLGN1	5548	chr3	174593547	174807580	0.04718573	chr3:1745982	0.04718573

HPSE- bound genes (promoter region)

NS and ST subset (1154 genes)

Gene	Rank (Hep-2)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
NKX6-3	1	chr8	41621848	41629546	0.010509	chr8:041622	0.010509
NTNG2	3	chr9	134026617	134034414	0.0121243	chr9:134022	0.0121243
CDKN2A	4	chr9	21962817	21989381	0.0129204	chr9:021962	0.0129204
BOC	5	chr3	114407646	114416477	0.0130521	chr3:114412	0.0130521
CHD5	6	chr1	6160776	6167589	0.0135994	chr1:006162	0.0135994
CBLL1	7	chr7	107167982	107174249	0.01388	chr7:107172	0.01388
GPR125	9	chr4	22124713	22128741	0.0141147	chr4:022122	0.0141147
RFWD2	16	chr1	174440056	174447809	0.0148764	chr1:174442	0.0148764
PCDHAC1	20	chr5	140281111	140289119	0.015095	chr5:140282	0.015095
RRAGD	23	chr6	90175942	90183958	0.0153406	chr6:090172	0.0153406
CCDC128	26	chr2	48516472	48524055	0.0155736	chr2:048522	0.0155736
RPL7-RDH	28	chr8	74368477	74369875	0.015742	chr8:074362	0.015742
SHOX2	30	chr3	159304262	159306480	0.0158168	chr3:159302	0.0158168
IQCC	33	chr1	32443748	32446347	0.015944	chr1:032442	0.015944
FOXF2	34	chr6	1329705	1337620	0.0159659	chr6:001332	0.0159659
JARID2	35	chr6	15349425	15356984	0.015966	chr6:015352	0.015966
C9orf58	38	chr9	132958448	132988208	0.0162209	chr9:132952	0.0162209
PRR3	39	chr6	30627214	30633000	0.0162888	chr6:030632	0.0162888
GTF3C4	42	chr9	134530509	134535548	0.0165883	chr9:134532	0.0165883
FNBP1	43	chr9	131843296	131845665	0.0167271	chr9:131842	0.0167271
WDR53	49	chr3	197778102	197785097	0.0171095	chr3:197782	0.0171095
CENTB2	55	chr3	196642611	196650517	0.0174189	chr3:196642	0.0174189
RHPN1	59	chr8	144517099	144527555	0.0174686	chr8:144522	0.0174686
hsa-mir-9-1	61	chr1	154656981	154665821	0.0176183	chr1:154652	0.0176183
FNDC3B	67	chr3	173236194	173242875	0.0179523	chr3:173242	0.0179523
IFNA6	70	chr9	21338391	21343948	0.0180107	chr9:021342	0.0180107
MET	74	chr7	116094467	116102152	0.0180291	chr7:116092	0.0180291
IL17B	81	chr5	148736516	148744478	0.0182832	chr5:148732	0.0182832
AUTS2	82	chr7	68696413	68705078	0.0183194	chr7:068702	0.0183194
ARHGAP26	84	chr5	142125627	142132970	0.0184161	chr5:142132	0.0184161
GNAI2	87	chr3	50238692	50251219	0.0184984	chr3:050232	0.0184984
NR4A3	88	chr9	101618597	101631350	0.0185336	chr9:101622	0.0185336
HES5	89	chr1	2450104	2456990	0.0185461	chr1:002452	0.0185461
WDR55	90	chr5	140022201	140027097	0.0186118	chr5:140022	0.0186118
C7orf20	96	chr7	881145	885329	0.0187747	chr7:000882	0.0187747
GDNF	97	chr5	37868206	37880609	0.0187798	chr5:037872	0.0187798
NSD1	100	chr5	176487932	176497246	0.018834	chr5:176492	0.018834

KATNB1	104 chr16	56324907	56331110	0.0189696	chr16:05632	0.0189696
ADORA3	107 chr1	111845122	111853720	0.0190575	chr1:111852	0.0190575
IRX1	112 chr5	3643785	3651652	0.019195	chr5:00364	0.019195
hsa-mir-183	114 chr7	129202017	129207605	0.0192376	chr7:12920	0.0192376
ACOT7	115 chr1	6246935	6380279	0.0192934	chr1:00637	0.0192934
DGKI	116 chr7	137179622	137187315	0.0193191	chr7:13718	0.0193191
ZBTB47	118 chr3	42670358	42678207	0.0193701	chr3:04267	0.0193701
RAP1GDS1	119 chr4	99396317	99404170	0.0193915	chr4:09940	0.0193915
FSTL5	122 chr4	163302316	163310043	0.0194305	chr4:16330	0.0194305
ORC4L	124 chr2	148493118	148500493	0.0194808	chr2:14849	0.0194808
FAM78A-PF	125 chr9	133145164	133150435	0.0195028	chr9:13314	0.0195028
PPP1R16A	126 chr8	145688366	145698305	0.0195629	chr8:14569	0.0195629
AK5	127 chr1	77514860	77523188	0.0196541	chr1:07752	0.0196541
BRP44-IQW	130 chr1	166171964	166172459	0.019791	chr1:16617	0.019791
EN1	132 chr2	119319871	119327626	0.0198391	chr2:11932	0.0198391
CDK6	133 chr7	92298051	92306286	0.0198914	chr7:09230	0.0198914
TRAF1	134 chr9	122725888	122734325	0.0198956	chr9:12273	0.0198956
POU4F2	140 chr4	147774034	147782024	0.0201053	chr4:14777	0.0201053
HPCAL4	142 chr1	39927235	39935057	0.0201494	chr1:03993	0.0201494
TIGD6	143 chr5	149358265	149365892	0.0201552	chr5:14936	0.0201552
CDC20B	145 chr5	54499874	54509345	0.0202253	chr5:05450	0.0202253
C3orf37	148 chr3	130479549	130482434	0.0203266	chr3:13048	0.0203266
hsa-mir-191	149 chr3	49033075	49033388	0.0203358	chr3:04903	0.0203358
NPAS2	150 chr2	100797754	100890106	0.0203557	chr2:10080	0.0203557
WASL	151 chr7	123173808	123180818	0.0203891	chr7:12317	0.0203891
TLX3	152 chr5	170663426	170671352	0.0203974	chr5:17066	0.0203974
INPP1	155 chr2	190912862	190935549	0.0204089	chr2:19091	0.0204089
KIAA1529	160 chr9	99037149	99041099	0.0205327	chr9:09904	0.0205327
WNT10A	165 chr2	219449290	219456401	0.0207381	chr2:21945	0.0207381
PAP2D	169 chr1	99240436	99248282	0.0207872	chr1:09924	0.0207872
FOXP1	176 chr3	71713510	71721352	0.021005	chr3:07171	0.021005
HNRPA2B1	178 chr7	26206937	26207413	0.0210199	chr7:02620	0.0210199
hsa-mir-26b	182 chr2	218973058	218975676	0.0210799	chr2:21897	0.0210799
PTPN7	183 chr1	200382928	200402549	0.0210878	chr1:20040	0.0210878
MXD4	188 chr4	2219094	2239039	0.0211599	chr4:00223	0.0211599
SLC2A8	189 chr9	129195834	129201623	0.0211943	chr9:12919	0.0211943
HIP1	191 chr7	75203930	75211654	0.0212067	chr7:07520	0.0212067
GRIN1	193 chr9	139150207	139182893	0.0212242	chr9:13915	0.0212242
IRF5	195 chr7	128359964	128367934	0.0213019	chr7:12836	0.0213019
SLC1A1	199 chr9	4477626	4483166	0.0213524	chr9:00448	0.0213524
GABRA4	200 chr4	46688334	46695819	0.0214043	chr4:04669	0.0214043
VGF	209 chr7	100592498	100600494	0.0216518	chr7:10059	0.0216518
EPHA4	213 chr2	222142699	222150750	0.0216801	chr2:22214	0.0216801
CAV3	215 chr3	8744974	8752806	0.0217016	chr3:00875	0.0217016
SALL1	218 chr16	49740247	49748161	0.0217332	chr16:0497	0.0217332
STK19	221 chr6	32045556	32047476	0.021765	chr6:03204	0.021765
TPM3	223 chr1	152420235	152436473	0.0217764	chr1:15243	0.0217764
CACNA2D1	227 chr7	81908418	81916432	0.0218375	chr7:08191	0.0218375
FLJ44006-E	228 chr2	111592414	111594751	0.0218436	chr2:11159	0.0218436
NHLH1	231 chr1	158598313	158605306	0.0219468	chr1:15860	0.0219468
CLK2-HCN3	233 chr1	153509906	153513992	0.0219532	chr1:15351	0.0219532
B3GNT5	236 chr3	184448408	184456816	0.0219631	chr3:18445	0.0219631
ACAD11-UE	240 chr3	133861676	133861837	0.0220698	chr3:13386	0.0220698
SMAD1	243 chr4	146620440	146625588	0.022092	chr4:14662	0.022092
QRICH1	246 chr3	49104015	49108281	0.0221591	chr3:04910	0.0221591
PAX5	254 chr9	37021569	37029849	0.0222836	chr9:03702	0.0222836
BCAN	255 chr1	154874454	154881044	0.0223047	chr1:15487	0.0223047
RBM24	260 chr6	17385450	17393504	0.0223839	chr6:01738	0.0223839

UCN	261 chr2	27383753	27385341	0.0223955	chr2:027384	0.0223955
DUSP4	266 chr8	29259973	29269512	0.0225262	chr8:029266	0.0225262
ACTRT2	267 chr1	2922439	2930271	0.0225394	chr1:002922	0.0225394
IL12A	269 chr3	161184401	161191815	0.0225618	chr3:161188	0.0225618
ABCB4	271 chr7	86941062	86948414	0.0225671	chr7:086943	0.0225671
KLF9	272 chr9	72215686	72224882	0.022573	chr9:072224	0.022573
DDX41	274 chr5	176871201	176881919	0.022619	chr5:176876	0.022619
CDC20	277 chr1	43592810	43599989	0.0226574	chr1:043596	0.0226574
VAV2	280 chr9	135844705	135852525	0.0227044	chr9:135848	0.0227044
PTHR2	281 chr2	208974370	208982406	0.0227105	chr2:208979	0.0227105
CLSTN1	282 chr1	9804127	9808456	0.0227239	chr1:009807	0.0227239
DDIT4L	283 chr4	101328247	101335011	0.0227817	chr4:101330	0.0227817
FGD3	285 chr9	94771100	94779000	0.0228123	chr9:094777	0.0228123
MTAP	290 chr9	21787558	21795236	0.0228832	chr9:021790	0.0228832
YWHAG	291 chr7	75823582	75831693	0.0228977	chr7:075826	0.0228977
GPC1	292 chr2	241018393	241046572	0.0229095	chr2:241022	0.0229095
PREP	295 chr6	105955040	105963189	0.0229262	chr6:105957	0.0229262
CXCR3	296 chrX	70752514	70760534	0.0229322	chrX:070751	0.0229322
OGG1	297 chr3	9764769	9769369	0.0229448	chr3:009766	0.0229448
STC2	301 chr5	172685507	172693220	0.0230142	chr5:172697	0.0230142
PCDH7	306 chr4	30325765	30333629	0.0231396	chr4:030329	0.0231396
C7orf23	307 chr7	86684458	86692484	0.0231477	chr7:086688	0.0231477
GGN-SPRE	309 chr19	43570653	43572752	0.0231519	chr19:04357	0.0231519
JMJD2A	310 chr1	43883477	43943725	0.0231578	chr1:043888	0.0231578
HSPA9	313 chr5	137936402	137944495	0.023225	chr5:137936	0.023225
SERP1-EIF	315 chr3	151747178	151747222	0.0232448	chr3:151747	0.0232448
PFKFB4	317 chr3	48566977	48574105	0.0232589	chr3:048566	0.0232589
CPLX1	321 chr4	807462	815393	0.023307	chr4:000811	0.023307
YARS	323 chr1	33056214	33061859	0.0233286	chr1:033056	0.0233286
FLJ35530	325 chr1	176773117	176781032	0.0233508	chr1:176778	0.0233508
DDR1	326 chr6	30954540	30966993	0.0233658	chr6:030958	0.0233658
SOHLH1-KC	327 chr9	137731251	137733878	0.0233822	chr9:137733	0.0233822
EIF2AK3	328 chr2	88705846	88712132	0.0233842	chr2:088708	0.0233842
MEST	331 chr7	129907836	129925614	0.0234157	chr7:129918	0.0234157
PTP4A2	336 chr1	32155125	32180993	0.0234421	chr1:032176	0.0234421
MAG	339 chr19	40470076	40477136	0.0235008	chr19:04047	0.0235008
AQP3	341 chr9	33435370	33443007	0.023524	chr9:033442	0.023524
PDZRN3	343 chr3	73755465	73761775	0.0235395	chr3:073756	0.0235395
EPHA1	345 chr7	142814057	142820442	0.0235563	chr7:142816	0.0235563
SEMA3B	347 chr3	50276084	50289586	0.0236015	chr3:050278	0.0236015
CXCR4	354 chr2	136587636	136597329	0.0236563	chr2:136592	0.0236563
LMBR1	358 chr7	156377435	156382804	0.023705	chr7:156378	0.023705
LHX4	360 chr1	178460772	178468682	0.0237104	chr1:178464	0.0237104
ATP6V1G1	362 chr9	116385547	116392014	0.023746	chr9:116389	0.023746
GRPEL1	363 chr4	7118413	7126109	0.0237717	chr4:007122	0.0237717
IRX4	366 chr5	1933359	1941352	0.0237957	chr5:001936	0.0237957
CAP1	370 chr1	40273606	40281383	0.0238499	chr1:040278	0.0238499
NCOA2	372 chr8	71475532	71482796	0.0238625	chr8:071478	0.0238625
PCBP4	373 chr3	51966660	51977594	0.0238701	chr3:051974	0.0238701
DOLPP1	374 chr9	130878224	130885430	0.0238759	chr9:130882	0.0238759
OLIG3	378 chr6	137854555	137862683	0.0238982	chr6:137860	0.0238982
SPP1	380 chr4	89110341	89118198	0.0239053	chr4:089111	0.0239053
ATXN7L2	381 chr1	109826335	109836675	0.0239079	chr1:109827	0.0239079
MLLT3	388 chr9	20609815	20617918	0.0239368	chr9:020611	0.0239368
ZNF76	390 chr6	35333407	35371689	0.0239396	chr6:035333	0.0239396
STRN	393 chr2	37044751	37051179	0.0239641	chr2:037047	0.0239641
TICAM2	394 chr5	114989687	114995059	0.0239737	chr5:114989	0.0239737
DGKD	395 chr2	233922380	233930290	0.0240392	chr2:233922	0.0240392

BCL11A	403 chr2	60631441	60639618	0.0241361	chr2:060631	0.0241361
RAB1A	404 chr2	65208732	65215690	0.0241668	chr2:065211	0.0241668
NKX6-1	413 chr4	85635987	85643900	0.0243677	chr4:085640	0.0243677
YTHDF3	415 chr8	64238844	64246224	0.0244045	chr8:064241	0.0244045
CNTN2	417 chr1	203273560	203281360	0.0244447	chr1:203271	0.0244447
TACR1	421 chr2	75277135	75283259	0.0244669	chr2:075280	0.0244669
CCIN	422 chr9	36153921	36161884	0.0244697	chr9:036151	0.0244697
LOC253012	426 chr7	92694148	92699541	0.0244863	chr7:092691	0.0244863
VLDLR	427 chr9	2606300	2614584	0.024489	chr9:002611	0.024489
PTCHD1	429 chrX	23256567	23265464	0.0244921	chrX:023261	0.0244921
SLC10A6	431 chr4	87987127	87993404	0.0245195	chr4:087981	0.0245195
PPT2	432 chr6	32229349	32239429	0.0245365	chr6:032221	0.0245365
DLL1	433 chr6	170438814	170446929	0.0245383	chr6:170441	0.0245383
PASK-PPP1	434 chr2	241737643	241738586	0.0245407	chr2:241731	0.0245407
SMC2	436 chr9	105891088	105898457	0.0245743	chr9:105891	0.0245743
C6orf118	439 chr6	165640596	165647741	0.0245982	chr6:165641	0.0245982
WDR86	442 chr7	150735332	150741646	0.0246347	chr7:150731	0.0246347
ZNF367	443 chr9	98190119	98225919	0.0246377	chr9:098221	0.0246377
SLC38A3	448 chr3	50213447	50238611	0.024707	chr3:050211	0.024707
CENTB5-PL	449 chr1	1228614	1233777	0.0247196	chr1:001230	0.0247196
AGPAT1-RM	450 chr6	32253905	32254155	0.024723	chr6:032251	0.024723
CARD9	452 chr9	138385432	138389762	0.0247633	chr9:138381	0.0247633
C13orf27	458 chr13	102221663	102228942	0.0248345	chr13:10221	0.0248345
DENND2D	459 chr1	111542135	111549824	0.0248427	chr1:111541	0.0248427
GENX-3414	461 chr4	77441948	77449431	0.0248647	chr4:077441	0.0248647
PFKFB3	462 chr10	6279514	6287259	0.0248786	chr10:00621	0.0248786
EDN1	463 chr6	12393583	12401089	0.0248837	chr6:012391	0.0248837
GPATCH4	467 chr1	154835492	154840459	0.0249308	chr1:154831	0.0249308
PTPN18	469 chr2	130820778	130832496	0.0249565	chr2:130821	0.0249565
REEP5	472 chr5	112283696	112291312	0.0249956	chr5:112281	0.0249956
SIX3	473 chr2	45016844	45025237	0.025005	chr2:045021	0.025005
LZIC-NMNA	477 chr1	9925430	9925920	0.0250481	chr1:009921	0.0250481
MAD2L2-C1	478 chr1	11665135	11673715	0.025059	chr1:011671	0.025059
MAG1	479 chr4	84671252	84679009	0.0250766	chr4:084671	0.0250766
GPR37L1	481 chr1	200354497	200360633	0.0250907	chr1:200351	0.0250907
NFU1	482 chr2	69516126	69521743	0.0250948	chr2:069511	0.0250948
TBCC	483 chr6	42820225	42827881	0.0251129	chr6:042821	0.0251129
ACCN3	489 chr7	150373583	150379342	0.0252414	chr7:150371	0.0252414
C2orf52	495 chr2	232084090	232092704	0.0252964	chr2:232081	0.0252964
QKI	496 chr6	163750193	163758716	0.0252979	chr6:163751	0.0252979
GPSM3	497 chr6	32266519	32274351	0.0253057	chr6:032271	0.0253057
C5orf5	498 chr5	137394123	137402161	0.0253069	chr5:137391	0.0253069
GUP1	501 chr3	42714888	42723250	0.0253468	chr3:042721	0.0253468
PEX13	502 chr2	61092874	61098711	0.0253697	chr2:061091	0.0253697
DAXX	503 chr6	33394578	33399914	0.0253818	chr6:033391	0.0253818
DNAJB5	511 chr9	34974372	34982228	0.0254466	chr9:034971	0.0254466
ARRDC1	513 chr9	139616290	139622180	0.0254631	chr9:139611	0.0254631
KCNS3	516 chr2	17918108	17925900	0.0254803	chr2:017921	0.0254803
ATP6V0B	520 chr1	44211607	44216577	0.0255892	chr1:044211	0.0255892
RHOH	522 chr4	39869807	39877569	0.025615	chr4:039871	0.025615
RAMP1	525 chr2	238428661	238435583	0.0256269	chr2:238431	0.0256269
hsa-mir-135	528 chr1	203681669	203689554	0.0257252	chr1:203681	0.0257252
BCL6	529 chr3	188935100	188951646	0.0257387	chr3:188941	0.0257387
RAD52	530 chr12	928625	934539	0.0257428	chr12:00091	0.0257428
EYA3	532 chr1	28285253	28293054	0.0257611	chr1:028281	0.0257611
CCK	534 chr3	42277697	42286838	0.0257673	chr3:042281	0.0257673
BARHL2	541 chr1	90952955	90960819	0.0258815	chr1:090951	0.0258815
TRAIIP	542 chr3	49868213	49870295	0.0258872	chr3:049861	0.0258872

TNNT2	546	chr1	199611036	199616604	0.0259228	chr1:199616	0.0259228
FBXO32	547	chr8	124619959	124628142	0.0259312	chr8:124622	0.0259312
STK11	548	chr19	1154464	1160130	0.0259406	chr19:00115	0.0259406
LRRC4	551	chr7	127455630	127463619	0.0259891	chr7:127455	0.0259891
MTA3	556	chr2	42645014	42651099	0.026025	chr2:042645	0.026025
NUP210	558	chr3	13434420	13441860	0.0260282	chr3:013434	0.0260282
D4S234E	561	chr4	4434346	4442396	0.0260482	chr4:004434	0.0260482
TNFAIP8	562	chr5	118714137	118722086	0.0260512	chr5:118714	0.0260512
ZMIZ2	565	chr7	44756805	44764269	0.026083	chr7:044756	0.026083
COL27A1	566	chr9	115952688	115960507	0.0260947	chr9:115956	0.0260947
HNRPK-RM	567	chr9	85785392	85785436	0.0261113	chr9:085785	0.0261113
DUSP2	568	chr2	96172645	96180237	0.0261204	chr2:096172	0.0261204
CRMP1	569	chr4	5938876	5951007	0.0261222	chr4:005942	0.0261222
GRIK3	570	chr1	37269815	37277514	0.0261297	chr1:037272	0.0261297
ZBTB8OS-F	582	chr1	32888815	32889311	0.0262467	chr1:032888	0.0262467
IRX5	584	chr16	53517129	53525100	0.0262672	chr16:05352	0.0262672
KCTD17	586	chr22	35772056	35780226	0.026283	chr22:03577	0.026283
ATF2	588	chr2	175739215	175746660	0.0262898	chr2:175746	0.0262898
FZD9	589	chr7	72480934	72488755	0.0262901	chr7:072482	0.0262901
TNXB	590	chr6	32119533	32190563	0.026291	chr6:032122	0.026291
CAMK2A	592	chr5	149647122	149654978	0.0263208	chr5:149654	0.0263208
ST6GALNA	594	chr1	76307640	76315346	0.0263384	chr1:076312	0.0263384
LRBA	600	chr4	152152917	152161334	0.0263771	chr4:152156	0.0263771
PRDM12	603	chr9	132524561	132532371	0.026391	chr9:132527	0.026391
TMEM150	605	chr2	85680835	85687309	0.0264175	chr2:085683	0.0264175
GLO1	606	chr6	38776467	38780595	0.0264213	chr6:038777	0.0264213
CD55	607	chr1	205556187	205564153	0.0264295	chr1:205566	0.0264295
ZCCHC9	610	chr5	80627853	80635712	0.0264438	chr5:080633	0.0264438
THRB	612	chr3	24509172	24516006	0.0264693	chr3:024511	0.0264693
ACO1	613	chr9	32369164	32377179	0.02647	chr9:032372	0.02647
RSPO3	619	chr6	127476799	127484480	0.0265149	chr6:127487	0.0265149
LMAN2-RG	622	chr5	176711233	176717465	0.0265412	chr5:176711	0.0265412
HOXD8	625	chr2	176697833	176705685	0.0265818	chr2:176697	0.0265818
HSPA1L-HS	627	chr6	31890798	31891006	0.026609	chr6:031890	0.026609
MCM2	628	chr3	128792006	128802332	0.0266208	chr3:128792	0.0266208
PGAM1	629	chr10	99170876	99178561	0.0266398	chr10:09917	0.0266398
CXCL3	635	chr4	75120874	75128728	0.0266956	chr4:075122	0.0266956
HAX1	637	chr1	152510065	152514225	0.026709	chr1:152511	0.026709
MANEAL	639	chr1	38027062	38035362	0.026723	chr1:038032	0.026723
GPX7	640	chr1	52837374	52842964	0.0267237	chr1:052840	0.0267237
HS6ST1	641	chr2	128790196	128798236	0.0267266	chr2:128792	0.0267266
CSNK1A1	642	chr5	148908736	148916671	0.0267272	chr5:148911	0.0267272
LY6H	644	chr8	144309998	144314595	0.0267516	chr8:144312	0.0267516
EXOSC4	649	chr8	145200401	145207479	0.02679	chr8:145205	0.02679
WDR41	653	chr5	76822111	76825409	0.0268437	chr5:076822	0.0268437
EMID2	657	chr7	100787656	100795377	0.0268664	chr7:100795	0.0268664
LCP2	658	chr5	169654831	169662904	0.0268726	chr5:169660	0.0268726
SLC25A10	660	chr17	77285089	77292333	0.0268936	chr17:07728	0.0268936
GPT	661	chr8	145698369	145703364	0.0268973	chr8:145699	0.0268973
AIM1L	674	chr1	26552976	26558481	0.0270509	chr1:026555	0.0270509
SPRY1	677	chr4	124532090	124542616	0.0270734	chr4:124532	0.0270734
PHF2	686	chr9	95375119	95381201	0.0271329	chr9:095377	0.0271329
FGR	688	chr1	27820635	27839481	0.0271617	chr1:027832	0.0271617
MXD3	689	chr5	176666803	176675228	0.0271685	chr5:176672	0.0271685
HSDL2	691	chr9	114179057	114183281	0.0271789	chr9:114181	0.0271789
HBM	693	chr16	150919	156753	0.027193	chr16:00015	0.027193
TREML4	695	chr6	41298691	41306495	0.0272008	chr6:041302	0.0272008
GULP1	696	chr2	188859436	188865605	0.0272009	chr2:188865	0.0272009

DKFZP686/	702 chr4	41054541	41237187	0.0272567	chr4:041051	0.0272567
FLJ43879	703 chr2	239497026	239517832	0.0272851	chr2:239514	0.0272851
IARS	709 chr9	94089621	94101179	0.0273525	chr9:094095	0.0273525
GLS	711 chr2	191448414	191456489	0.027365	chr2:191453	0.027365
HSPC049	713 chr7	134544393	134551106	0.0273841	chr7:134546	0.0273841
ITGB8	715 chr7	20332268	20340474	0.0273881	chr7:020336	0.0273881
MMEL1	716 chr1	2552498	2559059	0.0273905	chr1:002555	0.0273905
MGC33600	719 chr6	44371072	44374726	0.0274104	chr6:044374	0.0274104
C6orf167	720 chr6	97834685	97843262	0.0274272	chr6:097837	0.0274272
GALNT10	723 chr5	153545635	153553051	0.0274769	chr5:153549	0.0274769
MXI1	726 chr10	111951945	111978427	0.0274946	chr10:11195	0.0274946
STXBP5	731 chr6	147561292	147569872	0.0275041	chr6:147566	0.0275041
RGS12	732 chr4	3282163	3411458	0.0275045	chr4:003333	0.0275045
PPFIA4	735 chr1	201281462	201289968	0.0275468	chr1:201285	0.0275468
hsa-mir-31	737 chr9	21500014	21507509	0.0275852	chr9:021502	0.0275852
IMPDH2	738 chr3	49036461	49047287	0.0275868	chr3:049042	0.0275868
WNT7A	739 chr3	13893879	13902053	0.0276005	chr3:013897	0.0276005
TSNARE1	740 chr8	143479961	143487625	0.0276009	chr8:143483	0.0276009
BARX1	741 chr9	95755130	95762927	0.0276147	chr9:095757	0.0276147
PPP2R4	742 chr9	130913046	130917729	0.0276196	chr9:130913	0.0276196
ENO1	744 chr1	8858784	8866577	0.0276506	chr1:008867	0.0276506
ELL3	749 chr15	41853899	41857854	0.0277097	chr15:04185	0.0277097
PTGER4	755 chr5	40710590	40718169	0.0277733	chr5:040711	0.0277733
FUT10	760 chr8	33436049	33450473	0.0278203	chr8:033450	0.0278203
AMPD2	762 chr1	109964072	109967725	0.0278317	chr1:109964	0.0278317
LGI2	766 chr4	24638924	24646859	0.0279163	chr4:024642	0.0279163
SORBS3	767 chr8	22459925	22488965	0.0279166	chr8:022463	0.0279166
CNNM3	772 chr2	96841459	96849085	0.0279553	chr2:096845	0.0279553
SLC30A3	773 chr2	27336823	27341804	0.0279569	chr2:027347	0.0279569
NDST1	774 chr5	149875536	149883101	0.0279742	chr5:149875	0.0279742
S100A14	775 chr1	151853399	151857917	0.0279764	chr1:151855	0.0279764
CRYBA2	776 chr2	219563253	219574155	0.0279789	chr2:219566	0.0279789
NR3C2	777 chr4	149575139	149588399	0.0279828	chr4:149585	0.0279828
GLB1	778 chr3	33113339	33118601	0.027988	chr3:033113	0.027988
BBS7	779 chr4	122965150	123016352	0.0279956	chr4:123011	0.0279956
FBXW11	780 chr5	171364023	171370174	0.0279979	chr5:171366	0.0279979
HOXA6	781 chr7	27151643	27159369	0.0280061	chr7:027154	0.0280061
SH3BP5L	785 chr1	247083287	247089084	0.0280276	chr1:247087	0.0280276
GLRA1	788 chr5	151281783	151289934	0.0280797	chr5:151284	0.0280797
CCDC18	790 chr1	93413399	93418502	0.0281132	chr1:093418	0.0281132
KCNC4	791 chr1	110550096	110558117	0.028114	chr1:110551	0.028114
hsa-mir-22	795 chr17	1563973	1566224	0.0281394	chr17:00156	0.0281394
SFRS3	805 chr6	36665106	36672411	0.0281804	chr6:036666	0.0281804
SLC25A32	807 chr8	104496259	104501927	0.0281872	chr8:104496	0.0281872
HR	812 chr8	22027934	22049163	0.0282494	chr8:022045	0.0282494
ZAR1	814 chr4	48185946	48189571	0.028265	chr4:048186	0.028265
TFAP2A	816 chr6	10517551	10528716	0.0282817	chr6:010520	0.0282817
LHX5	817 chr12	112391238	112399766	0.0282875	chr12:11239	0.0282875
RUNX3	818 chr1	25126484	25169637	0.0282903	chr1:025137	0.0282903
STEAP3	824 chr2	119692579	119700377	0.0283425	chr2:119697	0.0283425
SFRS7	827 chr2	38829585	38837482	0.0283656	chr2:038833	0.0283656
TSPAN17	829 chr5	176001808	176008946	0.0283793	chr5:176004	0.0283793
HES2-ESPT	832 chr1	6402641	6407432	0.0284027	chr1:006403	0.0284027
CGI-38	834 chr16	65980072	65985733	0.0284048	chr16:06598	0.0284048
PRKCZ	836 chr1	1966383	1974356	0.0284129	chr1:001977	0.0284129
C3orf22	837 chr3	127758062	127760737	0.0284168	chr3:127760	0.0284168
NPDC1	838 chr9	139057753	139062127	0.0284236	chr9:139062	0.0284236
IL3	839 chr5	131418886	131426827	0.0284385	chr5:131426	0.0284385

LHX3	841	chr9	138232230	138237921	0.0284628	chr9:138237	0.0284628
HIGD2A	842	chr5	175743540	175750669	0.0284727	chr5:175743	0.0284727
DSCR1L2	853	chr1	24696458	24704279	0.0285764	chr1:02470	0.0285764
RBPSUH	860	chr4	25927647	25934174	0.0286376	chr4:025930	0.0286376
ID2	861	chr2	8734202	8742237	0.028641	chr2:008736	0.028641
YTHDC1	869	chr4	68895617	68902743	0.0287171	chr4:068898	0.0287171
hsa-mir-130	871	chr22	20328561	20339293	0.0287342	chr22:02030	0.0287342
CHCHD5	879	chr2	113057306	113060380	0.0288279	chr2:113058	0.0288279
CASD1	880	chr7	93973164	93979790	0.0288337	chr7:093976	0.0288337
PFKP	881	chr10	3096351	3102174	0.0288388	chr10:00309	0.0288388
SHB	883	chr9	38056541	38064093	0.0288495	chr9:038059	0.0288495
LBXCOR1	884	chr15	65899562	65907655	0.02886	chr15:06590	0.02886
ACA36	885	chrX	153644412	153646868	0.028862	chrX:15364	0.028862
HOXA1	886	chr7	27099685	27106440	0.0288867	chr7:027102	0.0288867
CDC25A	890	chr3	48202370	48207656	0.0289031	chr3:048202	0.0289031
CYP26A1	892	chr10	94818426	94826580	0.0289374	chr10:09482	0.0289374
TCF7	898	chr5	133473021	133482019	0.0289561	chr5:133473	0.0289561
UBXD8	899	chr5	175803933	175810131	0.0289611	chr5:175803	0.0289611
DNTTIP2	900	chr1	94114833	94122471	0.0289646	chr1:094117	0.0289646
GSN	903	chr9	123064818	123104361	0.0289681	chr9:123097	0.0289681
GMPPA	906	chr2	220066559	220073536	0.0289948	chr2:220068	0.0289948
ADPRHL2	907	chr1	36326541	36329613	0.028995	chr1:036326	0.028995
CCNE1	908	chr19	34989239	34997901	0.0290026	chr19:03499	0.0290026
SMARCAL1	911	chr2	216979953	216990099	0.0290198	chr2:216988	0.0290198
PEX10	917	chr1	2331438	2339051	0.0290605	chr1:002332	0.0290605
NES	918	chr1	154911391	154919076	0.0290665	chr1:154911	0.0290665
C9orf128-C	921	chr9	35818778	35819167	0.0290884	chr9:035818	0.0290884
HOXA11	923	chr7	27187279	27196872	0.0291017	chr7:027192	0.0291017
CPZ	924	chr4	8640399	8647960	0.029102	chr4:008642	0.029102
C7orf27-IQ	927	chr7	2561669	2564657	0.0291118	chr7:002562	0.0291118
SAMD12	928	chr8	119701542	119708655	0.029127	chr8:119703	0.029127
P4HA2	930	chr5	131588176	131596327	0.0291288	chr5:131590	0.0291288
YWHAZ	931	chr8	102031038	102040188	0.0291498	chr8:102032	0.0291498
TRIP12-FB	933	chr2	230494941	230495407	0.0291751	chr2:230495	0.0291751
SHROOM1	935	chr5	132187335	132195353	0.0291799	chr5:132195	0.0291799
SGK	936	chr6	134535372	134542742	0.0291896	chr6:134535	0.0291896
STAT3	939	chr17	37792251	37798886	0.0291984	chr17:03779	0.0291984
TBC1D19	946	chr4	26189434	26195504	0.0292901	chr4:026192	0.0292901
UBQLN4-M	947	chr1	154290320	154291196	0.029298	chr1:15429	0.029298
TNRC4	949	chr1	149952721	149961400	0.029339	chr1:149955	0.029339
PCSK6	953	chr15	99844885	99852818	0.0293748	chr15:09985	0.0293748
C1orf90	955	chr1	32477525	32487070	0.0293968	chr1:032477	0.0293968
GRM4	958	chr6	34206920	34214870	0.0294367	chr6:034210	0.0294367
SFTP	959	chr2	85746551	85754343	0.029447	chr2:085745	0.029447
TBX20	960	chr7	35257312	35265271	0.0294635	chr7:035262	0.0294635
TMEM161B	966	chr5	87597895	87605154	0.0295579	chr5:087600	0.0295579
SLC16A2	971	chrX	73552308	73560439	0.0295889	chrX:073555	0.0295889
LFNG	972	chr7	2518509	2526453	0.0295911	chr7:002519	0.0295911
MTPN	974	chr7	135310129	135316678	0.0296206	chr7:135312	0.0296206
DOCK9	976	chr13	98534173	98541829	0.0296242	chr13:09853	0.0296242
HTR1A	977	chr5	63290850	63298796	0.0296339	chr5:063292	0.0296339
ZBTB7B	978	chr1	153243717	153256275	0.0296345	chr1:153248	0.0296345
DLG3	983	chrX	69578415	69584250	0.0296685	chrX:069583	0.0296685
ERGIC1	985	chr5	172188658	172266814	0.0296899	chr5:172262	0.0296899
ZNF678	988	chr1	225812689	225918037	0.0297109	chr1:225812	0.0297109
ST3GAL1	989	chr8	134651076	134657028	0.0297138	chr8:134652	0.0297138
RNF44-PCL	990	chr5	175899315	175907020	0.0297143	chr5:175907	0.0297143
CCDC21	1003	chr1	26427832	26477892	0.0297701	chr1:026432	0.0297701

MSL3L1	1004 chrX	11680783	11688810	0.0297828	chrX:011683	0.0297828
NRP1	1006 chr10	33661056	33669255	0.0297928	chr10:03366	0.0297928
SYPL1	1011 chr7	105537554	105543433	0.0298335	chr7:105540	0.0298335
PHPT1	1012 chr9	138861733	138865317	0.0298367	chr9:138862	0.0298367
PHC2	1013 chr1	33585481	33618387	0.0298372	chr1:033617	0.0298372
TINAGL1	1022 chr1	31809448	31817777	0.0299216	chr1:031814	0.0299216
FARSLA-C/	1026 chr19	12905597	12910320	0.0299623	chr19:01290	0.0299623
HOXA7	1027 chr7	27160181	27168252	0.0299688	chr7:027160	0.0299688
TIAL1	1029 chr10	121341027	121348641	0.0299751	chr10:12134	0.0299751
MGST3	1032 chr1	163861746	163887480	0.0300646	chr1:163860	0.0300646
SPOP	1042 chr17	45108455	45115188	0.0301295	chr17:04511	0.0301295
KCNA2	1043 chr1	110946731	110955384	0.030142	chr1:110952	0.030142
LIN28	1044 chr1	26604462	26626821	0.0301477	chr1:026600	0.0301477
UBE2J2-SC	1047 chr1	1199161	1207310	0.0301735	chr1:001199	0.0301735
HTRA4	1051 chr8	38945472	38953420	0.0302049	chr8:038940	0.0302049
ACCN4	1056 chr2	220081805	220111756	0.0302307	chr2:220080	0.0302307
NUP133	1059 chr1	227708297	227714644	0.0302477	chr1:227710	0.0302477
CLDN19	1061 chr1	42976249	42983889	0.0302649	chr1:042970	0.0302649
LOC401565	1066 chr9	139262223	139265508	0.030287	chr9:139262	0.030287
NXT1	1067 chr20	23274099	23281714	0.0302917	chr20:02327	0.0302917
RNGTT	1071 chr6	89729462	89732025	0.0303054	chr6:089730	0.0303054
TNK2	1076 chr3	197104498	197124860	0.0303217	chr3:197120	0.0303217
CKMT2	1082 chr5	80559422	80567305	0.0303829	chr5:080560	0.0303829
SPEN	1087 chr1	16041448	16049379	0.0304245	chr1:016040	0.0304245
DBT	1093 chr1	100486410	100492602	0.030478	chr1:100480	0.030478
SMC4	1097 chr3	161600206	161607694	0.0304945	chr3:161600	0.0304945
POPDC2	1104 chr3	120859696	120865728	0.0305344	chr3:120860	0.0305344
CDGAP	1106 chr3	120492349	120498330	0.0305458	chr3:120490	0.0305458
WNT9A	1107 chr1	226199880	226207698	0.0305534	chr1:226200	0.0305534
DRD1	1113 chr5	174800475	174808536	0.0306252	chr5:174800	0.0306252
hsa-mir-7-1	1115 chr9	85774581	85784514	0.0306453	chr9:085780	0.0306453
ACOT11	1116 chr1	54781044	54788719	0.0306608	chr1:054780	0.0306608
CD72	1117 chr9	35606011	35613535	0.0306643	chr9:035600	0.0306643
REEP4	1118 chr8	22052576	22060130	0.0306654	chr8:022050	0.0306654
LRRFIP2	1121 chr3	37188865	37197051	0.0306895	chr3:037190	0.0306895
OSBPL3	1123 chr7	24984163	24991722	0.0307027	chr7:024980	0.0307027
C1orf76	1127 chr1	177977826	177981341	0.0307185	chr1:177970	0.0307185
DISC1	1129 chr1	229823673	229831531	0.0307358	chr1:229820	0.0307358
INMT	1131 chr7	30753067	30760323	0.0307506	chr7:030750	0.0307506
GPR17	1132 chr2	128115002	128126676	0.0307537	chr2:128110	0.0307537
PCBP1	1134 chr2	70163770	70170849	0.0307586	chr2:070160	0.0307586
IPPK	1135 chr9	94469621	94477523	0.0307741	chr9:094470	0.0307741
APOBEC2	1136 chr6	41120225	41131343	0.0307989	chr6:041120	0.0307989
MFSD3	1138 chr8	145703542	145707324	0.0308162	chr8:145700	0.0308162
CALCA	1139 chr11	14947915	14955703	0.0308264	chr11:01490	0.0308264
HSD17B10	1143 chrX	53475554	53483296	0.0308485	chrX:053470	0.0308485
VSTM2	1144 chr7	54572772	54580325	0.0308535	chr7:054570	0.0308535
GPR124	1154 chr8	37768528	37776429	0.0309006	chr8:037770	0.0309006
GPR55	1160 chr2	231496174	231503247	0.0309217	chr2:231490	0.0309217
PNMA2	1161 chr8	26424857	26432849	0.0309517	chr8:026420	0.0309517
SPAG6	1169 chr10	22668955	22676858	0.0310126	chr10:02266	0.0310126
PLK3	1179 chr1	45036593	45044203	0.0310809	chr1:045030	0.0310809
LRRN1	1180 chr3	3811736	3819044	0.0310836	chr3:003810	0.0310836
CXXC5	1187 chr5	139002700	139010649	0.0311149	chr5:139000	0.0311149
MMD2	1191 chr7	4962993	4969890	0.0311317	chr7:004960	0.0311317
SNCA	1197 chr4	90974141	90982556	0.0311704	chr4:090970	0.0311704
SNAP23	1208 chr15	40569749	40575878	0.0312268	chr15:04050	0.0312268
GNB2L1	1209 chr5	180601099	180608950	0.0312403	chr5:180600	0.0312403

COL12A1	1210 chr6	75969821	75977280	0.0312464	chr6:075972	0.0312464
PLEC1	1216 chr8	145083274	145123215	0.0312614	chr8:145119	0.0312614
RET	1218 chr10	42887078	42895112	0.0312775	chr10:04289	0.0312775
NETO1	1223 chr18	68681471	68690910	0.0313231	chr18:06868	0.0313231
KLHL20	1224 chr1	171945711	171953841	0.0313235	chr1:171950	0.0313235
PDE6D-CO	1225 chr2	232354279	232359319	0.0313239	chr2:232359	0.0313239
SLC31A1	1231 chr9	115018404	115026138	0.0313614	chr9:115026	0.0313614
hsa-mir-149	1234 chr2	241038637	241044013	0.0313658	chr2:241044	0.0313658
DZIP1L	1235 chr3	139314965	139322407	0.0313672	chr3:139317	0.0313672
KPNA4	1237 chr3	161764205	161771154	0.031376	chr3:161766	0.031376
KCNIP4	1240 chr4	20490977	21563714	0.0313851	chr4:021559	0.0313851
CEBPZ-PR1	1241 chr2	37312235	37312279	0.0313976	chr2:037312	0.0313976
LRPAP1	1245 chr4	3501501	3505937	0.0314252	chr4:003504	0.0314252
LRIG2	1246 chr1	113412717	113419782	0.0314258	chr1:113417	0.0314258
SH2D3C	1250 chr9	129540534	129579973	0.0314798	chr9:129579	0.0314798
CD177	1253 chr19	48548243	48551509	0.0315019	chr19:04854	0.0315019
CHERP	1259 chr19	16512835	16519347	0.0315532	chr19:01651	0.0315532
ANKMY1-D	1265 chr2	241146178	241148103	0.0315846	chr2:241147	0.0315846
FAM36A	1266 chr1	243060417	243067931	0.0315937	chr1:243066	0.0315937
C8orf55	1267 chr8	143801747	143806960	0.0315953	chr8:143806	0.0315953
ARHGEF4	1272 chr2	131385186	131393146	0.0316156	chr2:131389	0.0316156
PDGFRB-C	1284 chr5	149517036	149525431	0.0316912	chr5:149521	0.0316912
SOX17	1292 chr8	55527789	55535760	0.0317087	chr8:055529	0.0317087
FIBCD1	1294 chr9	132801485	132809525	0.0317664	chr9:132808	0.0317664
RPIA	1297 chr2	88767770	88775005	0.0317916	chr2:088777	0.0317916
GPR61	1306 chr1	109878906	109889844	0.0318708	chr1:109879	0.0318708
CYP26C1	1308 chr10	94809646	94818306	0.0318809	chr10:09481	0.0318809
GPAA1	1311 chr8	145207543	145212066	0.0318913	chr8:145207	0.0318913
ZMYND19	1317 chr9	139596445	139607260	0.0319382	chr9:139607	0.0319382
ZNF131	1318 chr5	43156625	43164222	0.0319396	chr5:043156	0.0319396
SATB2-FLJ1	1327 chr2	200033461	200042755	0.0320406	chr2:200033	0.0320406
PXK	1330 chr3	58288439	58296249	0.032046	chr3:058289	0.032046
MAFB	1332 chr20	38748420	38756778	0.0320533	chr20:03874	0.0320533
ZNF770	1336 chr15	33065756	33072832	0.0320718	chr15:03306	0.0320718
DHRS3	1337 chr1	12597570	12605805	0.0320749	chr1:012602	0.0320749
SPIN1	1339 chr9	28888252	90195641	0.0320861	chr9:090192	0.0320861
FRMD1	1341 chr6	168220350	168228094	0.0320951	chr6:168226	0.0320951
LOC553158	1342 chr22	43479214	43489065	0.0320971	chr22:04348	0.0320971
FTSJ1	1344 chrX	48219495	48222743	0.0321132	chrX:048219	0.0321132
ARID1B	1345 chr6	157135589	157143285	0.0321135	chr6:157140	0.0321135
EIF2B5	1347 chr3	185330346	185338272	0.0321313	chr3:185333	0.0321313
hsa-mir-200	1348 chr1	1086861	1092425	0.0321339	chr1:001090	0.0321339
SUPT7L	1349 chr2	27740080	27745509	0.0321351	chr2:027740	0.0321351
PAFAH1B3	1352 chr19	47498103	47506821	0.032149	chr19:04749	0.032149
SNX5-C20c	1355 chr20	17897498	17897762	0.0321753	chr20:01789	0.0321753
PPP2R2C	1359 chr4	6432166	6528433	0.0322062	chr4:006521	0.0322062
RCL1	1360 chr9	4781986	4842459	0.0322077	chr9:004782	0.0322077
PROX1	1364 chr1	212223028	212230969	0.03222	chr1:212222	0.03222
TP53INP1	1366 chr8	96020696	96035461	0.0322271	chr8:096030	0.0322271
hsa-mir-589	1368 chr7	5505268	5511950	0.032254	chr7:005507	0.032254
INPP5B	1376 chr1	38183852	38190759	0.0323427	chr1:038183	0.0323427
U84	1377 chr6	31617054	31618188	0.0323433	chr6:031617	0.0323433
GPR78	1384 chr4	8627903	8640317	0.032411	chr4:008628	0.032411
WNT2B	1387 chr1	112805250	112855909	0.0324187	chr1:112851	0.0324187
GATA4	1390 chr8	11593734	11654701	0.0324453	chr8:011597	0.0324453
PERQ1	1391 chr7	100121151	100129576	0.0324501	chr7:100121	0.0324501
COX18	1398 chr4	74151828	74159766	0.0324832	chr4:074154	0.0324832
RUVBL1	1402 chr3	129323773	129330694	0.0325023	chr3:129323	0.0325023

SCGB3A1	1403	chr5	179949049	179956599	0.0325127	chr5:179956599	0.0325127
CUL3	1404	chr2	225155445	225163714	0.0325252	chr2:225163714	0.0325252
C9orf24	1418	chr9	34369086	34387891	0.0325961	chr9:34387891	0.0325961
ARPP-21	1422	chr3	35652250	35763498	0.0326137	chr3:35652250	0.0326137
SFTPG	1423	chr6	31005808	31013341	0.0326334	chr6:31005808	0.0326334
FLJ35779	1425	chr5	75041738	75049395	0.0326446	chr5:75041738	0.0326446
IFT172	1430	chr2	27564277	27568202	0.0326704	chr2:27564277	0.0326704
BMPER	1431	chr7	33906200	33914077	0.0326741	chr7:33906200	0.0326741
SNTG2	1433	chr2	932552	939022	0.0327005	chr2:932552	0.0327005
EPB49	1436	chr8	21962957	21973772	0.0327147	chr8:21962957	0.0327147
hsa-mir-375	1439	chr2	219574592	219575842	0.0327383	chr2:219574592	0.0327383
FOXO3A	1440	chr6	108982322	108991575	0.0327451	chr6:108982322	0.0327451
ZMYM3	1442	chrX	70387503	70396573	0.0327647	chrX:70387503	0.0327647
PTF1A	1451	chr10	23516176	23523902	0.0328502	chr10:23516176	0.0328502
GABRD	1456	chr1	1935804	1943242	0.0328857	chr1:1935804	0.0328857
MYL7	1468	chr7	44144959	44150350	0.0330074	chr7:44144959	0.0330074
hsa-mir-374	1470	chrX	73423869	73429361	0.0330265	chrX:73423869	0.0330265
FLJ38973	1471	chr2	200480549	200486792	0.0330303	chr2:200480549	0.0330303
CACYBP	1472	chr1	173229728	173238408	0.0330322	chr1:173229728	0.0330322
IL1RN	1478	chr2	113586513	113604114	0.0330827	chr2:113586513	0.0330827
AVPR2	1479	chrX	152819562	152825728	0.0330848	chrX:152819562	0.0330848
ARRDC3	1481	chr5	90712611	90719796	0.0330935	chr5:90712611	0.0330935
GPR158	1482	chr10	25499165	25506484	0.0331047	chr10:25499165	0.0331047
IL1RAP	1488	chr3	191709512	191717008	0.0331451	chr3:191709512	0.0331451
FLJ32011	1489	chr1	46785890	46793746	0.0331571	chr1:46785890	0.0331571
SEMA3F	1490	chr3	50162350	50201529	0.0331681	chr3:50162350	0.0331681
TBX3	1491	chr12	113602951	113611820	0.0331748	chr12:113602951	0.0331748
COMP	1492	chr19	18760682	18768472	0.0331835	chr19:18760682	0.0331835
PNOC	1495	chr8	28225176	28233227	0.033209	chr8:28225176	0.033209
GRAMD1A	1498	chr19	40177617	40209191	0.0332285	chr19:40177617	0.0332285
ENTPD3	1499	chr3	40398334	40406401	0.033238	chr3:40398334	0.033238
ASS1	1500	chr9	132305079	132312649	0.0332491	chr9:132305079	0.0332491
TTC27	1501	chr2	32701270	32709066	0.0332509	chr2:32701270	0.0332509
GLRX	1502	chr5	95182809	95189649	0.0332546	chr5:95182809	0.0332546
LYSMD3	1504	chr5	89858662	89866678	0.0332637	chr5:89858662	0.0332637
DDX4	1513	chr5	55064097	55073014	0.0333778	chr5:55064097	0.0333778
DPH5	1515	chr1	101261670	101269160	0.0333998	chr1:101261670	0.0333998
GABBR1	1518	chr6	29701294	29714320	0.0334071	chr6:29701294	0.0334071
C6orf208	1519	chr6	169926857	169946243	0.0334138	chr6:169926857	0.0334138
NUDT2	1523	chr9	34314130	34331459	0.0334446	chr9:34314130	0.0334446
C1orf109-C	1525	chr1	37928846	37930766	0.0334623	chr1:37928846	0.0334623
STAG2	1527	chrX	122919322	122986516	0.0334702	chrX:122919322	0.0334702
CCDC19	1531	chr1	158134110	158138005	0.0334974	chr1:158134110	0.0334974
C6orf15-PS	1532	chr6	31188399	31190561	0.0334976	chr6:31188399	0.0334976
SLC6A5	1534	chr11	20572145	20580290	0.0335235	chr11:20572145	0.0335235
FAM119A	1535	chr2	208194873	208203795	0.0335324	chr2:208194873	0.0335324
ZIC5-ZIC2	1536	chr13	99422388	99431823	0.0335342	chr13:99422388	0.0335342
MAOA	1538	chrX	43394882	43402960	0.033538	chrX:43394882	0.033538
NCSTN	1542	chr1	158574601	158580056	0.0335676	chr1:158574601	0.0335676
NRG1	1547	chr8	31611570	32627280	0.033586	chr8:31611570	0.033586
DOK6	1551	chr18	65215970	65221766	0.033602	chr18:65215970	0.033602
CTSL2	1553	chr9	98837767	98846906	0.0336269	chr9:98837767	0.0336269
MAP3K5	1556	chr6	137153022	137158517	0.0336382	chr6:137153022	0.0336382
PLXNB1	1558	chr3	48438556	48447225	0.0336478	chr3:48438556	0.0336478
PAXIP1	1561	chr7	154423186	154430609	0.0336749	chr7:154423186	0.0336749
PGM2L1	1563	chr11	73784525	73792569	0.0336786	chr11:73784525	0.0336786
NFKB1	1569	chr4	103636135	103643998	0.0337283	chr4:103636135	0.0337283
CNKSR1	1575	chr1	26370012	26388756	0.0337683	chr1:26370012	0.0337683

B3GALNT2	1576 chr1	233731759	233739802	0.0337697	chr1:233734	0.0337697
SLC26A6	1579 chr3	48638187	48648804	0.0337883	chr3:048648	0.0337883
RGAG4-LO	1581 chrX	71268532	71270050	0.033794	chrX:071268	0.033794
ADRM1	1585 chr20	60306020	60314495	0.0338377	chr20:06030	0.0338377
PDLIM4	1591 chr5	131615815	131623830	0.0338585	chr5:131620	0.0338585
IFNA14	1593 chr9	21228619	21235231	0.0338644	chr9:021235	0.0338644
PANK1	1606 chr10	91341069	91400453	0.033972	chr10:09134	0.033972
ZNF77	1613 chr19	2894223	2900639	0.0339997	chr19:00289	0.0339997
HEXA-C15c	1617 chr15	70455436	70455768	0.034018	chr15:07045	0.034018
HNRPH1	1618 chr5	178980375	178987910	0.0340183	chr5:178980	0.0340183
SLC35A2	1621 chrX	48645393	48655319	0.034024	chrX:048655	0.034024
AGPAT2	1623 chr9	138687250	138707169	0.0340309	chr9:138707	0.0340309
FLJ46831	1626 chr10	129422307	129429186	0.034033	chr10:12942	0.034033
KCNH2	1628 chr7	150281082	150309014	0.034046	chr7:150281	0.034046
THRAP6	1631 chr8	118600735	118604599	0.0340615	chr8:118600	0.0340615
CDC2L6	1632 chr6	111240626	111245215	0.0340821	chr6:111243	0.0340821
EFNA4	1634 chr1	153302061	153305367	0.0340917	chr1:153302	0.0340917
ARTN	1648 chr1	44169426	44175206	0.0342053	chr1:044175	0.0342053
METRNL	1650 chr17	78625343	78633261	0.0342106	chr17:07862	0.0342106
GABRE	1654 chrX	150875275	150898726	0.0342325	chrX:150898	0.0342325
PH-4	1657 chr3	48998040	49019547	0.034248	chr3:049002	0.034248
CHMP2B	1659 chr3	87353793	87361830	0.0342555	chr3:087355	0.0342555
BICD1	1660 chr12	32148701	32153940	0.0342566	chr12:03214	0.0342566
WDR90	1665 chr16	638454	657842	0.0342749	chr16:00063	0.0342749
TBX4	1666 chr17	56883121	56891144	0.0342767	chr17:05688	0.0342767
KIAA0895	1667 chr7	36370564	36378759	0.0342778	chr7:036370	0.0342778
SUSD3	1675 chr9	94855525	94863269	0.0343081	chr9:094855	0.0343081
EBF3	1677 chr10	131649747	131657923	0.0343379	chr10:13164	0.0343379
RNF182	1678 chr6	14027774	14035876	0.0343387	chr6:014035	0.0343387
hsa-mir-23b	1683 chr9	96881865	96887387	0.0343624	chr9:096888	0.0343624
HIF3A	1688 chr19	51486674	51538521	0.0343733	chr19:05148	0.0343733
ZNF79	1689 chr9	129220985	129248408	0.0343756	chr9:129220	0.0343756
FLJ41993	1691 chr22	48790740	48795589	0.0343806	chr22:04879	0.0343806
INHBE	1692 chr12	56131266	56137455	0.0343818	chr12:05613	0.0343818
SRRM1	1700 chr1	24837085	24844901	0.0344628	chr1:024844	0.0344628
MKX	1701 chr10	28072321	28079726	0.0344642	chr10:02807	0.0344642
UBE3A	1706 chr15	23202679	23240263	0.0345057	chr15:02320	0.0345057
GPR148	1710 chr2	131197798	131204899	0.0345323	chr2:131200	0.0345323
TNNT3	1716 chr11	1895333	1903107	0.0345464	chr11:00189	0.0345464
POLM	1724 chr7	44086190	44094135	0.0345646	chr7:044090	0.0345646
LOC91461	1730 chr2	42123941	42131724	0.0346116	chr2:042123	0.0346116
LCE1D	1744 chr1	151027705	151036773	0.0347051	chr1:151036	0.0347051
SEC22C-SC	1746 chr3	42598594	42607292	0.0347198	chr3:042598	0.0347198
TMED7	1755 chr5	114987087	114989633	0.0347791	chr5:114989	0.0347791
RTKN	1757 chr2	74517947	74525617	0.0347811	chr2:074525	0.0347811
PQBP1	1759 chrX	48635654	48645205	0.034799	chrX:048635	0.034799
ACA55	1760 chr1	39811697	39814998	0.0348	chr1:039814	0.0348
ZZEF1-CYE	1763 chr17	3993175	3993223	0.0348277	chr17:00399	0.0348277
FAM92B	1764 chr16	83701015	83709037	0.0348286	chr16:08370	0.0348286
ARL6IP2	1769 chr2	38455625	38462393	0.0348702	chr2:038455	0.0348702
FLJ32549	1780 chr12	62900087	62904859	0.034948	chr12:06290	0.034948
C7orf47	1781 chr7	99870374	99877531	0.0349541	chr7:099870	0.0349541
EPPB9	1785 chr17	19203981	19210715	0.034973	chr17:01920	0.034973
PNPO	1788 chr17	43368599	43376359	0.0349893	chr17:04336	0.0349893
SOX14	1799 chr3	138961192	138968748	0.035071	chr3:138966	0.035071
KTI12	1802 chr1	52270213	52274115	0.0350839	chr1:052270	0.0350839
FBXO30	1812 chr6	146175187	146183081	0.0351258	chr6:146175	0.0351258
IHPK3	1816 chr6	33820354	33828117	0.0351603	chr6:033820	0.0351603

PRR16	1827 chr5	119822888	119847289	0.0351987	chr5:119827	0.0351987
ERCC1	1828 chr19	50616065	50624236	0.0352167	chr19:0506	0.0352167
XKRX	1830 chrX	100068146	100075381	0.0352256	chrX:10007	0.0352256
ABCG5-AB	1831 chr2	43919523	43919567	0.0352388	chr2:04391	0.0352388
FOXA1	1839 chr14	37131572	37139690	0.035272	chr14:0371	0.035272
IKZF3-ZPBI	1842 chr17	35274022	35278000	0.035279	chr17:0352	0.035279
FGF10	1843 chr5	44422143	44429997	0.0352796	chr5:04442	0.0352796
MAP3K11	1847 chr11	65121781	65143803	0.0352855	chr11:0651	0.0352855
HOXC9	1849 chr12	52672030	52682719	0.0352918	chr12:0526	0.0352918
TTK	1850 chr6	80767736	80773547	0.0352922	chr6:08077	0.0352922
STK40	1851 chr1	36597082	36629512	0.0352956	chr1:03662	0.0352956
BICD2	1857 chr9	94564740	94569870	0.0353345	chr9:09456	0.0353345
DBH	1860 chr9	135486146	135493865	0.0353542	chr9:13548	0.0353542
ZZZ3	1861 chr1	77873739	77926545	0.0353584	chr1:07792	0.0353584
TARDBP	1862 chr1	10992028	10997267	0.0353656	chr1:01099	0.0353656
KIF7	1868 chr15	87990097	87997586	0.0354044	chr15:0879	0.0354044
SLC35E4	1876 chr22	29356327	29363855	0.035461	chr22:0293	0.035461
SARDH	1883 chr9	135586839	135598168	0.0355112	chr9:13559	0.0355112
KRIT1	1893 chr7	91706862	91718749	0.0355481	chr7:09171	0.0355481
MPPED2	1899 chr11	30556225	30568471	0.035573	chr11:0305	0.035573
TBC1D5	1901 chr3	17755174	17762840	0.035576	chr3:01775	0.035576
MRPL24	1910 chr1	154975017	154978481	0.0356332	chr1:15497	0.0356332
U82	1915 chr2	232034951	232037469	0.0356706	chr2:23203	0.0356706
LCORL	1916 chr4	17630174	17637977	0.0356744	chr4:01763	0.0356744
TMEM28	1924 chrX	68636311	68644279	0.0357064	chrX:06864	0.0357064
AMIGO2	1928 chr12	45756525	45765530	0.0357273	chr12:0457	0.0357273
FGF9	1930 chr13	21139810	21146427	0.0357369	chr13:0211	0.0357369
U61	1933 chrX	135789242	135790581	0.0357539	chrX:13579	0.0357539
PDE2A	1938 chr11	72001909	72068632	0.035828	chr11:0720	0.035828
XPR1	1940 chr1	178862579	178870366	0.0358387	chr1:17886	0.0358387
RPL38	1943 chr17	69705900	69717620	0.0358445	chr17:0697	0.0358445
SLC16A8	1945 chr22	36806544	36810795	0.035854	chr22:0368	0.035854
MFI2	1946 chr3	198238571	198246499	0.0358653	chr3:19824	0.0358653
PDF	1948 chr16	67919667	67930834	0.0359016	chr16:0679	0.0359016
LCK	1949 chr1	32488079	32515009	0.0359028	chr1:03248	0.0359028
C9orf106	1954 chr9	131117670	131125354	0.0359338	chr9:13112	0.0359338
SEMA6C-TI	1958 chr1	149385840	149395642	0.0359667	chr1:14938	0.0359667
WDR5	1960 chr9	135985825	135997279	0.0359959	chr9:13599	0.0359959
ALG2-SEC	1961 chr9	101024146	101024313	0.0360036	chr9:10102	0.0360036
AEBP1	1963 chr7	44104962	44113145	0.0360101	chr7:04410	0.0360101
HSPC268	1966 chr7	138676434	138678601	0.0360184	chr7:13867	0.0360184
ENTPD2	1968 chr9	139062363	139072162	0.0360233	chr9:13906	0.0360233
TMED4	1972 chr7	44585279	44592902	0.0360594	chr7:04458	0.0360594
UNC5A	1976 chr5	176166714	176172576	0.0360756	chr5:17616	0.0360756
CDH11	1979 chr16	63593812	63718720	0.0360987	chr16:0637	0.0360987
ABCB6	1983 chr2	219789358	219792281	0.0361015	chr2:21979	0.0361015
UCHL5IP	1986 chrX	152386759	152394392	0.0361204	chrX:15239	0.0361204
CCL27	1992 chr9	34651871	34658090	0.0361532	chr9:03465	0.0361532
CABC1	2006 chr1	225190261	225197126	0.0362553	chr1:22519	0.0362553
ZNF403	2011 chr17	31969582	32020341	0.0362739	chr17:0319	0.0362739
SDC1	2013 chr2	20285700	20293454	0.0362835	chr2:02028	0.0362835
PROC	2015 chr2	127889156	127894938	0.0362872	chr2:12789	0.0362872
SLBP	2016 chr4	1682969	1687473	0.0362916	chr4:00168	0.0362916
SFT2D3	2018 chr2	128169654	128177749	0.0363133	chr2:12817	0.0363133
FKBP14-PL	2027 chr7	30032790	30034727	0.0363681	chr7:03003	0.0363681
FLJ23834	2029 chr7	105385443	105393000	0.0363749	chr7:10538	0.0363749
C9orf4	2036 chr9	110967134	110974920	0.0364068	chr9:11097	0.0364068
BRSK2	2037 chr11	1362300	1370165	0.0364097	chr11:0013	0.0364097

BAK1	2047 chr6	33651037	33661412	0.0364743	chr6:033659	0.0364743
SOS1	2055 chr2	39199050	39206066	0.0365154	chr2:039204	0.0365154
C1orf156-C	2065 chr1	168030655	168031143	0.0365594	chr1:168030	0.0365594
SKIP	2072 chr17	1344606	228755439	0.0365953	chr17:00136	0.0365953
ZAP70	2079 chr2	97691005	97709618	0.0366543	chr2:097707	0.0366543
CACNB3	2081 chr12	47493819	47500901	0.0366658	chr12:04749	0.0366658
UFD1L-CD	2089 chr22	17846749	17847434	0.0367015	chr22:01784	0.0367015
HYAL2	2091 chr3	50330500	50337319	0.0367097	chr3:050334	0.0367097
HBII-108	2092 chr3	52695042	52697644	0.0367117	chr3:052695	0.0367117
CRB2	2095 chr9	125153123	125160620	0.0367287	chr9:125153	0.0367287
SLC39A4	2097 chr8	145608664	145614809	0.036743	chr8:145614	0.036743
HAS1	2099 chr19	56918136	56923804	0.0367503	chr19:05692	0.0367503
DMKN	2101 chr19	40693768	40699794	0.0367593	chr19:04069	0.0367593
FBLIM1	2112 chr1	15952416	15966408	0.0368249	chr1:015957	0.0368249
IHPK1	2114 chr3	49736707	49804354	0.0368279	chr3:049799	0.0368279
BRD1	2119 chr22	48602388	48612800	0.0368453	chr22:04860	0.0368453
XPO6	2122 chr16	28129110	28135557	0.0368549	chr16:02813	0.0368549
VPS36-CKA	2123 chr13	51922781	51927572	0.0368591	chr13:05192	0.0368591
EBF1	2127 chr5	158456725	158464864	0.036879	chr5:158467	0.036879
NFKBIA	2128 chr14	34941215	34948891	0.0368886	chr14:03494	0.0368886
NEGR1	2130 chr1	72518377	72526370	0.036905	chr1:072527	0.036905
ACOX1	2142 chr17	71481389	71488504	0.036997	chr17:07148	0.036997
FLJ21839	2143 chr2	27122605	27130562	0.0370035	chr2:027126	0.0370035
CASP8	2146 chr2	201803472	201840886	0.0370197	chr2:201803	0.0370197
FOXD3	2149 chr1	63555964	63563692	0.0370295	chr1:063556	0.0370295
CACNG2	2150 chr22	35426134	35432824	0.0370352	chr22:03542	0.0370352
TRIM45	2153 chr1	117463345	117471266	0.0370468	chr1:117466	0.0370468
AQP1	2155 chr7	30912579	30920458	0.0370482	chr7:030913	0.0370482
KIAA1446	2164 chr14	100103426	100111302	0.03708	chr14:10010	0.03708
MAP6	2167 chr11	75054638	75060144	0.0370949	chr11:07505	0.0370949
MTHFSD	2173 chr16	85143815	85148458	0.0371413	chr16:08514	0.0371413
MIZF	2184 chr11	118493219	118499454	0.037195	chr11:11849	0.037195
ACSL6	2197 chr5	131372998	131380764	0.0372611	chr5:131372	0.0372611
CPEB4	2199 chr5	173243359	173255128	0.0372723	chr5:173243	0.0372723
BAT3-APOM	2201 chr6	31728497	31731567	0.0372753	chr6:031728	0.0372753
RSBN1L	2211 chr7	77159446	77166088	0.0373334	chr7:077166	0.0373334
CDC42EP2	2216 chr11	64834071	64846851	0.0373837	chr11:06483	0.0373837
SNCAIP	2229 chr5	121670574	121678315	0.0374287	chr5:121670	0.0374287
XRCC5	2239 chr2	216676979	216683912	0.0374762	chr2:216668	0.0374762
CYTL1	2242 chr4	5069675	5077229	0.0374823	chr4:005072	0.0374823
CLK3	2257 chr15	72682407	72697740	0.0375696	chr15:07268	0.0375696
NR5A1	2259 chr9	126307114	126314999	0.037577	chr9:126310	0.037577
WNK1	2260 chr12	729075	735519	0.0375778	chr12:00073	0.0375778
DEADC1-PI	2263 chr6	143813576	143813764	0.0376004	chr6:143813	0.0376004
BACH2	2265 chr6	91060808	91068712	0.0376046	chr6:091060	0.0376046
ATP8B2	2271 chr1	152564400	152570395	0.0376257	chr1:152564	0.0376257
KCNQ4	2281 chr1	41016955	41024847	0.0376896	chr1:041017	0.0376896
PRLH	2288 chr2	238134584	238142021	0.0377195	chr2:238133	0.0377195
DKFZP434E	2291 chr7	97717226	97724320	0.037736	chr7:097719	0.037736
hsa-mir-200	2293 chr12	6941254	6943172	0.0377427	chr12:00694	0.0377427
RAB33B	2295 chr4	140590533	140597269	0.0377533	chr4:140594	0.0377533
ERCC6	2298 chr10	50414818	50421257	0.0377775	chr10:05041	0.0377775
HOXC12	2301 chr12	52629619	52637412	0.0377953	chr12:05262	0.0377953
SLC34A2	2302 chr4	25262173	25268492	0.0377959	chr4:025262	0.0377959
RBM35B-LY	2304 chr16	66827645	66836694	0.0377971	chr16:06682	0.0377971
CD300LG	2307 chr17	39275146	39282481	0.037803	chr17:03927	0.037803
ACTG1	2330 chr17	77091566	77099924	0.0379155	chr17:07709	0.0379155
AFF2	2333 chrX	147384489	147392747	0.0379364	chrX:147387	0.0379364

SERAC1-G	2341 chr6	158509323	158511498	0.0379817	chr6:158509	0.0379817
ARHGEF2	2343 chr1	154212204	154220445	0.037984	chr1:154212	0.037984
WDR45	2352 chrX	48819479	48849636	0.038007	chrX:04882	0.038007
H1FX-C3orf	2354 chr3	130517842	130519667	0.0380117	chr3:13051	0.0380117
HMX2	2358 chr10	124892389	124900106	0.0380316	chr10:1248	0.0380316
TCIRG1	2360 chr11	67560760	67565506	0.038039	chr11:0675	0.038039
HOXD3	2371 chr2	176727043	176744441	0.038092	chr2:17673	0.038092
RAG1AP1	2377 chr1	153374071	153378150	0.0381066	chr1:15337	0.0381066
FAM19A4	2380 chr3	69062038	69069515	0.0381237	chr3:06906	0.0381237
hsa-mir-218	2382 chr5	168125318	168133304	0.0381382	chr5:16813	0.0381382
EVX2-HOXI	2383 chr2	176660654	176665530	0.0381394	chr2:17666	0.0381394
GTF3C2	2388 chr2	27402507	27435035	0.0381545	chr2:02743	0.0381545
RPS13	2389 chr11	17055785	17059389	0.0381616	chr11:0170	0.0381616
FAM120C	2392 chrX	54224052	54231799	0.0381835	chrX:05422	0.0381835
MCM7-AP4	2397 chr7	99536336	99537032	0.0382197	chr7:09953	0.0382197
C6orf62	2407 chr6	24824580	24832907	0.0382452	chr6:02482	0.0382452
LOC340602	2419 chrX	51161816	51169018	0.0383202	chrX:05116	0.0383202
ZH2C2-HIS	2421 chr5	102483789	102492875	0.0383359	chr5:10248	0.0383359
TCEA2	2424 chr20	62159074	62170797	0.0383544	chr20:0621	0.0383544
VCP	2425 chr9	35060027	35063676	0.0383686	chr9:03506	0.0383686
TEAD3	2430 chr6	35570355	35573651	0.0383977	chr6:03557	0.0383977
NDRG4	2431 chr16	57049964	57104964	0.0383996	chr16:0570	0.0383996
RIPK5	2441 chr1	203444848	203451883	0.0384625	chr1:20344	0.0384625
NUCKS1	2452 chr1	203983296	203991055	0.0385189	chr1:20398	0.0385189
G3BP1	2453 chr5	151128697	151134202	0.0385272	chr5:15113	0.0385272
AXIIR	2460 chr5	43072837	43081243	0.038557	chr5:04307	0.038557
RIC8B	2472 chr12	105687190	105694723	0.0386549	chr12:1056	0.0386549
C4orf15	2474 chr4	2200333	2218985	0.0386643	chr4:00221	0.0386643
BARHL1	2477 chr9	134442307	134450406	0.0386711	chr9:13444	0.0386711
IGF2BP3	2480 chr7	23473818	23481990	0.0386836	chr7:02347	0.0386836
DGCR2	2484 chr22	17487418	17497679	0.0387052	chr22:0174	0.0387052
PEX1-DKF2	2486 chr7	91995822	91996023	0.0387065	chr7:09199	0.0387065
C9orf93	2487 chr9	15538929	15545425	0.0387076	chr9:01554	0.0387076
UNQ5830	2488 chr2	10061189	10068048	0.0387078	chr2:01006	0.0387078
TRERF1	2489 chr6	42524782	42532820	0.0387084	chr6:04252	0.0387084
MCM7	2492 chr7	99528068	99542545	0.038728	chr7:09954	0.038728
EIF3S7	2495 chr22	35236853	35260456	0.0387415	chr22:0352	0.0387415
FLJ37440	2497 chr2	112608311	112615167	0.0387452	chr2:11261	0.0387452
LY6D	2499 chr8	143863302	143869863	0.0387562	chr8:14386	0.0387562
TSPAN18	2510 chr11	44833211	44886572	0.0388009	chr11:0448	0.0388009
GNB1	2513 chr1	1744644	1817599	0.0388248	chr1:00181	0.0388248
FLJ44861	2520 chr17	76748398	76756425	0.0388463	chr17:0767	0.0388463
TRIM17	2522 chr1	226662339	226679173	0.0388498	chr1:22667	0.0388498
VIPR1	2530 chr3	42513623	42521665	0.0388858	chr3:04251	0.0388858
CHST12	2537 chr7	2404707	2440621	0.0389153	chr7:00240	0.0389153
HTATSF1	2540 chrX	135402324	135409951	0.0389264	chrX:13540	0.0389264
APRIN	2544 chr13	32053125	32061168	0.0389437	chr13:0320	0.0389437
VPS13B	2554 chr8	100090481	100096515	0.0390213	chr8:10009	0.0390213
MEF2D	2569 chr1	154717364	154742398	0.0391173	chr1:15474	0.0391173
ING1	2579 chr13	110163088	110167820	0.0391422	chr13:1101	0.0391422
SIM2	2581 chr21	36988609	36996338	0.0391498	chr21:0369	0.0391498
SERPINE1	2588 chr7	100551960	100558898	0.0391899	chr7:10055	0.0391899
RNASEL	2589 chr1	180820251	180826183	0.039195	chr1:18082	0.039195
CAPNS1	2601 chr19	41317575	41333306	0.0392919	chr19:0413	0.0392919
hsa-mir-143	2614 chr5	148783524	148788778	0.0393887	chr5:14878	0.0393887
MMP2	2615 chr16	54066858	54097894	0.039391	chr16:0540	0.039391
LEMD3	2617 chr12	63844628	63851990	0.0393997	chr12:0638	0.0393997
RPL39	2624 chrX	118809631	118814475	0.039468	chrX:11880	0.039468

PRDM14	2626	chr8	71143915	71151411	0.0394996	chr8:071146	0.0394996
PIGM	2627	chr1	158265744	158273878	0.0395018	chr1:158268	0.0395018
TSPYL1	2628	chr6	116702581	116711998	0.0395041	chr6:116707	0.0395041
hsa-mir-202	2631	chr10	134908604	134916177	0.0395139	chr10:1349	0.0395139
AARSD1-RI	2636	chr17	38385681	38385847	0.0395285	chr17:03838	0.0395285
PDE11A	2641	chr2	178196195	178681290	0.0395559	chr2:178648	0.0395559
KCNIP3	2643	chr2	95321487	95329375	0.0395632	chr2:095324	0.0395632
PANK4	2645	chr1	2445429	2449738	0.0395789	chr1:002448	0.0395789
RPS7	2646	chr2	3595508	3603559	0.039581	chr2:003600	0.039581
SEMA4C	2648	chr2	96889200	96904894	0.0395858	chr2:096900	0.0395858
LOC343521	2651	chr1	45044406	45050610	0.0396164	chr1:045048	0.0396164
GAL3ST2	2652	chr2	242359723	242366574	0.0396202	chr2:24236	0.0396202
TMEM130-1	2653	chr7	98305761	98313939	0.0396246	chr7:098311	0.0396246
GPR68	2658	chr14	90768674	90795188	0.0396462	chr14:09079	0.0396462
NVL	2662	chr1	222583863	222589865	0.0396586	chr1:222584	0.0396586
CLDN15	2673	chr7	100665187	100669457	0.0397135	chr7:100666	0.0397135
MCF2L2	2677	chr3	184626030	184632972	0.0397235	chr3:184628	0.0397235
C2orf50	2683	chr2	11186272	11194583	0.0397565	chr2:011188	0.0397565
U73b	2684	chr4	152240306	152242121	0.0397583	chr4:152240	0.0397583
CASP9-DN1	2687	chr1	15723798	15725873	0.0397686	chr1:015728	0.0397686
COG8-NIP7	2688	chr16	67931010	67931060	0.0397709	chr16:06793	0.0397709
HSP90AB1	2693	chr6	44318300	44324713	0.0398047	chr6:044322	0.0398047
FLJ45717	2697	chr1	245341314	245345764	0.0398239	chr1:245343	0.0398239
hsa-mir-500	2703	chrX	49655023	49659662	0.0398333	chrX:049658	0.0398333
G6PD	2709	chrX	153420432	153428883	0.039853	chrX:153421	0.039853
CDKN2AIP	2721	chr4	184597900	184605369	0.0399371	chr4:184602	0.0399371
CLU	2725	chr8	27521826	27533337	0.0399465	chr8:027528	0.0399465
CAPN5	2732	chr11	76451892	76494054	0.0399745	chr11:07648	0.0399745
SIN3A	2741	chr15	73450398	73536494	0.0399997	chr15:07353	0.0399997
PRKCH	2746	chr14	60852845	60860987	0.0400309	chr14:06088	0.0400309
ZNF307-C6	2748	chr6	28327956	28334952	0.0400501	chr6:028327	0.0400501
MEIS2	2760	chr15	35176397	35185975	0.0401169	chr15:03518	0.0401169
ALS2CR4	2762	chr2	202193153	202217754	0.0401181	chr2:202218	0.0401181
TUBB2A	2764	chr6	3101973	3108275	0.0401214	chr6:003108	0.0401214
GTF2I	2768	chr7	73705451	73712425	0.0401371	chr7:073708	0.0401371
ICT1	2776	chr17	70515625	70520950	0.0401699	chr17:07052	0.0401699
MAP4K3	2777	chr2	39515698	39522515	0.0401702	chr2:039518	0.0401702
SYMPK-FO	2803	chr19	51058452	51059331	0.0402954	chr19:05108	0.0402954
hsa-mir-185	2807	chr22	18390728	18400575	0.0403128	chr22:01840	0.0403128
KIAA1622	2808	chr14	93707623	93713050	0.0403202	chr14:09371	0.0403202
CRLF1-C19	2809	chr19	18578809	18584682	0.0403235	chr19:01857	0.0403235
GK	2810	chrX	30575887	30584025	0.0403259	chrX:030588	0.0403259
GPC3	2813	chrX	132944673	132951433	0.0403553	chrX:13294	0.0403553
GLI4	2817	chr8	144416419	144423363	0.0403785	chr8:144416	0.0403785
GRPEL2	2826	chr5	148702330	148713142	0.0404287	chr5:148708	0.0404287
SMPD1	2827	chr11	6362708	6370900	0.0404331	chr11:00636	0.0404331
SMARCD1	2835	chr4	95342588	95350747	0.0404574	chr4:095347	0.0404574
ABL1	2837	chr9	132574068	132703177	0.0404713	chr9:132698	0.0404713
ZNF260	2854	chr19	41708611	41716300	0.0405784	chr19:04171	0.0405784
PRDM13	2871	chr6	100156309	100164103	0.0406597	chr6:100158	0.0406597
ZFAND3	2873	chr6	37890271	37898216	0.0406777	chr6:037894	0.0406777
COX7A2L	2876	chr2	42439330	42446695	0.0406854	chr2:042442	0.0406854
CRABP1	2883	chr15	76416097	76422261	0.0407295	chr15:07641	0.0407295
TLE3	2891	chr15	68173699	68182765	0.0407709	chr15:06817	0.0407709
GNAL	2897	chr18	11677388	11843760	0.0408039	chr18:01167	0.0408039
CCR7	2900	chr17	35972703	35975405	0.0408138	chr17:03597	0.0408138
GPRC5B	2905	chr16	19801180	19809142	0.0408558	chr16:01980	0.0408558
ADCY5	2914	chr3	124648015	124655504	0.0409041	chr3:124655	0.0409041

CERK	2916 chr22	45510213	45517890	0.0409188	chr22:0455	0.0409188
MFSD2	2921 chr1	40192194	40196013	0.0409433	chr1:04019	0.0409433
LDB1	2929 chr10	103862209	103870215	0.0409759	chr10:10386	0.0409759
GLTSCR2	2940 chr19	52938374	52940631	0.0410312	chr19:0529	0.0410312
TBC1D23	2950 chr3	101457097	101463735	0.041067	chr3:10146	0.041067
MORF4L2	2952 chrX	102825764	102833759	0.0410746	chrX:10282	0.0410746
CEACAM4	2953 chr19	46823275	46830578	0.0410789	chr19:0468	0.0410789
CRKRS	2955 chr17	34871125	34874380	0.041083	chr17:0348	0.041083
VIL1	2960 chr2	218991401	218999200	0.0410951	chr2:21899	0.0410951
EMX1	2965 chr2	72994111	73000995	0.0411143	chr2:07299	0.0411143
RBM15	2970 chr1	110677832	110686027	0.0411337	chr1:11068	0.0411337
TBC1D16	2985 chr17	75536846	75629466	0.0412146	chr17:0756	0.0412146
THBD	2993 chr20	22975907	22982857	0.0412456	chr20:0229	0.0412456
NPC1L1	2994 chr7	44544934	44551390	0.0412492	chr7:04454	0.0412492
MFNG	2999 chr22	36209936	36216008	0.0412794	chr22:0362	0.0412794
GNAI3	3009 chr1	109889954	109938498	0.0413379	chr1:10989	0.0413379
RPL24	3011 chr3	102882847	102893341	0.0413562	chr3:10288	0.0413562
C1orf74	3013 chr1	208022337	208027888	0.0413618	chr1:20802	0.0413618
HAP1	3016 chr17	37142033	37149847	0.0413706	chr17:0371	0.0413706
FAM83A	3020 chr8	124258798	124266718	0.04138	chr8:12426	0.04138
TXN	3026 chr9	112056113	112062562	0.0414158	chr9:11205	0.0414158
C14orf106	3028 chr14	44786002	44796158	0.04142	chr14:0447	0.04142
PSMD14	3029 chr2	161867333	161976148	0.0414244	chr2:16187	0.0414244
TM6SF2	3033 chr19	19236154	19250647	0.0414588	chr19:0192	0.0414588
ALS2CL-TM	3037 chr3	46710426	46717692	0.041476	chr3:04671	0.041476
WNT5A	3041 chr3	55493875	55501767	0.0414948	chr3:05549	0.0414948
BNC1	3042 chr15	81741872	81749965	0.0414956	chr15:0817	0.0414956
RORC	3043 chr1	150045290	150076401	0.0415015	chr1:15007	0.0415015
CLCF1	3047 chr11	66895223	66903243	0.0415125	chr11:0668	0.0415125
CCKBR	3051 chr11	6233967	6239583	0.0415329	chr11:0062	0.0415329
ESD	3060 chr13	46267064	46274884	0.0415938	chr13:0462	0.0415938
STAB1	3062 chr3	52502326	52505867	0.0415968	chr3:05250	0.0415968
SLC2A11	3074 chr22	22524899	22532315	0.0416572	chr22:0225	0.0416572
PLEKHG2	3077 chr19	44591939	44597996	0.0416672	chr19:0445	0.0416672
ANXA4	3078 chr2	69820681	69907105	0.0416687	chr2:06982	0.0416687
FATE1	3082 chrX	150629874	150637650	0.0416881	chrX:15063	0.0416881
LRRC3B	3095 chr3	26633912	26641740	0.0417398	chr3:02663	0.0417398
NNT	3098 chr5	43634064	43641592	0.0417505	chr5:04363	0.0417505
ANP32B	3102 chr9	99780413	99787910	0.0417668	chr9:09978	0.0417668
RAX	3106 chr18	55088962	55097110	0.0418036	chr18:0550	0.0418036
KIAA1012	3108 chr18	27775033	27782083	0.0418181	chr18:0277	0.0418181
TITF1	3109 chr14	36055810	36064595	0.0418212	chr14:0360	0.0418212
FNDC1	3111 chr6	159504965	159512756	0.0418443	chr6:15950	0.0418443
TAF4	3116 chr20	60071795	60078916	0.0418657	chr20:0600	0.0418657
LOC389827	3118 chr9	135384487	135389623	0.0418786	chr9:13538	0.0418786
DIO3	3120 chr14	101092190	101099912	0.0419013	chr14:1010	0.0419013
SLC20A1	3125 chr2	113114545	113123375	0.0419533	chr2:11311	0.0419533
JDP2	3126 chr14	74963138	74971119	0.0419576	chr14:0749	0.0419576
TXN2	3128 chr22	35204337	35209959	0.0419639	chr22:0352	0.0419639
NCAM2	3130 chr21	21287054	21294950	0.0419678	chr21:0212	0.0419678
MEGF8	3131 chr19	47529095	47572896	0.0419691	chr19:0475	0.0419691
TBX2	3132 chr17	56826799	56841615	0.0419708	chr17:0568	0.0419708
MAP2K7	3142 chr19	7873549	7877078	0.0419992	chr19:0078	0.0419992
C19orf26-A	3146 chr19	1188836	1192679	0.0420329	chr19:0011	0.0420329
SHH	3149 chr7	155295119	155302888	0.0420376	chr7:15529	0.0420376
KIAA0319	3157 chr6	24752990	24758069	0.0420872	chr6:02475	0.0420872
SLC25A1	3159 chr22	17543797	17551697	0.0420995	chr22:0175	0.0420995
CAMSAP1L	3166 chr1	198969956	198977519	0.0421295	chr1:19897	0.0421295

PCMTD2	3176 chr20	62356062	62364281	0.0421787	chr20:062356062	0.0421787
SLC6A8	3178 chrX	152603219	152609607	0.0421837	chrX:152603219	0.0421837
ZNF197	3188 chr3	44636166	44662507	0.0422359	chr3:044636166	0.0422359
C1orf126-TI	3190 chr1	15351622	15352803	0.0422496	chr1:015351622	0.0422496
STAT5B	3192 chr17	37604722	37683098	0.0422808	chr17:037604722	0.0422808
BET1L-RIC1	3231 chr11	197457	198108	0.0424718	chr11:000197457	0.0424718
GJB4	3232 chr1	34996851	35001933	0.0424737	chr1:034996851	0.0424737
ABCC3	3237 chr17	46061792	46069714	0.0425035	chr17:046061792	0.0425035
MUC4	3239 chr3	197020573	197028968	0.0425131	chr3:197020573	0.0425131
HOXD11	3245 chr2	176673761	176682573	0.0425371	chr2:176673761	0.0425371
TSLP	3248 chr5	110428192	110439088	0.0425392	chr5:110428192	0.0425392
NLRP12	3260 chr19	58999087	59024599	0.042602	chr19:058999087	0.042602
FASN	3271 chr17	77646940	77654797	0.0426394	chr17:077646940	0.0426394
CREM	3275 chr10	35451021	35526783	0.0426564	chr10:035451021	0.0426564
GTF2F1	3278 chr19	6331203	6349226	0.0426647	chr19:006331203	0.0426647
SCARF2	3279 chr22	19120601	19127280	0.0426657	chr22:019120601	0.0426657
KCNK16	3280 chr6	39390619	39403784	0.0426719	chr6:039390619	0.0426719
TSPAN5	3287 chr4	99796260	99804125	0.0427528	chr4:099796260	0.0427528
RAP1B	3291 chr12	67285441	67330852	0.042768	chr12:067285441	0.042768
SLC16A6	3292 chr17	63796473	63804475	0.0427723	chr17:063796473	0.0427723
C10orf27	3302 chr10	72212753	72216948	0.0428295	chr10:072212753	0.0428295
APOBEC3A	3307 chr22	37678152	37686146	0.042841	chr22:037678152	0.042841
LZTR1	3311 chr22	19665738	19683642	0.0428707	chr22:019665738	0.0428707
HDAC10	3314 chr22	49026136	49033245	0.0428885	chr22:049026136	0.0428885
ANKHD1	3316 chr5	139756264	139888250	0.0428932	chr5:139756264	0.0428932
ZFAND6	3318 chr15	78137727	78141606	0.0428965	chr15:078137727	0.0428965
RAB34-RPL	3319 chr17	24068998	24071037	0.0429081	chr17:024068998	0.0429081
ZNF621	3321 chr3	40538255	40543072	0.0429153	chr3:040538255	0.0429153
GAS2L1	3322 chr22	28027520	28038790	0.0429202	chr22:028027520	0.0429202
SNTB1	3324 chr8	121890843	121899150	0.0429268	chr8:121890843	0.0429268
KLHDC7B	3325 chr22	49327884	49336208	0.0429272	chr22:049327884	0.0429272
LILRA3	3331 chr19	59493579	59501529	0.0429449	chr19:059493579	0.0429449
TBCCD1-DI	3340 chr3	187767929	187771077	0.0429803	chr3:187767929	0.0429803
C6orf134	3343 chr6	30702205	30722576	0.042994	chr6:030702205	0.042994
hsa-mir-594	3345 chr7	138671206	138675926	0.0430189	chr7:138671206	0.0430189
KLHL30	3351 chr2	238708684	238716605	0.0430618	chr2:238708684	0.0430618
NFATC1	3357 chr18	75253029	75263841	0.0431055	chr18:075253029	0.0431055
CH25H	3366 chr10	90954555	90962128	0.0431544	chr10:090954555	0.0431544
LIMD2	3368 chr17	59128060	59136208	0.0431561	chr17:059128060	0.0431561
NR2F6	3374 chr19	17214647	17221855	0.0431784	chr19:017214647	0.0431784
PAK6	3378 chr15	38314038	38321790	0.0431961	chr15:038314038	0.0431961
COMMD5	3382 chr8	146047282	146054699	0.043232	chr8:146047282	0.043232
AGXT2	3385 chr5	35082150	35087531	0.043246	chr5:035082150	0.043246
HNRPL	3387 chr19	44019243	44035114	0.0432492	chr19:044019243	0.0432492
WNT11	3396 chr11	75592933	75600731	0.0433098	chr11:075592933	0.0433098
C6orf157-D	3408 chr6	83832276	83833739	0.0433584	chr6:083832276	0.0433584
DAB2	3414 chr5	39458170	39466149	0.0433756	chr5:039458170	0.0433756
CKB-C14orf	3419 chr14	103059125	103065176	0.0433924	chr14:103059125	0.0433924
CYB561	3425 chr17	58866225	58882531	0.043423	chr17:058866225	0.043423
SLC25A39	3430 chr17	39755194	39762552	0.043441	chr17:039755194	0.043441
C1QL4-FLJ	3431 chr12	48017571	48027244	0.0434419	chr12:048017571	0.0434419
EGLN2	3433 chr19	45994666	46000787	0.0434568	chr19:045994666	0.0434568
ZNF767	3434 chr7	148950114	148957985	0.0434623	chr7:148950114	0.0434623
TNFRSF1B	3436 chr1	12144383	12151868	0.0434691	chr1:012144383	0.0434691
C3orf58	3438 chr3	145168201	145176294	0.0434695	chr3:145168201	0.0434695
USH1G-OT1	3439 chr17	70431027	70431940	0.0434732	chr17:070431027	0.0434732
GTF3C1-KI	3440 chr16	27468921	27468965	0.043478	chr16:027468921	0.043478
GHRL	3448 chr3	10304509	10311556	0.0435258	chr3:010304509	0.0435258

MARK3	3453 chr14	102916136	102924539	0.0435467	chr14:10292	0.0435467
JUNB	3454 chr19	12757866	12766037	0.0435678	chr19:01276	0.0435678
AKT1	3465 chr14	104327518	104338570	0.0436296	chr14:10433	0.0436296
DPF1	3470 chr19	43404742	43412071	0.0436675	chr19:0434	0.0436675
AGRP	3474 chr16	66074083	66078405	0.0436834	chr16:06607	0.0436834
GRASP	3479 chr12	50682608	50689513	0.0436997	chr12:05068	0.0436997
FKBP2	3491 chr11	63762999	63768355	0.043736	chr11:06376	0.043736
TRPM5	3493 chr11	2382156	2406242	0.0437481	chr11:00240	0.0437481
ALOXE3	3495 chr17	7959560	7965484	0.0437575	chr17:00796	0.0437575
ZNF660	3496 chr3	44601074	44612628	0.0437713	chr3:04460	0.0437713
COQ6	3497 chr14	73480884	73492035	0.0437813	chr14:07348	0.0437813
RFTN1	3503 chr3	16528143	16535056	0.043808	chr3:016530	0.043808
SLC39A6-S	3505 chr18	31963271	31963838	0.0438216	chr18:03196	0.0438216
DLX3	3507 chr17	45424980	45430937	0.0438239	chr17:04542	0.0438239
CRKL	3510 chr22	19598900	19604494	0.0438496	chr22:01960	0.0438496
RPS6KA3	3522 chrX	20192180	20200157	0.0439003	chrX:02019	0.0439003
WISP3	3526 chr6	112476517	112489917	0.0439286	chr6:112482	0.0439286
DNM1L	3539 chr12	32718127	32725963	0.0439964	chr12:03272	0.0439964
ARAF	3545 chrX	47300225	47307788	0.0440328	chrX:04730	0.0440328
LRFN2	3551 chr6	40660648	40668461	0.0440701	chr6:04066	0.0440701
DMAP1	3553 chr1	44447453	44454246	0.0440792	chr1:044450	0.0440792
ACP5	3555 chr19	11546783	11554170	0.0440882	chr19:01155	0.0440882
GPR175-M	3557 chr3	128790646	128791946	0.0441049	chr3:12879	0.0441049
RBP7	3573 chr1	9979010	9982412	0.0441596	chr1:009979	0.0441596
PIN1	3580 chr19	9801981	9808544	0.0442371	chr19:00980	0.0442371
SFMBT1	3581 chr3	52978238	53060508	0.0442395	chr3:05305	0.0442395
TSC22D3	3582 chrX	106843797	106908556	0.0442423	chrX:10684	0.0442423
TBC1D14	3586 chr4	6957888	6964554	0.0442624	chr4:00695	0.0442624
SPTBN5	3589 chr15	39971213	39978844	0.0442957	chr15:03997	0.0442957
SELPLG	3609 chr12	107549636	107557203	0.0443839	chr12:10755	0.0443839
SLC10A7	3619 chr4	147660027	147664278	0.0444135	chr4:14766	0.0444135
SLC24A2	3626 chr9	19774509	19782347	0.0444399	chr9:01977	0.0444399
MAP4K1-EI	3630 chr19	43800504	43801521	0.0444539	chr19:04380	0.0444539
RKHD3	3631 chr15	80122685	80130937	0.0444629	chr15:08012	0.0444629
PPAPDC3	3633 chr9	133151921	133157573	0.044472	chr9:13315	0.044472
DPEP1	3643 chr16	88209039	88226591	0.0445099	chr16:0882	0.0445099
PEX12-AP2	3651 chr17	30929765	30938349	0.0445393	chr17:03092	0.0445393
RHOD	3652 chr11	66575946	66583228	0.0445455	chr11:06657	0.0445455
WNK2	3660 chr9	94981649	94989522	0.0445957	chr9:09498	0.0445957
PTGIR	3666 chr19	51816872	51828988	0.0446497	chr19:05182	0.0446497
HRH3-FLJ4	3686 chr20	60230688	60234104	0.0447402	chr20:06023	0.0447402
TSGA2-SLC	3689 chr21	42789542	42792820	0.0447555	chr21:04278	0.0447555
PRRG3	3692 chrX	150612544	150620458	0.0447681	chrX:15061	0.0447681
CHKA	3699 chr11	67642732	67650545	0.044798	chr11:06764	0.044798
CRYL1	3705 chr13	19995606	20002599	0.0448123	chr13:01999	0.0448123
ZNF238	3707 chr1	242275947	242286211	0.0448158	chr1:24227	0.0448158
NT5M	3716 chr17	17146985	17149812	0.0448495	chr17:01714	0.0448495
TMEM176B	3737 chr7	150129431	150133155	0.0449803	chr7:15013	0.0449803
CRSP2	3738 chrX	40392486	40484955	0.0449824	chrX:04048	0.0449824
MYOCD	3739 chr17	12505181	12512604	0.0449985	chr17:01250	0.0449985
CST9	3740 chr20	23532139	23540008	0.045006	chr20:02353	0.045006
C19orf6-CN	3741 chr19	972187	977218	0.0450267	chr19:00097	0.0450267
CHAC1	3743 chr15	39027480	39035580	0.0450347	chr15:03902	0.0450347
PGLYRP4-ε	3747 chr1	151587911	151596889	0.0450547	chr1:15158	0.0450547
GRAMD2	3748 chr15	70274854	70278393	0.0450651	chr15:07027	0.0450651
C18orf1	3750 chr18	13203309	13604301	0.0450722	chr18:01320	0.0450722
GHDC	3759 chr17	37595113	37604671	0.0451503	chr17:03759	0.0451503
GNAO1	3763 chr16	54778343	54786233	0.0451777	chr16:05477	0.0451777

REN	3767 chr1	202390640	202407557	0.0451916	chr1:20240	0.0451916
TSPAN2	3770 chr1	115432050	115436909	0.0452028	chr1:11543	0.0452028
ATF5	3786 chr19	55119132	55124525	0.045266	chr19:0551	0.045266
SIPA1L3	3800 chr19	43084620	43092204	0.0453409	chr19:0430	0.0453409
POU3F2	3806 chr6	99383980	99391979	0.0453685	chr6:09938	0.0453685
RTTN	3809 chr18	66021937	66029111	0.0453835	chr18:0660	0.0453835
KRT13	3810 chr17	36912823	36920741	0.0453926	chr17:0369	0.0453926
LSM14B	3812 chr20	60125402	60143837	0.0453935	chr20:0601	0.0453935
GPRC5C	3815 chr17	69933195	69942255	0.0454182	chr17:0699	0.0454182
CHI3L2	3829 chr1	111566589	111574323	0.0454962	chr1:111571	0.0454962
LETM1	3835 chr4	1825378	1832924	0.0455064	chr4:00182	0.0455064
SNTB2	3838 chr16	67773225	67900321	0.0455504	chr16:0677	0.0455504
LMO6	3845 chrX	48927198	48931201	0.045593	chrX:04893	0.045593
HSPB7-CLC	3846 chr1	16217591	16221006	0.0455951	chr1:01621	0.0455951
FGD6	3850 chr12	94130525	94140827	0.0456199	chr12:0941	0.0456199
SAPS1	3853 chr19	60432934	60465179	0.045639	chr19:0604	0.045639
YAP1	3854 chr11	101481386	101489227	0.0456473	chr11:1014	0.0456473
FGF3	3862 chr11	69340322	69348227	0.0456818	chr11:0693	0.0456818
PDGFB	3871 chr22	37967445	37976407	0.0457127	chr22:0379	0.0457127
RALGDS	3878 chr9	134983881	134991495	0.0457561	chr9:1349	0.0457561
RPL28	3883 chr19	60581402	60592050	0.0457783	chr19:0605	0.0457783
PKP3	3884 chr11	381108	386758	0.0457788	chr11:0003	0.0457788
BTK-RPL36	3898 chrX	100527871	100532616	0.0458634	chrX:10053	0.0458634
EML2	3899 chr19	50832025	50839878	0.0458689	chr19:0508	0.0458689
SIRT2-NFKI	3902 chr19	44082298	44082468	0.045879	chr19:0440	0.045879
hsa-mir-9-3	3907 chr15	87706785	87714662	0.0458953	chr15:0877	0.0458953
U70	3908 chrX	153279981	153281747	0.0458985	chrX:15327	0.0458985
CBX4	3909 chr17	75425232	75433283	0.0459034	chr17:0754	0.0459034
ARHGEF16	3911 chr1	3364598	3372492	0.045933	chr1:00336	0.045933
SULT2B1	3916 chr19	53741968	53771422	0.0459692	chr19:0537	0.0459692
FUT8	3920 chr14	64941876	65208336	0.0460051	chr14:0649	0.0460051
ARFGAP3	3926 chr22	41580627	41588365	0.0460299	chr22:0415	0.0460299
ESRRA	3929 chr11	63824320	63839774	0.0460342	chr11:0638	0.0460342
ICAM1	3933 chr19	10238467	10257948	0.0460416	chr19:0102	0.0460416
PTBP1	3938 chr19	742949	750907	0.0460549	chr19:0007	0.0460549
CALCR	3943 chr7	92948803	93047461	0.0460806	chr7:09304	0.0460806
MGC34824	3947 chr2	38206402	38212991	0.0461003	chr2:03821	0.0461003
DNAH1	3950 chr3	52320245	52327942	0.0461231	chr3:05232	0.0461231
EPS8L3	3954 chr1	110105667	110112673	0.0461423	chr1:11011	0.0461423
PGD	3979 chr1	10381373	10384239	0.0463149	chr1:01038	0.0463149
MYH10	3982 chr17	8472271	8477796	0.0463341	chr17:0084	0.0463341
ATP6V0A4	3991 chr7	138107343	138138701	0.0463891	chr7:13810	0.0463891
SQSTM1	3992 chr5	179176526	179182731	0.0464025	chr5:17917	0.0464025
hsa-mir-124	4021 chr20	61274803	61282675	0.046545	chr20:0612	0.046545
MAPKBP1	4035 chr15	39849635	39907348	0.0466226	chr15:0398	0.0466226
HSPA12B	4045 chr20	3655893	3663776	0.0466554	chr20:0036	0.0466554
GPR146	4047 chr7	1058224	1065566	0.046657	chr7:00106	0.046657
LAPTM4A	4058 chr2	20112322	20118134	0.0467289	chr2:02011	0.0467289
BOLA1	4060 chr1	148137222	148140097	0.0467479	chr1:14813	0.0467479
HOXD9	4082 chr2	176692975	176697785	0.0468106	chr2:17669	0.0468106
RHOF	4083 chr12	120713884	120724688	0.0468337	chr12:1207	0.0468337
PLA2R1	4085 chr2	160625193	160630413	0.0468382	chr2:16062	0.0468382
LCN6	4094 chr9	138760385	138768293	0.0468638	chr9:13876	0.0468638
HPCA	4102 chr1	33119236	33127161	0.0468946	chr1:03312	0.0468946
FBXO43-PC	4106 chr8	101227479	101231924	0.04692	chr8:10123	0.04692
TGM2	4119 chr20	36224791	36232417	0.0469957	chr20:0362	0.0469957
NSUN5	4121 chr7	72359590	72363832	0.0470046	chr7:07236	0.0470046
RTN4RL2	4122 chr11	56979650	56987082	0.0470217	chr11:0569	0.0470217

P2RX1	4123 chr17	3746649	3771953	0.0470255	chr17:00376	0.0470255
NUDT14	4132 chr14	104710370	104723494	0.0470604	chr14:1047	0.0470604
SLC12A5	4151 chr20	44086053	44093819	0.0471261	chr20:0440	0.0471261
ANGPTL4	4154 chr19	8332738	8337640	0.0471359	chr19:0083	0.0471359
SLITRK5	4155 chr13	87117578	87125491	0.0471438	chr13:0871	0.0471438
CIDEB	4157 chr14	23850426	23850803	0.0471537	chr14:0238	0.0471537
GAPDH	4161 chr12	6511538	6516539	0.0471641	chr12:0065	0.0471641
UQCR	4172 chr19	1548880	1560188	0.0472634	chr19:0015	0.0472634
C12orf30	4173 chr12	111028526	111035273	0.0472652	chr12:1110	0.0472652
ELAC2	4186 chr17	12859854	12867332	0.0473174	chr17:0128	0.0473174
ABCB9	4203 chr12	122008911	122030244	0.0474293	chr12:1220	0.0474293
hsa-mir-499	4207 chr20	33036559	33041923	0.0474613	chr20:0330	0.0474613
FLJ43582	4220 chr8	38503520	38509438	0.0475207	chr8:0385	0.0475207
TOP2A	4223 chr17	35825173	35833169	0.0475375	chr17:0358	0.0475375
RING1	4224 chr6	33283785	33286046	0.0475425	chr6:0332	0.0475425
PRIMA1	4226 chr14	93321411	93329630	0.0475504	chr14:0933	0.0475504
HEL308-MF	4229 chr4	84596084	84596130	0.0475603	chr4:0845	0.0475603
SPATC1	4230 chr8	145153208	145160901	0.0475615	chr8:1451	0.0475615
GLB1L3	4246 chr11	133645977	133653360	0.0476331	chr11:1336	0.0476331
BAIAP2	4253 chr17	76618977	76626142	0.0476778	chr17:0766	0.0476778
VPS35-ORC	4258 chr16	45280585	45280979	0.047697	chr16:0452	0.047697
SLC6A4	4262 chr17	25570863	25591465	0.0477143	chr17:0255	0.0477143
SPIN3	4272 chrX	57035523	57039598	0.0477694	chrX:0570	0.0477694
WDR40B	4273 chrX	125512061	125518741	0.0477847	chrX:1255	0.0477847
C14orf48	4284 chr14	93528466	93536677	0.0478551	chr14:0935	0.0478551
UBE1	4299 chrX	46931164	46959474	0.0479376	chrX:0469	0.0479376
ITGA5	4300 chr12	53075200	53104839	0.047938	chr12:0530	0.047938
hsa-mir-564	4317 chr3	44876607	44878363	0.0479868	chr3:0448	0.0479868
C10orf119	4318 chr10	121619973	121625882	0.0479958	chr10:1216	0.0479958
RBM14	4321 chr11	66136665	66152575	0.0480222	chr11:0661	0.0480222
CACNA1G	4327 chr17	45988374	45996245	0.0480655	chr17:0459	0.0480655
MSRA	4328 chr8	9943723	9951939	0.0480752	chr8:0099	0.0480752
DIAPH2	4335 chrX	95820914	96028063	0.0481244	chrX:0958	0.0481244
RCOR2	4343 chr11	63438018	63445934	0.048159	chr11:0634	0.048159
NOM1	4363 chr7	156429740	156438148	0.0482607	chr7:1564	0.0482607
GATA6	4364 chr18	17998108	18005706	0.0482609	chr18:0179	0.0482609
C9orf140-U	4367 chr9	139084904	139092423	0.0482659	chr9:1390	0.0482659
TMEM92	4390 chr17	45701458	45708958	0.0484136	chr17:0457	0.0484136
TROAP	4393 chr12	48000074	48006138	0.0484335	chr12:0480	0.0484335
OPRS1-GA	4394 chr9	34627856	34636612	0.0484348	chr9:0346	0.0484348
TGDS-GPR	4396 chr13	94046589	94052048	0.0484492	chr13:0940	0.0484492
HPSE2	4415 chr10	100983131	100990767	0.0485555	chr10:1009	0.0485555
hsa-mir-223	4418 chrX	65150058	65156935	0.0485766	chrX:0651	0.0485766
TAGLN	4432 chr11	116573490	116580563	0.0486722	chr11:1165	0.0486722
NLGN4Y	4454 chrY	15139658	15245982	0.0487578	chrY:0151	0.0487578
IRS1	4455 chr2	227369378	227378071	0.048762	chr2:2273	0.048762
ZNF31	4458 chr1	33705422	33713083	0.0487711	chr1:0337	0.0487711
TENC1	4469 chr12	51722522	51732730	0.0488437	chr12:0517	0.0488437
TCEB2	4478 chr16	2764681	2772744	0.0488795	chr16:0027	0.0488795
TMEM101	4487 chr17	39445503	39451853	0.0489115	chr17:0394	0.0489115
TMEM145	4507 chr19	47507154	47511412	0.0490187	chr19:0475	0.0490187
SASS6-CCI	4511 chr1	100371152	100371196	0.0490431	chr1:1003	0.0490431
CHRNA4	4516 chr20	61460636	61468532	0.0490931	chr20:0614	0.0490931
KIF13A	4523 chr6	18093262	18101281	0.0491239	chr6:0180	0.0491239
TMEM80	4525 chr11	680891	685651	0.0491308	chr11:0006	0.0491308
GALR3	4532 chr22	36543824	36551777	0.0491612	chr22:0365	0.0491612
CALML4	4535 chr15	66283233	66286188	0.0491661	chr15:0662	0.0491661
RPP25	4537 chr15	73033565	73042242	0.0491739	chr15:0730	0.0491739

METTL5	4551 chr2	170387190	170395001	0.0492581	chr2:170390	0.0492581
TXNL6-SLC	4553 chr19	17432721	17442153	0.0492714	chr19:0174	0.0492714
SLC40A1	4573 chr2	190151235	190159320	0.0493603	chr2:19015	0.0493603
BCAS3	4576 chr17	56106352	56112782	0.0493674	chr17:0561	0.0493674
PCTK1	4586 chrX	46959699	46974351	0.0494453	chrX:04695	0.0494453
MYH6	4607 chr14	22925331	22951579	0.0495639	chr14:0229	0.0495639
INHA	4612 chr2	220139830	220147683	0.049581	chr2:22014	0.049581
KIAA0152	4614 chr12	119607113	119611967	0.0495944	chr12:1196	0.0495944
RHPN2	4615 chr19	38245558	38253045	0.0496001	chr19:0382	0.0496001
BAT5-C6orf	4632 chr6	31779162	31782519	0.0496723	chr6:03177	0.0496723
BCL11B	4646 chr14	98805000	98813103	0.0497475	chr14:0988	0.0497475
ARPC2	4666 chr2	218784694	218792935	0.0498569	chr2:21878	0.0498569
TP53BP1-N	4670 chr15	41590118	41597007	0.0498733	chr15:0415	0.0498733
RSL1D1	4673 chr16	11850948	11856356	0.0498828	chr16:0118	0.0498828
KIAA0404-F	4675 chr11	64441417	64448498	0.0499187	chr11:0644	0.0499187

HPSE- bound genes (promoter region)

ST subset (356 genes)

Gene	Rank (Hep-2)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
FNBP1-GPI	109	chr9	131845863	131854520	0.0191227	chr9:13184	0.0191227
GLUL	197	chr1	180624667	180633067	0.0213239	chr1:18062	0.0213239
CYHR1-KIF	241	chr8	145661654	145662485	0.0220756	chr8:14566	0.0220756
PGRMC2	308	chr4	129426034	129433694	0.0231493	chr4:12942	0.0231493
KBTBD2	312	chr7	32895762	32902507	0.023223	chr7:03289	0.023223
ASPH	329	chr8	62762332	62795141	0.0233948	chr8:0627	0.0233948
KIF9-KLHL1	338	chr3	47299132	47299398	0.0234838	chr3:0472	0.0234838
C1orf183	344	chr1	112080926	112101764	0.0235434	chr1:1120	0.0235434
FEZF1	348	chr7	121729259	121737236	0.0236055	chr7:1217	0.0236055
HNRPD	356	chr4	83511336	83518809	0.0236787	chr4:0835	0.0236787
UBE2F	364	chr2	238535557	238542899	0.0237765	chr2:2385	0.0237765
FILIP1L	387	chr3	101075292	101321439	0.0239308	chr3:1010	0.0239308
MAK10	399	chr9	87740438	87748406	0.0241083	chr9:0877	0.0241083
ZHX2	460	chr8	123859030	123865678	0.024864	chr8:1238	0.024864
CPOX	521	chr3	99792739	99800280	0.0256007	chr3:0997	0.0256007
MKLN1	536	chr7	130658385	130665682	0.0258055	chr7:1306	0.0258055
ZNF416-ZIK	598	chr19	62782096	62787359	0.0263676	chr19:0627	0.0263676
SEPHS1	646	chr10	13425254	13434653	0.0267822	chr10:0134	0.0267822
PON3	672	chr7	94861651	94869092	0.0270484	chr7:0948	0.0270484
MYO10	813	chr5	16986726	16993675	0.0282564	chr5:0169	0.0282564
SLC22A3	858	chr6	160684032	160691861	0.0286356	chr6:1606	0.0286356
KHK	874	chr2	27162843	27166105	0.0287529	chr2:0271	0.0287529
PMAIP1	895	chr18	55713261	55720851	0.0289534	chr18:055	0.0289534
F2R	941	chr5	76042224	76050349	0.0292161	chr5:0760	0.0292161
CORO2A	942	chr9	99926639	100000239	0.0292364	chr9:0999	0.0292364
RBPMS	956	chr8	30357082	30364620	0.0294003	chr8:0303	0.0294003
HRBL	969	chr7	99969905	99977403	0.0295725	chr7:0999	0.0295725
KIAA2013-F	994	chr1	11909267	11917265	0.0297299	chr1:0119	0.0297299
PENK	1007	chr8	57518842	57526225	0.0297939	chr8:0575	0.0297939
SSBP3	1010	chr1	54641972	54649389	0.0298147	chr1:0546	0.0298147
OR2S2	1020	chr9	35946590	35953569	0.0299129	chr9:0359	0.0299129
DOCK7	1031	chr1	62924285	62931994	0.030059	chr1:0629	0.030059
RAPH1	1070	chr2	204105829	204113584	0.0302973	chr2:2041	0.0302973
SFXN5	1073	chr2	73150224	73153963	0.0303174	chr2:0731	0.0303174
PSMD5	1089	chr9	122643219	122650556	0.0304442	chr9:1226	0.0304442
ELMOD2	1111	chr4	141662713	141667324	0.0306049	chr4:1416	0.0306049
CYP2U1	1174	chr4	109066902	109074062	0.031064	chr4:1090	0.031064
EVC2-EVC	1176	chr4	5761367	5763471	0.0310654	chr4:0057	0.0310654
TIGD2	1185	chr4	90249763	90255555	0.0310978	chr4:0902	0.0310978

H2AFV	1195 chr7	44851569	44857779	0.0311547	chr7:044854	0.0311547
LOC13094C	1202 chr2	159021493	159021537	0.0312012	chr2:159021	0.0312012
USP1	1203 chr1	62669713	62677304	0.0312046	chr1:062674	0.0312046
CEP72	1281 chr5	660124	665837	0.0316632	chr5:000665	0.0316632
UGP2	1285 chr2	63916398	63924975	0.031692	chr2:063922	0.031692
DLC1	1296 chr8	13032495	13421534	0.0317728	chr8:013035	0.0317728
SPBC24	1309 chr19	11127288	11132317	0.0318823	chr19:01112	0.0318823
HNRPK	1329 chr9	85772213	85785246	0.0320447	chr9:085785	0.0320447
IFNAR1	1351 chr21	33615171	33621381	0.0321401	chr21:03361	0.0321401
LOC339745	1386 chr2	138970363	138978192	0.032416	chr2:138975	0.032416
SAMD4A	1389 chr14	54098695	54106866	0.0324389	chr14:05410	0.0324389
KIAA1212	1411 chr2	55497808	55505972	0.0325526	chr2:055500	0.0325526
MORN1-RE	1415 chr1	2312846	2313080	0.0325704	chr1:002311	0.0325704
KIAA0922	1424 chr4	154602810	154609040	0.0326404	chr4:154600	0.0326404
RAB1F	1448 chr1	201123895	201130359	0.0328411	chr1:201124	0.0328411
RNF32	1452 chr7	156120701	156130368	0.0328534	chr7:156125	0.0328534
FLJ20701	1473 chr2	229833684	229849674	0.0330419	chr2:229840	0.0330419
CHD1	1484 chr5	98288002	98295341	0.03312	chr5:098292	0.03312
ST8SIA1	1486 chr12	22375986	22383383	0.0331362	chr12:02237	0.0331362
ITGA1	1487 chr5	52119548	52134495	0.0331376	chr5:052119	0.0331376
CCNG2	1509 chr4	78292338	78299985	0.0333192	chr4:078292	0.0333192
LENG8	1522 chr19	59649932	59664683	0.0334319	chr19:05964	0.0334319
PRDM5	1548 chr4	122060791	122066615	0.0335887	chr4:122060	0.0335887
SKP1A	1557 chr5	133538137	133544836	0.0336431	chr5:133541	0.0336431
TFE3	1574 chrX	48785314	48792287	0.0337614	chrX:048785	0.0337614
KCNH3	1587 chr12	48214223	48221947	0.033842	chr12:04821	0.033842
EPB41L4A	1597 chr5	111525852	111788379	0.033915	chr5:111782	0.033915
NCBP1	1599 chr9	99426771	99435488	0.0339242	chr9:099435	0.0339242
THPO-CHR	1615 chr3	185578683	185580430	0.0340124	chr3:185579	0.0340124
WHSC1L1-I	1624 chr8	38359032	38363028	0.0340313	chr8:038362	0.0340313
EMILIN3	1646 chr20	39426229	39433775	0.0341955	chr20:03942	0.0341955
JAK2	1647 chr9	4969761	5012956	0.0341986	chr9:004974	0.0341986
C18orf10	1668 chr18	32663066	32668496	0.034281	chr18:03266	0.034281
CYR61	1685 chr1	85813751	85821729	0.0343656	chr1:085815	0.0343656
PYY-NAGS	1696 chr17	39437516	39437560	0.0344236	chr17:03943	0.0344236
GEM	1713 chr8	95341363	95348607	0.0345383	chr8:095344	0.0345383
YIPF6	1734 chrX	67630921	67637933	0.0346453	chrX:067630	0.0346453
SLC1A4	1736 chr2	65065358	65072797	0.0346482	chr2:065065	0.0346482
FABP3	1756 chr1	31616130	31623972	0.0347796	chr1:031616	0.0347796
CBLB	1758 chr3	107066799	107076045	0.0347966	chr3:107070	0.0347966
KCTD9-CD1	1784 chr8	25371927	25372430	0.0349729	chr8:025372	0.0349729
POU2F1	1793 chr1	165451317	165567586	0.0350187	chr1:165451	0.0350187
FLJ32447	1818 chr2	222866565	222871029	0.0351663	chr2:222866	0.0351663
CHN2	1824 chr7	29195644	29203305	0.0351754	chr7:029195	0.0351754
hsa-mir-210	1848 chr11	558208	566427	0.0352907	chr11:00056	0.0352907
TEX10	1852 chr9	102152691	102159422	0.0353116	chr9:102155	0.0353116
UPF2	1867 chr10	12115947	12129097	0.035394	chr10:01211	0.035394
LRRFIP1	1870 chr2	238260084	238345204	0.0354279	chr2:238260	0.0354279
B4GALT6	1878 chr18	27516375	27524047	0.0354635	chr18:02751	0.0354635
C2orf19	1885 chr2	238727093	238734860	0.0355245	chr2:238734	0.0355245
INSRR-NTF	1904 chr1	155095320	155097278	0.0355966	chr1:155095	0.0355966
RFK	1923 chr9	78197062	78204436	0.035699	chr9:078199	0.035699
EBNA1BP2	1985 chr1	43410528	43410573	0.0361128	chr1:043410	0.0361128
DPH3-OXN	1989 chr3	16281496	16281680	0.0361387	chr3:016281	0.0361387
ZNF57	1996 chr19	2846831	2854218	0.0361689	chr19:00284	0.0361689
ASAH1	1997 chr8	17983510	17991614	0.0361776	chr8:017986	0.0361776
VCPIP1-C8	2004 chr8	67741987	67751019	0.0362465	chr8:067744	0.0362465
hsa-mir-219	2007 chr6	33282714	33283663	0.0362595	chr6:033282	0.0362595

FGF2	2008 chr4	123962465	123969701	0.0362604	chr4:12396	0.0362604
H2AFZ	2024 chr4	101088848	101095713	0.0363552	chr4:10109	0.0363552
SLC5A6	2025 chr2	27288566	27293494	0.0363565	chr2:02728	0.0363565
C2orf28	2035 chr2	27281598	27288261	0.0364056	chr2:02728	0.0364056
YY1	2039 chr14	99769669	99777724	0.0364171	chr14:0997	0.0364171
IFRD2	2048 chr3	50302594	50305134	0.0364766	chr3:05030	0.0364766
CENPT-TH	2057 chr16	66425369	66433621	0.0365313	chr16:0664	0.0365313
SERINC5	2059 chr5	79585984	79592954	0.0365357	chr5:07958	0.0365357
PEX6-PPP2	2062 chr6	43054864	43060205	0.036549	chr6:04305	0.036549
CUTL1	2075 chr7	101240714	101250050	0.0366217	chr7:10124	0.0366217
CNKSR2	2084 chrX	21297091	21305376	0.036682	chrX:02130	0.036682
PCNA-CDS	2087 chr20	5055272	5055449	0.0366875	chr20:0050	0.0366875
CPNE2	2088 chr16	55678541	55686508	0.0366994	chr16:0556	0.0366994
MGC61571	2100 chr3	28254879	28259500	0.0367587	chr3:02825	0.0367587
COG5	2104 chr7	106991795	106994911	0.0367726	chr7:10699	0.0367726
FAM122B	2105 chrX	133755375	133758812	0.0367813	chrX:13375	0.0367813
TNRC6B	2107 chr22	38765520	38773686	0.0367881	chr22:0387	0.0367881
SFRP4-EPI	2109 chr7	37922955	37926680	0.0368143	chr7:03792	0.0368143
ZNF689	2124 chr16	30527745	30534369	0.0368651	chr16:0305	0.0368651
APBA1	2144 chr9	71474673	71481896	0.0370064	chr9:07147	0.0370064
TGFBRAP1	2145 chr2	105312604	105320292	0.0370169	chr2:10531	0.0370169
TEX264	2195 chr3	51674894	51713230	0.0372534	chr3:05168	0.0372534
CA2	2214 chr8	86559612	86565978	0.0373384	chr8:08656	0.0373384
GPR107	2215 chr9	131855599	131858267	0.0373713	chr9:13185	0.0373713
MED12L	2220 chr3	152281521	152289788	0.0373917	chr3:15228	0.0373917
ZNHIT1	2222 chr7	100642349	100647706	0.0373946	chr7:10064	0.0373946
DPYSL4	2231 chr10	133848432	133853020	0.037434	chr10:1338	0.037434
MARCKSL1	2238 chr1	32571907	32579916	0.0374691	chr1:03257	0.0374691
HMGB3	2243 chrX	149896974	149905034	0.0374871	chrX:14990	0.0374871
ZFP161	2249 chr18	5280856	5288825	0.037512	chr18:0052	0.037512
PTPLB	2253 chr3	124784185	124790636	0.0375407	chr3:12478	0.0375407
STARD3	2290 chr17	35046384	35073127	0.0377336	chr17:0350	0.0377336
CREB1	2300 chr2	208097688	208104954	0.0377946	chr2:20810	0.0377946
KIN-ATP5C	2312 chr10	7870037	7870081	0.0378267	chr10:0078	0.0378267
TP53RK	2314 chr20	44751699	44756706	0.0378324	chr20:0447	0.0378324
MAP7	2319 chr6	136910957	136918878	0.0378766	chr6:13691	0.0378766
DERA	2326 chr12	15950644	15957989	0.0379011	chr12:0159	0.0379011
NGRN	2376 chr15	88606039	88612816	0.0381059	chr15:0886	0.0381059
TMEM165	2393 chr4	55952208	55959473	0.0382017	chr4:05595	0.0382017
FUCA2	2413 chr6	143872020	143879539	0.0382859	chr6:14387	0.0382859
TRMT1-BTE	2435 chr19	13088312	13089953	0.0384303	chr19:0130	0.0384303
C1orf125	2470 chr1	177596634	177604169	0.038649	chr1:17760	0.038649
RHBDD3-E	2493 chr22	27993904	27994176	0.0387292	chr22:0279	0.0387292
HTR1B	2501 chr6	78227360	78235195	0.0387664	chr6:07823	0.0387664
TUFT1	2511 chr1	149777777	149779392	0.03881	chr1:14977	0.03881
HOP	2521 chr4	57214456	57248117	0.0388479	chr4:05721	0.0388479
snR39B	2526 chr3	187984178	187985225	0.0388564	chr3:18798	0.0388564
SCML1	2543 chrX	17664063	17667516	0.0389306	chrX:01766	0.0389306
MGC11102	2553 chr11	65526162	65527633	0.0390174	chr11:0655	0.0390174
CCDC124	2571 chr19	17903915	17910382	0.039122	chr19:0179	0.039122
MUC1-hsa-l	2608 chr1	153429374	153431516	0.0393495	chr1:15342	0.0393495
BAI3	2612 chr6	69399924	69407809	0.0393867	chr6:06940	0.0393867
WAC	2647 chr10	28856551	28921271	0.0395817	chr10:0288	0.0395817
DBX1	2678 chr11	20136027	20143927	0.0397279	chr11:0201	0.0397279
RAB37	2681 chr17	70176455	70255082	0.0397373	chr17:0702	0.0397373
ESR1	2715 chr6	152165020	152173090	0.03989	chr6:15217	0.03989
MRPL12	2718 chr17	77280010	77284959	0.0399072	chr17:0772	0.0399072
PALM2-AK	2738 chr9	111577145	111582408	0.039993	chr9:11158	0.039993

DR1	2740	chr1	93578687	93587216	0.0399987	chr1:093583	0.0399987
MIPEP	2744	chr13	23361597	23361933	0.0400066	chr13:02336	0.0400066
MSX1	2758	chr4	4906967	4915069	0.0401013	chr4:004911	0.0401013
LTB4DH	2765	chr9	113399385	113406751	0.0401238	chr9:113401	0.0401238
IDI1-WDR3	2767	chr10	1085220	1092709	0.0401329	chr10:00108	0.0401329
NPR2	2770	chr9	35776711	35784908	0.0401434	chr9:03578	0.0401434
TRIM62	2772	chr1	33417466	33424204	0.0401471	chr1:033420	0.0401471
SLC35C1	2786	chr11	45778842	45786275	0.0402091	chr11:04578	0.0402091
NAT12	2805	chr14	56921936	56929542	0.0403058	chr14:05692	0.0403058
USP37-RQC	2816	chr2	219141337	219141904	0.040362	chr2:21914	0.040362
ARHGEF1	2821	chr19	47077391	47082749	0.0404047	chr19:04708	0.0404047
BSND	2822	chr1	55232448	55239906	0.0404147	chr1:055232	0.0404147
PLXNA2	2839	chr1	206481526	206489141	0.0404725	chr1:20648	0.0404725
DDX5-CCD	2842	chr17	59933062	59933636	0.0404944	chr17:05993	0.0404944
PLCD3-ACE	2850	chr17	40565554	40568493	0.0405509	chr17:04056	0.0405509
POLR2L-TS	2857	chr11	832585	832629	0.0405847	chr11:00083	0.0405847
GDI2	2859	chr10	5892979	5900337	0.0405967	chr10:00589	0.0405967
FLJ44815-T	2860	chr17	29930689	29931839	0.0406034	chr17:02993	0.0406034
PHF8	2861	chrX	54083401	54092153	0.0406107	chrX:05408	0.0406107
DAG1	2911	chr3	49478221	49484962	0.0408833	chr3:04948	0.0408833
SRGAP1	2915	chr12	62519410	62527006	0.0409176	chr12:06252	0.0409176
KIF6	2919	chr6	39798659	39806570	0.0409389	chr6:03980	0.0409389
DDX50	2968	chr10	70325846	70332759	0.04112	chr10:07033	0.04112
PCDH9	2984	chr13	66698123	66706030	0.0412074	chr13:06670	0.0412074
CXADR	3019	chr21	17803331	17809265	0.0413785	chr21:01780	0.0413785
BUB3	3034	chr10	124900211	124906800	0.0414619	chr10:12490	0.0414619
ZNF555	3039	chr19	2787380	2794785	0.0414812	chr19:00278	0.0414812
OGDH	3040	chr7	44607246	44613786	0.0414915	chr7:04461	0.0414915
DUS4L	3054	chr7	106986807	107006128	0.04154	chr7:10699	0.04154
TMEM15	3057	chr9	130746008	130755235	0.0415599	chr9:13075	0.0415599
EFNB3	3063	chr17	7547758	7552142	0.0415978	chr17:00754	0.0415978
HOXD4	3065	chr2	176723507	176726977	0.0416	chr2:17672	0.0416
C10orf63-TI	3066	chr10	25345072	25345515	0.0416043	chr10:02534	0.0416043
RXFP3	3075	chr5	33966793	33975070	0.0416615	chr5:03397	0.0416615
RUSC2	3115	chr9	35476044	35482529	0.0418614	chr9:03547	0.0418614
TRNT1	3127	chr3	3142339	3145732	0.041959	chr3:00314	0.041959
SULF2	3129	chr20	45845887	45853102	0.0419652	chr20:04584	0.0419652
NPHS1-KIR	3134	chr19	41035097	41039586	0.0419793	chr19:04103	0.0419793
FUT7	3145	chr9	139044535	139050710	0.0420115	chr9:13905	0.0420115
UBP1	3160	chr3	33454091	33458732	0.0421008	chr3:03345	0.0421008
SIRT5	3169	chr6	13677855	13720519	0.0421391	chr6:01368	0.0421391
CPT1C	3194	chr19	54883711	54888361	0.0422864	chr19:05488	0.0422864
CCND3	3200	chr6	42015122	42022406	0.0423278	chr6:04201	0.0423278
RTN4RL1-L	3215	chr17	1875184	1880195	0.0423787	chr17:00187	0.0423787
ACSL1	3236	chr4	185968722	185988640	0.0424841	chr4:18598	0.0424841
D15Wsu75e	3246	chr22	40346841	40347223	0.0425373	chr22:04034	0.0425373
BMF	3249	chr15	38183186	38193752	0.0425429	chr15:03818	0.0425429
EIF3S1	3266	chr15	42611100	42618511	0.0426236	chr15:0426	0.0426236
C1orf69	3269	chr1	226414773	226421161	0.0426307	chr1:22641	0.0426307
GRID1	3296	chr10	88113713	88121661	0.0428111	chr10:08811	0.0428111
C20orf23	3301	chr20	16499427	16507270	0.0428266	chr20:01650	0.0428266
UTRN	3315	chr6	144649327	144657098	0.042892	chr6:14464	0.042892
LRAT	3323	chr4	155876128	155887382	0.0429225	chr4:15588	0.0429225
LOC388969	3347	chr2	85692776	85696732	0.0430385	chr2:08569	0.0430385
SLC34A3	3355	chr9	139241505	139250840	0.0430959	chr9:13924	0.0430959
ADRA1D	3386	chr20	4175311	4183030	0.0432472	chr20:00417	0.0432472
SLC25A14	3398	chrX	129297195	129304437	0.0433175	chrX:12930	0.0433175
WDR57-ZC	3407	chr1	31542332	31542386	0.0433569	chr1:03154	0.0433569

CDYL	3409	chr6	4646184	4723988	0.0433606	chr6:004720	0.0433606
TSSK6-NDU	3427	chr19	19487490	19487540	0.0434288	chr19:01948	0.0434288
NID2	3441	chr14	51603172	51610255	0.0434794	chr14:05160	0.0434794
PSMD2	3443	chr3	185493822	185502040	0.0434829	chr3:185493	0.0434829
HDAC11	3490	chr3	13491442	13498307	0.0437353	chr3:013490	0.0437353
SAFB2-SAF	3499	chr19	5574028	5574072	0.0437973	chr19:00557	0.0437973
SEPT7	3506	chr7	35801792	35809819	0.0438224	chr7:035801	0.0438224
SCARA3	3508	chr8	27542756	27550115	0.0438343	chr8:027542	0.0438343
SETD6	3513	chr16	57106464	57109342	0.0438554	chr16:05710	0.0438554
ANAPC2-S	3535	chr9	139202868	139202912	0.0439862	chr9:139202	0.0439862
TALDO1	3537	chr11	732730	739882	0.043992	chr11:00073	0.043992
CACNA2D2	3548	chr3	50513479	50521221	0.0440479	chr3:050513	0.0440479
EGFR	3549	chr7	55050686	55056947	0.0440509	chr7:055050	0.0440509
TIP39	3552	chr19	54616109	54623999	0.0440738	chr19:05461	0.0440738
ENAH	3558	chr1	223904827	223912726	0.0441111	chr1:223904	0.0441111
ACTN1	3559	chr14	68513326	68520964	0.044112	chr14:06851	0.044112
ONECUT1	3562	chr15	50866922	50874923	0.0441311	chr15:05086	0.0441311
PLCB2	3579	chr15	38384871	38392860	0.0442288	chr15:03838	0.0442288
PSMB2	3587	chr1	35877610	35883913	0.0442655	chr1:035877	0.0442655
HMGCR	3593	chr5	74663414	74670816	0.0443096	chr5:074666	0.0443096
TMUB2	3596	chr17	39619862	39624331	0.0443223	chr17:03961	0.0443223
DBNDD1	3599	chr16	88601392	88613288	0.0443312	chr16:08860	0.0443312
SDF2L1	3610	chr22	20323738	20328431	0.0443868	chr22:02032	0.0443868
SMAD3	3613	chr15	65141598	65148059	0.0443917	chr15:06514	0.0443917
DKFZP564	3640	chr11	63195788	63205359	0.0444969	chr11:06319	0.0444969
NODAL	3642	chr10	71869171	71876785	0.0445038	chr10:07186	0.0445038
MST4	3645	chrX	130979524	130987797	0.0445117	chrX:130979	0.0445117
RIPK4	3655	chr21	42057750	42065793	0.0445621	chr21:04205	0.0445621
STCH	3665	chr21	14675341	14680927	0.0446471	chr21:01467	0.0446471
C20orf30	3678	chr20	5039334	5043628	0.0446918	chr20:00503	0.0446918
SND1	3679	chr7	127073949	127427454	0.0446966	chr7:127073	0.0446966
IQCB1-EAF	3697	chr3	123036633	123036677	0.0447906	chr3:123036	0.0447906
ASPM	3700	chr1	195379838	195384274	0.0448008	chr1:195382	0.0448008
CSPG4-OD	3702	chr15	73796944	73802086	0.0448046	chr15:07380	0.0448046
KLF7	3711	chr2	207736313	207742506	0.0448414	chr2:207736	0.0448414
KCND3	3717	chr1	112330996	112338351	0.0448555	chr1:112333	0.0448555
hsa-mir-424	3718	chrX	133508345	133513895	0.0448704	chrX:133511	0.0448704
MTERFD1-I	3719	chr8	97343025	97343324	0.0448711	chr8:097343	0.0448711
PKD1-RAB2	3727	chr16	2128691	2135871	0.0449223	chr16:00212	0.0449223
OVCA2	3736	chr17	1882047	1893965	0.0449788	chr17:00188	0.0449788
LONP1-TMI	3749	chr19	5671244	5671602	0.0450694	chr19:00567	0.0450694
PTPRZ1	3751	chr7	121295374	121303116	0.0450762	chr7:121303	0.0450762
SNAI2	3752	chr8	49993851	50001972	0.0450806	chr8:049993	0.0450806
PPP2R2B	3754	chr5	146235558	146421236	0.0450868	chr5:146235	0.0450868
EIF4ENIF1-	3757	chr22	30215927	30222100	0.0451373	chr22:03021	0.0451373
PPID	3764	chr4	159861722	159869437	0.0451788	chr4:159861	0.0451788
RPP40	3765	chr6	4947068	4954619	0.0451812	chr6:004947	0.0451812
STRN3	3769	chr14	30565440	30570855	0.0451996	chr14:03056	0.0451996
ANKRD16-f	3791	chr10	5971489	5972230	0.0452991	chr10:00597	0.0452991
ITIH5	3799	chr10	7746675	7754423	0.0453396	chr10:00774	0.0453396
KDEL2	3803	chr7	6487962	6493173	0.0453499	chr7:006493	0.0453499
CC2D1B	3804	chr1	52596025	52609194	0.0453597	chr1:052596	0.0453597
ILKAP	3821	chr2	238774495	238777550	0.0454611	chr2:238777	0.0454611
ABHD14B-f	3822	chr3	51983061	51984118	0.0454634	chr3:051983	0.0454634
SREBF2	3824	chr22	40553716	40629229	0.0454765	chr22:04055	0.0454765
POLG	3828	chr15	87676581	87684225	0.045486	chr15:08767	0.045486
FUBP3	3831	chr9	132440030	132447365	0.0454992	chr9:132444	0.0454992
MPDU1	3843	chr17	7426364	7432162	0.0455806	chr17:00742	0.0455806

SENP6	3855 chr6	76362862	76370712	0.0456487	chr6:076368	0.0456487
EIF4E3-GPI	3864 chr3	71885617	71885910	0.0456836	chr3:071888	0.0456836
ZNF148	3867 chr3	126574548	126582360	0.0456966	chr3:126571	0.0456966
GBA2	3875 chr9	35739382	35742779	0.0457482	chr9:035739	0.0457482
KCNB1	3888 chr20	47529960	47537421	0.0457969	chr20:0475	0.0457969
CEP63	3892 chr3	135681811	135691051	0.0458388	chr3:135681	0.0458388
ADCK4-ITP	3932 chr19	45914502	45914754	0.0460411	chr19:0459	0.0460411
NUDT6	3953 chr4	124058274	124063450	0.0461309	chr4:12406	0.0461309
TSC22D1	3967 chr13	43906377	44054200	0.0462322	chr13:0439	0.0462322
ITFG1-PHK	3976 chr16	46052584	46052628	0.0463086	chr16:0460	0.0463086
RASGRP1	3986 chr15	36641794	36647088	0.0463595	chr15:0366	0.0463595
NDUFA11-V	3993 chr19	5855088	5855802	0.0464077	chr19:0058	0.0464077
FAM104A-C	3995 chr17	68740037	68740827	0.0464207	chr17:0687	0.0464207
CA13	4001 chr8	86344103	86347624	0.0464534	chr8:08634	0.0464534
TCEB1-TM	4005 chr8	75047124	75050780	0.0464773	chr8:07504	0.0464773
CDC42BPB	4008 chr14	102591110	102598603	0.0464859	chr14:1025	0.0464859
SPG7	4019 chr16	88098030	88151691	0.046534	chr16:0881	0.046534
VGLL3	4032 chr3	87120644	87128306	0.0466026	chr3:08712	0.0466026
SSTR5	4052 chr16	1063352	1071361	0.0466804	chr16:0010	0.0466804
PCDH8	4055 chr13	52318306	52325848	0.0467103	chr13:0523	0.0467103
TFAP2C	4063 chr20	54632708	54640470	0.0467652	chr20:0546	0.0467652
NEUROD2	4073 chr17	35015186	35023120	0.0467889	chr17:0350	0.0467889
METTL9	4078 chr16	21514677	21576924	0.0468055	chr16:0215	0.0468055
ZNF436-C1	4092 chr1	23567524	23568010	0.0468585	chr1:02356	0.0468585
ACA48	4100 chr17	7416899	7418756	0.0468871	chr17:0074	0.0468871
CXCL2	4104 chr4	75181533	75189235	0.0469081	chr4:07518	0.0469081
EVI1	4111 chr3	170344352	170352485	0.0469388	chr3:17034	0.0469388
BRD9	4112 chr5	940713	945916	0.0469419	chr5:00094	0.0469419
PTK6	4130 chr20	61636740	61642285	0.0470445	chr20:0616	0.0470445
TEX14-RAC	4136 chr17	54124441	54124824	0.0470751	chr17:0541	0.0470751
MYLK	4149 chr3	125083556	125089990	0.0471135	chr3:12508	0.0471135
TA-NFKBH-	4168 chr19	41083469	41084158	0.0472366	chr19:0410	0.0472366
CHES1	4183 chr14	88691136	88957132	0.0473131	chr14:0889	0.0473131
ITGB1BP3	4189 chr19	3879413	3885550	0.0473374	chr19:0038	0.0473374
FMNL2	4192 chr2	152894915	152902673	0.0473461	chr2:15289	0.0473461
IL28A	4205 chr19	44446309	44453165	0.0474349	chr19:0444	0.0474349
M6PR	4218 chr12	8991127	8996104	0.0475157	chr12:0089	0.0475157
CDKL3-UB	4228 chr5	133730159	133734670	0.0475547	chr5:13373	0.0475547
C14orf149-	4232 chr14	59020904	59020948	0.0475853	chr14:0590	0.0475853
IRAK3	4238 chr12	64868025	64871753	0.047604	chr12:0648	0.047604
GFPT1	4256 chr2	69465584	69473181	0.0476914	chr2:06946	0.0476914
MAD1L1	4268 chr7	2234059	2240477	0.0477441	chr7:00223	0.0477441
AQP11	4270 chr11	76975408	76981190	0.0477587	chr11:0769	0.0477587
DCBLD2	4278 chr3	100100397	100108694	0.0478257	chr3:10010	0.0478257
CBLN3-KIA	4283 chr14	23968733	23969028	0.0478459	chr14:0239	0.0478459
LPIN1	4306 chr2	11798825	11806689	0.0479557	chr2:01180	0.0479557
PELO	4313 chr5	52114055	52134104	0.0479781	chr5:05211	0.0479781
ERLIN1	4315 chr10	101933015	101938127	0.0479811	chr10:1019	0.0479811
KCNK10	4316 chr14	87804897	87868432	0.0479826	chr14:0878	0.0479826
FLJ22662	4319 chr12	14609936	14617574	0.0480087	chr12:0146	0.0480087
CFL1-MUS	4326 chr11	65382443	65384492	0.0480396	chr11:0653	0.0480396
AUH	4345 chr9	93161494	93169532	0.048165	chr9:09316	0.048165
MTERF	4346 chr7	91345444	91352620	0.0481659	chr7:09134	0.0481659
RHEB	4356 chr7	150845548	150852640	0.0482079	chr7:15084	0.0482079
SLC44A5	4370 chr1	75847507	75854814	0.0482777	chr1:07585	0.0482777
PAX6	4371 chr11	31787054	31794909	0.0482817	chr11:0317	0.0482817
TGFBR1	4378 chr9	100903767	100909753	0.0483477	chr9:10090	0.0483477
PTPN9	4401 chr15	73656287	73663773	0.0484713	chr15:0736	0.0484713

TRIM24	4408	chr7	137791390	137797164	0.0484961	chr7:137791390-137797164	0.0484961
ATF4	4420	chr22	38244221	38249419	0.0485853	chr22:38244221-38249419	0.0485853
RNPC3	4435	chr1	103835693	103843730	0.0486856	chr1:103835693-103843730	0.0486856
MAN1B1	4436	chr9	139098926	139103688	0.0486893	chr9:139098926-139103688	0.0486893
RNASEN-C	4439	chr5	31568049	31568093	0.0487042	chr5:31568049-31568093	0.0487042
RNF4	4441	chr4	2435321	2441912	0.048709	chr4:2435321-2441912	0.048709
OTP	4442	chr5	76967666	76975767	0.0487115	chr5:76967666-76975767	0.0487115
ST18	4444	chr8	53482535	53490313	0.04872	chr8:53482535-53490313	0.04872
OSR2	4449	chr8	100020477	100028281	0.0487459	chr8:100020477-100028281	0.0487459
ETF1	4457	chr5	137904206	137912263	0.0487709	chr5:137904206-137912263	0.0487709
NDUFB7	4465	chr19	14542993	14544283	0.0488107	chr19:14542993-14544283	0.0488107
HPS5-GTF2	4484	chr11	18300343	18300710	0.0488985	chr11:18300343-18300710	0.0488985
FAM3A	4501	chrX	153396922	153401502	0.0489882	chrX:153396922-153401502	0.0489882
C22orf32	4509	chr22	40805605	40808105	0.0490314	chr22:40805605-40808105	0.0490314
NME6	4536	chr3	48315331	48323328	0.0491724	chr3:48315331-48323328	0.0491724
PTEN	4538	chr10	89608145	89615815	0.0491793	chr10:89608145-89615815	0.0491793
CXXC1	4545	chr18	46062697	46073371	0.0491982	chr18:46062697-46073371	0.0491982
PLK1	4549	chr16	23592287	23600069	0.0492446	chr16:23592287-23600069	0.0492446
DHX36	4550	chr3	155522603	155526544	0.0492542	chr3:155522603-155526544	0.0492542
ERBB2	4557	chr17	35097985	35138346	0.0492886	chr17:35097985-35138346	0.0492886
RASGRF1	4606	chr15	77167985	77175422	0.049561	chr15:77167985-77175422	0.049561
SIAH2	4625	chr3	151960816	151968943	0.0496394	chr3:151960816-151968943	0.0496394
ACR	4633	chr22	49518500	49525847	0.0496824	chr22:49518500-49525847	0.0496824
hsa-mir-34c	4642	chr11	110889010	110889387	0.0497372	chr11:110889010-110889387	0.0497372
NXF1	4652	chr11	62326962	62330874	0.0497764	chr11:62326962-62330874	0.0497764
ZNF345	4677	chr19	42031312	42034839	0.0499423	chr19:42031312-42034839	0.0499423
DUSP6	4686	chr12	88267527	88275916	0.0499806	chr12:88267527-88275916	0.0499806

HPSE- bound genes (5'-transcribe region)

NS subset (100 genes)

Gene	Rank (Hep-I)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
RABL3	194	chr3	121941663	121943969	0.0131583	chr3:121941663-121943969	0.0131583
TMEM142C	232	chr16	30862929	30873749	0.0136866	chr16:30862929-30873749	0.0136866
CCDC53	243	chr12	100977458	100985326	0.0138668	chr12:100977458-100985326	0.0138668
RAB33A	551	chrX	129133458	129136232	0.0176868	chrX:129133458-129136232	0.0176868
C20orf39	578	chr20	24392389	24400779	0.0180102	chr20:24392389-24400779	0.0180102
MOSPD1	608	chrX	133875079	133882371	0.0183136	chrX:133875079-133882371	0.0183136
UQCRB	638	chr8	97314630	97320808	0.0185489	chr8:97314630-97320808	0.0185489
LRRC42	698	chr1	54184671	54189370	0.0190989	chr1:54184671-54189370	0.0190989
UTY	732	chrY	14098734	14104150	0.0193509	chrY:14098734-14104150	0.0193509
LDB3	775	chr10	88416321	88420857	0.019742	chr10:88416321-88420857	0.019742
PSMC2	820	chr7	102775432	102777878	0.0200681	chr7:102775432-102777878	0.0200681
NAG6	851	chr7	128214160	128221780	0.0202909	chr7:128214160-128221780	0.0202909
DGCR13	884	chr22	17500292	17501269	0.0206036	chr22:17500292-17501269	0.0206036
ADD3	984	chr10	111750282	111760154	0.0213032	chr10:111750282-111760154	0.0213032
MSN	1135	chrX	64801280	64806845	0.0223784	chrX:64801280-64806845	0.0223784
PNMT	1200	chr17	35076410	35080409	0.0227792	chr17:35076410-35080409	0.0227792
KIRREL	1224	chr1	156224278	156232618	0.0229067	chr1:156224278-156232618	0.0229067
BCAM	1229	chr19	49998983	50006427	0.0229344	chr19:49998983-50006427	0.0229344
FGFBP2	1249	chr4	15572077	15579453	0.023057	chr4:15572077-15579453	0.023057
KIAA0913	1271	chr10	75215413	75224569	0.0231757	chr10:75215413-75224569	0.0231757
RBM18	1279	chr9	124061614	124066800	0.023246	chr9:124061614-124066800	0.023246
CACNG8	1293	chr19	59152587	59160526	0.0233191	chr19:59152587-59160526	0.0233191
ITFG2	1312	chr12	2786772	2793831	0.0234413	chr12:2786772-2793831	0.0234413
PRKCSH	1323	chr19	11407279	11410038	0.0235337	chr19:11407279-11410038	0.0235337
TSHR	1347	chr14	80490879	80494120	0.0237409	chr14:80490879-80494120	0.0237409
FAM84A	1367	chr2	14684767	14693940	0.0238935	chr2:14684767-14693940	0.0238935
RNASEH2C	1512	chr11	65242363	65246854	0.0247987	chr11:65242363-65246854	0.0247987

ZFP95	1551 chr7	98940248	98942735	0.0250142	chr7:098942	0.0250142
SCN1B	1587 chr19	40209265	40223178	0.0252677	chr19:0402	0.0252677
SIRPA	1662 chr20	1817846	1826500	0.0257116	chr20:00182	0.0257116
CYP2F1	1796 chr19	46309723	46314592	0.0264738	chr19:0463	0.0264738
ZC3H7B	1850 chr22	40025525	40034265	0.0267762	chr22:0400	0.0267762
NONO	1859 chrX	70416859	70436996	0.0267952	chrX:07042	0.0267952
SLC27A3	1951 chr1	152013401	152016916	0.0273141	chr1:15201	0.0273141
VSIG2	1961 chr11	124124814	124128133	0.0274094	chr11:1241	0.0274094
BECN1	2001 chr17	38229369	38229820	0.0275957	chr17:0382	0.0275957
EVI5L	2029 chr19	7798292	7819921	0.027703	chr19:0078	0.027703
ITPR3	2070 chr6	33693965	33699729	0.0279564	chr6:03369	0.0279564
PNPLA7	2113 chr9	139560799	139564633	0.0281454	chr9:13956	0.0281454
CDC27	2149 chr17	42619272	42626997	0.0283855	chr17:0426	0.0283855
TNFSF15	2205 chr9	116606453	116613454	0.0286714	chr9:11660	0.0286714
RILP	2212 chr17	1496444	1500660	0.0287055	chr17:0015	0.0287055
CCDC27	2248 chr1	3658981	3661351	0.0289538	chr1:00365	0.0289538
ARHGDI6	2252 chr16	270714	272999	0.0289854	chr16:0002	0.0289854
HPD	2308 chr12	120778720	120782957	0.0293536	chr12:1207	0.0293536
RNF165	2336 chr18	42163009	42171113	0.0294951	chr18:0421	0.0294951
RPL35A	2408 chr3	199156177	199166524	0.0299575	chr3:19916	0.0299575
CYorf15A	2411 chrY	20183254	20211425	0.0299761	chrY:02018	0.0299761
C3	2521 chr19	6669274	6676663	0.0305816	chr19:0066	0.0305816
RBM5	2526 chr3	50095993	50103745	0.0306439	chr3:05010	0.0306439
ARHGDI8	2549 chr12	14986225	15007082	0.0307579	chr12:0150	0.0307579
SLC10A3	2565 chrX	153368815	153375386	0.0308347	chrX:15337	0.0308347
RCE1	2651 chr11	66367440	66369970	0.0312845	chr11:0663	0.0312845
SLC22A6	2764 chr11	62506377	62514349	0.0318842	chr11:0625	0.0318842
MAFF	2794 chr22	36924605	36942023	0.0319484	chr22:0369	0.0319484
WNT10B	2807 chr12	47648245	47651753	0.0320499	chr12:0476	0.0320499
PUNC	2817 chr15	63454809	63460840	0.0320821	chr15:0634	0.0320821
SERPINA1	2868 chr14	93922196	93932250	0.0324559	chr14:0939	0.0324559
PF4V1	2871 chr4	74932557	74940337	0.0324686	chr4:07493	0.0324686
ZBTB32	2924 chr19	40890773	40899768	0.0326902	chr19:0408	0.0326902
CXorf43	2946 chrX	83641671	83649590	0.0328189	chrX:08364	0.0328189
RNF13	2947 chr3	151010339	151016197	0.0328249	chr3:15101	0.0328249
PPHLN1	2948 chr12	41006292	41011708	0.0328265	chr12:0410	0.0328265
ARRB1	3118 chr11	74722000	74745754	0.0335802	chr11:0747	0.0335802
P2RY8	3131 chrY	1613682	1621497	0.0336432	chrY:00161	0.0336432
CDCA5	3192 chr11	64602889	64607960	0.0340215	chr11:0646	0.0340215
SGEF	3256 chr3	155316443	155324331	0.0343151	chr3:15532	0.0343151
DPH1	3264 chr17	1880270	1880956	0.0343446	chr17:0018	0.0343446
COL9A3	3271 chr20	60916036	60921362	0.0343821	chr20:0609	0.0343821
ADCYAP1	3278 chr18	889825	897830	0.0344281	chr18:0008	0.0344281
PHB	3287 chr17	44845048	44847769	0.0344737	chr17:0448	0.0344737
ARSA	3363 chr22	49410551	49414418	0.0348477	chr22:0494	0.0348477
ZNF446	3422 chr19	63676598	63682889	0.0351338	chr19:0636	0.0351338
ASB18	3457 chr2	236812686	236820469	0.0353252	chr2:23681	0.0353252
PGF	3492 chr14	74489491	74497571	0.0355211	chr14:0744	0.0355211
BAT3	3588 chr6	31725146	31728240	0.0360355	chr6:03172	0.0360355
HOXB6	3668 chr17	44028219	44039612	0.0364593	chr17:0440	0.0364593
PRSS36	3717 chr16	31057912	31073511	0.0366747	chr16:0310	0.0366747
STXBP1	3774 chr9	129408984	129416697	0.0369701	chr9:12941	0.0369701
OXA1L	3949 chr14	22305556	22307605	0.0378849	chr14:0223	0.0378849
TMEM2	4028 chr9	73571241	73578636	0.0383527	chr9:07357	0.0383527
F25965	4039 chr19	40929836	40937219	0.0383862	chr19:0409	0.0383862
KIAA0101	4094 chr15	62459094	62460637	0.0386766	chr15:0624	0.0386766
MT1E	4121 chr16	55212181	55217482	0.0387954	chr16:0552	0.0387954
ZH2C2	4141 chr5	102481818	102483722	0.0389121	chr5:10248	0.0389121

THAP6	4283	chr4	76658729	76662473	0.0397759	chr4:076658	0.0397759
TMEM95	4320	chr17	7198961	7201259	0.0399539	chr17:00719	0.0399539
AOC2	4468	chr17	38249314	38255976	0.0407488	chr17:03824	0.0407488
ITGBL1	4520	chr13	100898340	100905658	0.0410757	chr13:10090	0.0410757
ASPHD1	4544	chr16	29819839	29823504	0.0412373	chr16:02981	0.0412373
ARID3B	4743	chr15	72615309	72623120	0.0423016	chr15:07261	0.0423016
XRCC3	4753	chr14	103247091	103251348	0.0423582	chr14:10324	0.0423582
NDUFB8	4764	chr10	102273469	102279638	0.042423	chr10:10227	0.042423
TMEM49	4821	chr17	55139863	55273111	0.0427525	chr17:05526	0.0427525
NDUFA7	5104	chr19	8282386	8292263	0.044462	chr19:00828	0.044462
ARR3	5211	chrX	69404923	69407099	0.0450598	chrX:06940	0.0450598
ARMC7	5390	chr17	70613849	70637946	0.0461866	chr17:07061	0.0461866
ACRC	5442	chrX	70712439	70717514	0.0465361	chrX:07071	0.0465361
BIVM	5503	chr13	102249491	102291867	0.0468649	chr13:10224	0.0468649
CNGA4	5694	chr11	6217007	6217792	0.0481682	chr11:00621	0.0481682

HPSE- bound genes (5'-transcribe region)

NS and ST subset (1636 g

Gene	Rank (Hep-	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
TCF7L1	2	chr2	85210668	85216848	0.0116767	chr2:085214	0.0116767
KLHL9	8	chr9	21322492	21330561	0.0140998	chr9:021322	0.0140998
KCNJ3	10	chr2	155258009	155266054	0.0141896	chr2:155266	0.0141896
MTR	11	chr1	235020572	235028125	0.0142119	chr1:235020	0.0142119
DMRTA1	12	chr9	22434616	22439381	0.0143869	chr9:022437	0.0143869
FAM84B	13	chr8	127636475	127645178	0.0144173	chr8:127636	0.0144173
EPB41L4B	14	chr9	111120375	111127549	0.0145209	chr9:111121	0.0145209
UAP1	15	chr1	160793015	160800415	0.0148367	chr1:160797	0.0148367
NFIA	17	chr1	61315237	61323540	0.0149073	chr1:061323	0.0149073
LAMB1	18	chr7	107428078	107436245	0.0150184	chr7:107430	0.0150184
TRIM41	19	chr5	180577481	180585626	0.0150715	chr5:180585	0.0150715
C1orf63	21	chr1	25443569	25451436	0.0152483	chr1:025444	0.0152483
HCN1	22	chr5	45729667	45737448	0.0153259	chr5:045730	0.0153259
SURF1	24	chr9	135208455	135212884	0.0154692	chr9:135208	0.0154692
BASP1	25	chr5	17266367	17276009	0.0154919	chr5:017272	0.0154919
RUFY1	27	chr5	178907545	178922080	0.0155896	chr5:178919	0.0155896
PITX1	29	chr5	134395093	134403698	0.0157631	chr5:134396	0.0157631
HES3	31	chr1	6226304	6229490	0.0159196	chr1:006226	0.0159196
GNB2	32	chr7	100105742	100111881	0.0159318	chr7:100110	0.0159318
ARHGEF3	36	chr3	56808578	56816484	0.015994	chr3:056810	0.015994
GFPT2	37	chr5	179710426	179718156	0.0160698	chr5:179711	0.0160698
LPHN2	40	chr1	82033244	82041119	0.0164591	chr1:082040	0.0164591
OTOF	41	chr2	26551726	26640328	0.0165706	chr2:026555	0.0165706
G3BP2	44	chr4	76815173	76821973	0.0167592	chr4:076816	0.0167592
DNPEP	45	chr2	219958495	219965250	0.0167601	chr2:219960	0.0167601
MLF1	46	chr3	159766290	159774263	0.0168435	chr3:159777	0.0168435
DDAH2	47	chr6	31802519	31806268	0.0168639	chr6:031800	0.0168639
TTPA	48	chr8	64159755	64164876	0.017068	chr8:064160	0.017068
SOHLH1	50	chr9	137728351	137731152	0.0171472	chr9:137729	0.0171472
FAM43B	51	chr1	20747574	20754521	0.017157	chr1:020755	0.017157
GBX2	52	chr2	236738888	236746869	0.0172486	chr2:236747	0.0172486
THADA	53	chr2	43675957	43678413	0.0172961	chr2:043676	0.0172961
UPP1	54	chr7	48089530	48097920	0.0173265	chr7:048090	0.0173265
C5orf24	56	chr5	134204745	134210811	0.0174446	chr5:134210	0.0174446
CCDC28B	57	chr1	32436470	32443501	0.017452	chr1:032443	0.017452
POLE3	58	chr9	115209329	115212735	0.0174682	chr9:115212	0.0174682
DDEF2	60	chr2	9259139	9267127	0.0175644	chr2:009265	0.0175644
LOC388966	62	chr2	85687733	85692561	0.0177237	chr2:085692	0.0177237
WWTR1	63	chr3	150856171	150863854	0.0178209	chr3:150857	0.0178209

CENTG2	64 chr2	236062780	236070461	0.0178547	chr2:236062780-236070461	0.0178547
ZFYVE28	65 chr4	2387705	2395594	0.0178759	chr4:002387705-2395594	0.0178759
KIAA0408	66 chr6	127835937	127844051	0.0178769	chr6:127835937-127844051	0.0178769
ZHX1	68 chr8	124353204	124360983	0.0179549	chr8:124353204-124360983	0.0179549
TMEM178	69 chr2	39741052	39748791	0.0179993	chr2:039741052-39748791	0.0179993
TMEM23	71 chr10	52051486	52058206	0.0180147	chr10:052051486-52058206	0.0180147
EIF4G3	72 chr1	21308383	21378799	0.0180191	chr1:021308383-21378799	0.0180191
L3MBTL3	75 chr6	130376098	130383822	0.0180603	chr6:130376098-130383822	0.0180603
TM2D1	76 chr1	61960934	61967371	0.0180954	chr1:061960934-61967371	0.0180954
FLNC	77 chr7	128252631	128286549	0.0181194	chr7:128252631-128286549	0.0181194
LHX6	78 chr9	124028304	124036035	0.0181358	chr9:124028304-124036035	0.0181358
CYP1B1	79 chr2	38153796	38161210	0.0182076	chr2:038153796-38161210	0.0182076
CPNE9	80 chr3	9719077	9746611	0.0182812	chr3:009719077-9746611	0.0182812
PRKCE	83 chr2	45727326	45735013	0.0183754	chr2:045727326-45735013	0.0183754
GABRB2	85 chr5	160903987	160912706	0.0184488	chr5:160903987-160912706	0.0184488
EN2	86 chr7	154936758	154944651	0.0184666	chr7:154936758-154944651	0.0184666
DAB2IP	91 chr9	123496019	123547310	0.0186485	chr9:123496019-123547310	0.0186485
NIT1	92 chr1	159354504	159357433	0.0186549	chr1:159354504-159357433	0.0186549
TFAP2B	93 chr6	50889428	50897008	0.0186595	chr6:050889428-50897008	0.0186595
CCDC4	94 chr4	41847227	41852307	0.0186604	chr4:041847227-41852307	0.0186604
ACAD11	95 chr3	133804251	133861513	0.0186679	chr3:133804251-133861513	0.0186679
C3orf21	98 chr3	196470804	196478605	0.0187853	chr3:196470804-196478605	0.0187853
PDE1C	99 chr7	32074251	32082164	0.0187954	chr7:032074251-32082164	0.0187954
NMNAT3	101 chr3	140877079	140884966	0.018847	chr3:140877079-140884966	0.018847
GPR137B	102 chr1	234370019	234374999	0.0188874	chr1:234370019-234374999	0.0188874
CNIH3	103 chr1	222866130	222874015	0.0189033	chr1:222866130-222874015	0.0189033
SRF	105 chr6	43242360	43257222	0.0190022	chr6:043242360-43257222	0.0190022
OBFC2A	106 chr2	192246566	192254058	0.0190107	chr2:192246566-192254058	0.0190107
SPACA1	108 chr6	88810441	88815901	0.0190577	chr6:088810441-88815901	0.0190577
CPA1	110 chr7	129802064	129809409	0.0191305	chr7:129802064-129809409	0.0191305
FOXL2	111 chr3	140145962	140153981	0.0191517	chr3:140145962-140153981	0.0191517
SP8	113 chr7	20789378	20798473	0.0192092	chr7:020789378-20798473	0.0192092
FNTA	117 chr8	43029894	43033169	0.0193517	chr8:043029894-43033169	0.0193517
CADPS2	120 chr7	122123743	122319199	0.0194078	chr7:122123743-122319199	0.0194078
MRPS30	121 chr5	44839346	44847342	0.0194082	chr5:044839346-44847342	0.0194082
C20orf132	123 chr20	35240871	35246907	0.0194394	chr20:035240871-35246907	0.0194394
ANKRD38	128 chr1	62555468	62561112	0.0197125	chr1:062555468-62561112	0.0197125
PRLR	131 chr5	35123368	35270394	0.0198121	chr5:035123368-35270394	0.0198121
UNC93A	135 chr6	167619302	167627341	0.0199185	chr6:167619302-167627341	0.0199185
RDBP	136 chr6	32034572	32044751	0.0199225	chr6:032034572-32044751	0.0199225
PGBD1	137 chr6	28353965	28359820	0.0199853	chr6:028353965-28359820	0.0199853
NHLH2	138 chr1	116182743	116189019	0.0199973	chr1:116182743-116189019	0.0199973
NID1	139 chr1	234293948	234299963	0.0200723	chr1:234293948-234299963	0.0200723
FIGLA	141 chr2	70869079	70876773	0.0201408	chr2:070869079-70876773	0.0201408
FBXL6	144 chr8	145547531	145552955	0.0201603	chr8:145547531-145552955	0.0201603
RAB43	146 chr3	130320845	130328748	0.0202329	chr3:130320845-130328748	0.0202329
HOXD12	147 chr2	176668922	176673696	0.0202682	chr2:176668922-176673696	0.0202682
F13A1	153 chr6	6263653	6271418	0.0203996	chr6:006263653-6271418	0.0203996
ITPKB	154 chr1	224989444	224996200	0.0204047	chr1:224989444-224996200	0.0204047
KCNE4	156 chr2	223619704	223627714	0.0204335	chr2:223619704-223627714	0.0204335
ANTXR1	157 chr2	69088620	69095727	0.0204405	chr2:069088620-69095727	0.0204405
PPP3CA	158 chr4	102484710	102492717	0.0204872	chr4:102484710-102492717	0.0204872
SMARCD3	159 chr7	150600746	150610550	0.0204978	chr7:150600746-150610550	0.0204978
SEMA6C	161 chr1	149383256	149385668	0.0205758	chr1:149383256-149385668	0.0205758
C3orf27	162 chr3	129773495	129780700	0.0205868	chr3:129773495-129780700	0.0205868
GNAT1	163 chr3	50201594	50206661	0.0206436	chr3:050201594-50206661	0.0206436
CCDC3	164 chr10	13081542	13085932	0.0206554	chr10:013081542-13085932	0.0206554
EPAS1	166 chr2	46372862	46381049	0.0207434	chr2:046372862-46381049	0.0207434

DFNB31	167 chr9	116304454	116312989	0.020765	chr9:116306	0.020765
KLHDC7A	168 chr1	18675491	18683133	0.0207761	chr1:01868	0.0207761
MYC	170 chr8	128811461	128820364	0.0207918	chr8:12881	0.0207918
MRPL55	171 chr1	226361011	226364765	0.0208378	chr1:22636	0.0208378
RGS20	172 chr8	54926922	54958216	0.0208451	chr8:05495	0.0208451
NUDT18	173 chr8	22020419	22027575	0.0208685	chr8:02202	0.0208685
CYP2W1	174 chr7	989356	991942	0.0208746	chr7:00099	0.0208746
CCNT2	175 chr2	135391343	135395305	0.0209259	chr2:13539	0.0209259
RNF44	177 chr5	175894644	175898921	0.0210161	chr5:17589	0.0210161
NR6A1	179 chr9	126496054	126573256	0.0210496	chr9:12657	0.0210496
KLHL7	180 chr7	23106505	23114267	0.0210727	chr7:02311	0.0210727
KIFC2	181 chr8	145662610	145670251	0.021073	chr8:14566	0.021073
RNF122	185 chr8	33542054	33549671	0.0211277	chr8:03354	0.0211277
FPGS	186 chr9	129601534	129606976	0.0211435	chr9:12960	0.0211435
NCKIPSD	187 chr3	48695818	48700393	0.0211486	chr3:04869	0.0211486
LAMC3	190 chr9	132872083	132958264	0.0212007	chr9:13295	0.0212007
PCYOX1	192 chr2	70338880	70341307	0.0212105	chr2:07033	0.0212105
HIST1H2AM	194 chr6	27968817	27968861	0.0212893	chr6:02796	0.0212893
C9orf5	196 chr9	110845979	110927428	0.0213179	chr9:11092	0.0213179
AFAP	198 chr4	7824501	7992917	0.0213464	chr4:00782	0.0213464
FLJ20628	201 chr2	28944502	28952019	0.0214135	chr2:02894	0.0214135
NMNAT1	202 chr1	9926062	9930922	0.0214294	chr1:00992	0.0214294
PPM1K	203 chr4	89422310	89429794	0.021446	chr4:08942	0.021446
MAF1	204 chr8	145231554	145234179	0.0214649	chr8:14523	0.0214649
PCDHGA12	205 chr5	140784943	140792948	0.0215437	chr5:14079	0.0215437
CCNL1	206 chr3	158358257	158366661	0.0215843	chr3:15836	0.0215843
ING3	207 chr7	120372664	120380597	0.0215899	chr7:12037	0.0215899
C9orf140	208 chr9	139082251	139084712	0.0216341	chr9:13908	0.0216341
DUSP1	210 chr5	172128297	172135285	0.0216537	chr5:17213	0.0216537
MGC61598	211 chr9	139313775	139321068	0.0216581	chr9:13931	0.0216581
C9orf21	212 chr9	98455851	98460441	0.0216703	chr9:09845	0.0216703
FLJ20254	214 chr2	27103922	27111730	0.0217008	chr2:02710	0.0217008
SNAP91	216 chr6	84473271	84481210	0.0217025	chr6:08447	0.0217025
ELOVL6	217 chr4	111336704	111342563	0.0217143	chr4:11133	0.0217143
TSEN2	219 chr3	12496148	12502998	0.0217536	chr3:01250	0.0217536
LRDD	222 chr11	789157	795140	0.0217733	chr11:0007	0.0217733
EFNA1	224 chr1	153361564	153373952	0.0217827	chr1:15337	0.0217827
C9orf64	225 chr9	85758935	85766892	0.0218121	chr9:08576	0.0218121
KIAA1984	226 chr9	138807561	138822028	0.0218206	chr9:13882	0.0218206
GPRIN1	234 chr5	175957322	175974921	0.0219533	chr5:17595	0.0219533
WBSCR18	237 chr7	72730558	72735734	0.0219892	chr7:07273	0.0219892
SYT11	239 chr1	154095984	154099139	0.02205	chr1:15409	0.02205
VHL	242 chr3	10154645	10160835	0.0220781	chr3:01015	0.0220781
FCRLB	244 chr1	159953750	159965055	0.0220989	chr1:15996	0.0220989
C6orf141	245 chr6	49621534	49628970	0.0221377	chr6:04962	0.0221377
SLC26A4	247 chr7	107083327	107090821	0.022182	chr7:10708	0.022182
TMEM129	248 chr4	1687515	1692813	0.0221964	chr4:00168	0.0221964
POU4F3	249 chr5	145693753	145701371	0.0222087	chr5:14570	0.0222087
TMEM38B	250 chr9	107491780	107498027	0.0222097	chr9:10749	0.0222097
DLX6	251 chr7	96467953	96476063	0.0222361	chr7:09647	0.0222361
DFNA5	252 chr7	24761941	24768630	0.0222576	chr7:02476	0.0222576
MGC29506	253 chr5	138751325	138759126	0.0222629	chr5:13875	0.0222629
LRRC2	257 chr3	46580484	46597590	0.0223208	chr3:04658	0.0223208
SATB2	258 chr2	200026705	200033417	0.0223484	chr2:20003	0.0223484
PRO1853	259 chr2	37312334	37316959	0.0223825	chr2:03731	0.0223825
CALM2	262 chr2	47240782	47262569	0.0224172	chr2:04725	0.0224172
TRIM4	263 chr7	99352921	99358585	0.0224773	chr7:09935	0.0224773
CHST2	264 chr3	144315602	144324851	0.0224895	chr3:14432	0.0224895

C1orf108	265	chr1	39224294	39231464	0.0225134	chr1:039230	0.0225134
KLHL21	268	chr1	6583158	6586251	0.0225433	chr1:006584	0.0225433
SKI	270	chr1	2145604	2152576	0.0225648	chr1:002150	0.0225648
BAT5	273	chr6	31762731	31779012	0.0225769	chr6:031763	0.0225769
CCDC36	275	chr3	49211411	49274253	0.0226413	chr3:049211	0.0226413
DERL1	278	chr8	124121099	124128962	0.0226643	chr8:124121	0.0226643
KLF15	279	chr3	127556918	127564285	0.0226712	chr3:127556	0.0226712
ROCK2	284	chr2	11400010	11407540	0.0227954	chr2:011401	0.0227954
KCTD8	286	chr4	44143017	44151017	0.022827	chr4:044144	0.022827
C6orf145	287	chr6	3694369	3701955	0.0228423	chr6:003694	0.0228423
CD8A	288	chr2	86869131	86876650	0.0228537	chr2:086869	0.0228537
ASTN2	289	chr9	118487790	119222452	0.0228633	chr9:118488	0.0228633
CLCNKA	293	chr1	16221221	16224187	0.0229211	chr1:016221	0.0229211
DDX56	294	chr7	44577544	44585139	0.0229232	chr7:044580	0.0229232
RXRA	298	chr9	136427846	136472197	0.0229654	chr9:136466	0.0229654
GTPBP8	299	chr3	114187128	114194904	0.0229947	chr3:114192	0.0229947
DES	303	chr2	219988427	219993901	0.0230737	chr2:219992	0.0230737
FAM129B	304	chr9	129368569	129376689	0.0230782	chr9:129370	0.0230782
CSPP1	305	chr8	68139215	68161073	0.0231196	chr8:068139	0.0231196
REEP1	311	chr2	86415979	86421116	0.0232211	chr2:086417	0.0232211
MICALL2	314	chr7	1462999	1471112	0.0232322	chr7:001463	0.0232322
PPP2CA	316	chr5	133587189	133594486	0.0232546	chr5:133589	0.0232546
ZNF33B	318	chr10	42451788	42457700	0.0232919	chr10:04245	0.0232919
CEBPB	319	chr20	48236320	48243320	0.0232983	chr20:04824	0.0232983
ITGA8	320	chr10	15799267	15807149	0.0233032	chr10:01580	0.0233032
HAAO	324	chr2	42847750	42878226	0.0233359	chr2:042849	0.0233359
WDR35	330	chr2	20051232	20055273	0.0234024	chr2:020055	0.0234024
CPLX2	332	chr5	175152900	175240757	0.023423	chr5:175237	0.023423
FZD5	333	chr2	208339853	208347542	0.0234288	chr2:208347	0.0234288
SEMA6A	334	chr5	115935577	115941809	0.0234366	chr5:115938	0.0234366
ALS2	335	chr2	202351535	202359011	0.0234407	chr2:202355	0.0234407
ADCY3	337	chr2	24993115	25001015	0.0234639	chr2:024999	0.0234639
EDD1	340	chr8	103491323	103499001	0.0235123	chr8:103499	0.0235123
MGC99813	342	chr2	220117219	220122227	0.0235321	chr2:220117	0.0235321
SFRP2	346	chr4	154927132	154935208	0.0235925	chr4:154929	0.0235925
PCSK1	349	chr5	95792144	95799069	0.02362	chr5:095794	0.02362
GADD45G	350	chr9	91404696	91412293	0.0236255	chr9:091409	0.0236255
IKZF1	351	chr7	50313463	50414174	0.0236489	chr7:050314	0.0236489
CENTA1	352	chr7	958341	965391	0.0236514	chr7:000958	0.0236514
CXCL12	357	chr10	44198156	44205133	0.0236789	chr10:04419	0.0236789
RGL2	359	chr6	33367074	33375318	0.0237088	chr6:033377	0.0237088
SIAHBP1	368	chr8	144970607	144987583	0.0238339	chr8:144970	0.0238339
RBM15B	369	chr3	51401904	51407697	0.0238415	chr3:051404	0.0238415
PROM2	371	chr2	95298454	95306489	0.0238575	chr2:095304	0.0238575
KLHDC8A	376	chr1	203577060	203585296	0.0238926	chr1:203579	0.0238926
QSCN6L1	377	chr9	138237985	138263688	0.0238941	chr9:138247	0.0238941
TXNDC6	379	chr3	139523933	139536201	0.0238992	chr3:139537	0.0238992
HSPA4L	383	chr4	128917977	128925585	0.0239159	chr4:128925	0.0239159
IGSF4B	384	chr1	157402830	157438403	0.0239162	chr1:157409	0.0239162
RABGAP1	385	chr9	124743174	124916451	0.0239166	chr9:124743	0.0239166
SASS6	386	chr1	100366110	100371058	0.023926	chr1:100377	0.023926
ZFP41	389	chr8	144397086	144416272	0.0239392	chr8:144407	0.0239392
PRR7	391	chr5	176802578	176816033	0.023941	chr5:176814	0.023941
COL9A2	392	chr1	40553121	40560170	0.0239411	chr1:040555	0.0239411
KIAA1706	396	chr7	36153842	36161858	0.0240531	chr7:036160	0.0240531
NRXN1	397	chr2	50425209	50433854	0.024063	chr2:050426	0.024063
KRTCAP3	401	chr2	27518973	27521017	0.024123	chr2:027519	0.024123
WRNIP1	402	chr6	2706237	2713292	0.0241328	chr6:002710	0.0241328

MGC42105	405 chr5	43226448	43230537	0.0241686	chr5:043229	0.0241686
HCFC1	406 chrX	152866280	152889747	0.0242292	chrX:152888	0.0242292
PURA	407 chr5	139468549	139476446	0.0242471	chr5:139474	0.0242471
COBRA1	408 chr9	139267849	139287823	0.0242565	chr9:13927	0.0242565
C14orf149	409 chr14	59015708	59020835	0.0242781	chr14:05902	0.0242781
DCC1	410 chr8	120915476	120942790	0.0243179	chr8:120937	0.0243179
PRUNE	412 chr1	149247657	149274560	0.0243325	chr1:149247	0.0243325
ATP5C1	414 chr10	7870229	7874250	0.0243924	chr10:00787	0.0243924
C1orf164	418 chr1	44638331	44652817	0.0244548	chr1:044644	0.0244548
MAP1B	419 chr5	71434589	71441498	0.0244592	chr5:071439	0.0244592
BRD2	420 chr6	33041356	33050892	0.0244652	chr6:033048	0.0244652
ATG9A	423 chr2	219792332	219802443	0.0244732	chr2:21980	0.0244732
AHCYL1	424 chr1	110323366	110331682	0.024475	chr1:110329	0.024475
EIF3S4	425 chr19	10089061	10094469	0.0244805	chr19:01009	0.0244805
C10orf108	428 chr10	680585	688515	0.024491	chr10:00068	0.024491
TTC32	430 chr2	19962796	19970669	0.0244937	chr2:01996	0.0244937
SH3RF1	435 chr4	170426286	170434122	0.024559	chr4:170428	0.024559
IER5	437 chr1	179318804	179327086	0.0245757	chr1:179324	0.0245757
S100A5	440 chr1	151776396	151782743	0.0246109	chr1:151780	0.0246109
NBL1	441 chr1	19836868	19845880	0.0246159	chr1:019844	0.0246159
PREI3	444 chr2	198083816	198090760	0.0246742	chr2:198089	0.0246742
NEFL	445 chr8	24867089	24875491	0.0246974	chr8:024869	0.0246974
TXNL1	446 chr18	52454546	52458664	0.0246985	chr18:05245	0.0246985
PPP1R12B	447 chr1	200584533	200709957	0.0247023	chr1:200584	0.0247023
NTRK1	451 chr1	155050802	155100809	0.0247272	chr1:155099	0.0247272
TMEM33	453 chr4	41626549	41634684	0.02478	chr4:041632	0.02478
LOC130576	454 chr2	149597744	149606003	0.0247818	chr2:149603	0.0247818
STOX2	455 chr4	185058796	185066003	0.024805	chr4:185063	0.024805
C1orf187	456 chr1	11673813	11690771	0.0248166	chr1:011675	0.0248166
HLXB9	464 chr7	156493554	156501425	0.024923	chr7:156499	0.024923
PLXND1	465 chr3	130806424	130813730	0.0249259	chr3:130807	0.0249259
HAT1	466 chr2	172483092	172489677	0.0249295	chr2:172487	0.0249295
GLRX2	468 chr1	191339535	191346060	0.024937	chr1:191340	0.024937
WTAP	470 chr6	160063454	160071090	0.024958	chr6:160068	0.024958
ABCG5	471 chr2	43914795	43919313	0.0249696	chr2:043919	0.0249696
RNF144	474 chr2	6969581	6977530	0.0250104	chr2:006976	0.0250104
LARP1	475 chr5	154070717	154117388	0.0250345	chr5:154116	0.0250345
IRX2	476 chr5	2799976	2804479	0.0250458	chr5:002803	0.0250458
MSL2L1	480 chr3	137394257	137399953	0.0250894	chr3:137396	0.0250894
ZBTB2	484 chr6	151752230	151759706	0.0251141	chr6:151752	0.0251141
RAP2B	485 chr3	154357322	154365697	0.0251423	chr3:154363	0.0251423
CUL1	486 chr7	148021374	148029332	0.0251578	chr7:148027	0.0251578
PPP2R5E	488 chr14	63077427	63084809	0.0251822	chr14:06307	0.0251822
SMOC2	490 chr6	168581419	168587250	0.025246	chr6:168589	0.025246
CMYA5	492 chr5	79017916	79023242	0.0252511	chr5:079022	0.0252511
C4orf16	494 chr4	113367001	113375193	0.0252904	chr4:113372	0.0252904
RER1	499 chr1	2313219	2318528	0.0253105	chr1:002313	0.0253105
EVC2	500 chr4	5758829	5761180	0.0253422	chr4:00576	0.0253422
NR2F1	506 chr5	92939498	92948907	0.0254076	chr5:092946	0.0254076
CELSR3	507 chr3	48648998	48678219	0.0254146	chr3:048652	0.0254146
DNAI1	508 chr9	34448804	34510979	0.02543	chr9:034448	0.02543
TUBA1	509 chr2	219822654	219831871	0.0254412	chr2:219826	0.0254412
P2RY1	512 chr3	154030063	154038633	0.0254573	chr3:154036	0.0254573
CDS1	514 chr4	85718170	85726029	0.0254722	chr4:085722	0.0254722
FOXF1	515 chr16	85096215	85104105	0.0254749	chr16:08510	0.0254749
PTGDS	517 chr9	138983896	138996018	0.0254974	chr9:138994	0.0254974
WFS1	518 chr4	6317006	6325018	0.0254996	chr4:006323	0.0254996
BTF3	519 chr5	72824962	72832844	0.0255311	chr5:072830	0.0255311

GNPDA2	524 chr4	44416638	44428418	0.0256197	chr4:04442	0.0256197
ATP5G3	526 chr2	175751998	175759569	0.0256529	chr2:17575	0.0256529
TLE1	527 chr9	83490447	83498787	0.0256733	chr9:08349	0.0256733
GDAP1	531 chr8	75419819	75427729	0.0257577	chr8:07542	0.0257577
MATN3	533 chr2	20055336	20081145	0.0257655	chr2:02007	0.0257655
COL5A1	535 chr9	136667959	136676278	0.0257919	chr9:13667	0.0257919
EIF4EBP1	537 chr8	38002688	38009620	0.0258093	chr8:03800	0.0258093
PTGER3	538 chr1	71283370	71291374	0.0258124	chr1:07128	0.0258124
L1TD1	539 chr1	62428287	62434822	0.0258404	chr1:06243	0.0258404
ZNF533	540 chr2	180432074	180439579	0.0258578	chr2:18043	0.0258578
MDGA1	543 chr6	37771389	37779089	0.0258922	chr6:03777	0.0258922
SNTG1	544 chr8	51464087	51471844	0.0259118	chr8:05146	0.0259118
XKR4	545 chr8	56174239	56180550	0.0259123	chr8:05617	0.0259123
LGR6	549 chr1	200424483	200452427	0.0259518	chr1:20045	0.0259518
FAM46A	550 chr6	82516592	82524613	0.0259721	chr6:08251	0.0259721
STAMBP	552 chr2	73904332	73914009	0.0259938	chr2:07390	0.0259938
SLC10A4	553 chr4	48175144	48185843	0.0260024	chr4:04818	0.0260024
MAGI3	554 chr1	113729592	113737670	0.0260067	chr1:11373	0.0260067
COPS6	555 chr7	99524578	99527966	0.0260069	chr7:09952	0.0260069
JMJD1B	557 chr5	137713400	137800575	0.0260277	chr5:13771	0.0260277
EGR3	559 chr8	22604000	22611757	0.0260311	chr8:02260	0.0260311
SLC28A3	563 chr9	86142888	86150809	0.0260731	chr9:08614	0.0260731
ARSB	564 chr5	78314358	78323589	0.0260755	chr5:07831	0.0260755
MAB21L2	571 chr4	151717260	151726148	0.0261414	chr4:15172	0.0261414
SYNPO	572 chr5	149995110	150016918	0.0261508	chr5:15000	0.0261508
RAB11FIP5	573 chr2	73154034	73197756	0.0261523	chr2:07319	0.0261523
C2orf18	574 chr2	26835315	26857456	0.0261561	chr2:02684	0.0261561
UCK1	575 chr9	133394009	133400971	0.0261762	chr9:13339	0.0261762
IQCB1	576 chr3	123034498	123036538	0.0261814	chr3:12303	0.0261814
UNC5C	577 chr4	96686574	96694864	0.0261983	chr4:09668	0.0261983
RWDD3	578 chr1	95467234	95474778	0.0262003	chr1:09547	0.0262003
PABPN1	579 chr14	22854241	22862609	0.0262023	chr14:0228	0.0262023
HOXA10	580 chr7	27176821	27187227	0.0262049	chr7:02718	0.0262049
EFNA5	581 chr5	107031788	107039672	0.0262191	chr5:10703	0.0262191
DMRT3	583 chr9	961509	969455	0.0262577	chr9:00096	0.0262577
FOS	587 chr14	74809900	74817771	0.0262884	chr14:0748	0.0262884
VILL	591 chr3	38006967	38016030	0.0263086	chr3:03801	0.0263086
POLR2L	593 chr11	829337	832511	0.0263363	chr11:0008	0.0263363
IGFBPL1	595 chr9	38411918	38419824	0.0263558	chr9:03841	0.0263558
PASK	596 chr2	241694236	241737569	0.02636	chr2:24173	0.02636
HOXD10	597 chr2	176682759	176692918	0.0263657	chr2:17669	0.0263657
CRHR2	599 chr7	30685951	30693876	0.0263729	chr7:03068	0.0263729
TOR1AIP1	601 chr1	178118061	178123582	0.0263797	chr1:17811	0.0263797
LOX	604 chr5	121439152	121447318	0.026396	chr5:12144	0.026396
SMAD5	608 chr5	135491667	135498861	0.0264328	chr5:13549	0.0264328
TSC22D2	609 chr3	151603525	151612273	0.0264424	chr3:15160	0.0264424
HHIP	611 chr4	145782111	145789722	0.0264493	chr4:14578	0.0264493
BZW2	615 chr7	16652297	16657327	0.0264895	chr7:01665	0.0264895
C1QC	616 chr1	22840125	22847209	0.026497	chr1:02284	0.026497
C22orf34	617 chr22	48401814	48410085	0.0265046	chr22:0484	0.0265046
SLC26A1	618 chr4	970801	982490	0.0265135	chr4:00097	0.0265135
RRAGA	620 chr9	19034335	19041071	0.0265264	chr9:01904	0.0265264
CTNNAL1	621 chr9	110813321	110820744	0.0265336	chr9:11081	0.0265336
TTYH3	623 chr7	2632736	2640605	0.0265415	chr7:00264	0.0265415
CLDN23	624 chr8	8592699	8599829	0.0265651	chr8:00859	0.0265651
TRIM7	626 chr5	180557288	180569570	0.0265887	chr5:18055	0.0265887
MTF2	630 chr1	93314597	93320188	0.0266428	chr1:09331	0.0266428
NT5DC2	631 chr3	52540114	52549618	0.0266606	chr3:05254	0.0266606

PDLIM7	632 chr5	176854750	176860853	0.0266629	chr5:176854	0.0266629
GOT2	634 chr16	57323198	57330945	0.0266936	chr16:05732	0.0266936
ADAR	636 chr1	152844950	152871257	0.026701	chr1:152866	0.026701
C5orf30	638 chr5	102616955	102624804	0.0267149	chr5:102622	0.0267149
ARHGAP12	643 chr10	32235695	32263256	0.0267349	chr10:03222	0.0267349
C3orf19	645 chr3	14662929	14689076	0.026759	chr3:014668	0.026759
PYCARD	647 chr16	31119653	31122161	0.0267875	chr16:03112	0.0267875
ACTA1	648 chr1	227633344	227640707	0.0267895	chr1:227638	0.0267895
NPM2	650 chr8	21936970	21940727	0.0267947	chr8:021938	0.0267947
CCDC108	652 chr2	219575901	219619555	0.0268427	chr2:219602	0.0268427
PTPRU	654 chr1	29435758	29438117	0.0268511	chr1:029436	0.0268511
LHFPL2	655 chr5	77839447	77847177	0.0268556	chr5:07784	0.0268556
KBTBD5	656 chr3	42697383	42704505	0.026866	chr3:042703	0.026866
FAM57B	659 chr16	29939927	29955165	0.0268918	chr16:02992	0.0268918
FAM20C	662 chr7	282736	290749	0.0269044	chr7:000288	0.0269044
MASP2	664 chr1	11027343	11035345	0.0269446	chr1:011027	0.0269446
PIP5K1B	665 chr9	70505078	70629466	0.0269772	chr9:070510	0.0269772
SERP1	666 chr3	151741743	151747118	0.0269818	chr3:151741	0.0269818
ADAMTS3	667 chr4	73651166	73658901	0.0269973	chr4:073652	0.0269973
OSMR	668 chr5	38876470	38884381	0.0270052	chr5:038882	0.0270052
QARS	669 chr3	49108343	49120992	0.027015	chr3:049116	0.027015
ERLIN2	670 chr8	37708152	37734403	0.0270152	chr8:037714	0.0270152
PKN2	671 chr1	88918283	88925344	0.0270371	chr1:088922	0.0270371
C1orf50	673 chr1	43005557	43010617	0.0270488	chr1:043005	0.0270488
RASGEF1C	676 chr5	179493807	179574184	0.0270549	chr5:179498	0.0270549
PPP1R14C	678 chr6	150501199	150508462	0.0270759	chr6:150506	0.0270759
LOC401498	679 chr9	32768244	32776475	0.0270833	chr9:032774	0.0270833
FGF22	681 chr19	591001	593115	0.0270914	chr19:00059	0.0270914
ST8SIA4	682 chr5	100264081	100270099	0.0271014	chr5:100264	0.0271014
NUDT1	683 chr7	2248414	2253800	0.0271053	chr7:002250	0.0271053
C9orf23	684 chr9	34599950	34603408	0.0271055	chr9:034602	0.0271055
ADCY8	685 chr8	132121609	132129364	0.027125	chr8:132122	0.027125
PTCRA	687 chr6	42986803	43001459	0.0271336	chr6:043000	0.0271336
PPP1R15B	690 chr1	202644799	202652977	0.0271719	chr1:202647	0.0271719
MARS2	692 chr2	198276760	198281758	0.0271893	chr2:198279	0.0271893
C1orf172	694 chr1	27149086	27163345	0.0271983	chr1:027150	0.0271983
CALML6	698 chr1	1830632	1838708	0.0272117	chr1:001836	0.0272117
SNRPG	700 chr2	70372255	70376551	0.0272211	chr2:070374	0.0272211
PRCC	705 chr1	155001000	155006672	0.0273266	chr1:155002	0.0273266
CTPS	707 chr1	41212722	41220451	0.0273417	chr1:041218	0.0273417
GNLY	710 chr2	85772871	85776962	0.027361	chr2:085777	0.027361
DOM3Z	712 chr6	32047644	32056309	0.0273796	chr6:032047	0.0273796
TBR1	714 chr2	161976211	161983923	0.0273861	chr2:16198	0.0273861
KIAA0828	721 chr7	128647033	128857293	0.0274637	chr7:128652	0.0274637
C6orf120	722 chr6	169844184	169848286	0.027466	chr6:169844	0.027466
FAM82B	724 chr8	87587787	87590070	0.0274863	chr8:087588	0.0274863
DNAJC1	727 chr10	22330266	22337854	0.0274958	chr10:02233	0.0274958
CAMK2D	728 chr4	114899264	114907634	0.0274983	chr4:114901	0.0274983
SOX4	729 chr6	21696585	21705099	0.0274987	chr6:021703	0.0274987
ZNF167	730 chr3	44567978	44599965	0.0275012	chr3:04457	0.0275012
GMCL1	733 chr2	69907541	69911515	0.0275071	chr2:069910	0.0275071
TUBE1	734 chr6	112513081	112515267	0.0275322	chr6:112515	0.0275322
MTSS1	736 chr8	125806891	125815271	0.0275822	chr8:125808	0.0275822
GUCY1A3	746 chr4	156801982	156810583	0.0276616	chr4:156808	0.0276616
OTX1	747 chr2	63127146	63133878	0.0276635	chr2:063133	0.0276635
DMRT2	748 chr9	1036242	1044080	0.0276877	chr9:00104	0.0276877
IER5L	750 chr9	130977841	130985665	0.0277181	chr9:130980	0.0277181
NISCH	751 chr3	52464745	52502142	0.0277425	chr3:052468	0.0277425

MCFD2	752 chr2	46994149	47001400	0.0277494	chr2:046996	0.0277494
MARCH8	753 chr10	45348436	45414656	0.0277554	chr10:0454	0.0277554
ABLIM3	756 chr5	148495981	148504306	0.0277786	chr5:148502	0.0277786
ADRA2B	757 chr2	96143232	96149472	0.0277929	chr2:096145	0.0277929
C10orf111	758 chr10	15177737	15179200	0.0277968	chr10:01517	0.0277968
GRM6	759 chr5	178352048	178360226	0.0278031	chr5:178352	0.0278031
ANKRA2	761 chr5	72892749	72897124	0.0278293	chr5:072896	0.0278293
LOC391356	763 chr2	24864748	24869678	0.0278644	chr2:024865	0.0278644
MYCN	764 chr2	15993824	16002062	0.0278815	chr2:015998	0.0278815
PPP2R3A	765 chr3	137165644	137227113	0.0278825	chr3:137167	0.0278825
ITPKA	768 chr15	39569081	39575824	0.0279262	chr15:03957	0.0279262
UBIAD1	769 chr1	11255452	11256902	0.0279308	chr1:011255	0.0279308
RXR8	770 chr6	33269340	33276385	0.0279389	chr6:033269	0.0279389
FLJ46836	771 chr9	131944072	131946938	0.0279427	chr9:131945	0.0279427
CRIP3	782 chr6	43382292	43389966	0.0280167	chr6:043382	0.0280167
CD8B	784 chr2	86901400	86908676	0.0280219	chr2:086901	0.0280219
FZD7	787 chr2	202602331	202610054	0.0280476	chr2:202602	0.0280476
C2orf32	792 chr2	68397580	68405107	0.028118	chr2:068399	0.028118
PPM1M	793 chr3	52255241	52258568	0.0281289	chr3:052255	0.0281289
CAPN10	794 chr2	241170109	241177441	0.0281355	chr2:241175	0.0281355
FGF20	804 chr8	16901817	16907367	0.0281695	chr8:016903	0.0281695
CHAT	806 chr10	50482911	50496922	0.0281838	chr10:05048	0.0281838
VARS	810 chr6	31853332	31873175	0.0282181	chr6:031855	0.0282181
ZNF346	811 chr5	176376858	176384564	0.0282271	chr5:176383	0.0282271
HLA-DOA	815 chr6	33082969	33090793	0.0282789	chr6:033083	0.0282789
SCLY	819 chr2	238630374	238672716	0.0283304	chr2:238670	0.0283304
C9orf50	820 chr9	131421673	131422698	0.0283317	chr9:131422	0.0283317
INTS5	821 chr11	62170882	62177445	0.0283361	chr11:06217	0.0283361
LTBP1	823 chr2	33020797	33028402	0.0283411	chr2:033020	0.0283411
FAM3B	825 chr21	41606553	41651474	0.0283471	chr21:0416	0.0283471
LRRC24	831 chr8	145718666	145725140	0.0283906	chr8:145720	0.0283906
TRHDE	833 chr12	70952932	70957869	0.0284046	chr12:07095	0.0284046
MLF1IP	835 chr4	185889845	185892600	0.0284125	chr4:18589	0.0284125
DPP7	840 chr9	139126578	139131955	0.028458	chr9:139126	0.028458
CITED1	843 chrX	71441453	71449016	0.0284736	chrX:071444	0.0284736
RBM13	846 chr8	33461523	33464400	0.0284925	chr8:033462	0.0284925
PCDH10	847 chr4	134284601	134292323	0.0285156	chr4:13429	0.0285156
CRSP9	848 chr5	156499993	156507034	0.0285206	chr5:15650	0.0285206
MYLIP	851 chr6	16231826	16239952	0.0285552	chr6:016231	0.0285552
GORASP1	852 chr3	39119122	39124053	0.0285595	chr3:039120	0.0285595
TRIM72	855 chr16	31132568	31134549	0.0286226	chr16:03113	0.0286226
NOL12	856 chr22	36406940	36414664	0.0286243	chr22:0364	0.0286243
MGST2	857 chr4	140801149	140808180	0.0286278	chr4:140806	0.0286278
TRIM26	859 chr6	30286956	30293500	0.0286358	chr6:030286	0.0286358
ARHGAP24	862 chr4	86610071	87073565	0.0286614	chr4:086615	0.0286614
CHRM2	863 chr7	136198422	136352661	0.0286665	chr7:136206	0.0286665
MRS2L	864 chr6	24508106	24513653	0.0286684	chr6:024511	0.0286684
ZNHIT4	867 chr2	74532670	74538595	0.0286967	chr2:074538	0.0286967
SRPK2	870 chr7	104694001	104821280	0.0287267	chr7:104815	0.0287267
ZFP36L2	872 chr2	43302507	43312707	0.0287356	chr2:043305	0.0287356
C9orf164	873 chr9	91166274	91174453	0.0287409	chr9:091166	0.0287409
TRIB2	875 chr2	12769335	12778297	0.0287539	chr2:012775	0.0287539
NEUROG1	876 chr5	134897054	134905062	0.0287974	chr5:134899	0.0287974
USP19	878 chr3	49121100	49133360	0.0288148	chr3:049133	0.0288148
SLC6A3	882 chr5	1496190	1503790	0.0288416	chr5:001497	0.0288416
KCNJ10	889 chr1	158304287	158307922	0.0289018	chr1:158305	0.0289018
ADC	891 chr1	33314163	33322750	0.0289185	chr1:033315	0.0289185
PTPN13	893 chr4	87730552	87737316	0.028938	chr4:087735	0.028938

ACHE	894 chr7	100325676	100336893	0.0289466	chr7:100328	0.0289466
RECK	901 chr9	36021465	36029451	0.0289649	chr9:036021	0.0289649
FLJ35220	902 chr17	76002476	76006307	0.0289663	chr17:07600	0.0289663
LYNX1	904 chr8	143845794	143863108	0.0289748	chr8:143854	0.0289748
MALL	909 chr2	110229055	110236890	0.0290137	chr2:110229	0.0290137
SLC9A3R1	913 chr17	70255251	70259085	0.029024	chr17:07025	0.029024
PRUNE2	914 chr9	78708204	78716294	0.0290443	chr9:078710	0.0290443
ZNRD1	915 chr6	30132263	30140553	0.0290445	chr6:030132	0.0290445
STX1A	919 chr7	72769670	72775321	0.0290837	chr7:072770	0.0290837
PAX8	922 chr2	113750637	113758030	0.0291013	chr2:113751	0.0291013
GF11	926 chr1	92721931	92730518	0.0291083	chr1:092722	0.0291083
PDE10A	929 chr6	165907538	166001105	0.0291277	chr6:165907	0.0291277
INTS6	934 chr13	50922329	50930566	0.0291753	chr13:05092	0.0291753
PAQR6	937 chr1	154479800	154485645	0.0291896	chr1:154482	0.0291896
GAA	938 chr17	75684378	75692108	0.0291965	chr17:07568	0.0291965
C9orf165	940 chr9	34511279	34516406	0.0292012	chr9:034511	0.0292012
ATP1B4	943 chrX	119375155	119382537	0.0292471	chrX:119380	0.0292471
DEF6	944 chr6	35371784	35375742	0.0292858	chr6:035371	0.0292858
PIM1	948 chr6	37242028	37248846	0.0293121	chr6:037242	0.0293121
MAD2L1	950 chr4	121204822	121212119	0.0293571	chr4:121204	0.0293571
AJAP1	952 chr1	4609689	4617856	0.0293688	chr1:004610	0.0293688
ZNF672	954 chr1	247096846	247110531	0.0293794	chr1:247096	0.0293794
HNRPU	957 chr1	243091563	243099958	0.0294159	chr1:243091	0.0294159
BNIP3	961 chr10	133642918	133649844	0.029464	chr10:13364	0.029464
STYXL1	963 chr7	75463716	75515273	0.0295209	chr7:075514	0.0295209
RSPO1	964 chr1	37870424	37877718	0.0295438	chr1:037872	0.0295438
MANBA	967 chr4	103899029	103904029	0.0295619	chr4:103900	0.0295619
ALMS1	968 chr2	73461114	73467500	0.0295715	chr2:073466	0.0295715
SHE	975 chr1	152738178	152741009	0.0296241	chr1:152740	0.0296241
F11R	979 chr1	159255250	159275518	0.0296438	chr1:159274	0.0296438
C9orf150	980 chr9	12759998	12768235	0.0296598	chr9:012768	0.0296598
TCP11	981 chr6	35215115	35222582	0.0296616	chr6:035215	0.0296616
HYAL3	984 chr3	50305311	50312025	0.0296711	chr3:050305	0.0296711
RPESP	987 chr8	74165699	74173317	0.0297102	chr8:074165	0.0297102
MZF1	992 chr19	63765221	63776694	0.0297176	chr19:06377	0.0297176
GALR2	993 chr17	71582629	71585117	0.0297271	chr17:07158	0.0297271
UHRF2	995 chr9	6397808	6405876	0.0297341	chr9:006404	0.0297341
RD3	996 chr1	209729968	209738380	0.0297404	chr1:209737	0.0297404
DFFB	997 chr1	3763777	3766314	0.0297462	chr1:003763	0.0297462
CACNA1S	1000 chr1	199345708	199353834	0.0297528	chr1:199347	0.0297528
TKTL1	1002 chrX	153177364	153178011	0.0297688	chrX:153177	0.0297688
PCSK5	1008 chr9	77691415	77698323	0.0298003	chr9:077696	0.0298003
HHLA3	1009 chr1	70593103	70598444	0.029814	chr1:070593	0.029814
WASF1	1017 chr6	110602877	110607745	0.0298847	chr6:110607	0.0298847
USH1G	1019 chr17	70427056	70430954	0.0299087	chr17:07043	0.0299087
PSMD9	1021 chr12	120805791	120840097	0.0299199	chr12:12080	0.0299199
SYNGAP1	1024 chr6	33496407	33529454	0.0299535	chr6:033496	0.0299535
TMEM54	1025 chr1	33138174	33145050	0.0299591	chr1:033138	0.0299591
NSMAF	1030 chr8	59732551	59738058	0.0300194	chr8:059733	0.0300194
PRRX2	1033 chr9	131462992	131470404	0.0300647	chr9:131466	0.0300647
NPAS1	1034 chr19	52210579	52218617	0.0300839	chr19:05221	0.0300839
KEAP1	1036 chr19	10470241	10477429	0.0300963	chr19:01047	0.0300963
HELT	1037 chr4	186171689	186179995	0.0300964	chr4:186171	0.0300964
EXOC8	1040 chr1	229534189	229540149	0.0301117	chr1:229538	0.0301117
LDOC1	1048 chrX	140096373	140104028	0.0301792	chrX:140096	0.0301792
FZD10	1050 chr12	129207614	129215918	0.0302045	chr12:12920	0.0302045
C6orf122	1053 chr6	169928766	169944517	0.0302218	chr6:169932	0.0302218
TCEA1	1055 chr8	55095034	55099508	0.0302285	chr8:055099	0.0302285

SORCS2	1058 chr4	7239809	7247794	0.0302314	chr4:007246	0.0302314
BAPX1	1060 chr4	13152931	13160184	0.0302637	chr4:013155	0.0302637
C1orf117	1063 chr1	16270197	16278195	0.030273	chr1:01627	0.030273
FAM91A1	1064 chr8	124844697	124862609	0.0302742	chr8:124850	0.0302742
EGLN3	1068 chr14	33487325	33495445	0.0302921	chr14:03348	0.0302921
FBXL12	1069 chr19	9788997	9790630	0.0302953	chr19:00978	0.0302953
ADAMTS13	1075 chr9	135277055	135314238	0.0303214	chr9:135314	0.0303214
TJAP1	1078 chr6	43548991	43556075	0.0303748	chr6:043555	0.0303748
KCNK2	1079 chr1	213317890	213325874	0.0303779	chr1:213325	0.0303779
EPB41	1084 chr1	29081055	29188806	0.0304048	chr1:029114	0.0304048
NPR3	1086 chr5	32743032	32822994	0.0304235	chr5:032748	0.0304235
LIMA1	1090 chr12	48961155	48968652	0.0304455	chr12:04896	0.0304455
FHL2	1091 chr2	105379649	105426859	0.0304558	chr2:10538	0.0304558
GANAB	1092 chr11	62149374	62170743	0.0304584	chr11:06217	0.0304584
BID	1094 chr22	16610501	16642651	0.030482	chr22:0166	0.030482
MAP3K7	1095 chr6	91350799	91359082	0.0304883	chr6:091355	0.0304883
SLURP1	1096 chr8	143818377	143828561	0.0304911	chr8:143820	0.0304911
TCF21	1098 chr6	134246927	134254747	0.0304967	chr6:134255	0.0304967
GPR85	1099 chr7	112512654	112520541	0.0304979	chr7:112514	0.0304979
L1CAM	1100 chrX	152792001	152794370	0.0305035	chrX:15279	0.0305035
PDE6A	1102 chr5	149303910	149309219	0.0305212	chr5:149304	0.0305212
SEPW1	1103 chr19	52968978	52976259	0.0305273	chr19:05297	0.0305273
PAX7	1105 chr1	18824807	18833022	0.0305391	chr1:018833	0.0305391
ANAPC2	1109 chr9	139189036	139202733	0.0305843	chr9:139200	0.0305843
PTK7	1110 chr6	43150808	43154714	0.0305873	chr6:043155	0.0305873
FEV	1112 chr2	219555843	219563147	0.0306237	chr2:219555	0.0306237
UCHL1	1122 chr4	40949654	40956242	0.0306907	chr4:040954	0.0306907
C6orf1	1124 chr6	34322388	34326058	0.0307047	chr6:034323	0.0307047
NUP35	1125 chr2	183692256	183699789	0.030711	chr2:183697	0.030711
INHBA	1126 chr7	41703984	41714534	0.0307161	chr7:041706	0.0307161
USP33	1137 chr1	77982628	78003508	0.0308099	chr1:077997	0.0308099
HBXIP	1141 chr1	110750422	110757196	0.0308422	chr1:110751	0.0308422
DRB1	1142 chr2	178685477	178687516	0.0308448	chr2:178688	0.0308448
ADHFE1	1146 chr8	67505946	67509318	0.0308544	chr8:067507	0.0308544
MIF	1148 chr22	22561213	22569094	0.0308893	chr22:02256	0.0308893
SGPP2	1149 chr2	222993203	223000055	0.0308898	chr2:222997	0.0308898
C6orf166	1150 chr6	88465848	88474128	0.0308921	chr6:088467	0.0308921
CLEC14A	1151 chr14	37792591	37798100	0.0308953	chr14:03779	0.0308953
TMSB4Y	1155 chrY	14319629	14327752	0.0309042	chrY:014321	0.0309042
RASAL2	1157 chr1	176325311	176579828	0.0309073	chr1:176330	0.0309073
RFXANK	1159 chr19	19163998	19169429	0.030917	chr19:01916	0.030917
PCDH12	1163 chr5	141315179	141318354	0.0309642	chr5:141317	0.0309642
MATN1	1165 chr1	30966872	30974961	0.0309751	chr1:030968	0.0309751
CPNE7	1166 chr16	88164454	88172332	0.0309871	chr16:08817	0.0309871
ERCC4	1167 chr16	13916979	13923604	0.0310038	chr16:01392	0.0310038
LMNB2	1170 chr19	2379136	2413401	0.0310236	chr19:00240	0.0310236
GABRB1	1171 chr4	46723400	46730859	0.0310258	chr4:046723	0.0310258
ETNK2	1173 chr1	202385101	202390517	0.0310328	chr1:202388	0.0310328
ZC3H12A	1175 chr1	37709510	37716102	0.0310649	chr1:037714	0.0310649
TOR3A	1177 chr1	177312520	177319982	0.0310716	chr1:177318	0.0310716
TWF2	1181 chr3	52237659	52248179	0.0310837	chr3:052239	0.0310837
ANKRD34	1183 chr1	144181884	144187023	0.0310871	chr1:144181	0.0310871
TPBG	1184 chr6	83125541	83132682	0.0310913	chr6:083132	0.0310913
EHHADH	1189 chr3	186452405	186454989	0.0311244	chr3:186454	0.0311244
RTCD1	1193 chr1	100500513	100507001	0.031152	chr1:100504	0.031152
FAM50A	1194 chrX	153324987	153328201	0.0311521	chrX:15332	0.0311521
MAPK15	1196 chr8	144865010	144872955	0.0311674	chr8:144872	0.0311674
CD6	1199 chr11	60490694	60498256	0.0311844	chr11:06049	0.0311844

OBSCN	1200	chr1	226457255	226473382	0.0311844	chr1:226466	0.0311844
RNF12	1212	chrX	73748667	73756510	0.0312543	chrX:073751	0.0312543
CENPB	1213	chr20	3712505	3715106	0.0312571	chr20:0037	0.0312571
TLL1	1214	chr4	167008518	167016934	0.0312573	chr4:167011	0.0312573
TRIP6	1215	chr7	100302616	100308958	0.0312588	chr7:100303	0.0312588
PPP2R5A	1217	chr1	210520799	210528561	0.0312669	chr1:210521	0.0312669
FLJ32063	1219	chr2	200042947	200045383	0.0312883	chr2:200041	0.0312883
IL11RA	1220	chr9	34640675	34651576	0.031292	chr9:03465	0.031292
DEFB1	1221	chr8	6721818	6728071	0.0313039	chr8:006721	0.0313039
PRMT6	1222	chr1	107395664	107403315	0.0313122	chr1:10740	0.0313122
EPHA3	1226	chr3	89234101	89242034	0.0313295	chr3:089231	0.0313295
CAMK4	1230	chr5	110584201	110590592	0.031356	chr5:110581	0.031356
MAP2K1IP1	1232	chr4	101032268	101039455	0.0313642	chr4:101031	0.0313642
ABHD11	1233	chr7	72788870	72796128	0.0313651	chr7:072781	0.0313651
CYB5D2	1236	chr17	3993714	3995787	0.0313753	chr17:00391	0.0313753
PIAS1	1239	chr15	66132793	66136101	0.03138	chr15:06611	0.03138
MGC26733	1243	chr2	98064908	98230344	0.0313999	chr2:098071	0.0313999
LOC255374	1244	chr7	99561061	99564115	0.0314061	chr7:099561	0.0314061
LRP8	1248	chr1	53563829	53570676	0.0314555	chr1:053561	0.0314555
PKDREJ	1249	chr22	45030224	45037650	0.0314728	chr22:04501	0.0314728
SPON2	1252	chr4	1153518	1161809	0.0314961	chr4:001151	0.0314961
SRFBP1	1254	chr5	121322240	121327697	0.0315056	chr5:121321	0.0315056
CRABP2	1256	chr1	154939464	154947415	0.0315294	chr1:154941	0.0315294
LAMB2	1257	chr3	49133527	49150865	0.0315342	chr3:049141	0.0315342
ITGA2	1258	chr5	52315565	52323510	0.0315465	chr5:052321	0.0315465
TBC1D10A	1261	chr22	29017972	29057956	0.0315654	chr22:02901	0.0315654
MAPK11	1262	chr22	49044414	49056391	0.0315656	chr22:04901	0.0315656
TNNI1	1268	chr1	199639818	199662597	0.0316015	chr1:199651	0.0316015
GNAS	1269	chr20	56842817	56902589	0.0316072	chr20:05681	0.0316072
SEMA6D	1270	chr15	45792625	45800484	0.0316081	chr15:04571	0.0316081
NFKBIL2	1271	chr8	145625421	145646001	0.031613	chr8:145631	0.031613
RPS6KA1	1273	chr1	26723744	26731199	0.0316269	chr1:026731	0.0316269
PDE6B	1274	chr4	604199	655011	0.0316281	chr4:000601	0.0316281
INTS10	1275	chr8	19715290	19724352	0.0316422	chr8:019711	0.0316422
AHR	1276	chr7	17299454	17307812	0.0316479	chr7:017301	0.0316479
KLF11	1277	chr2	10095634	10103757	0.0316534	chr2:010101	0.0316534
SIX2	1278	chr2	45087362	45095509	0.0316553	chr2:045081	0.0316553
LOC346157	1282	chr6	27463843	27466914	0.0316816	chr6:027461	0.0316816
TSCOT	1283	chr9	114690461	114698262	0.0316895	chr9:114691	0.0316895
LRRC14	1286	chr8	145714192	145718490	0.0316996	chr8:145711	0.0316996
RREB1	1287	chr6	7079314	7086958	0.0317014	chr6:007081	0.0317014
UBXD3	1288	chr1	20379841	20387683	0.0317028	chr1:020381	0.0317028
PODN	1289	chr1	53295240	53302987	0.0317049	chr1:053301	0.0317049
DHCR24	1290	chr1	55123415	55130946	0.0317071	chr1:055121	0.0317071
PDHB	1291	chr3	58392492	58396883	0.0317078	chr3:058391	0.0317078
2'-PDE	1293	chr3	57516638	57518968	0.0317126	chr3:057511	0.0317126
LMO4	1295	chr1	87561350	87572781	0.0317682	chr1:087561	0.0317682
MRM1	1300	chr17	32031471	32033710	0.0318175	chr17:03201	0.0318175
AP3B1	1301	chr5	77623959	77630923	0.0318358	chr5:077621	0.0318358
FLJ10357	1302	chr14	20603336	20610754	0.0318393	chr14:02061	0.0318393
CCND1	1303	chr11	69159563	69167767	0.0318404	chr11:06911	0.0318404
C4orf14	1305	chr4	57534402	57538411	0.0318681	chr4:057531	0.0318681
DACH1	1307	chr13	71336510	71344836	0.0318802	chr13:07131	0.0318802
MSX2	1310	chr5	174079018	174086779	0.0318891	chr5:174081	0.0318891
IRAK1BP1	1312	chr6	79628508	79636147	0.0319016	chr6:079631	0.0319016
MYO1G	1313	chr7	44982788	44990696	0.0319088	chr7:044981	0.0319088
NPAL2	1314	chr8	99373041	99379633	0.0319183	chr8:099371	0.0319183
TMEM130	1315	chr7	98302953	98305503	0.0319301	chr7:098301	0.0319301

COPS8	1319 chr2	237655252	237661693	0.0319422	chr2:237655	0.0319422
CSF3R	1320 chr1	36704333	36726539	0.0319495	chr1:036720	0.0319495
PELI2	1321 chr14	55651541	55657576	0.0319814	chr14:055651	0.0319814
GRB7	1323 chr17	35147698	35150573	0.0320041	chr17:035147	0.0320041
P2RY4	1325 chrX	69393674	69396321	0.0320271	chrX:069393	0.0320271
ST8SIA5	1331 chr18	42588001	42596460	0.0320521	chr18:042588	0.0320521
FBXO11	1333 chr2	47984014	47991158	0.032054	chr2:047984	0.032054
LOC283951	1338 chr16	1410040	1424845	0.0320858	chr16:001410	0.0320858
WDR40A	1340 chr9	34114115	34121989	0.0320891	chr9:034111	0.0320891
ZMPSTE24	1346 chr1	40490866	40499009	0.0321209	chr1:040490	0.0321209
SREBF1	1350 chr17	17678519	17686362	0.0321359	chr17:017678	0.0321359
ANK1	1353 chr8	41639431	41777281	0.0321562	chr8:041639	0.0321562
EBNA1BP2	1354 chr1	43405242	43410444	0.0321651	chr1:043405	0.0321651
TMIE	1358 chr3	46717838	46720114	0.032206	chr3:046717	0.032206
WDR51A	1362 chr3	52162397	52164128	0.0322134	chr3:052162	0.0322134
GTF3C1	1363 chr16	27463593	27468724	0.0322191	chr16:027463	0.0322191
TNFRSF14	1365 chr1	2484066	2491631	0.0322219	chr1:002484	0.0322219
INTS7	1370 chr1	210270656	210275452	0.0323027	chr1:210270	0.0323027
NPPA	1374 chr1	11828243	11839974	0.0323371	chr1:011828	0.0323371
HYI	1375 chr1	43689524	43695443	0.0323383	chr1:043689	0.0323383
CCDC115	1378 chr2	130811074	130816384	0.0323667	chr2:130811	0.0323667
RQCD1	1379 chr2	219142005	219146715	0.0323719	chr2:219142	0.0323719
GFER	1380 chr16	1974165	1977754	0.0323807	chr16:001974	0.0323807
VEGFA	1381 chr6	43840597	43849432	0.0323832	chr6:043840	0.0323832
SLC35F5	1382 chr2	114228533	114236388	0.0323849	chr2:114228	0.0323849
CDS2	1385 chr20	5055574	5060689	0.0324129	chr20:005055	0.0324129
BCOR	1388 chrX	39839089	39847042	0.0324201	chrX:039839	0.0324201
C8orf40	1392 chr8	42510559	42516242	0.0324534	chr8:042510	0.0324534
ORC2L	1393 chr2	201534679	201542106	0.0324544	chr2:201534	0.0324544
TCF2	1395 chr17	33176481	33183343	0.0324625	chr17:033176	0.0324625
CDX2	1396 chr13	27438763	27446718	0.0324647	chr13:027438	0.0324647
GFM1	1397 chr3	159844749	159847484	0.0324776	chr3:159844	0.0324776
ANKRD13D	1399 chr11	66811001	66826474	0.032488	chr11:066811	0.032488
NEIL2	1400 chr8	11658263	11666834	0.0324919	chr8:011658	0.0324919
CCDC66	1401 chr3	56566031	56568745	0.0324951	chr3:056566	0.0324951
GNA14	1405 chr9	79450209	79458327	0.0325272	chr9:079450	0.0325272
PEBP4	1407 chr8	22839142	22845534	0.0325355	chr8:022839	0.0325355
CCDC41	1408 chr12	93375330	93380282	0.032538	chr12:093375	0.032538
ENG	1409 chr9	129654079	129661532	0.0325394	chr9:129654	0.0325394
C10orf46	1410 chr10	120502368	120508462	0.0325426	chr10:120502	0.0325426
TMEM14B	1414 chr6	10851423	10858412	0.0325666	chr6:010851	0.0325666
C6orf25	1417 chr6	31793608	31801483	0.032592	chr6:031793	0.032592
NRM	1427 chr6	30764355	30769809	0.0326602	chr6:030764	0.0326602
PLA2G2A	1432 chr1	20177121	20180844	0.0326976	chr1:020177	0.0326976
EVX1	1434 chr7	27243501	27251650	0.0327008	chr7:027243	0.0327008
ZNF684	1435 chr1	40767703	40772060	0.0327111	chr1:040767	0.0327111
HMGB2	1437 chr4	174489243	174497577	0.0327201	chr4:174489	0.0327201
KCNS2	1443 chr8	99503204	99511883	0.0327682	chr8:099503	0.0327682
IRF2	1445 chr4	185584902	185637941	0.0328243	chr4:185584	0.0328243
C5orf35	1449 chr5	56236803	56243424	0.0328436	chr5:056236	0.0328436
ITGAL	1453 chr16	30386685	30393632	0.0328589	chr16:030386	0.0328589
MYL3	1454 chr3	46877458	46883991	0.0328698	chr3:046877	0.0328698
FLJ20245	1457 chr9	139288143	139295471	0.0328888	chr9:139288	0.0328888
APOB48R	1458 chr16	28413675	28416354	0.0328921	chr16:028413	0.0328921
TIGD5	1459 chr8	144751559	144755074	0.0328963	chr8:144751	0.0328963
PCDHGC5	1460 chr5	140847721	140851432	0.0329093	chr5:140847	0.0329093
FIP1L1	1464 chr4	53937621	53940799	0.0329687	chr4:053937	0.0329687
RGS3	1465 chr9	115259756	115399042	0.0329855	chr9:115259	0.0329855

SLC5A8	1466 chr12	100125381	100131557	0.0329889	chr12:100125381-100131557	0.0329889
MARCH4	1475 chr2	216942477	216949579	0.0330498	chr2:216942477-216949579	0.0330498
CHRD	1476 chr3	185581191	185584049	0.0330738	chr3:185581191-185584049	0.0330738
VCPIP1	1480 chr8	67736959	67741894	0.0330908	chr8:67736959-67741894	0.0330908
ARMCX1	1485 chrX	100688175	100694752	0.0331203	chrX:100688175-100694752	0.0331203
MRPS36	1494 chr5	68544480	68561659	0.033205	chr5:68544480-68561659	0.033205
SMG5	1496 chr1	154485849	154519028	0.0332207	chr1:154485849-154519028	0.0332207
C14orf4	1503 chr14	76561504	76570139	0.033261	chr14:76561504-76570139	0.033261
STK38	1505 chr6	36620703	36627862	0.0332682	chr6:36620703-36627862	0.0332682
IL1RL2	1507 chr2	102164480	102172497	0.0332837	chr2:102164480-102172497	0.0332837
JTB	1508 chr1	152213987	152220714	0.0332987	chr1:152213987-152220714	0.0332987
KCNK17	1510 chr6	39387884	39390483	0.0333199	chr6:39387884-39390483	0.0333199
DGKE	1511 chr17	52261227	52268852	0.0333472	chr17:52261227-52268852	0.0333472
SDC3	1514 chr1	31120639	31159222	0.0333903	chr1:31120639-31159222	0.0333903
GPC2	1516 chr7	99605162	99612908	0.0334015	chr7:99605162-99612908	0.0334015
SLC39A1	1517 chr1	152198309	152206551	0.0334026	chr1:152198309-152206551	0.0334026
CENTD3	1520 chr5	141013143	141047189	0.0334206	chr5:141013143-141047189	0.0334206
RNASEH2B	1521 chr13	50376724	50384343	0.0334228	chr13:50376724-50384343	0.0334228
MAP6D1	1524 chr3	185024507	185029533	0.0334476	chr3:185024507-185029533	0.0334476
PITX2	1526 chr4	111760752	111783483	0.0334675	chr4:111760752-111783483	0.0334675
FSCN1	1529 chr7	5594558	5601369	0.0334784	chr7:5594558-5601369	0.0334784
UCHL5	1533 chr1	191290477	191295026	0.0335179	chr1:191290477-191295026	0.0335179
RHBDL1	1539 chr16	664395	668276	0.0335421	chr16:664395-668276	0.0335421
TSPAN12	1540 chr7	120283117	120290922	0.0335517	chr7:120283117-120290922	0.0335517
FCHSD1	1541 chr5	141000944	141011717	0.0335572	chr5:141000944-141011717	0.0335572
CCDC64	1543 chr12	118908450	118914152	0.0335716	chr12:118908450-118914152	0.0335716
HIPK1	1544 chr1	114268268	114321915	0.0335741	chr1:114268268-114321915	0.0335741
RASSF5	1545 chr1	204747564	204799997	0.0335812	chr1:204747564-204799997	0.0335812
TMEM168	1549 chr7	112209687	112222165	0.0335913	chr7:112209687-112222165	0.0335913
FLJ20152	1550 chr5	16559799	16675545	0.0335985	chr5:16559799-16675545	0.0335985
VAX1	1554 chr10	118885157	118893254	0.0336289	chr10:118885157-118893254	0.0336289
UBE2J2	1555 chr1	1191252	1198986	0.0336342	chr1:1191252-1198986	0.0336342
TMEM63B	1562 chr6	44203425	44231024	0.0336775	chr6:44203425-44231024	0.0336775
INSRR	1564 chr1	155092773	155095139	0.0336852	chr1:155092773-155095139	0.0336852
PPP2R3B	1566 chrY	219151	273152	0.0336909	chrY:219151-273152	0.0336909
RSPO2	1567 chr8	109160982	109168013	0.0337203	chr8:109160982-109168013	0.0337203
EREG	1568 chr4	75444369	75452339	0.033726	chr4:75444369-75452339	0.033726
FBN2	1570 chr5	127898728	127905739	0.0337367	chr5:127898728-127905739	0.0337367
KCNN1	1571 chr19	17940323	17947144	0.0337426	chr19:17940323-17947144	0.0337426
C9orf117	1580 chr9	129512793	129515591	0.0337935	chr9:129512793-129515591	0.0337935
AVPR1B	1583 chr1	204386194	204393499	0.0338277	chr1:204386194-204393499	0.0338277
NR2F2	1584 chr15	94669738	94678775	0.0338348	chr15:94669738-94678775	0.0338348
IMPDH1	1586 chr7	127834860	127842789	0.0338414	chr7:127834860-127842789	0.0338414
GPNMB	1589 chr7	23247463	23254917	0.0338499	chr7:23247463-23254917	0.0338499
ADPRH	1592 chr3	120775688	120785771	0.0338589	chr3:120775688-120785771	0.0338589
MAFK	1594 chr7	1533149	1547861	0.0338969	chr7:1533149-1547861	0.0338969
SNAPC4	1595 chr9	138389846	138415972	0.0339019	chr9:138389846-138415972	0.0339019
PCDHGC3	1596 chr5	140830243	140838368	0.0339068	chr5:140830243-140838368	0.0339068
LMX1A	1598 chr1	163446786	163597644	0.0339154	chr1:163446786-163597644	0.0339154
SETDB1	1601 chr1	149161484	149167672	0.0339355	chr1:149161484-149167672	0.0339355
PDLIM2	1602 chr8	22489061	22511408	0.033942	chr8:22489061-22511408	0.033942
SLC6A16	1603 chr19	54519489	54520359	0.0339669	chr19:54519489-54520359	0.0339669
HABP4	1604 chr9	98246827	98254728	0.033968	chr9:98246827-98254728	0.033968
SURF2	1605 chr9	135213290	135217982	0.0339709	chr9:135213290-135217982	0.0339709
SNED1	1607 chr2	241650251	241654467	0.0339723	chr2:241650251-241654467	0.0339723
ADAMTS15	1611 chr11	129819035	129826572	0.0339923	chr11:129819035-129826572	0.0339923
SNIP	1616 chr17	33966714	33974671	0.0340154	chr17:33966714-33974671	0.0340154
APBB1IP	1622 chr10	26764121	26770196	0.0340301	chr10:26764121-26770196	0.0340301

DMRT1	1625 chr9	827943	834363	0.0340315	chr9:000830	0.0340315
THAP10	1630 chr15	68968984	68971827	0.0340541	chr15:06890	0.0340541
TRIB1	1633 chr8	126506514	126514784	0.0340897	chr8:126514	0.0340897
TAS1R2	1635 chr1	19056293	19063965	0.0341002	chr1:019050	0.0341002
RORB	1637 chr9	76296737	76305221	0.0341123	chr9:076300	0.0341123
ZBTB16	1638 chr11	113430193	113636269	0.0341219	chr11:11343	0.0341219
CDKN1A	1642 chr6	36749657	36756881	0.0341656	chr6:036750	0.0341656
MYL5	1643 chr4	661727	663613	0.0341674	chr4:000660	0.0341674
DUSP7	1644 chr3	52062878	52070663	0.0341733	chr3:052060	0.0341733
CENPF	1645 chr1	212841560	212845239	0.0341771	chr1:212840	0.0341771
CHTF18	1651 chr16	778685	787708	0.0342163	chr16:00070	0.0342163
ZNF498	1653 chr7	99054916	99062092	0.0342289	chr7:099050	0.0342289
HEY2	1655 chr6	126107200	126115022	0.0342412	chr6:126110	0.0342412
EMILIN1	1658 chr2	27150472	27162794	0.0342526	chr2:027160	0.0342526
CDC42EP3	1661 chr2	37749929	37758329	0.0342584	chr2:037750	0.0342584
GUK1	1662 chr1	226394270	226403289	0.0342595	chr1:226390	0.0342595
DCUN1D4	1663 chr4	52398675	52406521	0.0342653	chr4:052400	0.0342653
PPIG	1664 chr2	170148977	170151577	0.0342716	chr2:170140	0.0342716
COL23A1	1670 chr5	177919768	177953368	0.0342866	chr5:177940	0.0342866
FLJ37078	1671 chr7	75747054	75754926	0.03429	chr7:075750	0.03429
SUCLG2	1672 chr3	67785184	67793192	0.0342957	chr3:067780	0.0342957
COMMD10	1673 chr5	115443298	115451105	0.0342984	chr5:115440	0.0342984
SDCCAG3	1676 chr9	138416253	138424611	0.0343133	chr9:138410	0.0343133
TP53I11	1679 chr11	44926154	44934743	0.0343407	chr11:04490	0.0343407
SNAPC2	1681 chr19	7885806	7894757	0.0343488	chr19:00780	0.0343488
ACBD3	1682 chr1	224438653	224445541	0.0343537	chr1:224440	0.0343537
CCNI	1684 chr4	78213728	78221627	0.0343631	chr4:078210	0.0343631
MAEA	1690 chr4	1268236	1276243	0.0343763	chr4:001270	0.0343763
RAP1GAP	1694 chr1	21816638	21873857	0.0344113	chr1:021810	0.0344113
TAF7	1697 chr5	140677700	140680548	0.0344324	chr5:140680	0.0344324
RRP9	1702 chr3	51946278	51950942	0.0344723	chr3:051950	0.0344723
KIF3A	1703 chr5	132099138	132101154	0.0344819	chr5:132100	0.0344819
ZNF200	1705 chr16	3222717	3229401	0.0344983	chr16:00320	0.0344983
PPP2R2A	1708 chr8	26199981	26207501	0.0345126	chr8:026200	0.0345126
ZIC5	1709 chr13	99419550	99422290	0.0345312	chr13:09940	0.0345312
MMRN2	1712 chr10	88703573	88707352	0.0345383	chr10:08870	0.0345383
KIAA0274	1718 chr6	110119177	110121907	0.0345527	chr6:110110	0.0345527
SFTPC	1720 chr8	22075189	22077721	0.0345586	chr8:022070	0.0345586
GPX3	1721 chr5	150376655	150382868	0.0345592	chr5:150380	0.0345592
DCAMKL2	1722 chr4	151214094	151222212	0.0345594	chr4:151210	0.0345594
LUC7L	1726 chr16	217153	219449	0.0345785	chr16:00020	0.0345785
GEMIN6	1728 chr2	38853471	38861974	0.0345906	chr2:038850	0.0345906
CHCHD1	1731 chr10	75206967	75212996	0.0346323	chr10:07520	0.0346323
HOMER1	1733 chr5	78842597	78850956	0.0346392	chr5:078840	0.0346392
CSTF1	1735 chr20	54400956	54406144	0.0346463	chr20:05440	0.0346463
C9orf25	1737 chr9	34388179	34448477	0.0346496	chr9:034440	0.0346496
DNMT3B	1738 chr20	30809090	30833074	0.0346644	chr20:03080	0.0346644
CAMK2B	1741 chr7	44329366	44336758	0.034684	chr7:044330	0.034684
PUSL1	1742 chr1	1233924	1236872	0.034696	chr1:001230	0.034696
SEZ6L2	1743 chr16	29814162	29818001	0.0347049	chr16:02980	0.0347049
SLC35B4	1751 chr7	133650343	133657807	0.0347541	chr7:133650	0.0347541
SPAST	1753 chr2	32137156	32144385	0.0347643	chr2:032140	0.0347643
ADAMTSL4	1761 chr1	148783122	148790577	0.0348091	chr1:148780	0.0348091
EDEM2	1765 chr20	33196382	33203464	0.0348374	chr20:03310	0.0348374
OXSM	1767 chr3	25806672	25810040	0.0348492	chr3:025800	0.0348492
LYPLA2	1768 chr1	23987279	23992776	0.0348669	chr1:023990	0.0348669
DEPDC1B	1770 chr5	60029355	60036365	0.0348753	chr5:060030	0.0348753
UBE1DC1	1771 chr3	133862057	133864252	0.0348758	chr3:133860	0.0348758

AXUD1	1773 chr3	39167530	39175615	0.034901	chr3:039165	0.034901
MCTS1	1775 chrX	119620136	119624282	0.03492	chrX:11962	0.03492
NOL4	1778 chr18	30054784	30061524	0.0349246	chr18:03005	0.0349246
P117	1782 chr19	5626988	5631753	0.0349562	chr19:00563	0.0349562
PRDM16	1783 chr1	2970209	2979633	0.034959	chr1:002970	0.034959
PCDHAC2	1786 chr5	140320799	140329035	0.034978	chr5:140320	0.034978
C12orf41	1787 chr12	47359313	47367663	0.0349785	chr12:04736	0.0349785
HS3ST6	1789 chr16	1905933	1913904	0.0349942	chr16:00190	0.0349942
TGFB1	1791 chr5	135387248	135394938	0.0349962	chr5:135394	0.0349962
NOL7	1792 chr6	13720935	13726061	0.0350163	chr6:013720	0.0350163
PLCXD3	1795 chr5	41543982	41551612	0.0350359	chr5:041543	0.0350359
GAMT	1797 chr19	1350002	1352512	0.0350625	chr19:00135	0.0350625
SLC25A44	1798 chr1	154428518	154449169	0.0350682	chr1:154448	0.0350682
NEU1	1801 chr6	31936020	31938975	0.0350807	chr6:031936	0.0350807
RNF20	1804 chr9	103330570	103338478	0.0350961	chr9:103330	0.0350961
DNAJC16	1806 chr1	15725991	15728650	0.0351011	chr1:015725	0.0351011
RNF207	1807 chr1	6188493	6190916	0.0351054	chr1:006190	0.0351054
EEF1D	1810 chr8	144733301	144750583	0.0351227	chr8:144733	0.0351227
ESPN	1811 chr1	6407512	6410346	0.0351235	chr1:006407	0.0351235
C9orf3	1813 chr9	96524246	96890250	0.0351361	chr9:096888	0.0351361
PSME3	1815 chr17	38239175	38249209	0.0351561	chr17:03823	0.0351561
PEX1	1817 chr7	91991911	91995761	0.0351604	chr7:091999	0.0351604
MYBPC3	1819 chr11	47328808	47334769	0.0351668	chr11:04733	0.0351668
KHDRBS3	1820 chr8	136533614	136541780	0.0351684	chr8:136533	0.0351684
PPAPDC1B	1821 chr8	38243459	38251271	0.0351696	chr8:038243	0.0351696
TMBIM1	1822 chr2	218863350	218870360	0.0351701	chr2:218863	0.0351701
TTC7A	1823 chr2	47016301	47024341	0.0351722	chr2:047020	0.0351722
SRP9	1829 chr1	224026641	224034360	0.0352243	chr1:224033	0.0352243
DKFZp434k	1835 chr7	101892576	101897765	0.035247	chr7:101892	0.035247
SENP7	1836 chr3	102712701	102719537	0.0352509	chr3:102712	0.0352509
MAPK13	1837 chr6	36201409	36208822	0.0352644	chr6:036201	0.0352644
TMEM125	1838 chr1	43504664	43511360	0.0352662	chr1:043504	0.0352662
DDX18	1840 chr2	118284735	118291281	0.0352767	chr2:118284	0.0352767
LOC400258	1841 chr14	104112433	104119684	0.0352788	chr14:10411	0.0352788
JMJD2C	1844 chr9	6742793	6749645	0.0352796	chr9:006742	0.0352796
STK32B	1845 chr4	5100353	5106317	0.0352812	chr4:005100	0.0352812
PROSC	1853 chr8	37734563	37741505	0.0353135	chr8:037733	0.0353135
GTF3C5	1855 chr9	134891420	134923658	0.0353247	chr9:134923	0.0353247
CSF3	1856 chr17	35420187	35427742	0.0353293	chr17:03542	0.0353293
ARHGAP21	1859 chr10	25050228	25057733	0.0353486	chr10:02505	0.0353486
C10orf116	1866 chr10	88713071	88720777	0.035393	chr10:08871	0.035393
HINT2	1871 chr9	35802966	35807572	0.0354411	chr9:035802	0.0354411
LGR4	1872 chr11	27344156	27454150	0.0354417	chr11:02744	0.0354417
HSPB6	1873 chr19	40937294	40939608	0.035452	chr19:04093	0.035452
HOXC10	1875 chr12	52659869	52670337	0.0354558	chr12:05266	0.0354558
SPR	1879 chr2	72964043	72970587	0.0354734	chr2:072964	0.0354734
PLEKHA4	1888 chr19	54032215	54063092	0.0355273	chr19:05403	0.0355273
NAB2	1891 chr12	55768852	55771806	0.0355374	chr12:05576	0.0355374
UBE1L	1896 chr3	49817531	49826766	0.0355686	chr3:049817	0.0355686
ACSL4	1897 chrX	108860853	108868658	0.0355689	chrX:108860	0.0355689
MLL4	1898 chr19	40899935	40921815	0.0355721	chr19:04090	0.0355721
C4orf9	1900 chr4	2909451	2934871	0.0355751	chr4:002934	0.0355751
LSR	1903 chr19	40430586	40450726	0.0355887	chr19:04043	0.0355887
U65	1905 chr9	129250624	129253391	0.0355967	chr9:129250	0.0355967
WNT3A	1907 chr1	226256253	226263895	0.0356153	chr1:226256	0.0356153
PIP5KL1	1908 chr9	129723792	129734016	0.0356234	chr9:129723	0.0356234
MGC2408	1911 chr3	185450256	185455522	0.0356418	chr3:185450	0.0356418
CRY1	1912 chr12	105909275	106016844	0.0356586	chr12:10601	0.0356586

MTIF2	1914 chr2	55317042	55349963	0.0356636	chr2:055349	0.0356636
TNFAIP8L1	1918 chr19	4585654	4592869	0.0356783	chr19:00459	0.0356783
SMAD7	1921 chr18	44728524	44736598	0.0356821	chr18:04473	0.0356821
AQP2	1926 chr12	48625434	48638807	0.0357187	chr12:04863	0.0357187
LEMD2	1927 chr6	33862450	33870143	0.0357206	chr6:033863	0.0357206
RNF130	1932 chr5	179372715	179436732	0.035752	chr5:179437	0.035752
COMT	1935 chr22	18308237	18332577	0.0357926	chr22:01833	0.0357926
TSPAN15	1936 chr10	70876411	70883773	0.0358137	chr10:07088	0.0358137
CTR9	1937 chr11	10723954	10731893	0.0358147	chr11:01072	0.0358147
RNF5	1939 chr6	32254440	32256642	0.0358287	chr6:032254	0.0358287
HMGNA4	1941 chr6	26641251	26649108	0.0358435	chr6:026644	0.0358435
LSP1	1942 chr11	1825423	1833382	0.0358444	chr11:00183	0.0358444
HYAL1	1947 chr3	50312298	50317365	0.0358792	chr3:050311	0.0358792
NELL1	1950 chr11	20642793	20650336	0.0359187	chr11:02064	0.0359187
ZNF385	1951 chr12	53049263	53074629	0.0359239	chr12:05306	0.0359239
FNTB	1952 chr14	64520334	64525304	0.03593	chr14:06452	0.03593
LRCH4	1957 chr7	100016528	100021712	0.0359518	chr7:100016	0.0359518
C2orf40	1964 chr2	106043060	106050328	0.0360107	chr2:106043	0.0360107
EXOC1	1965 chr4	56409213	56416517	0.0360118	chr4:056414	0.0360118
DOCK11	1967 chrX	117510503	117516374	0.0360225	chrX:117511	0.0360225
ADAT1	1973 chr16	74212197	74218136	0.0360695	chr16:07421	0.0360695
AGER	1974 chr6	32256696	32260482	0.0360703	chr6:032257	0.0360703
CTBP1	1977 chr4	1228728	1232513	0.0360928	chr4:001230	0.0360928
SPOCK3	1980 chr4	168389691	168397759	0.0360989	chr4:168397	0.0360989
ESAM	1981 chr11	124128232	124141530	0.0361002	chr11:12411	0.0361002
FAM127A	1982 chrX	133993988	133996865	0.0361002	chrX:133993	0.0361002
RAB6B	1984 chr3	135094597	135101238	0.036111	chr3:135096	0.036111
CGN	1988 chr1	149745102	149777721	0.0361377	chr1:149752	0.0361377
TBL1Y	1990 chrY	6836543	6954892	0.0361417	chrY:006836	0.0361417
MRPL53	1993 chr2	74552668	74554318	0.0361609	chr2:074555	0.0361609
SCUBE1	1994 chr22	42066853	42073756	0.036165	chr22:04206	0.036165
NT5E	1998 chr6	86211404	86219075	0.0361861	chr6:086211	0.0361861
RAB3GAP2	2000 chr1	218511149	218517740	0.0361935	chr1:218511	0.0361935
IKBK1	2001 chrX	153429303	153433712	0.036224	chrX:153433	0.036224
SH2B3	2002 chr12	110323460	110330281	0.0362298	chr12:11032	0.0362298
SNN	2003 chr16	11664751	11679939	0.0362336	chr16:01167	0.0362336
TEKT2	2005 chr1	36317379	36326478	0.0362538	chr1:036326	0.0362538
ARID3C	2009 chr9	34611610	34615782	0.0362648	chr9:034611	0.0362648
U2AF2	2012 chr19	60856493	60877894	0.0362768	chr19:06085	0.0362768
OXCT1	2019 chr5	41903743	41911527	0.0363208	chr5:041906	0.0363208
PLB1	2021 chr2	28672937	28680789	0.0363412	chr2:028680	0.0363412
LOXL4	2022 chr10	100015727	100023442	0.0363462	chr10:10001	0.0363462
FBP1	2023 chr9	96439172	96446015	0.0363525	chr9:096444	0.0363525
HIST1H3A	2026 chr6	26128687	26128899	0.0363577	chr6:026128	0.0363577
C1orf57	2031 chr1	231147987	231154362	0.0363893	chr1:231153	0.0363893
SCOTIN	2033 chr3	48484178	48521601	0.0364006	chr3:048516	0.0364006
WDR46	2034 chr6	33354840	33364897	0.0364044	chr6:033336	0.0364044
KCNV1	2040 chr8	111053552	111061650	0.0364368	chr8:111055	0.0364368
BMP2R2	2044 chr2	202944713	202952041	0.0364664	chr2:202950	0.0364664
CDCP2	2046 chr1	54388871	54397268	0.036473	chr1:054397	0.036473
IGSF21	2049 chr1	18301792	18309696	0.0364796	chr1:018301	0.0364796
KCNT1	2050 chr9	137734236	137736647	0.0364862	chr9:137734	0.0364862
ADAM19	2051 chr5	156933790	156936755	0.0364926	chr5:156934	0.0364926
BDH1	2053 chr3	198765289	198789921	0.0365042	chr3:198765	0.0365042
NAPRT1	2054 chr8	144729415	144733023	0.036511	chr8:144729	0.036511
ITGAV	2056 chr2	187158472	187165729	0.0365303	chr2:187165	0.0365303
THOC1	2061 chr18	255751	263169	0.0365478	chr18:00026	0.0365478
RPP21	2066 chr6	30420120	30423275	0.0365623	chr6:030422	0.0365623

PDGFRB	2070 chr5	149473709	149515943	0.0365881	chr5:149473709	0.0365881
ProSAPiP1	2073 chr20	3091384	3106332	0.0365961	chr20:003091384	0.0365961
IPO13	2074 chr1	44175466	44206012	0.0366142	chr1:044175466	0.0366142
TOM1L1	2076 chr17	50327703	50335544	0.0366277	chr17:050327703	0.0366277
GPR30	2085 chr7	1087532	1099929	0.0366837	chr7:001087532	0.0366837
ST6GALNA	2094 chr17	72092385	72097670	0.0367183	chr17:072092385	0.0367183
USP21	2096 chr1	159395367	159402066	0.0367288	chr1:159395367	0.0367288
C1orf106	2102 chr1	199122958	199129687	0.0367684	chr1:199122958	0.0367684
THBS3	2103 chr1	153431871	153444259	0.0367698	chr1:153431871	0.0367698
RG9MTD3	2110 chr9	37738951	37746297	0.0368169	chr9:037738951	0.0368169
RAB42	2113 chr1	28790655	28792813	0.0368268	chr1:028790655	0.0368268
ANKRD13B	2115 chr17	24944808	24947160	0.0368309	chr17:024944808	0.0368309
IL9R	2117 chrY	57737572	57741833	0.0368432	chrY:057737572	0.0368432
MGC35154	2118 chr2	232163589	232167468	0.0368435	chr2:232163589	0.0368435
IFNW1	2120 chr9	21130234	21136348	0.0368485	chr9:021130234	0.0368485
BAZ1A	2134 chr14	34412089	34419625	0.0369327	chr14:034412089	0.0369327
SYTL1	2135 chr1	27535665	27546872	0.0369387	chr1:027535665	0.0369387
GPR103	2139 chr4	122518949	122526519	0.0369726	chr4:122518949	0.0369726
DPM1	2141 chr20	48984837	49008400	0.0369931	chr20:049008400	0.0369931
CISH	2147 chr3	50621612	50624085	0.0370206	chr3:050621612	0.0370206
HNRPF	2148 chr10	43222464	43229868	0.0370261	chr10:043222464	0.0370261
SHKBP1	2156 chr19	45774398	45788972	0.0370558	chr19:045774398	0.0370558
PVRL2	2157 chr19	50036396	50083184	0.0370559	chr19:050036396	0.0370559
TBX10	2161 chr11	67155803	67166566	0.0370709	chr11:067155803	0.0370709
MFRP	2162 chr11	118716897	118728098	0.0370729	chr11:118716897	0.0370729
PRKAG2	2168 chr7	151140595	151210217	0.0370968	chr7:151140595	0.0370968
INSM1	2169 chr20	20291571	20299427	0.0371131	chr20:020291571	0.0371131
CYP46A1	2174 chr14	99215260	99222392	0.0371527	chr14:099215260	0.0371527
KIAA1009	2175 chr6	84992684	84999165	0.0371532	chr6:084992684	0.0371532
LOC399947	2177 chr11	108792753	108800643	0.0371645	chr11:108792753	0.0371645
SYT6	2178 chr1	114495532	114503500	0.0371773	chr1:114495532	0.0371773
PMF1	2180 chr1	154449304	154476477	0.0371833	chr1:154449304	0.0371833
BIRC7	2183 chr20	61334202	61340368	0.0371866	chr20:061334202	0.0371866
ZNF711	2186 chrX	84382346	84388876	0.0372111	chrX:084382346	0.0372111
ZXDC	2187 chr3	127674430	127682000	0.0372141	chr3:127674430	0.0372141
CASKIN1	2190 chr16	2183634	2186425	0.0372325	chr16:002183634	0.0372325
PDCD10	2192 chr3	168930778	168935294	0.0372426	chr3:168930778	0.0372426
ALKBH5	2196 chr17	18023910	18030763	0.0372578	chr17:018023910	0.0372578
GNG4	2200 chr1	233878320	233886164	0.0372743	chr1:233878320	0.0372743
FNDC4	2203 chr2	27568258	27571578	0.037288	chr2:027568258	0.037288
CENPM	2205 chr22	40671167	40678480	0.0373095	chr22:040671167	0.0373095
CAB39	2206 chr2	231285134	231288320	0.0373175	chr2:231285134	0.0373175
PARP10	2207 chr8	145123336	145132517	0.0373225	chr8:145123336	0.0373225
KIF27	2208 chr9	85724119	85730186	0.0373233	chr9:085724119	0.0373233
CNOT8	2210 chr5	154218377	154220867	0.0373282	chr5:154218377	0.0373282
PCSK4	2212 chr19	1432417	1441250	0.0373347	chr19:001432417	0.0373347
C9orf98	2217 chr9	134738568	134743980	0.0373842	chr9:134738568	0.0373842
CCNH	2218 chr5	86741988	86749826	0.0373849	chr5:086741988	0.0373849
BRI3	2219 chr7	97743502	97751498	0.0373854	chr7:097743502	0.0373854
ORC6L	2221 chr16	45281066	45284914	0.0373929	chr16:045281066	0.0373929
DDX3X	2228 chrX	41073229	41080686	0.0374201	chrX:041073229	0.0374201
ANAPC1	2233 chr2	112357253	112361998	0.0374416	chr2:112357253	0.0374416
PLCXD2	2244 chr3	112870689	113057840	0.0374884	chr3:112870689	0.0374884
LHX2	2246 chr9	125808376	125816940	0.0374944	chr9:125808376	0.0374944
TRIM50	2247 chr7	72364580	72384927	0.0375014	chr7:072364580	0.0375014
GPR113	2248 chr2	26393050	26399762	0.0375045	chr2:026393050	0.0375045
ENPP4	2250 chr6	46202007	46206836	0.0375259	chr6:046202007	0.0375259
ACTN4	2255 chr19	43824667	43832648	0.037547	chr19:043824667	0.037547

C2orf43	2262 chr2	20885219	20891401	0.0375821	chr2:020886	0.0375821
PTPRN	2266 chr2	219865141	219883689	0.0376108	chr2:219887	0.0376108
TNNC1	2267 chr3	52460138	52463030	0.037613	chr3:052467	0.037613
RECQL4	2269 chr8	145707474	145713848	0.0376207	chr8:145711	0.0376207
STOML2	2273 chr9	35089897	35093746	0.0376321	chr9:035097	0.0376321
CDK5R2	2275 chr2	219527554	219535227	0.0376384	chr2:219535	0.0376384
NEUROG3	2276 chr10	71000791	71008630	0.0376444	chr10:07100	0.0376444
MAL2	2278 chr8	120285576	120292399	0.0376546	chr8:120290	0.0376546
DOCK5	2283 chr8	25092881	25100316	0.0376998	chr8:025098	0.0376998
PLXNB3	2289 chrX	152680653	152697902	0.0377201	chrX:152691	0.0377201
MPG	2294 chr16	67117	71554	0.0377529	chr16:00000	0.0377529
FBXW5	2296 chr9	138954102	138958842	0.0377591	chr9:138954	0.0377591
LCN2	2305 chr9	129946042	129954115	0.0377989	chr9:129954	0.0377989
METRNL	2310 chr16	705361	707482	0.0378111	chr16:00070	0.0378111
BTF3L4	2311 chr1	52294924	52299829	0.0378166	chr1:052294	0.0378166
RAVER1	2313 chr19	10287874	10305376	0.0378307	chr19:01028	0.0378307
ABCD1	2317 chrX	152643651	152648484	0.0378574	chrX:152644	0.0378574
IRF2BP2	2318 chr1	232809436	232817097	0.037875	chr1:232810	0.037875
C16orf55	2323 chr16	88251711	88255741	0.037892	chr16:08825	0.037892
H2AFY2	2327 chr10	71477530	71485067	0.037904	chr10:07147	0.037904
CEBPZ	2328 chr2	37307443	37312124	0.037914	chr2:037312	0.037914
ATP6V1A	2329 chr3	114948589	114953151	0.0379147	chr3:114948	0.0379147
ZNF579	2331 chr19	60781551	60789185	0.0379222	chr19:06078	0.0379222
EPHB4	2332 chr7	100260122	100267319	0.0379272	chr7:100260	0.0379272
ARSI	2334 chr5	149659742	149667507	0.0379541	chr5:149667	0.0379541
ITPR2	2337 chr12	26874465	26882751	0.037962	chr12:02687	0.037962
PSCA	2338 chr8	143758496	143761284	0.0379761	chr8:143760	0.0379761
PCDHA12	2339 chr5	140231457	140237579	0.037979	chr5:140236	0.037979
PHF17	2340 chr4	129945189	129952891	0.0379817	chr4:129952	0.0379817
ZBTB48	2342 chr1	6562434	6565393	0.0379831	chr1:006562	0.0379831
PRR5	2344 chr22	43445886	43507907	0.0379853	chr22:04344	0.0379853
ITIH1	2347 chr3	52786702	52801103	0.0379989	chr3:052786	0.0379989
UACA	2348 chr15	68840725	68848366	0.0379995	chr15:06884	0.0379995
BHLHB4	2350 chr20	61106133	61112057	0.0380047	chr20:06110	0.0380047
MSC	2351 chr8	72916695	72924774	0.0380059	chr8:072916	0.0380059
HS3ST2	2353 chr16	22727686	22735909	0.03801	chr16:02272	0.03801
PKIG	2355 chr20	42671267	42679051	0.0380124	chr20:04267	0.0380124
COL7A1	2356 chr3	48576541	48611396	0.038018	chr3:048580	0.038018
MED12	2359 chrX	70255159	70278990	0.0380339	chrX:070255	0.0380339
PHF15	2361 chr5	133883927	133892225	0.0380492	chr5:133888	0.0380492
OAF	2362 chr11	119582375	119589624	0.038052	chr11:11958	0.038052
C6orf81	2363 chr6	35803041	35814552	0.0380578	chr6:035812	0.0380578
C11orf2	2364 chr11	64612521	64635765	0.0380597	chr11:06463	0.0380597
SF3A3	2365 chr1	38225807	38234668	0.038061	chr1:038222	0.038061
PLEKHH2	2366 chr2	43712502	43719853	0.0380799	chr2:043711	0.0380799
FNIP1	2367 chr5	131158725	131164339	0.0380825	chr5:131160	0.0380825
FGF13	2373 chrX	137575133	137654472	0.0380949	chrX:137627	0.0380949
BGN	2379 chrX	152408134	152425794	0.0381212	chrX:152421	0.0381212
FCN3	2381 chr1	27568170	27578190	0.0381293	chr1:027575	0.0381293
SLC7A11	2384 chr4	139380366	139385732	0.0381432	chr4:139382	0.0381432
CLN6	2385 chr15	66286356	66314124	0.0381463	chr15:06628	0.0381463
LETM2	2387 chr8	38363203	38364683	0.0381518	chr8:038363	0.0381518
CREB3	2390 chr9	35722365	35727678	0.0381637	chr9:035722	0.0381637
GPR6	2394 chr6	110401589	110408667	0.0382105	chr6:110407	0.0382105
HS6ST2	2395 chrX	131916467	131924484	0.0382142	chrX:131921	0.0382142
AIRE	2398 chr21	44525221	44542220	0.038223	chr21:04452	0.038223
ENO2	2400 chr12	6893847	6903119	0.0382341	chr12:00689	0.0382341
DMWD	2403 chr19	50978126	50990735	0.0382384	chr19:05097	0.0382384

DNAJB9	2409	chr7	107997624	108002919	0.0382526	chr7:107997	0.0382526
DNMT3A	2411	chr2	25415742	25424139	0.0382706	chr2:025416	0.0382706
TRIM9	2416	chr14	50629101	50637974	0.0383039	chr14:05063	0.0383039
GYPC	2418	chr2	127126583	127132823	0.0383085	chr2:127132	0.0383085
IFT74	2426	chr9	26946425	26948903	0.0383803	chr9:026946	0.0383803
KIAA1914	2427	chr10	116151882	116160006	0.0383817	chr10:11615	0.0383817
PIK3R4	2429	chr3	131946060	131952948	0.0383882	chr3:131946	0.0383882
CRAT	2432	chr9	130907722	130912739	0.03841	chr9:130910	0.03841
TMEM16A	2433	chr11	69596843	69611660	0.0384122	chr11:06960	0.0384122
GPD1	2434	chr12	48780931	48791372	0.0384125	chr12:04878	0.0384125
HSD17B14	2436	chr19	54008214	54031646	0.0384316	chr19:05403	0.0384316
IRS4	2440	chrX	107863724	107871805	0.0384548	chrX:107863	0.0384548
USP2	2443	chr11	118737646	118758217	0.0384723	chr11:11875	0.0384723
PAQR3	2444	chr4	80077016	80084946	0.03848	chr4:080079	0.03848
C14orf172	2445	chr14	103065252	103067659	0.0384867	chr14:10306	0.0384867
ARV1	2449	chr1	229181427	229186323	0.0385081	chr1:229181	0.0385081
C6orf153	2451	chr6	43097008	43097807	0.0385149	chr6:043097	0.0385149
STMN3	2456	chr20	61753291	61755134	0.0385352	chr20:06175	0.0385352
SERPINB1	2461	chr6	2784731	2792497	0.0385653	chr6:002784	0.0385653
HEATR5B	2462	chr2	37159687	37164844	0.0385757	chr2:037164	0.0385757
SERF2	2463	chr15	41866805	41873988	0.0385942	chr15:04186	0.0385942
IL7	2464	chr8	79877758	79885841	0.0385952	chr8:079879	0.0385952
AP3D1	2468	chr19	2051461	2103088	0.0386437	chr19:00210	0.0386437
RARA	2471	chr17	35713551	35754671	0.0386512	chr17:03571	0.0386512
DNAJB8	2473	chr3	129663166	129674130	0.0386576	chr3:129663	0.0386576
SAR1B	2476	chr5	133994943	134000978	0.0386675	chr5:133996	0.0386675
AYTL2	2482	chr5	1574570	1581847	0.0387007	chr5:001574	0.0387007
GGN	2485	chr19	43567274	43570490	0.0387058	chr19:04356	0.0387058
CHX10	2491	chr14	73770626	73778193	0.0387153	chr14:07377	0.0387153
PRRG1	2498	chrX	37088828	37096063	0.0387466	chrX:037096	0.0387466
C19orf28	2500	chr19	3505935	3513483	0.0387582	chr19:00350	0.0387582
WNT16	2502	chr7	120749429	120759063	0.0387735	chr7:120759	0.0387735
AP2A1	2503	chr19	54962230	54963685	0.0387748	chr19:05496	0.0387748
LOC63928	2504	chr16	23670830	23676389	0.0387776	chr16:02367	0.0387776
POGK	2506	chr1	165071900	165077721	0.0387923	chr1:165076	0.0387923
LOC619208	2512	chr6	112515450	112518269	0.0388213	chr6:112515	0.0388213
ALPI	2514	chr2	233024633	233031342	0.0388249	chr2:233029	0.0388249
DCTN4	2519	chr5	150116354	150123708	0.0388431	chr5:150116	0.0388431
ARNT	2527	chr1	149048794	149121306	0.0388581	chr1:149115	0.0388581
TRRAP	2528	chr7	98314063	98316508	0.0388686	chr7:098314	0.0388686
STAC2	2531	chr17	34632896	34641007	0.0388877	chr17:03463	0.0388877
TNS3	2532	chr7	47415431	47551151	0.03889	chr7:047420	0.03889
CCBL1	2534	chr9	130635191	130684170	0.0389041	chr9:130684	0.0389041
DSP	2535	chr6	7481462	7531881	0.0389065	chr6:007481	0.0389065
FAM44A	2536	chr4	13235977	13243808	0.0389141	chr4:013235	0.0389141
TANK	2538	chr2	161696901	161745361	0.0389183	chr2:161725	0.0389183
FLJ38377	2542	chr2	131224178	131231886	0.0389304	chr2:131230	0.0389304
ADAMTS1	2546	chr21	27137151	27145011	0.0389561	chr21:02713	0.0389561
SERPINF1	2548	chr17	1607659	1614632	0.03897	chr17:00160	0.03897
MID1IP1	2550	chrX	38540245	38550517	0.0390031	chrX:038540	0.0390031
PTK2B	2551	chr8	27225013	27241380	0.0390099	chr8:027223	0.0390099
CACNA1A	2556	chr19	13475559	13483528	0.0390352	chr19:01347	0.0390352
PIP5K1C	2559	chr19	3648942	3656654	0.0390529	chr19:00364	0.0390529
TOPBP1	2565	chr3	134862227	134867647	0.039091	chr3:134863	0.039091
CTBP2	2566	chr10	126703791	126845069	0.0390969	chr10:12670	0.0390969
POLRMT	2567	chr19	583284	584355	0.0391006	chr19:00058	0.0391006
FSTL1	2572	chr3	121594993	121655657	0.0391231	chr3:121655	0.0391231
PSAT1	2580	chr9	80096428	80104166	0.0391456	chr9:080102	0.0391456

VEPH1	2582 chr3	158697671	158709545	0.0391556	chr3:158697671-158709545	0.0391556
TESC	2585 chr12	116019186	116027038	0.0391679	chr12:116019186-116027038	0.0391679
ZNF414	2591 chr19	8482579	8489848	0.0392108	chr19:008482579-8489848	0.0392108
C15orf23	2595 chr15	38459171	38464919	0.0392555	chr15:038459171-38464919	0.0392555
CCNB2	2597 chr15	57179572	57187215	0.0392754	chr15:057179572-57187215	0.0392754
SBNO2	2598 chr19	1122748	1130189	0.0392793	chr19:001122748-1130189	0.0392793
OSR1	2599 chr2	19419500	19427300	0.0392844	chr2:019419500-19427300	0.0392844
POLR3B	2602 chr12	105270274	105277196	0.0392949	chr12:105270274-105277196	0.0392949
KIAA1522	2605 chr1	32998351	33006265	0.0393351	chr1:032998351-33006265	0.0393351
VBP1	2607 chrX	154092231	154100178	0.0393453	chrX:154092231-154100178	0.0393453
KCND1	2610 chrX	48703572	48715080	0.0393854	chrX:048703572-48715080	0.0393854
LYPD3	2613 chr19	48659123	48666537	0.039387	chr19:048659123-48666537	0.039387
GTF2H4	2616 chr6	30982265	30989858	0.0393926	chr6:030982265-30989858	0.0393926
C20orf112	2618 chr20	30523882	30538118	0.0394114	chr20:030523882-30538118	0.0394114
HK2	2621 chr2	74907896	74917681	0.0394367	chr2:074907896-74917681	0.0394367
MANEA	2622 chr6	96126730	96134609	0.0394369	chr6:096126730-96134609	0.0394369
KIAA1539	2629 chr9	35094318	35111304	0.0395047	chr9:035094318-35111304	0.0395047
SASP	2634 chr2	70039594	70048394	0.039523	chr2:070039594-70048394	0.039523
GCN5L2	2635 chr17	37518634	37526620	0.0395231	chr17:037518634-37526620	0.0395231
PRKCA	2637 chr17	61723895	61731848	0.039537	chr17:061723895-61731848	0.039537
CCT5	2638 chr5	10303288	10308004	0.0395394	chr5:010303288-10308004	0.0395394
TRIM15	2639 chr6	30233971	30240300	0.0395429	chr6:030233971-30240300	0.0395429
TEF	2640 chr22	40102549	40110501	0.0395559	chr22:040102549-40110501	0.0395559
WDR19	2642 chr4	38856020	38862775	0.0395591	chr4:038856020-38862775	0.0395591
BMP2K	2649 chr4	79911083	79918939	0.0395861	chr4:079911083-79918939	0.0395861
CHRND	2655 chr2	233093725	233108437	0.039631	chr2:233093725-233108437	0.039631
ETV2	2657 chr19	40820560	40827626	0.0396388	chr19:040820560-40827626	0.0396388
WDR75	2661 chr2	190010047	190016635	0.0396523	chr2:190010047-190016635	0.0396523
FAM98A	2664 chr2	33675523	33683220	0.0396743	chr2:033675523-33683220	0.0396743
GPR88	2668 chr1	100772656	100779531	0.0396849	chr1:100772656-100779531	0.0396849
ADAM8	2670 chr10	134938157	134945720	0.0397021	chr10:134938157-134945720	0.0397021
LZTS2	2676 chr10	102744371	102755613	0.0397208	chr10:102744371-102755613	0.0397208
C2orf53	2682 chr2	27213461	27215751	0.0397522	chr2:027213461-27215751	0.0397522
ILK	2690 chr11	6581656	6588562	0.039776	chr11:006581656-6588562	0.039776
PLSCR1	2691 chr3	147743095	147750632	0.0397796	chr3:147743095-147750632	0.0397796
CDC25B	2696 chr20	3724542	3727865	0.0398205	chr20:003724542-3727865	0.0398205
TTC35	2701 chr8	109519751	109527071	0.0398318	chr8:109519751-109527071	0.0398318
LOC284361	2702 chr19	55665249	55671805	0.0398322	chr19:055665249-55671805	0.0398322
USP47	2704 chr11	11817534	11822400	0.0398337	chr11:011817534-11822400	0.0398337
CCDC33	2713 chr15	72392499	72400425	0.0398769	chr15:072392499-72400425	0.0398769
AIFM3	2716 chr22	19644558	19665662	0.0398937	chr22:019644558-19665662	0.0398937
TRADD	2722 chr16	65745841	65751304	0.0399406	chr16:065745841-65751304	0.0399406
GLMN	2726 chr1	92533124	92537090	0.0399465	chr1:092533124-92537090	0.0399465
BTBD8	2727 chr1	92314892	92320989	0.0399516	chr1:092314892-92320989	0.0399516
MAGED1	2728 chrX	51649631	51656558	0.0399575	chrX:051649631-51656558	0.0399575
CSTF2	2733 chrX	99957438	99964582	0.0399761	chrX:099957438-99964582	0.0399761
AMBP	2737 chr9	115878804	115886048	0.0399907	chr9:115878804-115886048	0.0399907
MN1	2739 chr22	26524061	26532878	0.0399984	chr22:026524061-26532878	0.0399984
PROP1	2749 chr5	177353113	177358300	0.040058	chr5:177353113-177358300	0.040058
TEAD2	2751 chr19	54554387	54557524	0.0400703	chr19:054554387-54557524	0.0400703
KCNQ1DN	2753 chr11	2842471	2850059	0.0400704	chr11:002842471-2850059	0.0400704
SUMO3	2755 chr21	45049976	45065451	0.0400771	chr21:045049976-45065451	0.0400771
PAPSS1	2759 chr4	108858400	108862174	0.0401114	chr4:108858400-108862174	0.0401114
RAB9B	2761 chrX	102964938	102976764	0.0401169	chrX:102964938-102976764	0.0401169
KL	2763 chr13	32485468	32491048	0.0401191	chr13:032485468-32491048	0.0401191
EFCBP1	2766 chr8	91868268	91875806	0.0401252	chr8:091868268-91875806	0.0401252
HSPB9	2773 chr17	37528376	37528916	0.040157	chr17:037528376-37528916	0.040157
HRAS	2779 chr11	521990	525198	0.0401865	chr11:000521990-525198	0.0401865

PRLHR	2784 chr10	120342455	120350300	0.0402083	chr10:12034	0.0402083
DDHD1	2785 chr14	52687275	52694728	0.0402085	chr14:05268	0.0402085
SLC25A25	2787 chr9	129870296	129903181	0.0402127	chr9:12990	0.0402127
PLXNA1	2788 chr3	128185229	128192601	0.0402148	chr3:12819	0.0402148
GTPBP4	2789 chr10	1018882	1054034	0.0402169	chr10:0010	0.0402169
TOM1	2790 chr22	34021985	34028143	0.0402257	chr22:0340	0.0402257
LATS2	2793 chr13	20531386	20538674	0.0402519	chr13:0205	0.0402519
CNN1	2797 chr19	11510636	11513014	0.040278	chr19:0115	0.040278
ACVR2B	2798 chr3	38466484	38509650	0.0402794	chr3:03847	0.0402794
SNX2	2800 chr5	122133247	122140694	0.0402896	chr5:12213	0.0402896
RAB11FIP3	2801 chr16	410855	512410	0.0402912	chr16:0004	0.0402912
APLN	2802 chrX	128614085	128622096	0.0402943	chrX:12861	0.0402943
SRCRB4D	2806 chr7	75864840	75881887	0.0403093	chr7:07587	0.0403093
HDGF	2811 chr1	154979484	154993569	0.040338	chr1:15497	0.040338
ST6GALNA	2814 chr1	77100767	77108182	0.0403562	chr1:07710	0.0403562
PSORS1C1	2815 chr6	31190615	31216756	0.0403581	chr6:03119	0.0403581
PARP3	2818 chr3	51951582	51956407	0.0403833	chr3:05195	0.0403833
DEPDC2	2820 chr8	69021590	69029627	0.0404005	chr8:06902	0.0404005
CLSTN2	2823 chr3	141132023	141138920	0.0404154	chr3:14113	0.0404154
FLJ22167	2829 chr16	74129982	74147722	0.0404342	chr16:0741	0.0404342
TLX1	2830 chr10	102875963	102883770	0.0404381	chr10:1028	0.0404381
MLLT11	2838 chr1	149298780	149307584	0.0404718	chr1:14929	0.0404718
PTPN6	2840 chr12	6925449	6940744	0.040474	chr12:0069	0.040474
C6orf64	2843 chr6	39188330	39195989	0.0405068	chr6:03919	0.0405068
RP1L1	2845 chr8	10547553	10555231	0.0405144	chr8:01054	0.0405144
C20orf58	2847 chr20	61353966	61361715	0.040525	chr20:0613	0.040525
SIVA1	2852 chr14	104285418	104293016	0.0405672	chr14:1042	0.0405672
GRIPAP1	2853 chrX	48715256	48744255	0.0405692	chrX:04874	0.0405692
SEC24C	2855 chr10	75170424	75201928	0.0405787	chr10:0751	0.0405787
ELOF1	2856 chr19	11523704	11531304	0.0405792	chr19:0115	0.0405792
GRM7	2869 chr3	6872719	6880482	0.0406394	chr3:00687	0.0406394
MGC33407	2870 chr19	8667547	8674909	0.0406409	chr19:0086	0.0406409
IRAK1	2874 chrX	152935936	152940363	0.0406799	chrX:15293	0.0406799
MGC10433	2875 chr19	40806751	40820442	0.0406845	chr19:0408	0.0406845
LOC153364	2881 chr5	89803442	89806272	0.0407208	chr5:08980	0.0407208
GPR50	2882 chrX	150090266	150098178	0.0407218	chrX:15009	0.0407218
USH1C	2888 chr11	17520483	17528033	0.0407667	chr11:0175	0.0407667
ZNF342	2889 chr19	50269569	50271410	0.0407678	chr19:0502	0.0407678
LOXL2	2890 chr8	23315139	23321490	0.0407685	chr8:02331	0.0407685
YRDC	2893 chr1	38041395	38046418	0.0407815	chr1:03804	0.0407815
CFTR	2894 chr7	116901724	116909825	0.0407919	chr7:11690	0.0407919
TMEM79	2898 chr1	154519390	154522968	0.0408067	chr1:15452	0.0408067
APBB3	2899 chr5	139918044	139924365	0.0408099	chr5:13992	0.0408099
KLF2	2901 chr19	16291279	16299176	0.040821	chr19:0162	0.040821
FRAS1	2902 chr4	79193519	79200653	0.0408398	chr4:07919	0.0408398
SPHK2	2903 chr19	53814478	53819755	0.0408474	chr19:0538	0.0408474
SSR4	2904 chrX	152713287	152718325	0.0408545	chrX:15271	0.0408545
GPR173	2906 chrX	53089781	53123892	0.0408558	chrX:05312	0.0408558
RIF1	2908 chr2	151969931	151977017	0.0408759	chr2:15197	0.0408759
NKPD1	2909 chr19	50346403	50354308	0.040876	chr19:0503	0.040876
TETRA	2910 chr4	2903164	2909393	0.0408799	chr4:00290	0.0408799
DNASE1L2	2913 chr16	2225899	2228908	0.0409024	chr16:0022	0.0409024
ZNF653	2920 chr19	11455246	11477817	0.0409402	chr19:0114	0.0409402
SCD5	2926 chr4	83936609	83941782	0.0409593	chr4:08393	0.0409593
NR0B1	2927 chrX	30235048	30242485	0.0409629	chrX:03023	0.0409629
FAM108A1	2928 chr19	1831252	1839480	0.0409731	chr19:0018	0.0409731
CD81	2934 chr11	2352266	2375203	0.0410085	chr11:0023	0.0410085
RASL10B	2935 chr17	31077518	31084898	0.0410147	chr17:0310	0.0410147

C8orf13	2938 chr8	11359186	11366364	0.041023	chr8:011359	0.041023
TRAF2	2948 chr9	138895927	138915466	0.0410618	chr9:138915	0.0410618
ZNF184	2951 chr6	27545802	27554366	0.0410673	chr6:027545	0.0410673
IFIH1	2957 chr2	162880579	162886911	0.0410868	chr2:162880	0.0410868
PSD2	2962 chr5	139151953	139158092	0.0410978	chr5:139151	0.0410978
TNFAIP2	2963 chr14	102657331	102665000	0.0410984	chr14:10265	0.0410984
MFHAS1	2964 chr8	8785697	8793312	0.041111	chr8:008785	0.041111
PHLDA3	2967 chr1	199702145	199708998	0.0411178	chr1:199702	0.0411178
MAGEA5	2971 chrX	151034811	151041923	0.0411349	chrX:151034	0.0411349
USP20	2977 chr9	131637613	131642561	0.0411781	chr9:131637	0.0411781
TMED9	2978 chr5	176947336	176955710	0.0411791	chr5:176947	0.0411791
PARD3B	2980 chr2	205113434	205121302	0.0411841	chr2:205113	0.0411841
CCDC96	2982 chr4	7093740	7101016	0.0411849	chr4:007093	0.0411849
CAT	2983 chr11	34411883	34419263	0.0412016	chr11:03441	0.0412016
PAQR7	2989 chr1	26060545	26075485	0.041233	chr1:026060	0.041233
HS3ST3B1	2995 chr17	14140099	14147999	0.0412538	chr17:01414	0.0412538
KPNB1	2996 chr17	43077010	43085044	0.0412636	chr17:04307	0.0412636
PSMB4	2997 chr1	149635231	149641094	0.0412711	chr1:149635	0.0412711
SEZ6L	3001 chr22	24890090	24898070	0.0412911	chr22:02489	0.0412911
FADS6	3002 chr17	70385419	70406277	0.0412969	chr17:07040	0.0412969
B3GALT4	3003 chr6	33352245	33354709	0.0413003	chr6:033352	0.0413003
INSIG2	3004 chr2	118557041	118564766	0.0413005	chr2:118557	0.0413005
PPWD1	3007 chr5	64894955	64899602	0.0413121	chr5:064894	0.0413121
EPHA5	3008 chr4	66215657	66223488	0.0413174	chr4:066215	0.0413174
SCARA5	3012 chr8	27899309	27911619	0.0413612	chr8:027900	0.0413612
ARSK	3015 chr5	94916612	94919208	0.0413699	chr5:094916	0.0413699
BAX	3018 chr19	54146275	54156888	0.0413763	chr19:05414	0.0413763
SOX13	3021 chr1	202303388	202311220	0.041382	chr1:202310	0.041382
ZMYND10	3031 chr3	50353536	50358464	0.0414419	chr3:050353	0.0414419
TTC29	3032 chr4	148084039	148091241	0.041445	chr4:148084	0.041445
ARHGAP30	3035 chr1	159283451	159308115	0.0414634	chr1:159308	0.0414634
CCNC	3049 chr6	100120798	100128442	0.0415199	chr6:100120	0.0415199
EGR2	3050 chr10	64243403	64251556	0.0415212	chr10:06424	0.0415212
P2RX3	3055 chr11	56862673	56865375	0.0415461	chr11:05686	0.0415461
CD248	3059 chr11	65838772	65842778	0.0415906	chr11:06583	0.0415906
LTB4R2	3061 chr14	23844228	23850320	0.0415947	chr14:02384	0.0415947
FBXO4	3067 chr5	41957527	41963560	0.0416116	chr5:04196	0.0416116
SP4	3070 chr7	21428732	21436916	0.0416222	chr7:02143	0.0416222
HCRTR1	3071 chr1	31851803	31859890	0.0416305	chr1:03185	0.0416305
FUBP1	3072 chr1	78215066	78222811	0.0416476	chr1:07821	0.0416476
NDUFV1	3073 chr11	67130990	67136191	0.041656	chr11:06713	0.041656
CHST13	3084 chr3	127725999	127728285	0.041698	chr3:127727	0.041698
COX7A1	3087 chr19	41333401	41337211	0.0417127	chr19:04133	0.0417127
DVL3	3088 chr3	185350954	185372927	0.0417152	chr3:185350	0.0417152
APLP1	3089 chr19	41049866	41053784	0.041718	chr19:0410	0.041718
SH3GLB2	3090 chr9	130827787	130830217	0.0417258	chr9:13082	0.0417258
PRDX1	3091 chr1	45757755	45764901	0.041736	chr1:04575	0.041736
LPPR2	3093 chr19	11327141	11329412	0.0417379	chr19:01132	0.0417379
IRX3	3099 chr16	52875157	52883323	0.0417562	chr16:05287	0.0417562
HS6ST3	3101 chr13	95536028	95543612	0.0417661	chr13:0955	0.0417661
GIT1	3103 chr17	24938054	24940523	0.041773	chr17:0249	0.041773
ARMCX3	3107 chrX	100764793	100767402	0.0418059	chrX:10076	0.0418059
UNG	3114 chr12	108019856	108022943	0.0418606	chr12:1080	0.0418606
LTC4S	3117 chr5	179148080	179155941	0.0418665	chr5:17915	0.0418665
CXorf34	3119 chrX	100191459	100199165	0.0418919	chrX:10019	0.0418919
NDUFC2	3135 chr11	77466680	77469145	0.0419796	chr11:0774	0.0419796
SYN1	3136 chrX	47361561	47368576	0.0419811	chrX:04736	0.0419811
OTUB2	3141 chr14	93557991	93564686	0.0419954	chr14:0935	0.0419954

CD164L2	3152 chr1	27578354	27582293	0.0420647	chr1:027579	0.0420647
ZNF35	3153 chr3	44664952	44667426	0.0420683	chr3:044666	0.0420683
FLJ16008	3158 chr2	127677616	127680822	0.0420988	chr2:127679	0.0420988
OMA1	3161 chr1	58774916	58790383	0.0421053	chr1:058784	0.0421053
G6PC3	3162 chr17	39503768	39506343	0.0421163	chr17:03950	0.0421163
PPP1R12C	3164 chr19	60318050	60324243	0.0421268	chr19:06030	0.0421268
TAP1	3167 chr6	32921030	32929657	0.0421375	chr6:032929	0.0421375
PVRIG	3171 chr7	99650816	99657036	0.0421504	chr7:099656	0.0421504
PHF21B	3174 chr22	43781811	43789622	0.0421704	chr22:04378	0.0421704
ZCCHC3	3180 chr20	226185	228670	0.0421909	chr20:00022	0.0421909
URP2	3182 chr11	63728809	63747812	0.0421932	chr11:06373	0.0421932
GRRP1	3184 chr1	26353131	26360544	0.0422127	chr1:026360	0.0422127
GSG2	3185 chr17	3568458	3576414	0.0422199	chr17:00357	0.0422199
CEECAM1	3186 chr9	130221213	130225423	0.0422232	chr9:130222	0.0422232
ZNF276	3189 chr16	88315017	88318697	0.0422395	chr16:08830	0.0422395
C10orf137	3196 chr10	127392756	127400524	0.0423054	chr10:12739	0.0423054
RRAS	3201 chr19	54831763	54835004	0.0423289	chr19:05483	0.0423289
DUSP9	3203 chrX	152555695	152568963	0.0423423	chrX:152566	0.0423423
REST	3205 chr4	57463475	57471232	0.042355	chr4:057470	0.042355
LOC387856	3207 chr12	46858167	46866154	0.0423593	chr12:04686	0.0423593
HCN3	3209 chr1	153514143	153516316	0.0423622	chr1:153514	0.0423622
FHOD1	3213 chr16	65821001	65838901	0.0423724	chr16:06582	0.0423724
LOC284296	3216 chr19	60633565	60641573	0.0423837	chr19:06063	0.0423837
FERD3L	3220 chr7	19149344	19155791	0.0424064	chr7:019150	0.0424064
HEL308	3221 chr4	84590783	84595932	0.0424136	chr4:084599	0.0424136
MDH1B	3222 chr2	207334107	207338254	0.0424195	chr2:207333	0.0424195
LRRC8A	3226 chr9	130684369	130720081	0.0424528	chr9:130718	0.0424528
FLOT1	3228 chr6	30815927	30818841	0.042465	chr6:030817	0.042465
SCMH1	3229 chr1	41265692	41399749	0.0424671	chr1:041266	0.0424671
C9orf79	3230 chr9	89682170	89689957	0.0424709	chr9:089689	0.0424709
FAM65A	3233 chr16	66114978	66122607	0.0424821	chr16:06611	0.0424821
SRD5A2	3235 chr2	31657148	31661640	0.0424835	chr2:031659	0.0424835
WDFY2	3240 chr13	51053213	51059345	0.042515	chr13:05105	0.042515
PLEKHG6	3241 chr12	6284705	6292321	0.0425212	chr12:00629	0.0425212
CUL7	3242 chr6	43127185	43129696	0.0425217	chr6:043128	0.0425217
MAPK3	3243 chr16	30032905	30047092	0.042531	chr16:03003	0.042531
AARSD1	3244 chr17	38382449	38385554	0.0425359	chr17:03838	0.0425359
ATP2B4	3247 chr1	201857011	201921366	0.0425389	chr1:201862	0.0425389
SMTN	3250 chr22	29805170	29815053	0.042543	chr22:02980	0.042543
SMOX	3253 chr20	4075554	4102824	0.0425625	chr20:00410	0.0425625
C9orf142	3257 chr9	139001532	139008383	0.0425755	chr9:139007	0.0425755
MUS81	3258 chr11	65384557	65387844	0.0425907	chr11:06538	0.0425907
TBX21	3264 chr17	43160178	43168235	0.0426197	chr17:04316	0.0426197
PHLDB3	3273 chr19	48697595	48701294	0.0426547	chr19:04870	0.0426547
PTP4A1	3274 chr6	64336681	64342880	0.0426554	chr6:064340	0.0426554
TSTA3	3277 chr8	144765937	144771639	0.0426578	chr8:144767	0.0426578
NDUFB11	3282 chrX	46884164	46889401	0.042712	chrX:046889	0.042712
CYP20A1	3284 chr2	203806228	203813307	0.0427212	chr2:203811	0.0427212
MGC2752	3285 chr19	63778822	63781983	0.0427258	chr19:06377	0.0427258
KCNA1	3290 chr12	4886076	4893192	0.0427666	chr12:00488	0.0427666
TCEA3	3293 chr1	23621482	23629328	0.0427823	chr1:023622	0.0427823
PROCA1	3294 chr17	24061186	24065416	0.0427867	chr17:02406	0.0427867
ADM	3295 chr11	10282307	10286169	0.0427953	chr11:01028	0.0427953
SURF5	3303 chr9	135197580	135204485	0.0428362	chr9:135197	0.0428362
RIBC2	3305 chr22	44188229	44193216	0.0428365	chr22:04418	0.0428365
ZIC3	3308 chrX	136470489	136479034	0.042841	chrX:136470	0.042841
KREMEN2	3326 chr16	2949358	2958383	0.0429283	chr16:00294	0.0429283
ACN9	3328 chr7	96580072	96586631	0.0429367	chr7:096584	0.0429367

DLX2	3329 chr2	172673176	172681169	0.0429374	chr2:172673176-172681169	0.0429374
CARD10	3330 chr22	36216341	36250515	0.0429433	chr22:36216341-36250515	0.0429433
SPON1	3334 chr11	13935342	13942972	0.0429549	chr11:13935342-13942972	0.0429549
PTPRB	3336 chr12	69287418	69295342	0.0429612	chr12:69287418-69295342	0.0429612
UPK1B	3338 chr3	120372211	120390711	0.0429755	chr3:120372211-120390711	0.0429755
ACTN3	3341 chr11	66070955	66075639	0.0429889	chr11:66070955-66075639	0.0429889
GNL3L	3352 chrX	54570373	54575761	0.0430718	chrX:54570373-54575761	0.0430718
PPP1R1B	3358 chr17	35031316	35046184	0.0431065	chr17:35031316-35046184	0.0431065
C2	3359 chr6	31998012	32021428	0.0431068	chr6:31998012-32021428	0.0431068
FCMD	3361 chr9	107354931	107362211	0.0431191	chr9:107354931-107362211	0.0431191
CD300C	3363 chr17	70051108	70059308	0.0431355	chr17:70051108-70059308	0.0431355
GSC	3367 chr14	94303729	94311646	0.0431552	chr14:94303729-94311646	0.0431552
GGCX	3369 chr2	85639687	85643381	0.0431567	chr2:85639687-85643381	0.0431567
SLC25A11	3370 chr17	4780220	4784050	0.0431572	chr17:4780220-4784050	0.0431572
FES	3371 chr15	89227772	89231729	0.0431597	chr15:89227772-89231729	0.0431597
ACTL7B	3376 chr9	110656297	110657914	0.0431863	chr9:110656297-110657914	0.0431863
FZD1	3379 chr7	90726192	90734634	0.0432015	chr7:90726192-90734634	0.0432015
LY6E	3381 chr8	144166141	144173816	0.0432225	chr8:144166141-144173816	0.0432225
LOC338328	3383 chr8	144361008	144368897	0.0432349	chr8:144361008-144368897	0.0432349
SOX3	3388 chrX	139412492	139420461	0.0432597	chrX:139412492-139420461	0.0432597
PACSN3	3390 chr11	47155730	47167463	0.0432652	chr11:47155730-47167463	0.0432652
PJA2	3395 chr5	108771288	108774994	0.0433077	chr5:108771288-108774994	0.0433077
PNPLA2	3397 chr11	803447	814926	0.0433167	chr11:803447-814926	0.0433167
NKX2-2	3400 chr20	21439947	21448143	0.0433368	chr20:21439947-21448143	0.0433368
EPS8L1	3403 chr19	60275210	60286135	0.0433453	chr19:60275210-60286135	0.0433453
ATAD2	3404 chr8	124476273	124483228	0.0433479	chr8:124476273-124483228	0.0433479
C12orf34	3411 chr12	108651602	108666963	0.0433732	chr12:108651602-108666963	0.0433732
FGF18	3416 chr5	170775024	170782303	0.0433817	chr5:170775024-170782303	0.0433817
SLC4A2	3417 chr7	150388026	150392892	0.0433851	chr7:150388026-150392892	0.0433851
INPP5D	3426 chr2	233627895	233736812	0.0434264	chr2:233627895-233736812	0.0434264
EFCAB4A	3428 chr11	815227	821973	0.0434318	chr11:815227-821973	0.0434318
DLX1	3446 chr2	172653920	172661227	0.0435058	chr2:172653920-172661227	0.0435058
ZFYVE26	3451 chr14	67349984	67353063	0.0435305	chr14:67349984-67353063	0.0435305
RPUSD1	3452 chr16	775023	778378	0.0435313	chr16:775023-778378	0.0435313
GPR101	3455 chrX	135938997	135947021	0.0435696	chrX:135938997-135947021	0.0435696
APPBP2	3457 chr17	55956223	55960924	0.0435834	chr17:55956223-55960924	0.0435834
TSPAN7	3458 chrX	38300535	38307978	0.0435872	chrX:38300535-38307978	0.0435872
CABLES2	3460 chr20	60397052	60418565	0.0435954	chr20:60397052-60418565	0.0435954
SEPT3	3468 chr22	40697485	40724167	0.0436612	chr22:40697485-40724167	0.0436612
PCDH17	3473 chr13	57098780	57107111	0.043671	chr13:57098780-57107111	0.043671
USP46	3476 chr4	53218209	53222549	0.0436937	chr4:53218209-53222549	0.0436937
ALDOA	3477 chr16	29968219	29986571	0.0436959	chr16:29968219-29986571	0.0436959
LRR1Q2	3480 chr3	102921858	102928508	0.0437004	chr3:102921858-102928508	0.0437004
PMPCA	3481 chr9	138425057	138429885	0.0437009	chr9:138425057-138429885	0.0437009
UPF1	3482 chr19	18799619	18806398	0.0437151	chr19:18799619-18806398	0.0437151
RIN1	3483 chr11	65858046	65861291	0.0437156	chr11:65858046-65861291	0.0437156
THAP11	3487 chr16	66433992	66435553	0.0437294	chr16:66433992-66435553	0.0437294
GPI	3489 chr19	39542280	39583015	0.0437335	chr19:39542280-39583015	0.0437335
SYMPK	3514 chr19	51010517	51058211	0.0438624	chr19:51010517-51058211	0.0438624
PRPF38B	3517 chr1	109030962	109039191	0.043868	chr1:109030962-109039191	0.043868
LRRC45	3520 chr17	77574556	77582263	0.0438808	chr17:77574556-77582263	0.0438808
MGC33302	3525 chr4	129105909	129111971	0.0439239	chr4:129105909-129111971	0.0439239
PIK3R2	3530 chr19	18119524	18141600	0.043964	chr19:18119524-18141600	0.043964
ACTC1	3531 chr15	32872072	32880487	0.0439671	chr15:32872072-32880487	0.0439671
C20orf117	3533 chr20	34854482	34927899	0.0439759	chr20:34854482-34927899	0.0439759
FAM122A	3536 chr9	70580855	70587325	0.0439873	chr9:70580855-70587325	0.0439873
ARL9	3542 chr4	57064774	57068095	0.0440093	chr4:57064774-57068095	0.0440093
WDR44	3544 chrX	117358587	117367001	0.0440223	chrX:117358587-117367001	0.0440223

AANAT	3546 chr17	71970905	71977775	0.0440338	chr17:07197	0.0440338
CD164	3554 chr6	109807871	109815857	0.0440848	chr6:109810	0.0440848
OSBP2	3556 chr22	29417488	29423181	0.0441037	chr22:02942	0.0441037
SCN4A	3560 chr17	59402130	59406297	0.0441243	chr17:05940	0.0441243
C5orf33	3561 chr5	36275222	36283408	0.0441263	chr5:036275	0.0441263
STK10	3566 chr5	171545383	171549272	0.0441379	chr5:171545	0.0441379
PBX2	3570 chr6	32261265	32266350	0.0441479	chr6:032264	0.0441479
EDG5	3577 chr19	10194107	10208306	0.0441819	chr19:01019	0.0441819
HAS3	3578 chr16	67692297	67701284	0.0441979	chr16:06769	0.0441979
NCOA5	3590 chr20	44149901	44156156	0.0442977	chr20:04414	0.0442977
STS-1	3600 chr11	122027638	122033819	0.0443358	chr11:12202	0.0443358
CCDC131	3601 chr12	70338753	70343888	0.0443477	chr12:07034	0.0443477
PDZD4	3602 chrX	152746540	152754349	0.0443503	chrX:15274	0.0443503
IL20	3604 chr1	205100038	205107757	0.0443619	chr1:205100	0.0443619
PRMT1	3608 chr19	54869138	54883507	0.0443811	chr19:05487	0.0443811
NPLOC4	3615 chr17	77212816	77214251	0.0444041	chr17:07721	0.0444041
PALM	3616 chr19	658897	699273	0.0444052	chr19:00069	0.0444052
MTF1	3624 chr1	38047831	38103067	0.04443	chr1:038097	0.04443
FAM78B	3627 chr1	164399719	164408034	0.0444469	chr1:16440	0.0444469
ELF4	3636 chrX	129040770	129077714	0.04449	chrX:12907	0.04449
WNT9B	3641 chr17	42278484	42286526	0.0444984	chr17:04228	0.0444984
TMEM30B	3644 chr14	60815349	60822819	0.0445111	chr14:0608	0.0445111
DOK4	3659 chr16	56068463	56079291	0.0445865	chr16:05606	0.0445865
PTPLAD1	3661 chr15	63607919	63612343	0.0446062	chr15:06360	0.0446062
ADCK5	3663 chr8	145566526	145571000	0.0446187	chr8:145566	0.0446187
PAFAH1B2	3667 chr11	116514762	116530294	0.044653	chr11:11652	0.044653
EGR4	3670 chr2	73371450	73379052	0.0446562	chr2:07337	0.0446562
OGFOD2	3672 chr12	122025282	122025535	0.0446657	chr12:12202	0.0446657
DMPK	3675 chr19	50964878	50978054	0.0446756	chr19:05097	0.0446756
SLC25A4	3676 chr4	186295964	186303878	0.0446902	chr4:186303	0.0446902
TAL1	3681 chr1	47465527	47473471	0.0447088	chr1:04746	0.0447088
TMEM123	3684 chr11	101826452	101834283	0.0447314	chr11:10182	0.0447314
PAFAH2	3704 chr1	26194652	26201806	0.0448114	chr1:02619	0.0448114
EGFL7	3708 chr9	138671712	138687187	0.044826	chr9:13868	0.044826
ARHGEF17	3713 chr11	72691799	72699744	0.0448454	chr11:07269	0.0448454
PDCL	3722 chr9	124628529	124636136	0.0448845	chr9:12463	0.0448845
SRPRB	3724 chr3	135001887	135009608	0.0449065	chr3:13500	0.0449065
NR4A1	3730 chr12	50719389	50733857	0.0449579	chr12:05071	0.0449579
FLJ40172	3732 chr2	47233504	47240742	0.0449664	chr2:04723	0.0449664
C19orf36	3734 chr19	2048014	2051309	0.0449732	chr19:00204	0.0449732
CBFA2T3	3755 chr16	87532609	87576499	0.0450973	chr16:08755	0.0450973
NT5C	3756 chr17	70638035	70643273	0.0451319	chr17:07063	0.0451319
OSBPL8	3758 chr12	75270110	75481730	0.0451482	chr12:07547	0.0451482
C5AR1	3762 chr19	52500333	52507095	0.04516	chr19:05250	0.04516
IKBKAP	3768 chr9	110730856	110736226	0.045199	chr9:11073	0.045199
LRRC62	3771 chr22	36099070	36106869	0.0452043	chr22:03609	0.0452043
MAPK8IP2	3774 chr22	49382084	49390817	0.0452092	chr22:04938	0.0452092
PKIB	3775 chr6	122834810	123083002	0.0452123	chr6:12297	0.0452123
BOP1	3780 chr8	145480789	145485931	0.0452393	chr8:14548	0.0452393
SLC4A3	3781 chr2	220195054	220203335	0.0452433	chr2:22020	0.0452433
SLC35F3	3784 chr1	232106428	232419042	0.0452536	chr1:23241	0.0452536
ZNF396	3797 chr18	31205876	31216720	0.045328	chr18:0312	0.045328
RASSF1	3802 chr3	50342198	50353404	0.045347	chr3:05034	0.045347
COX5A	3805 chr15	73016345	73022669	0.0453628	chr15:0730	0.0453628
RASD1	3808 chr17	17337933	17345592	0.0453768	chr17:01733	0.0453768
ITM2A	3811 chrX	78506848	78514925	0.0453929	chrX:07850	0.0453929
SMARCA2	3816 chr9	2001109	2007822	0.0454196	chr9:00200	0.0454196
ZNF800	3825 chr7	126817524	126823397	0.0454845	chr7:12681	0.0454845

NCAPG	3826 chr4	17421660	17426660	0.0454847	chr4:01742	0.0454847
HTF9C	3836 chr22	18479650	18484658	0.0455251	chr22:01848	0.0455251
SDC4	3839 chr20	43408044	43412063	0.0455613	chr20:04340	0.0455613
COL20A1	3841 chr20	61391741	61397505	0.0455731	chr20:06139	0.0455731
MAPBPIP	3847 chr1	154291265	154294830	0.0456088	chr1:15429	0.0456088
GBGT1	3857 chr9	135026759	135033505	0.0456569	chr9:13502	0.0456569
C15orf39	3859 chr15	73276730	73290520	0.0456711	chr15:07328	0.0456711
ERCC2	3863 chr19	50563705	50565940	0.0456822	chr19:05056	0.0456822
LAMA4	3865 chr6	112679622	112687624	0.0456878	chr6:11268	0.0456878
KCNE1L	3872 chrX	108752457	108760415	0.045717	chrX:10875	0.045717
C20orf100	3873 chr20	41973141	42037400	0.0457298	chr20:04203	0.0457298
SEMA3G	3874 chr3	52451603	52459936	0.0457422	chr3:05245	0.0457422
CXorf40A	3877 chrX	148428970	148431630	0.045756	chrX:14843	0.045756
METT11D1	3882 chr14	20522447	20534923	0.0457688	chr14:02052	0.0457688
IPO4	3886 chr14	23725643	23728166	0.045784	chr14:02372	0.045784
TM2D2	3887 chr8	38969251	38973119	0.0457915	chr8:03897	0.0457915
FLJ21687	3889 chrX	48903558	48911060	0.0458001	chrX:04891	0.0458001
LDOC1L	3890 chr22	43270363	43277527	0.0458237	chr22:04327	0.0458237
ZBED5	3891 chr11	10833809	10841293	0.0458238	chr11:01083	0.0458238
JRK	3893 chr8	143742636	143748838	0.0458416	chr8:14374	0.0458416
SORT1	3894 chr1	109653762	109746021	0.0458424	chr1:10974	0.0458424
APOE	3897 chr19	50098800	50104502	0.0458555	chr19:05010	0.0458555
TIMP2	3901 chr17	74430803	74438320	0.0458778	chr17:07443	0.0458778
AIM1	3913 chr6	107061575	107069436	0.0459398	chr6:10706	0.0459398
FGD1	3914 chrX	54536071	54543320	0.0459421	chrX:05453	0.0459421
CENTB1	3915 chr17	7180576	7195539	0.045944	chr17:00719	0.045944
SYP	3922 chrX	48931344	48948485	0.046016	chrX:04893	0.046016
PRAME	3924 chr22	21229221	21237247	0.0460204	chr22:02122	0.0460204
WDR13	3925 chrX	48335734	48343850	0.0460232	chrX:04834	0.0460232
PRKCG	3934 chr19	59072276	59102525	0.0460442	chr19:05907	0.0460442
SEC14L3	3935 chr22	29195482	29203480	0.0460466	chr22:02919	0.0460466
BCL6B	3937 chr17	6867076	6869593	0.0460523	chr17:00686	0.0460523
SLC7A4	3941 chr22	19713809	19718296	0.0460742	chr22:01971	0.0460742
NXPH1	3944 chr7	8434812	8443195	0.0460839	chr7:00844	0.0460839
FLJ10241	3945 chr19	46629585	46642219	0.0460932	chr19:04663	0.0460932
DNASE2	3949 chr19	12851323	12856181	0.0461073	chr19:01285	0.0461073
FLAD1	3958 chr1	153218455	153232121	0.0461578	chr1:15322	0.0461578
PLA2G6	3960 chr22	36837438	36911782	0.0461807	chr22:03683	0.0461807
MPV17	3961 chr2	27385967	27402175	0.0461869	chr2:02738	0.0461869
AIP	3962 chr11	67006608	67008226	0.0462006	chr11:06700	0.0462006
NR2E3	3968 chr15	69884479	69892400	0.0462325	chr15:06988	0.0462325
NPEPL1	3969 chr20	56697279	56703297	0.0462375	chr20:05670	0.0462375
CD7	3970 chr17	77866184	77872130	0.0462568	chr17:07786	0.0462568
TDP1	3980 chr14	89492034	89496221	0.0463211	chr14:08949	0.0463211
C8orf47	3983 chr8	99141964	99148277	0.0463371	chr8:09914	0.0463371
POU3F1	3998 chr1	38282500	38290467	0.046441	chr1:03828	0.046441
C19orf42	3999 chr19	16623390	16631927	0.0464432	chr19:01662	0.0464432
HDAC3	4004 chr5	140980623	140996500	0.0464758	chr5:14099	0.0464758
SAFB2	4011 chr19	5568803	5573819	0.0465	chr19:00557	0.0465
EPHA8	4015 chr1	22758170	22765175	0.046527	chr1:02276	0.046527
GRM2	4017 chr3	51713356	51720481	0.0465318	chr3:05172	0.0465318
WEE1	4022 chr11	9545533	9554304	0.046545	chr11:00955	0.046545
SLC6A19	4026 chr5	1249407	1275023	0.0465623	chr5:00125	0.0465623
DKFZp434E	4027 chr1	199443135	199451617	0.0465625	chr1:19944	0.0465625
ANKFY1	4030 chr17	4111657	4119439	0.046568	chr17:00411	0.046568
CD3EAP	4031 chr19	50601357	50604776	0.0465925	chr19:05060	0.0465925
PRM3	4040 chr16	11274811	11276987	0.0466367	chr16:01127	0.0466367
APRT	4041 chr16	87403384	87407458	0.0466412	chr16:08740	0.0466412

IGSF8	4042 chr1	158327506	158340474	0.0466417	chr1:158334	0.0466417
PLA2G4B	4044 chr15	39907618	39909148	0.0466501	chr15:03990	0.0466501
BTG2	4050 chr1	201535975	201543812	0.0466742	chr1:201542	0.0466742
SNX22	4051 chr15	62225491	62233492	0.0466753	chr15:06222	0.0466753
STK16	4054 chr2	219818432	219822470	0.0467098	chr2:219818	0.0467098
NAGS	4059 chr17	39437737	39442697	0.0467394	chr17:03943	0.0467394
TSGA10IP	4061 chr11	65467277	65484032	0.0467552	chr11:06546	0.0467552
FOXN2	4064 chr2	48391972	48397723	0.0467679	chr2:048396	0.0467679
SPRY2	4068 chr13	79810471	79818330	0.0467802	chr13:07981	0.0467802
IGFBP4	4069 chr17	35849171	35855754	0.0467812	chr17:03584	0.0467812
BAD	4074 chr11	63807121	63808625	0.0467898	chr11:06380	0.0467898
PSMD7	4075 chr16	72882735	72890653	0.0467923	chr16:07288	0.0467923
CTDSP2	4084 chr12	56499970	56531883	0.0468363	chr12:05652	0.0468363
SLC25A5	4088 chrX	118483025	118488787	0.0468469	chrX:118483	0.0468469
ST3GAL2	4091 chr16	68987801	69036007	0.0468505	chr16:06902	0.0468505
AASDH	4095 chr4	56946150	56951631	0.0468667	chr4:056946	0.0468667
SPRY4	4098 chr5	141682269	141689857	0.0468855	chr5:141682	0.0468855
AMIGO3	4101 chr3	49730014	49733959	0.0468891	chr3:049730	0.0468891
VPS24	4107 chr2	86642404	86649094	0.046921	chr2:086642	0.046921
DKK2	4108 chr4	108173845	108182374	0.0469247	chr4:108176	0.0469247
ETV6	4114 chr12	11688534	11696775	0.0469505	chr12:01168	0.0469505
PLCB1	4126 chr20	8055996	8063755	0.0470344	chr20:00806	0.0470344
PIAS4	4127 chr19	3958112	3961279	0.0470401	chr19:00396	0.0470401
FSCN3	4134 chr7	127019125	127023466	0.0470677	chr7:127021	0.0470677
GGA1	4138 chr22	36329437	36337210	0.047076	chr22:03632	0.047076
PWP2	4139 chr21	44350897	44375445	0.0470766	chr21:04435	0.0470766
CAMLG	4141 chr5	134096700	134104664	0.0470892	chr5:134102	0.0470892
NHS	4142 chrX	17298164	17664013	0.0470916	chrX:017301	0.0470916
HIST1H2AK	4146 chr6	27914013	27914057	0.0471094	chr6:027914	0.0471094
SFRS8	4147 chr12	130758351	130764225	0.0471106	chr12:13076	0.0471106
MCOLN1	4148 chr19	7492128	7504699	0.0471107	chr19:00749	0.0471107
SFXN4	4152 chr10	120912789	120917117	0.0471312	chr10:12091	0.0471312
LACE1	4153 chr6	108718086	108725368	0.0471358	chr6:108722	0.0471358
ALKBH1	4158 chr14	77240005	77244055	0.0471561	chr14:07724	0.0471561
EXTL1	4169 chr1	26215612	26224231	0.0472534	chr1:026222	0.0472534
BTBD14B	4176 chr19	13090350	13109414	0.0472806	chr19:01310	0.0472806
TBL3	4179 chr16	1959006	1968841	0.0472944	chr16:00196	0.0472944
C13orf26	4184 chr13	30400134	30406546	0.0473154	chr13:03040	0.0473154
SLC32A1	4185 chr20	36781070	36789284	0.0473173	chr20:03678	0.0473173
RCC2	4187 chr1	17635192	17644246	0.0473327	chr1:017635	0.0473327
MFGE8	4188 chr15	87243088	87263109	0.0473339	chr15:08724	0.0473339
PPRC1	4190 chr10	103878979	103900079	0.0473431	chr10:10388	0.0473431
RPS19	4197 chr19	47050330	47058845	0.0473781	chr19:04705	0.0473781
GRIN3A	4198 chr9	103537788	103546093	0.0473905	chr9:103539	0.0473905
GPR62	4204 chr3	51959025	51966341	0.0474318	chr3:051962	0.0474318
RDHE2	4208 chr8	57393419	57401248	0.047466	chr8:057393	0.047466
LBX1	4214 chr10	102976163	102984172	0.0474921	chr10:10297	0.0474921
NTN1	4231 chr17	8861707	8868877	0.047566	chr17:00886	0.047566
TFCP2L1	4233 chr2	121756809	121763732	0.0475905	chr2:121756	0.0475905
FOSB	4239 chr19	50657902	50666176	0.0476095	chr19:05066	0.0476095
HPN	4251 chr19	40223272	40225552	0.0476665	chr19:04022	0.0476665
TMEM22	4257 chr3	138016754	138022770	0.0476928	chr3:138021	0.0476928
MAP3K6	4259 chr1	27563190	27566738	0.0476977	chr1:027563	0.0476977
INVS	4260 chr9	101901309	101906634	0.0477	chr9:101902	0.0477
ZNF337	4263 chr20	25614039	25626215	0.0477203	chr20:02561	0.0477203
NAP1L2	4265 chrX	72348621	72355865	0.0477355	chrX:072355	0.0477355
LRRC40	4279 chr1	70438832	70443834	0.0478269	chr1:070443	0.0478269
ACCN1	4280 chr17	28640970	29512796	0.0478347	chr17:02951	0.0478347

TRPV1	4286 chr17	3440520	3452599	0.0478574	chr17:0034	0.0478574
JMJD3	4287 chr17	7693641	7698686	0.0478678	chr17:0076	0.0478678
SLC25A43	4288 chrX	118411541	118419791	0.0478701	chrX:11841	0.0478701
FLJ44968	4289 chr19	19500076	19509281	0.047876	chr19:0195	0.047876
CD160	4294 chr1	144415741	144429086	0.0479016	chr1:14442	0.0479016
F2	4295 chr11	46692191	46699119	0.0479024	chr11:0466	0.0479024
LMX1B	4302 chr9	128411620	128419067	0.047941	chr9:12841	0.047941
PPARBP	4303 chr17	34816437	34861723	0.0479446	chr17:0348	0.0479446
ARHGAP6	4311 chrX	11192157	11598952	0.0479661	chrX:01159	0.0479661
PSMA1	4312 chr11	14483031	14621675	0.0479678	chr11:0144	0.0479678
GCK	4324 chr7	44150509	44196310	0.0480354	chr7:04416	0.0480354
FAM83B	4330 chr6	54814188	54821982	0.0480839	chr6:05481	0.0480839
LOH12CR1	4336 chr12	12401432	12403999	0.0481347	chr12:0124	0.0481347
GPATCH3	4338 chr1	27089570	27102506	0.0481384	chr1:02709	0.0481384
C1orf65	4339 chr1	221628312	221635422	0.0481397	chr1:22163	0.0481397
CX3CL1	4340 chr16	55958514	55966040	0.0481416	chr16:0559	0.0481416
TMEM102	4348 chr17	7271854	7281693	0.0481925	chr17:0072	0.0481925
OTEX	4352 chrX	119133198	119139307	0.0482001	chrX:11913	0.0482001
MMACHC	4353 chr1	45738634	45740052	0.0482021	chr1:04573	0.0482021
LILRB5	4354 chr19	59450518	59454621	0.0482032	chr19:0594	0.0482032
PARD6A	4357 chr16	66252473	66254203	0.0482114	chr16:0662	0.0482114
MRPS25	4372 chr3	15079807	15086522	0.0482822	chr3:01508	0.0482822
RASSF7	4373 chr11	551478	555967	0.0482871	chr11:0005	0.0482871
SNCG	4374 chr10	88708416	88712991	0.0483108	chr10:0887	0.0483108
PHF7	4377 chr3	52419757	52424127	0.0483468	chr3:05241	0.0483468
TTYH2	4381 chr17	69717995	69723577	0.0483603	chr17:0697	0.0483603
KCNQ1	4384 chr11	2418278	2441724	0.048372	chr11:0024	0.048372
C19orf46	4386 chr19	41189092	41191663	0.0483941	chr19:0411	0.0483941
MRPS12	4397 chr19	44108771	44117567	0.0484539	chr19:0441	0.0484539
PRSS8	4403 chr16	31051993	31057770	0.0484878	chr16:0310	0.0484878
LOC134145	4406 chr5	10298144	10303009	0.04849	chr5:01030	0.04849
hsa-mir-93	4407 chr7	99529350	99529395	0.0484944	chr7:09952	0.0484944
FAM19A2	4409 chr12	60869557	60878276	0.0485025	chr12:0608	0.0485025
ATP2B3	4424 chrX	152449379	152457372	0.0485919	chrX:15245	0.0485919
GJA4	4425 chr1	35026050	35033432	0.0486112	chr1:03503	0.0486112
SNX21	4427 chr20	43895973	43898183	0.0486287	chr20:0438	0.0486287
REV3L	4440 chr6	111909195	111916799	0.0487081	chr6:11191	0.0487081
GPR44	4446 chr11	60375370	60381541	0.0487322	chr11:0603	0.0487322
TRIM63	4448 chr1	26250422	26271403	0.0487368	chr1:02626	0.0487368
CBX8	4453 chr17	75382945	75390683	0.0487539	chr17:0753	0.0487539
C21orf51	4470 chr21	34665358	34672189	0.0488459	chr21:0346	0.0488459
ZNF263	4479 chr16	3268212	3276323	0.048881	chr16:0032	0.048881
CHIT1	4481 chr1	201462866	201469143	0.0488886	chr1:20146	0.0488886
ZNF143	4482 chr11	9436263	9440361	0.0488954	chr11:0094	0.0488954
E4F1	4483 chr16	2213562	2225749	0.0488984	chr16:0022	0.0488984
C10orf54	4486 chr10	73200726	73208138	0.0489081	chr10:0732	0.0489081
RAB36	4489 chr22	21817538	21837715	0.0489138	chr22:0218	0.0489138
PITPNC1	4490 chr17	62803285	62806611	0.0489139	chr17:0628	0.0489139
FAM96A	4492 chr15	62169776	62173251	0.0489349	chr15:0621	0.0489349
PCOTH	4494 chr13	23359219	23361496	0.0489461	chr13:0233	0.0489461
RAB27A	4495 chr15	53347370	53372650	0.0489557	chr15:0533	0.0489557
EIF3S12	4506 chr19	43801636	43803986	0.0490056	chr19:0438	0.0490056
LRRN5	4512 chr1	202918671	202926645	0.0490443	chr1:20291	0.0490443
DENND1C	4514 chr19	6430577	6434452	0.0490578	chr19:0064	0.0490578
LAMA5	4517 chr20	60373324	60381222	0.0491042	chr20:0603	0.0491042
NKX2-8	4518 chr14	36118951	36126938	0.0491043	chr14:0361	0.0491043
CLOCK	4520 chr4	56104367	56111169	0.0491124	chr4:05610	0.0491124
ZNF671	4543 chr19	62913246	62932198	0.0491968	chr19:0629	0.0491968

EFNA2	4547 chr19	1231644	1239661	0.0492112	chr19:00121	0.0492112
ST6GALNA	4554 chr9	129716888	129722867	0.0492744	chr9:129716	0.0492744
F2RL1	4558 chr5	76145860	76153141	0.0492981	chr5:076150	0.0492981
MAP2K3	4566 chr17	21123467	21144813	0.0493351	chr17:02114	0.0493351
WNT5B	4567 chr12	1591088	1611110	0.0493353	chr12:00160	0.0493353
F12	4568 chr5	176761724	176774597	0.0493408	chr5:176762	0.0493408
DHX15	4569 chr4	24193001	24200376	0.0493417	chr4:024195	0.0493417
KCNJ12	4580 chr17	21214876	21261693	0.0493953	chr17:02122	0.0493953
HEXA	4581 chr15	70452947	70455261	0.0494212	chr15:07045	0.0494212
FXYD2	4584 chr11	117198245	117209396	0.0494383	chr11:11719	0.0494383
ARHGEF10	4588 chr8	1754821	1796749	0.0494532	chr8:001795	0.0494532
TMEM35	4594 chrX	100219412	100237962	0.0494874	chrX:100221	0.0494874
TMEM153	4598 chr22	49288063	49292916	0.0495157	chr22:04929	0.0495157
SLC39A13	4599 chr11	47381440	47390647	0.0495188	chr11:04738	0.0495188
MAGEA8	4600 chrX	148768376	148773162	0.0495281	chrX:14877	0.0495281
FLJ40125	4601 chr19	50693687	50697604	0.0495281	chr19:05069	0.0495281
RENBP	4602 chrX	152854059	152866211	0.0495383	chrX:15286	0.0495383
LRIG1	4603 chr3	66631073	66638960	0.0495442	chr3:066630	0.0495442
ACTL6B	4604 chr7	100078659	100095523	0.049545	chr7:100079	0.049545
MLLT6	4617 chr17	34110972	34127757	0.0496117	chr17:03411	0.0496117
SFN	4623 chr1	27056848	27064535	0.0496362	chr1:027060	0.0496362
THEM2	4629 chr6	24775250	24775977	0.0496521	chr6:024775	0.0496521
ZNF179	4630 chr17	19249789	19257700	0.0496574	chr17:01925	0.0496574
FADS1	4644 chr11	61338442	61342155	0.0497473	chr11:06134	0.0497473
C1orf86	4649 chr1	2113597	2120913	0.0497583	chr1:002114	0.0497583
ABCA7	4653 chr19	990193	1016573	0.0497943	chr19:00099	0.0497943
RABEP2	4656 chr16	28842523	28843868	0.0498003	chr16:02884	0.0498003
KCNA7	4658 chr19	54262884	54269202	0.0498055	chr19:05426	0.0498055
B4GALT5	4661 chr20	47761142	47768485	0.049829	chr20:04776	0.049829
PLEKHH3	4679 chr17	38079691	38084951	0.0499441	chr17:03808	0.0499441
EBP	4680 chrX	48264120	48267498	0.0499665	chrX:04826	0.0499665

HPSE- bound genes (5'-transcribe region)

ST subset (523 genes)

Gene	Rank (Hep-1)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
LRRTM1	232	chr2	80382569	80390116	0.021949	chr2:08038	0.021949
TRIM36	238	chr5	114541135	114546895	0.0220266	chr5:114543	0.0220266
FAM46B	375	chr1	27209325	27217520	0.0238813	chr1:027211	0.0238813
EPHB1	400	chr3	135991644	135999601	0.0241175	chr3:135997	0.0241175
SHC3	491	chr9	90980874	90988635	0.0252491	chr9:090983	0.0252491
ASAH1	504	chr4	77078818	77086156	0.0253931	chr4:077080	0.0253931
FAM83H	614	chr8	144880245	144888311	0.0264755	chr8:144884	0.0264755
ROR2	663	chr9	93749647	93757679	0.0269234	chr9:093757	0.0269234
BXDC2	680	chr5	34951668	34953885	0.0270891	chr5:034957	0.0270891
LOC40012C	704	chr13	36140652	36148421	0.0273137	chr13:03614	0.0273137
SLC39A10	718	chr2	196224788	196232532	0.0274089	chr2:196230	0.0274089
MDS1	783	chr3	170861701	170869536	0.0280181	chr3:170863	0.0280181
TAPBP	789	chr6	33375436	33389861	0.0281124	chr6:033389	0.0281124
ELOVL1	800	chr1	43603838	43611809	0.0281593	chr1:043604	0.0281593
SNAG1	801	chr5	53846310	53852014	0.0281637	chr5:053857	0.0281637
ALX3	809	chr1	110412386	110419370	0.0282109	chr1:110414	0.0282109
CXCL14	854	chr5	134940126	134947825	0.0285784	chr5:134942	0.0285784
ITGA6	887	chr2	172995510	173002953	0.0288925	chr2:173000	0.0288925
ALPL	888	chr1	21703172	21710923	0.0288936	chr1:021709	0.0288936
FLJ16124	910	chr2	65517380	65519335	0.0290196	chr2:065517	0.0290196
NEUROG2	925	chr4	113653796	113662198	0.0291033	chr4:113656	0.0291033
CEI	951	chr5	2805337	2810273	0.029363	chr5:002805	0.029363
SFRP4	982	chr7	37920191	37922886	0.0296663	chr7:037922	0.0296663

NR2E1	1015 chr6	108588654	108597134	0.0298518	chr6:108597134	0.0298518
C1orf188	1028 chr1	6191529	6194612	0.0299748	chr1:006191529	0.0299748
SNX24	1041 chr5	122205841	122211447	0.0301252	chr5:122205841	0.0301252
LOC441108	1052 chr5	131769250	131777072	0.0302106	chr5:131777072	0.0302106
SNX13	1065 chr7	17944204	17950848	0.0302762	chr7:017944204	0.0302762
MAP9	1074 chr4	156515088	156521715	0.0303197	chr4:156515088	0.0303197
PHOX2B	1083 chr4	41443145	41451222	0.0303905	chr4:041443145	0.0303905
CCDC13	1108 chr3	42788796	42795199	0.0305708	chr3:042788796	0.0305708
TOX	1114 chr8	60191653	60199534	0.0306259	chr8:060191653	0.0306259
MON1A	1120 chr3	49921450	49942365	0.0306802	chr3:049921450	0.0306802
CDC14B	1133 chr9	98418988	98426656	0.0307582	chr9:098418988	0.0307582
KLF14	1140 chr7	130067142	130074866	0.0308372	chr7:130067142	0.0308372
AZIN1	1147 chr8	103943698	103951045	0.0308628	chr8:103943698	0.0308628
CAPN2	1156 chr1	221961730	221969016	0.0309067	chr1:221961730	0.0309067
LNPEP	1162 chr5	96293610	96300037	0.0309522	chr5:096293610	0.0309522
ZNF175	1172 chr19	56760888	56768804	0.0310293	chr19:056760888	0.0310293
ZNF16	1178 chr8	146144543	146147452	0.0310759	chr8:146144543	0.0310759
CAD	1186 chr2	27293596	27295646	0.0310981	chr2:027293596	0.0310981
RPS6KA2	1188 chr6	166957988	166965434	0.031121	chr6:166957988	0.031121
RPL22	1201 chr1	6167759	6182271	0.031188	chr1:006167759	0.031188
UBE2R2	1211 chr9	33804058	33810272	0.0312505	chr9:033804058	0.0312505
RPP14	1238 chr3	58263066	58268886	0.0313777	chr3:058263066	0.0313777
EHD3	1260 chr2	31305768	31313451	0.0315643	chr2:031305768	0.0315643
MAT2B	1263 chr5	162857599	162867417	0.0315718	chr5:162857599	0.0315718
GPR157	1280 chr1	9109228	9117463	0.0316631	chr1:009109228	0.0316631
DTNB	1299 chr2	25747846	25755087	0.0318152	chr2:025747846	0.0318152
THAP1	1316 chr8	42814869	42819716	0.0319373	chr8:042814869	0.0319373
NFE2L3	1326 chr7	26156183	26160646	0.0320323	chr7:026156183	0.0320323
SDK1	1335 chr7	3303060	3310184	0.0320594	chr7:003303060	0.0320594
FLJ30851	1356 chr2	24246095	24253493	0.0321821	chr2:024246095	0.0321821
KIF17	1373 chr1	20863325	20922058	0.0323322	chr1:020863325	0.0323322
SMO	1394 chr7	128612040	128618618	0.0324623	chr7:128612040	0.0324623
DST	1406 chr6	56613225	56821413	0.0325323	chr6:056613225	0.0325323
CLDN7	1412 chr17	7104168	7108275	0.0325547	chr17:007104168	0.0325547
ATP5I	1419 chr4	655430	658039	0.0325971	chr4:000655430	0.0325971
C10orf67	1420 chr10	23671674	23678691	0.0326026	chr10:023671674	0.0326026
SRP72	1428 chr4	57024048	57064183	0.032664	chr4:057024048	0.032664
C9orf86	1441 chr9	138822209	138824798	0.0327485	chr9:138822209	0.0327485
S100Z	1444 chr5	76177467	76184007	0.0327846	chr5:076177467	0.0327846
DOCK4	1447 chr7	111628448	111633719	0.0328365	chr7:111633719	0.0328365
EIF2C1	1450 chr1	36116657	36123824	0.0328461	chr1:036116657	0.0328461
FAM123A	1455 chr13	24641462	24649894	0.0328733	chr13:024641462	0.0328733
EVC	1461 chr4	5763852	5765461	0.0329512	chr4:005763852	0.0329512
DNAJB2	1477 chr2	219847033	219855288	0.0330745	chr2:219847033	0.0330745
HINT3	1493 chr6	126315510	126320839	0.0332018	chr6:126315510	0.0332018
CIAO1	1497 chr2	96295590	96300874	0.0332233	chr2:096295590	0.0332233
ABCC5	1506 chr3	185215949	185220813	0.0332735	chr3:185215949	0.0332735
KCNN2	1560 chr5	113720597	113799535	0.0336597	chr5:113720597	0.0336597
MTX2	1609 chr2	176837833	176844172	0.0339845	chr2:176837833	0.0339845
D4ST1	1612 chr15	38547780	38552984	0.0339991	chr15:038547780	0.0339991
C1orf128	1619 chr1	23975417	23987159	0.034019	chr1:023975417	0.034019
URM1	1629 chr9	130169818	130193777	0.0340462	chr9:130169818	0.0340462
AR	1636 chrX	66678205	66684194	0.0341003	chrX:066678205	0.0341003
C7orf46	1640 chr7	23683628	23688066	0.0341609	chr7:023683628	0.0341609
RAXL1	1641 chr19	3720389	3728669	0.0341634	chr19:003720389	0.0341634
C19orf15	1649 chr19	43513365	43553424	0.0342071	chr19:043513365	0.0342071
SLC6A15	1656 chr12	83828338	83834979	0.0342427	chr12:083828338	0.0342427
GCC2	1674 chr2	108427588	108434595	0.0343059	chr2:108427588	0.0343059

GTDC1	1680 chr2	144804120	144811507	0.0343447	chr2:144804120	0.0343447
CCT4	1693 chr2	61967328	61974129	0.0344102	chr2:061967328	0.0344102
CENTB5	1704 chr1	1226824	1228503	0.0344928	chr1:001226824	0.0344928
PTPRT	1711 chr20	41249397	41257020	0.0345341	chr20:041249397	0.0345341
S100PBP	1715 chr1	33052949	33056053	0.0345456	chr1:033052949	0.0345456
FGFR3	1717 chr4	1760017	1767892	0.0345506	chr4:001760017	0.0345506
KPNA1	1723 chr3	123713882	123721542	0.0345612	chr3:123713882	0.0345612
TULP1	1739 chr6	35573749	35590147	0.0346663	chr6:035573749	0.0346663
GGPS1	1740 chr1	233558471	233563195	0.0346729	chr1:233558471	0.0346729
ID1	1745 chr20	29654081	29659368	0.0347073	chr20:029654081	0.0347073
NFKBIZ	1748 chr3	103047860	103053598	0.0347426	chr3:103047860	0.0347426
LOC113179	1754 chr19	1856466	1858900	0.0347745	chr19:001856466	0.0347745
FZD3	1772 chr8	28407755	28410094	0.03488	chr8:028407755	0.03488
RPL29	1776 chr3	52002106	52009933	0.0349205	chr3:052002106	0.0349205
LOC339344	1800 chr19	51085104	51101026	0.0350765	chr19:051085104	0.0350765
ATP6V1B2	1825 chr8	20095526	20101391	0.0351768	chr8:020095526	0.0351768
NOL8	1826 chr9	94127630	94132765	0.0351844	chr9:094127630	0.0351844
PIP5K3	1832 chr2	208838159	208841399	0.0352413	chr2:208838159	0.0352413
ESPL1	1833 chr12	51943413	51973712	0.0352425	chr12:051943413	0.0352425
DKFZP564C001001	1834 chr4	76073290	76079808	0.0352462	chr4:076073290	0.0352462
C1orf85	1884 chr1	154529559	154532626	0.0355135	chr1:154529559	0.0355135
TCEB3	1887 chr1	23937197	23944987	0.0355262	chr1:023937197	0.0355262
MED11	1889 chr17	4576070	4583524	0.0355286	chr17:004576070	0.0355286
MCMDC1	1892 chr6	119295655	119302139	0.0355454	chr6:119295655	0.0355454
ANXA3	1895 chr4	79689627	79696951	0.0355678	chr4:079689627	0.0355678
IDI1	1917 chr10	1083493	1085068	0.035678	chr10:001083493	0.035678
GLB1L	1920 chr2	219813005	219818218	0.0356814	chr2:219813005	0.0356814
SMG7	1922 chr1	181703207	181710460	0.0356958	chr1:181703207	0.0356958
RASIP1	1944 chr19	53915827	53935838	0.0358538	chr19:053915827	0.0358538
KCTD15	1953 chr19	38974217	38982069	0.035932	chr19:038974217	0.035932
ARC	1955 chr8	143690451	143698336	0.0359493	chr8:143690451	0.0359493
C1orf198	1959 chr1	229068380	229076882	0.0359678	chr1:229068380	0.0359678
PDCD2	1971 chr6	170733856	170738163	0.0360554	chr6:170733856	0.0360554
SLC25A37	1987 chr8	23436901	23444630	0.0361338	chr8:023436901	0.0361338
CAMK2N2	1995 chr3	185459741	185465847	0.0361663	chr3:185459741	0.0361663
WDR60	2010 chr7	158341323	158344029	0.0362723	chr7:158341323	0.0362723
VTN	2017 chr17	23718606	23721445	0.0363128	chr17:023718606	0.0363128
LSM6	2042 chr4	147311475	147318709	0.0364501	chr4:147311475	0.0364501
C14orf122	2052 chr14	23678119	23682322	0.0365009	chr14:023678119	0.0365009
FRMD3	2060 chr9	85340731	85346965	0.0365466	chr9:085340731	0.0365466
DNAJC11	2064 chr1	6682188	6689973	0.0365528	chr1:006682188	0.0365528
ZNHIT2	2078 chr11	64640464	64644502	0.0366494	chr11:064640464	0.0366494
PSPC1	2108 chr13	19253577	19255983	0.0367905	chr13:019253577	0.0367905
NDUFA6	2111 chr22	40814878	40818501	0.0368228	chr22:040814878	0.0368228
SLCO5A1	2125 chr8	70907445	70913930	0.0368741	chr8:070907445	0.0368741
SRRM2	2129 chr16	2737401	2745128	0.0368911	chr16:002737401	0.0368911
LHFPL3	2137 chr7	103750837	103758824	0.03696	chr7:103750837	0.03696
DENND1A	2140 chr9	125729943	125737263	0.0369749	chr9:125729943	0.0369749
C5orf32	2152 chr5	139530637	139537372	0.0370458	chr5:139530637	0.0370458
BMI1	2154 chr10	22649271	22652618	0.0370477	chr10:022649271	0.0370477
WNT1	2158 chr12	47658646	47661221	0.0370621	chr12:047658646	0.0370621
RP2	2165 chrX	46576056	46583588	0.0370801	chrX:046576056	0.0370801
C6orf211	2179 chr6	151815222	151820303	0.0371809	chr6:151815222	0.0371809
FLJ20323	2181 chr7	7568276	7575450	0.0371843	chr7:007568276	0.0371843
TCF12	2189 chr15	54992977	55301407	0.0372232	chr15:054992977	0.0372232
CNKSR3	2193 chr6	154870710	154878944	0.0372433	chr6:154870710	0.0372433
CHRN2	2204 chr1	152806892	152809656	0.0372939	chr1:152806892	0.0372939
NEFM	2209 chr8	24821804	24829520	0.0373258	chr8:024821804	0.0373258

CYP7B1	2213 chr8	65871307	65878966	0.0373363	chr8:065871	0.0373363
CCDC50	2223 chr3	192526582	192532528	0.0374013	chr3:192530	0.0374013
CCDC17	2225 chr1	45859749	45864065	0.0374041	chr1:04586	0.0374041
LTB	2226 chr6	31655812	31658095	0.0374119	chr6:031656	0.0374119
CKB	2236 chr14	103056222	103058750	0.037457	chr14:10305	0.037457
LOC339524	2240 chr1	87365269	87372726	0.0374791	chr1:087370	0.0374791
C22orf13	2251 chr22	23276416	23281255	0.0375321	chr22:02328	0.0375321
SOCS3	2256 chr17	73864357	73873229	0.0375633	chr17:07386	0.0375633
PARP12	2268 chr7	139406758	139410930	0.0376188	chr7:139408	0.0376188
ARL10	2279 chr5	175725227	175726474	0.0376645	chr5:175726	0.0376645
FAM50B	2285 chr6	3789359	3796753	0.0377054	chr6:00379	0.0377054
K-ALPHA-1	2297 chr12	47809235	47813511	0.037769	chr12:0478	0.037769
VAV3	2303 chr1	108306682	108314153	0.0377961	chr1:108308	0.0377961
TNIP2	2316 chr4	2725320	2733384	0.0378565	chr4:00272	0.0378565
GCC1	2321 chr7	127009253	127012875	0.0378837	chr7:127012	0.0378837
TUBB2C	2336 chr9	139250952	139257939	0.0379577	chr9:139256	0.0379577
LRCH2	2345 chrX	114329687	114380386	0.0379911	chrX:114330	0.0379911
TSSK6	2349 chr19	19482550	19487422	0.0380035	chr19:01948	0.0380035
DHFR	2368 chr5	79986198	79991602	0.038085	chr5:079986	0.038085
ABHD6	2372 chr3	58193962	58200631	0.0380943	chr3:058198	0.0380943
EPB41L3	2374 chr18	5531626	5539393	0.0381013	chr18:00553	0.0381013
C4orf20	2375 chr4	186581838	186589531	0.0381015	chr4:186584	0.0381015
C4orf31	2386 chr4	122210894	122218177	0.0381505	chr4:122212	0.0381505
C15orf17	2396 chr15	72983931	72991052	0.0382154	chr15:07298	0.0382154
SYT7	2399 chr11	61102413	61110335	0.0382331	chr11:06110	0.0382331
LLGL2	2401 chr17	71032531	71053472	0.038235	chr17:07103	0.038235
TACSTD2	2404 chr1	58813385	58820248	0.0382387	chr1:058814	0.0382387
GZF1	2405 chr20	23289020	23295460	0.0382408	chr20:02329	0.0382408
NEK1	2406 chr4	170768575	170770138	0.0382432	chr4:170770	0.0382432
C9orf100	2410 chr9	35652750	35655224	0.0382694	chr9:035655	0.0382694
C6orf47	2412 chr6	31734085	31737868	0.0382743	chr6:031736	0.0382743
NUFIP2	2414 chr17	24642755	24649732	0.0382868	chr17:02464	0.0382868
RASL12	2423 chr15	63144704	63152087	0.0383522	chr15:06314	0.0383522
GOLPH4	2437 chr3	169293382	169301811	0.038434	chr3:169295	0.038434
TIMM13	2438 chr19	2376621	2379072	0.0384381	chr19:00237	0.0384381
C1orf82	2446 chr1	92537275	92542623	0.0384939	chr1:092537	0.0384939
PCM1	2448 chr8	17819323	17827261	0.038508	chr8:017825	0.038508
SCGN	2450 chr6	25755942	25763092	0.0385133	chr6:025760	0.0385133
C3orf59	2458 chr3	194115789	194124136	0.0385483	chr3:194118	0.0385483
TMEM121	2459 chr14	105063470	105068670	0.0385561	chr14:10506	0.0385561
CALR	2465 chr19	12910545	12916025	0.0385991	chr19:01291	0.0385991
RMI1	2490 chr9	85785570	85790315	0.0387105	chr9:085785	0.0387105
DUSP22	2507 chr6	231621	240063	0.0387965	chr6:000237	0.0387965
MRPL41	2508 chr9	139566147	139567819	0.0387997	chr9:139566	0.0387997
C8orf76	2517 chr8	124320335	124326676	0.0388329	chr8:124322	0.0388329
RPL39L	2518 chr3	188338600	188342357	0.0388348	chr3:188339	0.0388348
IL13	2523 chr5	132016926	132024236	0.0388508	chr5:132022	0.0388508
FLJ10159	2533 chr6	107912957	107920935	0.038891	chr6:107919	0.038891
ST6GALNA	2539 chr9	129697952	129707064	0.038926	chr9:129700	0.038926
MKRN3	2545 chr15	21356596	21364500	0.0389515	chr15:02136	0.0389515
PPFIBP1	2560 chr12	27562866	27739309	0.0390569	chr12:02756	0.0390569
IRGQ	2561 chr19	48786988	48791274	0.03906	chr19:04878	0.03906
C7orf31	2563 chr7	25183663	25191965	0.0390867	chr7:025186	0.0390867
NDUFA11	2564 chr19	5850854	5855004	0.0390874	chr19:00585	0.0390874
ENDOG	2574 chr9	130620242	130623251	0.0391329	chr9:13062	0.0391329
ARVCF	2575 chr22	18382165	18384199	0.0391333	chr22:01838	0.0391333
B3GNT2	2578 chr2	62274012	62279244	0.0391384	chr2:062278	0.0391384
ATXN7	2584 chr3	63825281	63830003	0.0391656	chr3:063828	0.0391656

CDH2	2586 chr18	24008571	24016616	0.0391789	chr18:02400	0.0391789
ZZEF1	2587 chr17	3987805	3992946	0.0391841	chr17:00399	0.0391841
NCDN	2590 chr1	35796005	35800881	0.0391972	chr1:035798	0.0391972
DUS3L	2592 chr19	5736445	5746713	0.0392219	chr19:00574	0.0392219
ZCCHC17	2594 chr1	31542566	31547335	0.0392474	chr1:031544	0.0392474
ARRDC2	2606 chr19	17974459	17982508	0.0393433	chr19:01798	0.0393433
ADAM22	2609 chr7	87400653	87403728	0.0393521	chr7:087402	0.0393521
ZNF232	2620 chr17	4953356	4966865	0.0394237	chr17:00496	0.0394237
CYP4V2	2623 chr4	187346175	187352436	0.03945	chr4:187350	0.03945
STXBP6	2632 chr14	24586434	24594297	0.0395199	chr14:02458	0.0395199
SLC35A5	2654 chr3	113763616	113765557	0.0396264	chr3:113763	0.0396264
NKTR	2659 chr3	42612261	42619948	0.0396469	chr3:042617	0.0396469
CA9	2660 chr9	35664017	35666330	0.0396506	chr9:035664	0.0396506
ARPC1A	2667 chr7	98756782	98763511	0.0396784	chr7:098767	0.0396784
TMEM55A	2669 chr8	92119744	92125654	0.0397016	chr8:092127	0.0397016
ACTN2	2672 chr1	234914383	234919038	0.0397088	chr1:234916	0.0397088
CBLN2	2675 chr18	68359367	68368030	0.03972	chr18:06836	0.03972
GIPC2	2720 chr1	78279081	78285802	0.0399202	chr1:078284	0.0399202
RNF151	2729 chr16	1955320	1958819	0.0399675	chr16:00195	0.0399675
FLJ23577	2734 chr5	35648848	35656216	0.0399795	chr5:035655	0.0399795
GADD45B	2742 chr19	2423856	2429726	0.0400005	chr19:00242	0.0400005
ZDHC12	2743 chr9	130523687	130531421	0.0400033	chr9:130524	0.0400033
NDUFV3	2757 chr21	43183040	43188255	0.0400913	chr21:04318	0.0400913
C19orf59	2769 chr19	7641371	7650708	0.0401412	chr19:00764	0.0401412
POU6F1	2771 chr12	49895765	49899807	0.0401468	chr12:04989	0.0401468
TWIST1	2774 chr7	19121019	19129123	0.0401642	chr7:019122	0.0401642
PLA2G2E	2783 chr1	20120249	20125966	0.0401998	chr1:020127	0.0401998
C1orf93	2791 chr1	2502810	2510677	0.0402321	chr1:002508	0.0402321
CAPN9	2831 chr1	228945808	228952042	0.0404381	chr1:228950	0.0404381
RAD54L	2832 chr1	46481608	46488912	0.0404385	chr1:046486	0.0404385
SPTLC1	2841 chr9	93915384	93919970	0.0404774	chr9:093917	0.0404774
SLC7A1	2846 chr13	29065119	29070727	0.0405186	chr13:02906	0.0405186
SOX1	2848 chr13	111764575	111772443	0.0405256	chr13:11177	0.0405256
PCDHGA11	2851 chr5	140780254	140783205	0.0405603	chr5:140783	0.0405603
TMEM116	2862 chr12	110930720	110935303	0.0406167	chr12:11093	0.0406167
FLJ10324	2877 chr7	4888046	4894918	0.0406862	chr7:004888	0.0406862
GMPS	2879 chr3	157068699	157073602	0.0406901	chr3:157073	0.0406901
NDFIP2	2880 chr13	78948000	78955989	0.0407054	chr13:07894	0.0407054
SLC26A10	2884 chr12	56297416	56302453	0.0407302	chr12:05630	0.0407302
NOV	2886 chr8	120492951	120500295	0.0407467	chr8:120497	0.0407467
PPA2	2907 chr4	106612134	106620202	0.0408654	chr4:106614	0.0408654
C16orf80	2918 chr16	56718330	56723511	0.0409312	chr16:05672	0.0409312
FAM89A	2930 chr1	229240220	229248054	0.0409834	chr1:229242	0.0409834
VAPB	2931 chr20	56392151	56400339	0.0409855	chr20:05639	0.0409855
ARIH1	2932 chr15	70548917	70556348	0.0410014	chr15:07054	0.0410014
ICAM5	2933 chr19	10260363	10264170	0.0410083	chr19:01026	0.0410083
GPR64	2936 chrX	18917386	19056047	0.0410148	chrX:019056	0.0410148
ANKRD49	2943 chr11	93866867	93872069	0.0410407	chr11:09386	0.0410407
DNAJC6	2946 chr1	65493101	65654046	0.0410576	chr1:065504	0.0410576
CCNJ	2949 chr10	97789972	97796610	0.0410618	chr10:09778	0.0410618
C9orf43	2958 chr9	115212908	115218211	0.0410905	chr9:115212	0.0410905
ZNF75	2959 chrX	134300958	134305628	0.0410943	chrX:134300	0.0410943
MND1	2966 chr4	154479967	154487564	0.0411156	chr4:154487	0.0411156
GPM6A	2975 chr4	176967902	177163432	0.0411559	chr4:177160	0.0411559
TRIM14	2979 chr9	99919998	99925528	0.0411824	chr9:099920	0.0411824
PTHR1	2987 chr3	46894739	46902552	0.0412259	chr3:046899	0.0412259
SOX2	2988 chr3	182907129	182915297	0.0412284	chr3:182915	0.0412284
ORAOV1	2991 chr11	69197294	69204453	0.0412428	chr11:06919	0.0412428

C5orf14	3006 chr5	134235425	134264907	0.0413108	chr5:134235	0.0413108
DDEFL1	3024 chr1	23680837	23688813	0.0414083	chr1:023680	0.0414083
KLHL17	3036 chr1	885874	890972	0.0414699	chr1:000885	0.0414699
MGC29891	3038 chr1	149307994	149311312	0.041477	chr1:149307	0.041477
PKN1	3046 chr19	14403711	14443957	0.0415113	chr19:0144	0.0415113
ZBTB5	3048 chr9	37453126	37458144	0.0415156	chr9:037453	0.0415156
TRIM23	3056 chr5	64951101	64955857	0.0415559	chr5:064951	0.0415559
TRAF5	3068 chr1	209562349	209587798	0.041615	chr1:209562	0.041615
CDKL5	3076 chrX	18348429	18356200	0.0416664	chrX:018356	0.0416664
SC65	3079 chr17	37217692	37221966	0.0416687	chr17:03721	0.0416687
ADCY4	3081 chr14	23856783	23874948	0.0416776	chr14:02385	0.0416776
STRA8	3083 chr7	134563875	134569370	0.0416939	chr7:134563	0.0416939
C1orf144	3105 chr1	16562480	16568348	0.0417995	chr1:016562	0.0417995
GIN54	3110 chr8	41500858	41508504	0.041828	chr8:041500	0.041828
VPS13A	3122 chr9	78977140	78983960	0.0419197	chr9:078977	0.0419197
C1orf97	3123 chr1	209617465	209624608	0.0419237	chr1:209617	0.0419237
FAM60A	3124 chr12	31367909	31375887	0.041932	chr12:03136	0.041932
HIBADH	3139 chr7	27666848	27674541	0.0419873	chr7:027666	0.0419873
HNRNPG-T	3151 chr11	7065594	7069306	0.0420595	chr11:00706	0.0420595
RGAG4	3155 chrX	71266013	71268197	0.042073	chrX:071266	0.042073
HS2ST1	3163 chr1	87152982	87158176	0.0421246	chr1:087152	0.0421246
WDR34	3170 chr9	130456329	130461328	0.0421479	chr9:130456	0.0421479
FBXW8	3177 chr12	115827640	115835051	0.0421813	chr12:11582	0.0421813
MPP2	3183 chr17	39338325	39350113	0.0422023	chr17:03933	0.0422023
ANGPTL2	3193 chr9	128922399	128929716	0.0422824	chr9:128922	0.0422824
OSTF1	3195 chr9	76893386	76898482	0.0423049	chr9:076893	0.0423049
FKBP1A	3198 chr20	1319246	1325066	0.0423118	chr20:00131	0.0423118
RND3	3202 chr2	151049781	151057824	0.0423382	chr2:151050	0.0423382
TFEB	3204 chr6	41808532	41812212	0.0423537	chr6:041808	0.0423537
TBC1D1	3206 chr4	37563736	37640795	0.0423579	chr4:037563	0.0423579
BLVRA	3208 chr7	43759503	43766831	0.0423606	chr7:043756	0.0423606
HNRPM	3214 chr19	8410611	8418303	0.0423728	chr19:0084	0.0423728
KLHL34	3217 chrX	21583333	21591883	0.0423863	chrX:021583	0.0423863
SPATA5L1	3219 chr15	43477779	43483869	0.042406	chr15:04347	0.042406
STARD8	3223 chrX	67778909	67786646	0.0424195	chrX:067778	0.0424195
HSDL1	3224 chr16	82713393	82736224	0.0424205	chr16:08271	0.0424205
HMGA1	3225 chr6	34307706	34318994	0.0424301	chr6:034311	0.0424301
SSNA1	3234 chr9	139203021	139205270	0.0424828	chr9:139203	0.0424828
DOHH	3238 chr19	3445336	3459749	0.0425094	chr19:00344	0.0425094
KCNA3	3261 chr1	111016398	111022048	0.0426057	chr1:111017	0.0426057
VAPA	3276 chr18	9898739	9906646	0.0426565	chr18:00990	0.0426565
KIAA1875	3297 chr8	145234671	145237082	0.042814	chr8:145234	0.042814
PLCB3	3309 chr11	63775824	63778195	0.0428476	chr11:06377	0.0428476
SMTNL2	3313 chr17	4429473	4436551	0.042877	chr17:00442	0.042877
NDUFS7	3332 chr19	1329434	1337181	0.042946	chr19:00132	0.042946
ZFP42	3333 chr4	189148902	189155752	0.0429509	chr4:189155	0.0429509
SOX30	3335 chr5	157009747	157012243	0.0429605	chr5:157011	0.0429605
CCDC71	3337 chr3	49176408	49178712	0.042964	chr3:049176	0.042964
MGLL	3339 chr3	129021521	129029396	0.0429768	chr3:129021	0.0429768
PPP1R3D	3344 chr20	57945290	57948624	0.0430105	chr20:05794	0.0430105
CHMP5	3354 chr9	33255014	33259158	0.0430845	chr9:033255	0.0430845
CDCP1	3365 chr3	45160435	45164863	0.0431505	chr3:045160	0.0431505
VDAC1	3372 chr5	133336492	133373895	0.0431619	chr5:133336	0.0431619
RASL10A	3375 chr22	28039003	28045489	0.0431811	chr22:02803	0.0431811
PLOD2	3384 chr3	147358996	147367321	0.0432365	chr3:147358	0.0432365
CACNA1D	3393 chr3	53498786	53506685	0.0432884	chr3:053500	0.0432884
CCDC101	3406 chr16	28468085	28473295	0.0433546	chr16:02847	0.0433546
SELT	3418 chr3	151798486	151806172	0.0433858	chr3:151806	0.0433858

C16orf58	3424 chr16	31425715	31431331	0.043413	chr16:03142	0.043413
CHRD1	3442 chrX	109923203	109931151	0.0434816	chrX:10992	0.0434816
MUC1	3444 chr1	153426971	153429242	0.0434856	chr1:15342	0.0434856
TRPC7	3466 chr5	135718566	135725973	0.0436477	chr5:13572	0.0436477
H1FNT	3467 chr12	47006329	47011739	0.0436511	chr12:0470	0.0436511
PITX3	3486 chr10	103988794	103991039	0.0437276	chr10:1039	0.0437276
C1orf94	3502 chr1	34414536	34418201	0.0438076	chr1:03441	0.0438076
TRIM47	3504 chr17	71383200	71391178	0.0438205	chr17:0713	0.0438205
SKP2	3516 chr5	36187953	36192589	0.043865	chr5:03618	0.043865
PSMB9	3527 chr6	32929906	32935243	0.0439364	chr6:0329	0.0439364
CAND1	3528 chr12	65944529	65952235	0.043949	chr12:0659	0.043949
CDC25C	3529 chr5	137692272	137695398	0.043955	chr5:13769	0.043955
NOS1	3532 chr12	116281639	116289305	0.0439683	chr12:1162	0.0439683
ZNF692	3538 chr1	247117362	247125369	0.0439921	chr1:2471	0.0439921
PERP	3540 chr6	138468003	138475764	0.0440037	chr6:1384	0.0440037
CHST11	3541 chr12	103369938	103377755	0.0440072	chr12:1033	0.0440072
RNF103	3568 chr2	86701144	86708020	0.0441447	chr2:0867	0.0441447
IL6R	3584 chr1	152639195	152647171	0.0442452	chr1:1526	0.0442452
DNAJA2	3585 chr16	45562570	45568887	0.0442525	chr16:0455	0.0442525
JARID1B	3588 chr1	201041667	201052028	0.0442931	chr1:2010	0.0442931
FMR1NB	3591 chrX	146865391	146871066	0.0443033	chrX:1468	0.0443033
PSENE1	3594 chr19	40928375	40929656	0.0443141	chr19:040	0.0443141
HAS2	3598 chr8	122719857	122725936	0.0443248	chr8:1227	0.0443248
SLC7A14	3603 chr3	171784235	171792045	0.0443599	chr3:1717	0.0443599
SART1	3605 chr11	65484196	65488222	0.0443658	chr11:065	0.0443658
TOR1B	3612 chr9	131601175	131607757	0.0443904	chr9:1316	0.0443904
HTR2C	3617 chrX	113720089	113965715	0.0444094	chrX:1137	0.0444094
TFG	3618 chr3	101906005	101913320	0.0444123	chr3:1019	0.0444123
H2AFJ	3622 chr12	14818633	14821182	0.0444245	chr12:014	0.0444245
JPH3	3623 chr16	86189041	86197099	0.0444278	chr16:086	0.0444278
LAP3	3628 chr4	17184894	17190543	0.0444474	chr4:017	0.0444474
SOX18	3629 chr20	62148140	62151088	0.044449	chr20:062	0.044449
DPYSL3	3635 chr5	146810917	146818816	0.0444817	chr5:1468	0.0444817
UROS	3638 chr10	127497082	127501692	0.0444929	chr10:127	0.0444929
PPIA	3639 chr7	44797328	44805170	0.0444931	chr7:044	0.0444931
AGXT	3654 chr2	241451468	241459390	0.0445587	chr2:241	0.0445587
GJA5	3674 chr1	145696980	145717558	0.0446688	chr1:145	0.0446688
HOXB9	3690 chr17	44056215	44064802	0.0447584	chr17:044	0.0447584
DHX33	3691 chr17	5286320	5318348	0.0447593	chr17:005	0.0447593
SNX17	3696 chr2	27446890	27452176	0.0447747	chr2:027	0.0447747
GOLPH3	3710 chr5	32208095	32215590	0.0448319	chr5:032	0.0448319
SLC9A2	3712 chr2	102597273	102605097	0.0448448	chr2:102	0.0448448
CYP1A1	3715 chr15	72802451	72810417	0.0448489	chr15:07	0.0448489
REM1	3720 chr20	29526750	29528913	0.0448731	chr20:02	0.0448731
IL1F10	3726 chr2	113538853	113549190	0.0449142	chr2:113	0.0449142
C14orf37	3728 chr14	57686288	57694162	0.0449261	chr14:05	0.0449261
CUL5	3733 chr11	107381092	107387043	0.044969	chr11:10	0.044969
GSCL	3744 chr22	17516541	17522840	0.0450417	chr22:01	0.0450417
ITCH	3772 chr20	32413474	32562865	0.0452068	chr20:03	0.0452068
FN1	3779 chr2	216006451	216013947	0.0452386	chr2:216	0.0452386
ADAM33	3783 chr20	3597248	3615641	0.0452535	chr20:00	0.0452535
GMEB1	3785 chr1	28862968	28870242	0.0452536	chr1:028	0.0452536
ATP6AP2	3790 chrX	40319704	40327501	0.0452905	chrX:040	0.0452905
NUBP2	3792 chr16	1773039	1778025	0.0453035	chr16:00	0.0453035
ISCA1	3796 chr9	88084757	88092819	0.0453225	chr9:088	0.0453225
TMEM46	3798 chr13	25520762	25527702	0.0453376	chr13:02	0.0453376
PLXDC2	3807 chr10	20140686	20148481	0.0453692	chr10:02	0.0453692
C9orf7	3818 chr9	135314334	135317446	0.0454386	chr9:135	0.0454386

ZCCHC8	3819 chr12	121549101	121554785	0.0454464	chr12:12154	0.0454464
BMPR1A	3823 chr10	88501044	88628273	0.0454666	chr10:08850	0.0454666
PIP5K2C	3827 chr12	56265776	56283260	0.0454853	chr12:05627	0.0454853
SRD5A2L	3833 chr4	55904373	55909490	0.0455028	chr4:05590	0.0455028
SFRP1	3840 chr8	41283839	41290635	0.0455692	chr8:04128	0.0455692
CUEDC2	3851 chr10	104173041	104182350	0.04562	chr10:10418	0.04562
CENPH	3852 chr5	68516125	68523460	0.0456281	chr5:06852	0.0456281
SLC25A21	3861 chr14	36708940	36715384	0.0456806	chr14:0367	0.0456806
SLC25A28	3866 chr10	101368250	101373317	0.0456943	chr10:10136	0.0456943
HNRPA2B1	3868 chr7	26202137	26206734	0.0456979	chr7:02620	0.0456979
AP4M1	3870 chr7	99537165	99542658	0.0457089	chr7:09953	0.0457089
NAPA	3895 chr19	52682812	52715815	0.0458459	chr19:0527	0.0458459
PIP5K2A	3904 chr10	23040800	23048726	0.0458934	chr10:0230	0.0458934
GABRA5	3906 chr15	24660177	24665568	0.0458949	chr15:0246	0.0458949
TXNL6	3919 chr19	17430329	17432654	0.0460045	chr19:0174	0.0460045
NDUFS6	3946 chr5	1854538	1857714	0.0460997	chr5:00185	0.0460997
C20orf3	3952 chr20	24918831	24926868	0.0461291	chr20:0249	0.0461291
EDARADD	3966 chr1	234618967	234627893	0.0462316	chr1:23462	0.0462316
ZNF697	3973 chr1	119965171	119972839	0.0462954	chr1:11996	0.0462954
TMBIM4	3974 chr12	64849297	64851896	0.0462989	chr12:0648	0.0462989
KLHL15	3978 chrX	23952709	23959691	0.0463138	chrX:02395	0.0463138
PEX6	3989 chr6	43052382	43054652	0.0463797	chr6:04305	0.0463797
MGEA5	3990 chr10	103534273	103573039	0.0463815	chr10:1035	0.0463815
CDC5L	3996 chr6	44458086	44466026	0.0464295	chr6:04446	0.0464295
DSCR6	4000 chr21	37295531	37303415	0.0464434	chr21:0373	0.0464434
SFRS1	4002 chr17	53437137	53444286	0.0464606	chr17:0534	0.0464606
NRP2	4003 chr2	206249506	206258643	0.0464744	chr2:20625	0.0464744
CSNK1G3	4009 chr5	122870388	122911761	0.0464909	chr5:12287	0.0464909
C10orf9	4013 chr10	35660599	35668503	0.0465139	chr10:0356	0.0465139
BCAS4	4023 chr20	48839901	48845685	0.0465503	chr20:0488	0.0465503
GALNT14	4024 chr2	31212164	31220558	0.0465544	chr2:03121	0.0465544
DLG4	4025 chr17	7058583	7063760	0.0465588	chr17:0070	0.0465588
SAFB	4029 chr19	5574145	5578974	0.046567	chr19:0055	0.046567
BAI1	4034 chr8	143537307	143544775	0.0466217	chr8:14354	0.0466217
ALS2CR2	4037 chr2	202024703	202029728	0.0466325	chr2:20202	0.0466325
RBL2	4043 chr16	52021366	52028457	0.0466428	chr16:0520	0.0466428
RANGNRF	4053 chr17	8131889	8134137	0.0466871	chr17:0081	0.0466871
SMPDL3B	4056 chr1	28129416	28158058	0.0467136	chr1:02815	0.0467136
KCNG3	4057 chr2	42571721	42578948	0.0467282	chr2:04257	0.0467282
TP73	4065 chr1	3559184	3591255	0.0467709	chr1:00358	0.0467709
SOX5	4066 chr12	23991389	24612164	0.0467714	chr12:0246	0.0467714
OXSRI	4067 chr3	38179424	38184593	0.0467776	chr3:03818	0.0467776
ZMYM6	4071 chr1	35268217	35270261	0.0467844	chr1:03527	0.0467844
CLTCL1	4072 chr22	17657242	17662973	0.046787	chr22:0176	0.046787
HYOU1	4076 chr11	118429804	118433600	0.046794	chr11:1184	0.046794
SLC37A4	4093 chr11	118402904	118408060	0.0468586	chr11:1184	0.0468586
CXorf57	4096 chrX	105737242	105744068	0.0468675	chrX:10574	0.0468675
HMG20B	4118 chr19	3519061	3527962	0.0469937	chr19:0035	0.0469937
RRBP1	4125 chr20	17586845	17615748	0.0470315	chr20:0176	0.0470315
PRKCDBP	4129 chr11	6296109	6303755	0.0470427	chr11:0062	0.0470427
JAKMIP1	4133 chr4	6250612	6257828	0.0470621	chr4:00625	0.0470621
FIBP	4143 chr11	65408967	65412595	0.0470988	chr11:0654	0.0470988
FKBP7	4144 chr2	179048834	179051575	0.0471007	chr2:17905	0.0471007
LOXL1	4150 chr15	72000819	72008627	0.0471216	chr15:0720	0.0471216
PARD6G	4156 chr18	76103928	76111908	0.0471488	chr18:0761	0.0471488
ZNF274	4162 chr19	63381087	63389429	0.0471662	chr19:0633	0.0471662
ARD1A	4163 chrX	152848557	152853937	0.0471748	chrX:15284	0.0471748
ZFP28	4165 chr19	61737949	61743235	0.0471928	chr19:0617	0.0471928

NUPL1	4170 chr13	24769687	24776182	0.0472536	chr13:02471	0.0472536
POM121	4174 chr7	72031599	72036258	0.0472655	chr7:072031	0.0472655
C11orf31	4178 chr11	57265145	57268004	0.0472928	chr11:05726	0.0472928
DSC3	4181 chr18	26874396	26882060	0.0473086	chr18:02687	0.0473086
CDON	4182 chr11	125435951	125442668	0.0473092	chr11:12543	0.0473092
LGI3	4200 chr8	22060350	22070232	0.0474015	chr8:022060	0.0474015
NDUFA13	4201 chr19	19487670	19500020	0.0474023	chr19:01948	0.0474023
MCM6	4211 chr2	136313934	136353769	0.0474775	chr2:136350	0.0474775
ATP1A1	4215 chr1	116712366	116720088	0.0475059	chr1:116711	0.0475059
AUP1	4217 chr2	74610082	74613324	0.0475129	chr2:074610	0.0475129
XKR5	4221 chr8	6678826	6685991	0.047532	chr8:006678	0.047532
TSEN54	4225 chr17	71024310	71032378	0.0475477	chr17:07102	0.0475477
GPATCH8	4227 chr17	39934364	39941041	0.0475512	chr17:03993	0.0475512
GBE1	4254 chr3	81891143	81898224	0.0476779	chr3:081891	0.0476779
IER3	4264 chr6	30818949	30825711	0.0477317	chr6:030820	0.0477317
ISG15	4266 chr1	935853	939763	0.0477385	chr1:000935	0.0477385
PAX1	4275 chr20	21629195	21637601	0.0478022	chr20:02162	0.0478022
ZNF497	4277 chr19	63557842	63571390	0.0478143	chr19:06355	0.0478143
TSSK1	4281 chr5	112796424	112803226	0.047836	chr5:112797	0.047836
SEPT2	4290 chr2	241900286	241940783	0.0478897	chr2:241900	0.0478897
CACNG3	4305 chr16	24169567	24177927	0.0479529	chr16:02417	0.0479529
GNG10	4309 chr9	113458614	113465839	0.0479649	chr9:113464	0.0479649
CHRNA1	4325 chr17	7289135	7291605	0.0480355	chr17:00728	0.0480355
CDH23	4329 chr10	72821903	72829231	0.0480811	chr10:07282	0.0480811
SLC25A36	4332 chr3	142143271	142146059	0.0481041	chr3:142143	0.0481041
CAPN11	4333 chr6	44231330	44236455	0.0481091	chr6:044231	0.0481091
CD46	4341 chr1	205988752	205994554	0.0481422	chr1:205992	0.0481422
MPO	4355 chr17	53710661	53718566	0.0482067	chr17:05371	0.0482067
RERG	4366 chr12	15263607	15270134	0.0482648	chr12:01526	0.0482648
C3orf18	4369 chr3	50576566	50580144	0.0482687	chr3:050576	0.0482687
TRAPPC2L	4376 chr16	87451145	87455221	0.0483381	chr16:08745	0.0483381
SYT10	4391 chr12	33481417	33489506	0.0484292	chr12:03348	0.0484292
FBXO28	4392 chr1	222363477	222370832	0.0484299	chr1:222363	0.0484299
BRI3BP	4399 chr12	124044211	124046360	0.048467	chr12:12404	0.048467
TAF7L	4400 chrX	100432363	100439818	0.0484705	chrX:100432	0.0484705
IFT20	4402 chr17	23681576	23686450	0.0484782	chr17:02368	0.0484782
KCNC1	4414 chr11	17709155	17716631	0.0485474	chr11:01771	0.0485474
C7orf49	4423 chr7	134501653	134506466	0.0485912	chr7:134501	0.0485912
PTPRCAP	4433 chr11	66959538	66961939	0.0486774	chr11:06695	0.0486774
RBM35A	4437 chr8	95717123	95724857	0.0486912	chr8:095722	0.0486912
CNFN	4445 chr19	47584698	47591718	0.0487214	chr19:04758	0.0487214
C14orf39	4450 chr14	60019587	60027513	0.0487474	chr14:06002	0.0487474
TNFSF11	4459 chr13	42038433	42048827	0.0487718	chr13:04203	0.0487718
LPL	4461 chr8	19838145	19843751	0.0487944	chr8:019838	0.0487944
ZNF508	4462 chr18	75963678	75970104	0.0487971	chr18:07596	0.0487971
FLJ31818	4464 chr7	112364601	112372575	0.0488071	chr7:112364	0.0488071
CDCA4	4467 chr14	104556534	104563657	0.0488364	chr14:10455	0.0488364
SPESP1	4471 chr15	67009944	67012498	0.048856	chr15:06700	0.048856
XK	4474 chrX	37424516	37432182	0.0488582	chrX:037432	0.0488582
SMAP1	4480 chr6	71429231	71436878	0.0488854	chr6:071432	0.0488854
EIF4E	4491 chr4	100066990	100075043	0.0489153	chr4:100066	0.0489153
ZBP2	4497 chr17	35278129	35280653	0.0489699	chr17:03527	0.0489699
PROK2	4498 chr3	71914427	71921716	0.0489729	chr3:071914	0.0489729
MCM8	4502 chr20	5879322	5884369	0.0489898	chr20:00587	0.0489898
PHLDA2	4503 chr11	2904815	2912727	0.0489984	chr11:00290	0.0489984
ANKRD43	4505 chr5	132171791	132180278	0.049005	chr5:132171	0.049005
SLC4A10	4508 chr2	162183967	162191715	0.0490283	chr2:162190	0.0490283
C1QL3	4528 chr10	16600702	16609463	0.049141	chr10:01660	0.049141

PCNX	4531	chr14	70438893	70446226	0.0491584	chr14:0704	0.0491584
NDUFB2	4534	chr7	140041577	140045505	0.0491622	chr7:14004	0.0491622
PMM2	4539	chr16	8799188	8804256	0.0491818	chr16:0087	0.0491818
ZFYVE27	4546	chr10	99481616	99488839	0.049204	chr10:0994	0.049204
NASP	4556	chr1	45820366	45824361	0.0492878	chr1:04582	0.0492878
IL4I1	4560	chr19	55089433	55097079	0.0493063	chr19:0550	0.0493063
OVOL1	4562	chr11	65311209	65313881	0.0493248	chr11:0653	0.0493248
C1orf118	4564	chr1	78126102	78132631	0.0493277	chr1:07812	0.0493277
BTBD6	4574	chr14	104786093	104788201	0.0493626	chr14:1047	0.0493626
ACRBP	4575	chr12	6617493	6627761	0.0493669	chr12:0066	0.0493669
MYH9	4577	chr22	35073394	35118120	0.0493722	chr22:0351	0.0493722
B3GAT2	4579	chr6	71720402	71728904	0.0493945	chr6:07172	0.0493945
DSCR9	4582	chr21	37497423	37515952	0.0494239	chr21:0375	0.0494239
ADORA1	4597	chr1	201359184	201366620	0.0495128	chr1:20136	0.0495128
CKAP2	4605	chr13	51927630	51929659	0.0495588	chr13:0519	0.0495588
INPP4A	4608	chr2	98425813	98430330	0.0495672	chr2:09842	0.0495672
FAM105B	4609	chr5	14717182	14734239	0.0495698	chr5:01471	0.0495698
TMED8	4618	chr14	76908288	76913102	0.0496137	chr14:0769	0.0496137
FBLN5	4619	chr14	91481526	91489182	0.049622	chr14:0914	0.049622
PTPN2	4626	chr18	12871911	12879677	0.0496417	chr18:0128	0.0496417
TFPI2	4631	chr7	93355413	93363449	0.0496588	chr7:09335	0.0496588
HLA-E	4640	chr6	30560371	30566828	0.0497189	chr6:03056	0.0497189
SLCO4C1	4645	chr5	101658008	101663783	0.0497474	chr5:10165	0.0497474
RAB4A	4647	chr1	227471026	227475822	0.0497528	chr1:22747	0.0497528
IGFALS	4650	chr16	1781134	1785754	0.0497616	chr16:0017	0.0497616
MTMR2	4655	chr11	95294252	95302471	0.0497993	chr11:0952	0.0497993
WDR79	4659	chr17	7532506	7547569	0.0498156	chr17:0075	0.0498156
CIB1	4663	chr15	88575609	88578181	0.0498365	chr15:0885	0.0498365
C15orf2	4665	chr15	22467617	22474442	0.0498482	chr15:0224	0.0498482
CALCB	4667	chr11	15048742	15054089	0.0498616	chr11:0150	0.0498616
EIF5B	4668	chr2	99320266	99324407	0.0498645	chr2:09932	0.0498645
C9orf66	4671	chr9	202976	211257	0.0498786	chr9:00020	0.0498786
PDE6G	4674	chr17	77231630	77242392	0.0499122	chr17:0772	0.0499122
PRDM8	4678	chr4	81321454	81327836	0.0499433	chr4:08132	0.0499433
MRPS26	4682	chr20	2974372	2977142	0.049971	chr20:0029	0.049971
POPDC3	4687	chr6	105714157	105737213	0.0499855	chr6:10573	0.0499855

HPSE- bound genes (3'-transcribe region)

NS subset (1 gene)

Gene	Rank (Hep-I)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
C20orf55	4796	chr20	759936	775960	0.042589	chr20:0007	0.042589

HPSE- bound genes (3'-transcribe region)

NS and ST subset (27 genes)

Gene	Rank (Hep-I)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
PRKACG	230	chr9	70816672	70823985	0.0219123	chr9:07081	0.0219123
CSF2	416	chr5	131432127	131439910	0.0244134	chr5:13143	0.0244134
H1FX	457	chr3	130514329	130517453	0.024832	chr3:13051	0.024832
MRPS2	585	chr9	137532369	137538898	0.0262781	chr9:13753	0.0262781
SMPD2	745	chr6	109868778	109871909	0.027653	chr6:10987	0.027653
SLC34A1	844	chr5	176738736	176759024	0.0284824	chr5:17675	0.0284824
CLDN4	916	chr7	72878316	72885889	0.0290512	chr7:07288	0.0290512
PFN3	970	chr5	176759149	176761683	0.0295863	chr5:17675	0.0295863
U83	1077	chr6	31603996	31616762	0.0303325	chr6:03160	0.0303325
LENEP	1247	chr1	153232219	153243417	0.0314431	chr1:15323	0.0314431
GSH1	1279	chr13	27259651	27267246	0.0316613	chr13:0272	0.0316613
hsa-mir-339	1627	chr7	1026744	1034601	0.0340398	chr7:00102	0.0340398
MRPL36	1814	chr5	1849656	1852905	0.035146	chr5:00185	0.035146
SCAMP2	1919	chr15	72920147	72955954	0.0356812	chr15:0729	0.0356812

C17orf68	2241 chr17	8065106	8092032	0.0374817	chr17:00806	0.0374817
IFITM1	2282 chr11	302284	306519	0.0376952	chr11:00030	0.0376952
hsa-mir-182	2529 chr7	129195256	129201533	0.0388747	chr7:129196	0.0388747
COMTD1	2686 chr10	76663241	76670399	0.0397659	chr10:07666	0.0397659
POU3F3	2864 chr2	104833131	104840817	0.0406207	chr2:104840	0.0406207
DNAJC18	3053 chr5	138765266	138808109	0.0415395	chr5:138767	0.0415395
PLAGL2	3353 chr20	30239362	30259110	0.0430839	chr20:03024	0.0430839
hsa-mir-150	3420 chr19	54695518	54697818	0.0434031	chr19:05469	0.0434031
hsa-mir-296	3488 chr20	56823849	56831559	0.0437326	chr20:05682	0.0437326
STRA13	4033 chr17	77569269	77574080	0.0466038	chr17:07756	0.0466038
C19orf23	4090 chr19	1215697	1224093	0.0468477	chr19:00121	0.0468477
hsa-mir-210	4405 chr11	556147	558141	0.0484899	chr11:00055	0.0484899
ANKRD9	4616 chr14	102041472	102051331	0.0496015	chr14:10204	0.0496015

HPSE- bound genes (3'-transcribe region)

ST subset (6 genes)

Gene	Rank (Hep-2)	Chromosome	Start	End	Min P(Xbar)	Probe	P(Xbar)
B3GALT6	3435	chr1	1157693	1162786	0.0434682	chr1:001160	0.0434682
IFNA5	3461	chr9	21293176	21300727	0.043596	chr9:021294	0.043596
POU3F4	3606	chrX	82644494	82652390	0.0443684	chrX:082655	0.0443684
ZNF524	3611	chr19	60803651	60808110	0.0443871	chr19:06080	0.0443871
NUDT16L1	3981	chr16	4681176	4686190	0.0463318	chr16:00468	0.0463318
AVP	4237	chr20	3011034	3016978	0.0476023	chr20:00301	0.0476023

Normalized I	Normalized I	Type	transcript int	Normalized I	Normalized I	Rank (P2-NS_R1R2)
1.6946661	3.2370196	PROMOTER	349.1784			
2.0455458	4.12829424	PROMOTER	931.9619	2.3510373	5.10190947	453
1.5985998	3.02849242	PROMOTER	102.4286	1.5807912	2.99133855	3664
1.6431262	3.12341918	PROMOTER		1.4916544	2.81211267	1946
1.6007885	3.03309041	PROMOTER	477.5922	2.18063	4.53351482	44
1.9508412	3.86599883	PROMOTER		2.1356945	4.39448621	403
1.960222	3.89121852	PROMOTER		2.2489474	4.75335911	4646
1.7478212	3.35850971	PROMOTER				
1.5877273	3.00575475	PROMOTER	2981.618			
1.6824327	3.20968719	PROMOTER		1.6864398	3.21861452	4138
1.6899939	3.22655339	PROMOTER				
1.806977	3.49908328	PROMOTER	192.2641	1.7508575	3.36558548	2029
1.6733087	3.18945229	PROMOTER	955.4666	1.5921743	3.01503406	5149
1.6078209	3.04791126	PROMOTER		1.427658	2.69009664	333
1.7093471	3.27012798	PROMOTER		1.7664446	3.40214493	3652
1.6172404	3.06787648	PROMOTER	504.4035	1.7010162	3.25129892	132
1.6945639	3.2367903	PROMOTER	619.0972	1.8440356	3.59012879	335
1.8962046	3.72232649	PROMOTER	1887.499	1.896014	3.72183475	436
1.7743663	3.42087716	PROMOTER	221.7472			
1.7912664	3.46118583	PROMOTER	250.6388	1.5111104	2.85029333	2397
2.0833395	4.23787049	PROMOTER	646.2028	2.0286946	4.08035479	1259
1.5986325	3.02856106	DIVERGENT_PROMOTI		2.2037764	4.60683651	3865
1.837827	3.57471196	PROMOTER	468.7692			
1.6853172	3.216111	PROMOTER		1.153844	2.22505963	5331
1.5962083	3.02347636	PROMOTER	141.1145			
1.7209972	3.29664194	PROMOTER	101.0022	1.735053	3.32891723	4046
1.624652	3.08367773	PROMOTER		2.229702	4.69037086	3203
1.6718808	3.18629711	PROMOTER	531.2459	1.7678	3.40534272	911
1.870776	3.65729246	PROMOTER	290.1844			
1.8226057	3.53719487	PROMOTER	152.1383	1.087919	2.125672	5986
1.7518294	3.36785354	PROMOTER	304.9474	0.93507755	1.91199341	4736
1.7914807	3.46169999	PROMOTER		1.9507732	3.86581661	4220
1.641076	3.11898367	PROMOTER		1.5661501	2.96113466	5191
2.0271864	4.07609139	PROMOTER	976.2021	1.2476641	2.3745664	356
1.7613813	3.39022565	PROMOTER	392.7919	1.5753615	2.98010156	5237
1.8816087	3.68485717	PROMOTER	180.688			
1.6013572	3.03428626	PROMOTER	212.4596	2.022684	4.06339045	2301
1.8259119	3.54531029	PROMOTER				
1.5939357	3.01871739	PROMOTER	11049.93	1.7809942	3.4366292	3813
1.6597928	3.15971142	PROMOTER	107.8632	1.2155949	2.32236527	3186
1.6022013	3.0360621	PROMOTER	343.8329	0.9931815	1.99056985	1847
1.8096899	3.50566928	DIVERGENT_PROMOTI		0.89160764	1.85524233	4078
2.205326	4.61178738	PROMOTER	196.2928	1.4165976	2.6695519	4849
1.7898233	3.4577254	DIVERGENT_PROMOTI		1.2690129	2.40996618	2088
1.7096217	3.27075047	PROMOTER	1532.474	1.3223574	2.50074404	2252
1.7625412	3.39295242	PROMOTER	1320.521	1.9555236	3.87856667	1353
1.7167363	3.2869199	PROMOTER		2.0177205	4.04943464	2847
1.6104373	3.05344382	PROMOTER	254.1528			
1.7465773	3.35561523	PROMOTER	165.0192	2.277281	4.84763474	2138
1.7264397	3.30910186	PROMOTER	1146.613			
1.6268333	3.08834366	DIVERGENT_PROMOTI		1.4164749	2.66932487	2590
1.6913123	3.22950331	DIVERGENT_PROMOTI		2.1887374	4.55906317	5794
1.6216697	3.07730982	PROMOTER	116.6261	1.4374722	2.7084589	6217
1.7050593	3.26042334	PROMOTER	195.9528	0.9130657	1.88304268	5839
1.6292021	3.09341866	PROMOTER	307.0241	1.506172	2.84055335	4248

1.9712881	3.92118063	PROMOTER	427.0619				
1.6374259	3.11110244	PROMOTER	343.6555				
1.5904144	3.01135835	PROMOTER	1368.956	1.4862663	2.80162973		4177
1.637516	3.11129674	PROMOTER	436.7325	1.8853652	3.69446433		3590
1.9360845	3.82665676	DIVERGENT_PROMOTEI		2.4028814	5.28858364		2149
1.6139565	3.06090125	PROMOTER	151.4697				
1.9182503	3.77964386	PROMOTER					
1.6901294	3.22685645	DIVERGENT_PROMOTER					
1.6589174	3.15779475	PROMOTER	516.0404	1.705497	3.26141267		533
1.7141278	3.28098228	PROMOTER	166.8988				
1.6181657	3.06984476	PROMOTER					
1.7599277	3.38681152	PROMOTER		1.9840357	3.95598156		855
1.6503581	3.13911547	PROMOTER					
1.8347766	3.56716166	PROMOTER	312.4221	0.7349208	1.6643061		3593
1.6473029	3.13247479	PROMOTER	899.4793	1.3600994	2.56702865		2946
1.9766387	3.93575032	PROMOTER	2112.34				
1.6802591	3.20485503	PROMOTER		1.3990449	2.63726931		6090

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Normalized	Normalized	Type	transcript in	Normalized	Normalized	Rank (P2-12H_R1R2)
3.2446012	9.4781218	PROMOTEI	372.4899	2.244804	4.7397271	368
2.24925	4.7543562	PROMOTEI	147.2939	1.7255064	3.3069618	304
2.0089388	4.0248606	PROMOTER		1.8470445	3.5976242	1821
2.1724944	4.5080215	PROMOTER		1.901363	3.7356596	607
2.627991	6.1816458	PROMOTEI	100.2909	1.7741791	3.4204333	2137
2.116326	4.3358835	PROMOTEI	805.6806	2.1911242	4.5666119	95
2.4647837	5.5204417	PROMOTEI	674.3422	1.5212623	2.8704209	916
2.11264	4.3248197	PROMOTEI	509.4315	1.6530952	3.1450767	634
2.6951475	6.4761998	PROMOTER		2.2038252	4.6069923	625
3.7420719	13.380609	PROMOTEI	1042.168	2.1819804	4.5377603	423
2.6443691	6.2522224	PROMOTER		1.9254575	3.7985729	149
2.3601732	5.1343199	DIVERGENT_PROMOT		1.9217023	3.7886984	507
2.340503	5.0647919	PROMOTEI	104.7124	1.7331454	3.3245185	3440
2.3715134	5.1748369	PROMOTEI	179.0851	1.9026538	3.7390034	618
2.313937	4.9723815	PROMOTER		2.0388584	4.1092024	565
2.7114604	6.5498433	PROMOTEI	1387.445	1.9261808	3.8004778	2500
2.0403912	4.1135706	PROMOTER		1.9240566	3.7948861	1068
2.6251104	6.1693154	PROMOTEI	497.4486	1.81663	3.522574	338
2.4132771	5.3268295	PROMOTEI	512.6608	1.8658172	3.6447433	1049
2.2644248	4.8046282	PROMOTEI	1293.835	1.8263656	3.5464254	3118
2.2597637	4.7891303	PROMOTEI	495.9976			
2.2199736	4.6588491	PROMOTER		1.2889713	2.4435376	3603
2.4043584	5.2940008	PROMOTEI	146.3796	1.945968	3.8529621	1553
2.541332	5.8212622	PROMOTER		2.3342626	5.0429314	435
2.6727724	6.3765338	PROMOTEI	295.4451	2.851236	7.2161834	209
3.047422	8.267333	PROMOTER		1.7252098	3.306282	5482
2.372312	5.1777022	PROMOTER		1.6168283	3.0670003	587
2.017411	4.048566	PROMOTEI	114.5603	1.6012695	3.0341018	3227
1.8056784	3.4959351	PROMOTEI	169.6603	1.662888	3.1664976	325
2.7167711	6.5739984	PROMOTEI	323.284	1.8312038	3.5583386	1654
2.4373403	5.4164226	PROMOTEI	743.0607	1.8135802	3.5151352	1136
1.9889077	3.9693635	PROMOTER		2.3176744	4.9852795	100
2.2393265	4.7217658	PROMOTEI	207.7432	1.752988	3.3705593	849
2.0224416	4.0627078	PROMOTEI	291.2479	1.8284483	3.5515488	246
1.9285192	3.8066428	PROMOTEI	386.0517	1.8607962	3.6320806	1123
2.0182962	4.0510509	PROMOTER		2.4357758	5.410552	543
1.6594065	3.1588655	PROMOTEI	554.6144	1.4150869	2.666758	2295

3.075324	8.428781	PROMOTEI	562.1805	2.332065	5.0352556	546
2.3359962	5.0489948	PROMOTER		1.8140274	3.516225	1410
2.6158063	6.1296568	PROMOTEI	131.6599	2.1228356	4.3554917	2292
1.8644327	3.6412472	PROMOTER		1.6345619	3.1049325	1229
2.315633	4.9782304	PROMOTEI	603.39	1.1742498	2.256755	5270
1.934772	3.823177	PROMOTER		1.64766	3.1332502	509
1.9794965	3.9435543	PROMOTEI	146.997	2.047102	4.1327497	1020
2.4265373	5.3760155	PROMOTEI	1602.095	2.0291908	4.0817584	448
2.3336878	5.0409226	PROMOTER		1.9404097	3.8381463	238
2.097031	4.2782803	PROMOTEI	500.6469	1.8079165	3.5013627	343
1.8301169	3.5556588	DIVERGENT_PROMOT		1.5244334	2.8767371	4190
2.1909518	4.5660663	PROMOTEI	198.9119	1.9167603	3.7757423	1085
2.0300522	4.0841963	PROMOTER		2.06461	4.1832088	892
2.3713174	5.1741339	DIVERGENT_PROMOT		2.0627394	4.1777883	404
1.8803082	3.681537	PROMOTER		1.751397	3.3668443	3801
2.558505	5.8909692	PROMOTEI	3983.539	1.7049142	3.2600954	600
2.2193787	4.6569284	PROMOTER		1.5229189	2.8737188	941
1.9163419	3.7746474	PROMOTER		2.340314	5.0641285	323
1.9649805	3.9040743	PROMOTER		1.8373712	3.5735828	1361
2.0247102	4.0691013	PROMOTER		1.2001958	2.2977085	2963
2.9380183	7.663579	PROMOTER		2.2374718	4.7156995	1324
2.4561818	5.4876246	PROMOTEI	756.826	1.4408864	2.7148762	469
2.2896063	4.8892267	PROMOTER		1.9785426	3.9409477	900
2.144018	4.4199131	PROMOTEI	277.3046	1.5687383	2.9664517	3589
2.1206827	4.348997	PROMOTEI	263.4749	2.0687768	4.1953082	789
2.4987078	5.6517898	PROMOTER		1.7244707	3.3045887	1076
2.004055	4.0112587	PROMOTER		1.5622185	2.953076	511
2.5504315	5.8580946	PROMOTEI	130.9934	2.1653726	4.4858227	189
2.28037	4.8580253	PROMOTEI	198.5816	2.5902731	6.0221269	175
2.2343612	4.705543	PROMOTER		1.8702948	3.6560728	2075
2.3733118	5.1812917	PROMOTEI	328.9762	1.5672139	2.9633189	418
2.3550174	5.116004	DIVERGENT_PROMOT		2.599225	6.0596102	13
2.5058062	5.6796664	PROMOTER		1.9148661	3.7707882	473
1.7131184	3.2786875	PROMOTEI	1178.008	1.7630281	3.3940977	2557
1.9767227	3.9359795	PROMOTEI	235.1872	1.4570664	2.7454952	3151
2.167831	4.4934732	PROMOTEI	180.927	2.015335	4.0427444	1513
2.7581565	6.7653121	PROMOTER				
2.062929	4.1783374	PROMOTER		1.8328574	3.5624195	1353
2.0110896	4.0308654	PROMOTER		1.5392938	2.9065219	1155
2.9771042	7.8740409	PROMOTER		2.0089793	4.0249735	956
2.12894	4.3739599	PROMOTER		1.3025734	2.4666848	1871
2.9035594	7.4827024	PROMOTEI	149.0201	1.7166988	3.2868345	2068
1.7904893	3.459322	PROMOTER		1.4379878	2.709427	780
2.1271434	4.3685164	PROMOTER				
2.5091271	5.6927553	PROMOTER		1.5184153	2.864762	802
2.0984795	4.2825779	PROMOTEI	216.3963	1.6603135	3.160852	308
2.6746807	6.3849738	PROMOTEI	264.097	1.6186844	3.0709487	4451
2.0836737	4.2388523	PROMOTER		2.0212474	4.0593462	415
2.215818	4.6454489	DIVERGENT_PROMOT		1.8653946	3.6436758	879
2.254612	4.7720594	PROMOTER		1.4295784	2.6936799	5324
1.9549575	3.8770451	DIVERGENT_PROMOT		1.3830311	2.6081577	2175
2.3203259	4.9944503	PROMOTER		1.8196267	3.5298985	2057
2.5040348	5.672697	DIVERGENT_PROMOT		2.2830372	4.8670149	3449
2.1560745	4.4570048	PROMOTEI	268.3294	1.561164	2.9509183	1545
2.1685083	4.4955832	PROMOTEI	1447.156	1.5275209	2.8829002	1250
2.3027368	4.9339285	PROMOTER		1.4705979	2.7713672	2111
2.4377832	5.4180856	PROMOTEI	139.5905	2.0581732	4.1645863	4307
1.6482673	3.1345695	PROMOTER		1.5088869	2.8459038	4884

2.1807196	4.5337964	PROMOTEI	219.8032	1.4572767	2.7458955	2692
1.9251148	3.7976707	PROMOTER		1.5962154	3.0234912	1500
1.7435778	3.3486458	PROMOTEI	108.5363	1.3703412	2.585317	2460
2.6059072	6.0877419	PROMOTER		1.505103	2.8384494	1854
2.0897396	4.2567123	PROMOTER				
2.3078513	4.9514508	PROMOTER		2.1102211	4.3175746	245
1.7593672	3.385496	PROMOTEI	2013.779	2.7928522	6.9299849	617
1.7155311	3.2841752	PROMOTEI	1216.541	1.2991444	2.460829	2750
1.8516117	3.6090314	PROMOTEI	122.4018	1.8809965	3.6832939	2443
2.0759022	4.2160799	PROMOTER		1.9013746	3.7356896	5599
2.4989908	5.6528985	PROMOTEI	620.1183			
2.1089764	4.3138512	PROMOTER		1.6515763	3.1417672	2889
2.1461396	4.4264177	PROMOTEI	226.9891	1.6084273	3.0491926	1869
1.8145854	3.5175853	PROMOTER		2.0383987	4.1078933	177
2.095512	4.2737781	PROMOTEI	652.0862	2.0779927	4.2221935	3769
2.3283575	5.0223323	PROMOTEI	268.2301	2.3014767	4.9296209	647
1.8926837	3.7132532	PROMOTEI	898.3925			
2.3978431	5.2701466	PROMOTEI	181.4809	1.8534158	3.6135474	611
2.0894089	4.2557367	PROMOTEI	127.4161	1.6768227	3.1972304	3781
1.8432889	3.5882711	PROMOTEI	382.6966	2.3941476	5.2566643	1603
2.2612133	4.7939448	PROMOTER				
2.2004645	4.596273	PROMOTEI	782.634	1.8335243	3.5640666	1335
2.0920913	4.2636568	DIVERGENT_PROMOT		1.0952482	2.1364983	592
2.0556312	4.1572549	PROMOTER		1.5491154	2.9263765	3019
2.158249	4.4637276	PROMOTEI	5441.286	1.8526706	3.6116813	1109
1.8657433	3.6445566	DIVERGENT_PROMOT		1.6151568	3.0634489	334
1.8609796	3.6325423	PROMOTEI	152.4173	1.6143249	3.061683	3667
2.2020397	4.6012942	PROMOTEI	197.5539	2.2084715	4.6218534	1226
2.2298064	4.6907103	PROMOTEI	2357.48	1.6870657	3.2200112	1379
2.0175018	4.0488208	PROMOTER		1.5416718	2.9113167	1111
2.179142	4.5288413	PROMOTEI	138.86	1.6618974	3.1643242	928
2.4822032	5.5875011	DIVERGENT_PROMOT		2.1701572	4.5007243	1419
2.065787	4.186623	PROMOTEI	416.6731	2.0406296	4.1142504	141
1.6245322	3.0834217	PROMOTER		1.9972374	3.9923478	706
1.6648673	3.1708449	PROMOTEI	4901.149	1.421155	2.6779982	3083
2.2875288	4.8821912	PROMOTER		1.9588695	3.8875723	223
2.5166318	5.7224454	PROMOTEI	472.0648	1.7200383	3.2944515	948
2.817624	7.0500036	PROMOTER		1.6884221	3.22304	4024
2.3619335	5.1405884	PROMOTER		1.6497023	3.1376889	1646
2.0261106	4.073053	PROMOTER		1.4786249	2.7868298	2329
1.9391104	3.8346912	PROMOTEI	3583.389	1.994715	3.9853737	450
2.179365	4.5295414	PROMOTEI	1696.766	1.935549	3.8252366	500
2.07827	4.2230051	PROMOTER		1.44186	2.7167089	2803
2.537942	5.8075996	PROMOTEI	973.8746	2.0070424	4.0195734	539
2.1702523	4.501021	PROMOTEI	1149.92	1.3778803	2.5988625	2223
2.1258173	4.3645028	PROMOTER		1.5533968	2.9350738	1480
2.2497253	4.7559228	PROMOTEI	2935.546	2.247176	4.7475263	1279
1.9066759	3.749442	PROMOTEI	444.7851	1.948182	3.8588795	2378
2.02206	4.0616333	PROMOTEI	113.6103	1.9020437	3.7374226	1608
1.8931478	3.7144479	PROMOTEI	376.6185	1.2265995	2.3401476	3000
2.509885	5.6957467	PROMOTER		2.0836833	4.2388805	897
1.935264	3.8244811	PROMOTER				
2.186145	4.5508783	PROMOTEI	173.4413	2.0051248	4.0142342	551
2.077637	4.2211526	PROMOTEI	176.4863	1.4758872	2.7815465	2983
1.8575015	3.6237954	PROMOTEI	301.5748	1.2759472	2.4215775	3891
2.2892432	4.8879963	PROMOTEI	501.6616	2.256691	4.7789411	1808
2.5398488	5.8152806	PROMOTEI	333.4167	2.1551757	4.4542289	1385
2.2367632	4.7133839	PROMOTEI	288.243	2.0062385	4.0173342	1342

2.0903842	4.2586147	PROMOTEI	369.0286	1.9576155	3.8841946	957
1.8917494	3.7108493	PROMOTEI	1640.692	1.622651	3.0794037	1675
2.531921	5.7834125	PROMOTEI	181.9257			
1.7297696	3.3167485	PROMOTEI	1344.734	1.9433007	3.8458452	1908
1.669031	3.1800093	PROMOTER		2.2774093	4.8480659	1907
1.8625445	3.6364847	PROMOTER		1.5386674	2.9052602	4041
1.5940393	3.0189342	PROMOTER		1.2959498	2.4553859	3073
2.4109392	5.3182043	DIVERGENT_PROMOT		1.8477376	3.599353	1394
1.9929488	3.9804976	PROMOTEI	1211.076	1.459852	2.7508014	4089
2.2678556	4.8160675	PROMOTER		1.5069968	2.8421778	2313
2.06791	4.1927883	PROMOTER				
2.0290098	4.0812464	PROMOTEI	256.9486	1.3205358	2.4975885	2130
2.3128235	4.9685452	PROMOTEI	125.1904	1.6497856	3.13787	4539
2.6898832	6.4526117	DIVERGENT_PROMOT		1.6356105	3.1071901	3271
1.716708	3.2868554	PROMOTEI	1658.48	1.6515857	3.1417877	264
1.9051644	3.7455158	PROMOTER		1.984203	3.9564403	192
2.630941	6.1942989	PROMOTEI	163.6773	1.8508232	3.6070594	3605
2.1192303	4.3446209	PROMOTEI	244.8761	1.4351203	2.7040471	1626
2.0775888	4.2210116	PROMOTER		2.2191951	4.6563358	947
2.4880712	5.6102739	DIVERGENT_PROMOT		1.6466799	3.1311224	4172
2.2685344	4.818334	DIVERGENT_PROMOT		1.8237758	3.5400649	838
2.1902237	4.5637625	PROMOTEI	223.2497			
2.4515707	5.4701132	PROMOTEI	707.7473	1.654506	3.1481537	1636
2.1752348	4.5165926	PROMOTEI	989.2037	1.7827308	3.4407684	1549
2.344139	5.0775727	PROMOTER		1.7567878	3.3794484	3537
2.2135723	4.6382234	PROMOTEI	459.26	1.7680347	3.4058967	3136
2.4809585	5.5826825	PROMOTER		1.6482974	3.1346349	3124
2.1881933	4.5573441	PROMOTEI	966.6719	1.7845759	3.4451717	554
1.6025627	3.0368227	PROMOTEI	144.1038	1.4121169	2.6612737	2496
2.4628444	5.513026	PROMOTEI	372.3988	1.6172857	3.0679728	3766
1.6912768	3.2294238	PROMOTER		1.9342188	3.8217113	3159
1.756663	3.3791561	DIVERGENT_PROMOT		1.6184629	3.0704772	1518
2.3683653	5.1635572	DIVERGENT_PROMOT		1.8906579	3.7080428	3757
2.5473375	5.8455448	PROMOTER		1.3419669	2.5349669	2751
2.5932317	6.0344894	PROMOTEI	201.818	1.6091444	3.0507086	4940
2.2709188	4.826304	PROMOTEI	181.8903	1.8555028	3.6187785	2236
2.272556	4.8317841	PROMOTEI	238.726	1.742721	3.3466577	402
1.6955928	3.2390995	PROMOTEI	166.3498	1.8544827	3.6162206	508
2.3870065	5.230709	PROMOTEI	120.4323	2.0158143	4.0440877	844
2.1371894	4.3990421	PROMOTEI	321.658	1.648637	3.1353728	4081
2.0525794	4.1484701	PROMOTEI	189.3149	1.829316	3.5536855	636
2.0874677	4.2500143	PROMOTER		1.7744666	3.421115	1023
2.1267617	4.3673607	PROMOTER		1.0631249	2.0894524	2448
2.0888615	4.2541223	PROMOTEI	552.0788	1.6913029	3.2294823	560
1.804018	3.4919139	PROMOTEI	292.4643	1.3964494	2.632529	2531
2.0570822	4.1614382	PROMOTEI	261.6558	2.1223013	4.353879	790
1.665129	3.1714201	PROMOTEI	166.8786	1.177756	2.2622463	4936
1.779433	3.4329123	PROMOTER				
1.7729421	3.4175018	PROMOTEI	1114.894	1.4076294	2.6530087	2623
1.7286869	3.3142603	PROMOTEI	487.7001	1.1906351	2.282532	2190
2.4770052	5.5674056	PROMOTEI	331.7652			
2.0167568	4.0467306	PROMOTER		1.671989	3.1865361	2826
2.3010995	4.9283322	PROMOTEI	199.1546	1.6357889	3.1075743	2066
2.5493214	5.8535888	PROMOTEI	360.6487	2.1619039	4.4750503	531
1.913066	3.7660861	PROMOTEI	436.7241	1.6002544	3.0319677	974
1.9688483	3.914555	PROMOTER		1.666196	3.1737665	1213
1.6754664	3.194226	PROMOTEI	202.681	1.9123582	3.7642389	1067
1.9640538	3.9015673	PROMOTEI	283.9656	1.8760622	3.6707178	1098

2.0355449	4.0997755	PROMOTEI	108.3109	1.6164429	3.0661811	3751
2.3941	5.2564908	PROMOTER		1.7023778	3.2543689	2821
1.8580955	3.6252877	PROMOTEI	363.7543	1.4478409	2.7279948	696
2.1952965	4.5798378	PROMOTER				
1.8566278	3.6216015	PROMOTEI	529.8228	1.5303957	2.8886506	3381
1.9646432	3.9031616	PROMOTEI	991.4445	1.3758476	2.5952034	3637
1.8529794	3.6124545	PROMOTEI	127.1122			
2.163723	4.4806965	PROMOTEI	178.7713	1.4296153	2.6937488	2685
2.2716906	4.8288867	PROMOTEI	252.2342	2.4759798	5.56345	499
2.0116348	4.0323889	PROMOTEI	234.7794	1.4824309	2.7941915	3791
1.9784276	3.9406336	DIVERGENT_PROMOTER				
1.6840545	3.2132974	PROMOTEI	3726.071	1.7451519	3.3523015	2062
2.023671	4.0661713	PROMOTEI	102.9169	1.664378	3.1697696	2431
1.5928344	3.0164139	PROMOTER		1.5908729	3.0123155	3502
2.2898839	4.8901676	DIVERGENT_PROMOT		2.2190351	4.6558194	413
1.9509032	3.866165	PROMOTEI	308.9102	1.4987069	2.8258931	203
2.4352546	5.4085977	PROMOTEI	225.1925	2.0289893	4.0811884	3473
2.5577528	5.8878985	PROMOTEI	2314.035	2.1225595	4.3546582	521
1.9255307	3.7987656	PROMOTEI	222.0645	0.9854198	1.9798893	2764
2.2653515	4.8077154	PROMOTER		1.8245631	3.5419973	3878
2.0141773	4.0395016	PROMOTEI	143.6874	1.8554254	3.6185843	2294
1.7304926	3.318411	PROMOTER				
2.2156136	4.6447907	PROMOTEI	843.5709	1.682198	3.2091651	3280
2.276292	4.8443127	PROMOTEI	194.7737	2.0905464	4.2590935	2089
2.2030141	4.604403	PROMOTEI	108.6247	1.6234506	3.0811109	2822
1.9234511	3.7932938	PROMOTEI	1270.613	1.7566435	3.3791104	1473
1.7536075	3.3720069	PROMOTEI	382.3934	1.6564875	3.1524806	472
2.1103134	4.3178508	PROMOTEI	498.326	1.8458005	3.5945234	698
2.0598657	4.1694749	PROMOTER		1.9706272	3.9193847	3242
1.8391749	3.5780534	PROMOTEI	1099.776	1.4440737	2.7208807	3025
1.9036074	3.7414757	PROMOTER		1.7485924	3.3603055	1633
2.3348289	5.0449113	DIVERGENT_PROMOT		2.406788	5.3029237	840
2.277784	4.8493252	PROMOTEI	126.5289			
1.7118388	3.2757808	DIVERGENT_PROMOT		1.2630974	2.4001048	4031
2.193629	4.5745474	PROMOTEI	1143.589			
2.3287976	5.0238647	PROMOTEI	1913.052	1.5519778	2.9321884	1253
2.2691398	4.8203563	PROMOTER		2.1969988	4.5852449	2268
2.2383924	4.7187096	PROMOTEI	1256.333	2.0913296	4.2614063	1005
2.1825275	4.5394814	PROMOTEI	177.8335	1.4645433	2.7597609	1134
2.1065073	4.3064745	PROMOTER		1.6227336	3.07958	4844
1.9682083	3.9128188	PROMOTEI	273.3061	1.511287	2.8506423	2386
1.9382373	3.8323712	PROMOTEI	2968.167	2.3068104	4.9478796	200
1.93827	3.832458	PROMOTEI	217.5818	1.336044	2.5245811	4375
1.7579206	3.382103	PROMOTEI	335.0933	1.7126733	3.2776761	669
2.1340992	4.3896296	PROMOTEI	954.3102	1.4299107	2.6943004	2835
2.1446455	4.4218359	PROMOTEI	199.0596	1.6364803	3.109064	1501
1.7821429	3.4393666	PROMOTEI	1216.038	1.4192134	2.6743966	843
2.381033	5.2090959	PROMOTEI	349.8228	1.6994979	3.247879	1210
1.9781846	3.9399699	PROMOTEI	147.0826	1.5280788	2.8840153	2483
1.9342232	3.821723	PROMOTEI	127.341	1.5914534	3.0135279	3673
2.3723433	5.1778146	PROMOTEI	275.0907	1.9173077	3.7771752	1154
2.191852	4.5689163	PROMOTEI	305.6624	1.6130427	3.0589631	1785
2.2741995	4.8372916	PROMOTEI	215.9091	1.8538513	3.6146383	2720
1.8393613	3.5785157	PROMOTEI	217.8988	1.5196469	2.8672087	2588
2.3695624	5.1678436	PROMOTEI	585.1212	1.9026936	3.7391066	2359
2.1592357	4.4667815	PROMOTEI	178.711	1.686266	3.2182268	651
2.3907163	5.2441767	PROMOTER		2.2627556	4.7990725	324
2.245622	4.7424153	PROMOTER				

2.52901	5.7717548	PROMOTER		1.8111907	3.509318	2667
2.171687	4.5054993	PROMOTER		1.5906941	3.0119422	3747
1.7003372	3.2497691	PROMOTEI	6258.366	1.919781	3.7836562	242
2.0697114	4.1980269	PROMOTEI	1639.165			
2.1087587	4.3132003	PROMOTER		1.4999255	2.8282811	1467
2.1040683	4.2992002	PROMOTER		1.8117368	3.5106467	403
2.0589542	4.1668414	PROMOTER		1.9057878	3.7471346	3230
2.1930504	4.5727131	PROMOTER		1.6282282	3.0913311	5176
2.4754868	5.5615492	PROMOTEI	864.9915	2.0652473	4.1850571	3803
1.7560345	3.3776843	PROMOTEI	413.3716	1.9389931	3.8343794	914
1.9278314	3.8048284	PROMOTEI	203.6267			
2.1959941	4.5820529	PROMOTEI	707.666	1.5771707	2.9838411	4326
1.7139641	3.28061	PROMOTEI	132.0355	1.6120569	3.0568736	540
1.6861794	3.2180336	PROMOTEI	112.8122	1.2266868	2.3402892	5047
2.4631987	5.51438	PROMOTER				
2.0261552	4.073179	PROMOTEI	2575.444	1.936159	3.8268544	2946
1.9269931	3.8026182	PROMOTEI	127.9797	1.223885	2.3357486	3851
1.9344305	3.8222721	PROMOTEI	154.8084	1.145752	2.2126143	2841
2.1729221	4.5093582	PROMOTEI	297.8694	1.4715995	2.773292	5570
2.188765	4.5591504	PROMOTEI	851.0921	1.4636633	2.7580781	3672
2.2722285	4.8306874	PROMOTEI	13488.31	1.8959414	3.7216475	2877
2.8497946	7.2089773	PROMOTEI	76.9155	1.3566988	2.560985	4416
2.0708969	4.2014779	PROMOTEI	860.8332	2.0554833	4.1568287	358
2.193446	4.5739671	PROMOTEI	295.1817	2.1190803	4.3441692	880
1.9223348	3.7903598	PROMOTEI	274.4572	1.986533	3.9628353	1062
2.254632	4.7721256	PROMOTER		1.7201377	3.2946785	1141
1.9107524	3.7600514	PROMOTEI	192.0076	1.5629681	2.9546108	3622
1.8074282	3.5001778	PROMOTEI	223.9659			
1.9831808	3.953638	PROMOTEI	155.1674	1.6795541	3.2032893	1336
1.8131156	3.5140034	PROMOTEI	240.6488	1.8618517	3.6347388	2079
1.7941998	3.4682305	PROMOTEI	103.7495			
2.031921	4.0894902	PROMOTEI	138.19	1.7128239	3.2780183	2509
2.2429957	4.73379	PROMOTER				
1.6010938	3.0337323	PROMOTEI	320.0715	1.3602674	2.5673276	3555
2.0498703	4.1406874	PROMOTEI	251.6095			
2.0150945	4.0420705	PROMOTEI	588.8972	1.5809469	2.9916614	3482
2.1061118	4.3052941	PROMOTEI	143.5876	1.923363	3.7930621	1378
2.4373734	5.4165469	PROMOTEI	348.2357	2.02967	4.0831144	397
1.7347952	3.3283224	PROMOTER		1.3535287	2.5553638	2770
1.9983925	3.9955455	PROMOTEI	280.5894	1.8948258	3.7187707	981
2.4113295	5.3196433	PROMOTEI	165.8085	1.8327447	3.5621412	2659
2.4039721	5.2925834	PROMOTER		2.0530076	4.1497016	446
2.3049183	4.9413947	PROMOTEI	4656.197	2.3500788	5.098521	60
2.3713758	5.1743434	PROMOTEI	2939.857	1.8957505	3.721155	2525
1.7310016	3.319582	PROMOTEI	171.3057	1.7548721	3.374964	1110
1.9819922	3.9503821	PROMOTEI	258.9309	2.0500195	4.1411157	1565
1.5962801	3.0236268	PROMOTEI	127.2222	1.7546133	3.3743586	2528
2.5763955	5.9644764	PROMOTER		1.2868934	2.4400207	5567
1.9734364	3.927024	PROMOTEI	336.7737	1.3813758	2.6051669	1243
1.9941695	3.983867	PROMOTEI	112.3844	1.6958103	3.2395879	1293
2.1947064	4.5779649	PROMOTEI	1948.762	2.0986993	4.2832304	257
1.9341487	3.8215256	PROMOTEI	217.7913	1.1730446	2.2548705	3196
1.7111374	3.2741885	DIVERGENT_PROMOT		1.2666682	2.4060526	4153
2.259046	4.7867485	PROMOTER		1.4462162	2.7249244	590
1.7960513	3.4726844	PROMOTER		1.2254666	2.3383106	2987
1.6378238	3.1119606	PROMOTER		1.5750128	2.9793814	3501
1.6968248	3.2418668	PROMOTEI	131.2019	1.529382	2.8866216	4764
2.2576895	4.7822498	PROMOTER		1.7588077	3.3841833	3564

2.1085198	4.3124861	PROMOTEI	173.0345	1.6519648	3.1426134	3414
2.0724335	4.2059552	PROMOTEI	412.7881	1.6250176	3.0844593	4173
2.2137346	4.6387452	PROMOTER		1.4383307	2.7100711	3974
2.302209	4.9321238	PROMOTER		1.610852	3.0543216	4409
1.8854921	3.6947893	PROMOTEI	188.8511	1.2723289	2.4155118	3964
2.5222235	5.7446679	PROMOTEI	1663.806	2.1376493	4.4004446	680
2.3656268	5.1537652	PROMOTER		0.9086112	1.8772376	3616
1.7880198	3.4534056	PROMOTER		1.6025336	3.0367615	1423
2.5755663	5.9610493	PROMOTEI	1263.551	1.871605	3.6593946	2208
2.0588162	4.1664429	PROMOTEI	1160.359	1.4131464	2.6631735	5410
1.800735	3.4839768	PROMOTEI	159.1432	1.7356906	3.3303888	1628
2.7738192	6.8391603	PROMOTEI	186.5042	1.6730691	3.1889226	2786
2.067793	4.1924483	PROMOTER		1.5947553	3.0204328	236
2.2563975	4.777969	PROMOTEI	110.9807	2.0769958	4.219277	1195
2.3824015	5.2140395	PROMOTEI	830.9446	1.8302577	3.5560059	701
1.8733019	3.6637013	PROMOTEI	130.7865	1.7638677	3.3960735	1460
2.1205308	4.3485391	PROMOTEI	815.5103	1.6011555	3.0338621	3293
2.0946703	4.2712854	PROMOTER		1.2016029	2.2999506	3456
2.14372	4.4190002	PROMOTEI	870.1777	1.5794513	2.9885616	1145
2.3639016	5.1476059	PROMOTEI	157.1127			
2.0173059	4.0482711	PROMOTEI	265.7877	1.5776769	2.9848882	2464
2.046362	4.1306305	PROMOTEI	182.9944	1.9297782	3.8099662	3366
2.3058057	4.9444351	PROMOTEI	280.1201	1.3676068	2.5804216	2414
2.0068629	4.0190733	PROMOTEI	426.1135	1.5242604	2.8763922	1568
1.7190093	3.2921026	PROMOTEI	213.7038	1.1154348	2.166603	4111
1.7905983	3.4595834	PROMOTEI	136.639	1.6687429	3.1793744	4440
1.8589746	3.6274974	DIVERGENT_PROMOT		1.8120309	3.5113624	3191
2.680262	6.4097229	PROMOTER		1.7429413	3.3471688	3060
1.8643342	3.6409986	PROMOTEI	97.3726	1.4211025	2.6779008	4286
2.0351171	4.0985599	DIVERGENT_PROMOT		1.6384951	3.113409	1373
2.0212615	4.0593859	PROMOTEI	196.2072	1.9029328	3.7397266	2140
2.7951899	6.9412231	PROMOTER		1.6719979	3.1865557	1054
1.894605	3.7182016	PROMOTEI	4040.948	2.080764	4.2303118	359
2.1229873	4.3559497	DIVERGENT_PROMOTER				
2.4017723	5.2845195	PROMOTEI	197.3252	2.20256	4.6029539	1289
2.3515983	5.1038938	PROMOTER		1.7223264	3.2996806	642
2.3918312	5.2482309	PROMOTEI	1961.677	1.6122007	3.0571783	864
2.5843437	5.997427	PROMOTEI	226.9961	2.175498	4.5174167	1366
1.9864541	3.9626186	DIVERGENT_PROMOT		1.1491526	2.2178359	1512
2.0326698	4.0916133	PROMOTEI	184.8454	1.9010817	3.7349313	3388
2.4891741	5.6145644	PROMOTEI	181.6756	1.4567711	2.7449333	2799
2.9316845	7.6300076	PROMOTER		2.3954692	5.2614819	3228
1.8135544	3.5150724	PROMOTEI	177.8609	1.1702074	2.2504405	3202
2.1869946	4.5535591	PROMOTER		1.7024075	3.2544359	2520
2.5563118	5.8820204	PROMOTER		2.135069	4.3925813	3544
1.5979884	3.0272092	PROMOTEI	1470.823	1.3981494	2.6356328	3352
2.269404	4.8212392	PROMOTEI	122.8532	2.1223123	4.3539122	595
2.2797158	4.8558229	PROMOTER		1.9341836	3.8216181	1574
2.0216782	4.0605586	PROMOTER		1.8819869	3.6858233	1744
2.2993617	4.9223993	PROMOTEI	461.3543	1.5510781	2.9303604	2310
1.8055428	3.4956065	PROMOTER		2.031613	4.0886172	1787
1.7788135	3.4314385	PROMOTEI	145.7537	1.4861131	2.8013322	3658
2.5035715	5.6708756	PROMOTEI	106.8174	1.7958113	3.4721067	3005
1.8187588	3.5277756	PROMOTEI	675.5691	1.29504	2.453838	3067
2.2995718	4.9231162	PROMOTEI	172.9444	1.3784446	2.5998792	4171
2.3416877	5.0689527	PROMOTEI	193.5536	1.6234928	3.081201	3852
2.1512628	4.4421644	DIVERGENT_PROMOT		1.375376	2.5943552	4004
2.6849024	6.4303729	PROMOTEI	1002.816	2.0804515	4.2293956	2573

2.2863405	4.8781716	PROMOTER		1.5492413	2.9266319	1749
1.7289729	3.3149173	PROMOTER		1.7213213	3.2973826	2817
2.330675	5.0304065	PROMOTEI	1812.044	1.9781667	3.939921	1599
1.8553314	3.6183486	PROMOTEI	269.1726	1.3756956	2.59493	3003
2.0266705	4.0746341	PROMOTEI	201.4943			
2.422019	5.359205	PROMOTER		1.5376742	2.9032609	1931
2.0416856	4.117263	DIVERGENT_PROMOT		1.3458089	2.5417267	1754
2.0233576	4.0652881	PROMOTEI	494.0114			
2.2473965	4.748252	PROMOTEI	619.2216	1.6801646	3.2046451	1637
2.4906845	5.6204455	PROMOTEI	393.4145	1.6549859	3.1492011	2126
2.5204797	5.7377285	PROMOTEI	1489.153	1.4572572	2.7458583	846
1.7660618	3.4012423	PROMOTER		1.4779017	2.7854332	4978
2.3650503	5.1517061	PROMOTEI	138.9749	1.6847495	3.2148457	4729
2.1287615	4.3734188	DIVERGENT_PROMOT		1.6321236	3.0996893	4822
2.4333293	5.4013847	PROMOTEI	129.4601			
1.9364984	3.8277548	PROMOTER		1.1240071	2.179515	2210
1.8982892	3.7277089	PROMOTEI	1023.471	1.7691833	3.4086094	254
2.4425921	5.4361758	PROMOTEI	240.4068			
1.8307248	3.5571574	DIVERGENT_PROMOT		1.5116277	2.8513155	3553
2.1836488	4.543011	PROMOTEI	471.9194	2.5640886	5.9138129	344
2.5328782	5.7872509	PROMOTEI	816.048	1.9455179	3.8517602	2100
2.8864117	7.3942904	PROMOTEI	183.6019			
2.262616	4.7986081	PROMOTER		1.8569124	3.622316	1543
2.2417145	4.729588	PROMOTEI	971.1636	1.7329576	3.3240858	3657
1.8072114	3.4996518	PROMOTEI	671.4473	1.6444616	3.1263116	2413
2.2977958	4.9170595	PROMOTEI	2956.742	1.0704597	2.1001024	4990
1.6346159	3.1050487	PROMOTER				
1.6408911	3.118584	PROMOTEI	153.1858	1.8671159	3.6480257	1536
1.7014625	3.2523049	PROMOTEI	314.3854	1.1043782	2.1500619	5446
1.7872599	3.4515871	PROMOTER		1.8009117	3.4844035	3919
2.3918564	5.2483226	PROMOTER		2.1240387	4.3591254	1404
1.6818639	3.208422	PROMOTEI	85.70098			
1.8937547	3.7160108	PROMOTEI	168.5201	1.5451913	2.9184276	1399
2.5268161	5.7629843	PROMOTEI	591.592	2.0133235	4.0371117	2251
2.697966	6.4888643	PROMOTEI	405.7925	1.8148406	3.5182076	3606
1.6432734	3.1237379	PROMOTEI	863.299	1.619036	3.0716972	2327
1.9954851	3.9875016	PROMOTER		1.8156251	3.5201212	4070
2.315572	4.9780199	PROMOTER		1.140114	2.2039844	4584
1.8110467	3.5089678	PROMOTEI	139.8878	1.3845499	2.6109049	5445
1.768006	3.405829	PROMOTER		1.8222865	3.5364123	1884
2.4510233	5.4680381	PROMOTEI	764.2677	1.5468706	2.9218267	967
2.2243328	4.6729474	PROMOTEI	275.1096	1.7298833	3.3170099	1794
1.9469241	3.8555164	PROMOTER				
1.9224653	3.7907027	PROMOTEI	215.1919	1.6362671	3.1086045	1743
2.286059	4.8772198	PROMOTEI	96.24478	1.3378334	2.5277143	4123
2.4106004	5.3169555	PROMOTEI	1556.891	1.9258908	3.7997139	839
2.0368955	4.1036153	PROMOTER		1.3134028	2.4852704	3771
2.163349	4.4795351	PROMOTEI	120.6149	1.8948203	3.7187565	3053
1.6740171	3.1910188	PROMOTEI	106.6046	1.6444584	3.1263047	4847
1.9446615	3.8494745	PROMOTEI	499.506	1.6859243	3.2174647	3037
1.7193086	3.2927856	PROMOTER				
2.0069678	4.0193656	PROMOTEI	354.1346			
1.703222	3.2562738	PROMOTEI	141.99			
1.8312148	3.5583657	PROMOTEI	282.303	1.2124826	2.3173607	3874
1.8957893	3.7212551	PROMOTEI	133.8385	1.4143119	2.6653258	5011
1.809831	3.5060122	PROMOTER		1.6031443	3.0380472	4176
2.000283	4.0007847	PROMOTEI	922.3038	2.264903	4.806221	1778
1.9066889	3.7494758	PROMOTEI	11311.83	1.9266405	3.801689	103

1.8768748	3.6727859	PROMOTER		1.2825737	2.4327258	5244
2.958422	7.7727332	PROMOTEI	205.5009	1.3217703	2.4997266	1392
2.1416135	4.4125527	PROMOTER		2.166688	4.4899146	2688
1.7377224	3.3350824	PROMOTER		1.5134587	2.8549366	454
1.8984231	3.7280549	PROMOTEI	729.2892	1.4896818	2.8082703	1733
1.9524102	3.8702056	DIVERGENT_PROMOT		1.3580216	2.5633342	4229
2.6173203	6.1360928	PROMOTEI	724.4135	1.8343656	3.5661456	2839
2.2266285	4.6803892	PROMOTER		1.1352776	2.1966083	2402
1.995099	3.9864346	PROMOTER				
2.4667199	5.5278555	PROMOTEI	872.402	2.0119183	4.0331814	339
2.0814054	4.2321929	PROMOTER		1.7138852	3.2804306	5438
2.1835837	4.542806	DIVERGENT_PROMOT		1.809712	3.505723	282
1.9348965	3.823507	PROMOTEI	528.3964			
2.0735042	4.2090779	PROMOTEI	554.2599	2.336361	5.0502717	2193
1.8266134	3.5470346	PROMOTEI	231.7223	1.4986147	2.8257125	4259
3.0033562	8.0186324	PROMOTEI	181.1016	1.8147559	3.518001	3311
2.8608708	7.2645367	PROMOTEI	394.0499	1.8949621	3.7191221	1591
1.6160039	3.0652482	DIVERGENT_PROMOT		1.3810124	2.6045108	3812
1.9911307	3.9754845	PROMOTEI	408.0121	1.645071	3.1276325	812
2.0599337	4.1696714	PROMOTEI	126.8617	1.6744897	3.1920643	3942
1.8999999	3.7321317	PROMOTER		1.5768878	2.983256	3418
1.9775186	3.9381515	DIVERGENT_PROMOT		1.5647851	2.9583343	3384
2.1352077	4.3930037	PROMOTEI	195.3805			
2.0344267	4.0965991	PROMOTEI	136.1205			
2.5758927	5.9623981	PROMOTEI	727.1005	1.7194121	3.2930219	3109
2.034872	4.0978637	PROMOTEI	96.22607			
2.3824048	5.2140514	PROMOTEI	167.0766	1.3722092	2.5886667	4025
1.7715492	3.4142039	PROMOTEI	363.6962	1.3918478	2.6241457	5059
2.0912461	4.2611596	PROMOTEI	368.0821	1.916421	3.7748544	4298
2.634767	6.2107479	PROMOTEI	912.3536	1.1492069	2.2179193	5276
1.8181163	3.5262049	DIVERGENT_PROMOT		1.5180013	2.8639401	4264
1.86814	3.6506162	PROMOTEI	1243.954	1.4489696	2.7301299	2872
2.5196066	5.7342571	PROMOTER		2.0538974	4.1522618	2265
2.229004	4.6881021	PROMOTEI	391.2604	1.9324327	3.8169828	1719
1.7976519	3.4765393	PROMOTEI	110.1176	1.5309802	2.8898211	2929
2.5374422	5.805588	PROMOTEI	1410.137	2.1188323	4.3434225	2408
2.7852142	6.8933927	PROMOTER				
2.1931844	4.5731378	PROMOTER				
2.0200338	4.0559329	PROMOTEI	464.8571	1.1133767	2.1635144	4614
2.384471	5.2215242	PROMOTEI	286.4463			
2.3058817	4.9446956	PROMOTEI	497.2812	1.966371	3.9078389	1377
2.0079875	4.0222075	PROMOTER		1.2691451	2.410187	3833
1.6988505	3.2464219	PROMOTEI	573.8652	1.6087186	3.0498084	979
2.498252	5.6500044	PROMOTEI	863.8556	1.8361567	3.5705757	278
2.1332648	4.3870915	DIVERGENT_PROMOT		1.5369107	2.9017248	1669
1.8205786	3.5322283	PROMOTER		1.6168649	3.0670781	856
2.3041549	4.9387807	PROMOTEI	700.8199	1.4847615	2.798709	3664
2.0512276	4.1445849	PROMOTER		1.6881623	3.2224597	4113
1.9704435	3.9188857	PROMOTEI	88.78243	1.4526005	2.7370096	5088
1.8332431	3.563372	PROMOTER				
2.1656873	4.4868013	PROMOTEI	730.7578	1.8285767	3.5518649	3556
2.039511	4.1110616	PROMOTER		2.282727	4.8659686	58
2.9405775	7.6771855	PROMOTER		2.2488704	4.7531054	1402
1.7335628	3.3254805	PROMOTER		1.4789793	2.7875145	3763
1.864356	3.6410537	PROMOTER		1.7276106	3.3117886	2389
2.0530205	4.1497387	PROMOTER		1.1047918	2.1506784	4242
2.2642837	4.8041583	PROMOTEI	613.741	1.9324613	3.8170585	751
1.8281279	3.5507601	PROMOTEI	696.3493			

2.5008178	5.6600618	PROMOTEI	193.6667			
1.9593481	3.8888622	PROMOTEI	1734.761			
1.6928068	3.2328505	PROMOTER		1.7691479	3.4085258	1421
1.7101833	3.2720239	PROMOTEI	502.2681			
1.685068	3.2155555	PROMOTER		1.995972	3.9888476	2447
1.9695635	3.916496	PROMOTER		1.5924149	3.0155369	5145
1.8602288	3.6306524	PROMOTEI	236.3873	1.4975579	2.8236434	3258
2.0369008	4.1036304	PROMOTER		1.2935139	2.4512437	4532
1.664859	3.1708266	PROMOTER				
1.6767617	3.1970952	PROMOTER		1.5973598	3.0258905	1825
3.528277	11.537646	PROMOTER		2.0402174	4.1130751	5581
2.3573399	5.1242466	PROMOTER		2.0071824	4.0199635	3157
1.9653004	3.9049401	PROMOTEI	369.0428	2.158931	4.4658383	2869
1.5908664	3.012302	PROMOTEI	183.7687	1.2465295	2.3726997	1910
1.957219	3.8831273	PROMOTEI	131.0789			
2.0611954	4.1733196	PROMOTEI	94.43925	2.0899	4.2571856	5273
2.289155	4.8876975	PROMOTER		1.9065443	3.7491	596
1.6974069	3.2431751	PROMOTER				
1.7323897	3.3227775	PROMOTEI	466.0422	1.699783	3.2485209	679
2.2122917	4.6341081	PROMOTER		1.5309577	2.8897761	4424
1.8442228	3.5905947	PROMOTER		1.393219	2.6266409	1272
2.0111065	4.0309126	PROMOTEI	456.0044	2.2145245	4.6412857	62
1.7728236	3.4172211	PROMOTER		1.7543613	3.3737692	3322
1.8222365	3.5362898	PROMOTEI	224.1715			
2.364198	5.1486636	PROMOTER		1.1628002	2.2389157	3355
1.9874156	3.9652604	PROMOTEI	146.8766	2.0455444	4.1282902	1887
1.8572772	3.623232	PROMOTEI	139.1322	1.4847579	2.798702	1348
2.2479036	4.7499213	PROMOTEI	112.824	1.9310819	3.8134107	1381
1.8335856	3.564218	PROMOTEI	134.6672	1.4757122	2.7812091	4768
2.0506802	4.1430126	PROMOTEI	502.8844			
1.7138362	3.2803192	PROMOTER		1.7666582	3.4026487	1255
2.1092076	4.3145425	PROMOTEI	973.6815	1.349945	2.5490241	4301
1.5871185	3.0044866	PROMOTEI	573.7904	1.3932904	2.6267709	3427
1.6931815	3.2336903	PROMOTEI	1364.311	1.8162929	3.521751	1643
1.6933484	3.2340644	PROMOTEI	821.299			
1.8662075	3.6457294	PROMOTER		1.5164233	2.8608092	3475
1.8662133	3.6457441	PROMOTEI	1289.441	2.1308076	4.3796258	871
1.9995972	3.9988834	PROMOTEI	174.3207	2.0089192	4.0248059	1010
1.7601775	3.387398	PROMOTER		1.2629821	2.399913	3748
1.6588395	3.1576242	PROMOTEI	257.2018	1.3830407	2.608175	2038
1.6466779	3.131118	DIVERGENT_PROMOT		1.6537199	3.1464388	4372
2.516999	5.7239021	PROMOTEI	2405.241	2.3804166	5.2068708	184
1.7768241	3.42671	PROMOTER		1.2729634	2.4165744	4163
1.9954367	3.9873678	DIVERGENT_PROMOT		1.6788374	3.2016984	2538
2.2150526	4.6429849	PROMOTER		1.9537524	3.8738079	853
1.7946037	3.4692016	PROMOTEI	349.4107			
2.2789392	4.8532097	DIVERGENT_PROMOT		1.7405486	3.3416221	2245
2.1834776	4.5424719	PROMOTER		2.4121425	5.3226419	1510
2.1927757	4.5718425	PROMOTEI	397.5721	2.1785831	4.5270872	2393
1.6925972	3.2323809	PROMOTER		1.1035346	2.148805	3947
1.6144695	3.0619898	PROMOTER		2.1669815	4.4908281	1717
1.6753076	3.1938744	PROMOTEI	126.4728	1.6897669	3.2260458	1339
1.9523885	3.8701474	PROMOTEI	282.6956	1.7227578	3.3006675	1826
1.8893882	3.7047808	PROMOTEI	121.4319	1.2840893	2.4352828	4856
1.8646476	3.6417897	PROMOTEI	903.0444			
1.9533252	3.872661	PROMOTEI	381.7869	1.575767	2.9809393	4260
2.0722098	4.2053031	PROMOTEI	1623.979			
2.002212	4.0061377	PROMOTER		2.069407	4.1971412	573

1.8346947	3.5669592	PROMOTEI	1155.977	1.6430787	3.1233163	3525
1.9153591	3.7720769	PROMOTEI	230.5238			
1.8066249	3.4982294	DIVERGENT_PROMOTER				
1.9618672	3.8956585	PROMOTEI	1153.536			
1.6259346	3.0864204	PROMOTEI	131.0363	1.5090947	2.8463138	3439
1.9661158	3.9071477	PROMOTER		1.2895077	2.4444463	5476
2.5328429	5.7871093	PROMOTEI	240.7852	1.9641932	3.9019443	990
2.159523	4.4676712	PROMOTEI	244.6638	1.7657405	3.4004849	2931
2.2097218	4.6258606	DIVERGENT_PROMOTER				
1.8087246	3.5033244	PROMOTER		2.1072304	4.3086335	105
2.1816018	4.5365696	PROMOTEI	296.8487	1.8144841	3.5173383	1535
1.7063769	3.2634024	PROMOTEI	292.6122	1.8860403	3.6961935	3288
2.459683	5.5009584	PROMOTER		1.4666513	2.7637963	3819
1.6346028	3.1050205	PROMOTEI	198.6927	1.2562083	2.3886712	2106
1.6893085	3.2250209	PROMOTER		1.7820864	3.4392319	2451
2.0283282	4.0793186	PROMOTEI	473.8011	2.147522	4.4306612	1092
1.8095586	3.5053502	PROMOTEI	155.5743			
1.9832536	3.9538376	PROMOTEI	147.7679			
2.0520148	4.1468469	PROMOTEI	161.478	2.668877	6.3593398	421
2.2004867	4.5963438	PROMOTER		1.6241242	3.0825498	3568
1.696161	3.2403755	PROMOTER		1.65497	3.1491664	4922
2.0376	4.1056197	PROMOTEI	830.1649	2.1473873	4.4302475	1563
2.2302303	4.6920887	PROMOTEI	508.7854	1.6506081	3.1396595	2102
2.6251554	6.1695078	PROMOTEI	299.2472	1.4377156	2.7089159	1994
2.234085	4.7046422	PROMOTEI	85.93652	1.3664579	2.5783675	2860
1.9715165	3.9218015	PROMOTEI	202.6157			
1.9819453	3.9502537	PROMOTER				
1.9033691	3.7408577	PROMOTEI	215.372			
1.8867843	3.6981002	PROMOTEI	183.7605			
1.6923842	3.2319037	PROMOTER				
2.159452	4.4674513	PROMOTEI	126.1667	2.1794617	4.529845	775
1.8369114	3.572444	PROMOTEI	250.2899	1.7690009	3.4081785	1852
2.3271554	5.0181493	PROMOTER				
1.9009652	3.7346297	PROMOTER		1.4163059	2.6690122	3318
2.0987577	4.2834038	PROMOTEI	1406.942	2.658834	6.3152244	127
2.066494	4.1886751	PROMOTEI	169.9572			
2.0422258	4.1188049	PROMOTEI	1329.452	1.8884159	3.7022849	742
2.6220996	6.1564539	PROMOTEI	151.6563	1.588787	3.0079634	4441
2.1253834	4.3631903	PROMOTEI	183.3552	1.8150692	3.5187651	3104
1.7741486	3.420361	PROMOTEI	255.982	1.5236549	2.8751852	3831
1.9915844	3.9767349	PROMOTER		1.86013	3.6304037	3618
2.74355	6.6971626	PROMOTEI	436.3669			
1.7066694	3.2640641	DIVERGENT_PROMOT		1.6611211	3.1626219	4679
1.9479119	3.8581571	PROMOTER		1.7412258	3.343191	3884
2.5290434	5.7718884	PROMOTEI	122.4724			
1.9277859	3.8047084	PROMOTEI	741.5244	1.9866807	3.963241	1999
1.9371713	3.8295405	PROMOTER				
2.5105917	5.6985375	DIVERGENT_PROMOT		2.1972156	4.585934	219
1.9144108	3.7695983	PROMOTEI	235.7595	1.4704062	2.770999	3966
1.8434541	3.588682	PROMOTER		1.8185502	3.5272656	681
2.0324378	4.0909554	PROMOTER		1.7411247	3.3429568	2188
2.5290692	5.7719916	PROMOTEI	372.4756	2.1363523	4.3964903	2020
1.6861161	3.2178924	PROMOTER				
2.0426307	4.1199611	PROMOTEI	824.6495	1.3863176	2.6141059	3579
1.7834011	3.4423674	PROMOTER		1.454549	2.7407087	3257
3.1068594	8.6150514	PROMOTEI	673.6596	2.802619	6.9770588	457
2.1441267	4.4202461	PROMOTEI	727.1943	1.4325787	2.6992876	1783
1.6145731	3.0622097	PROMOTER		1.0745466	2.1060601	3983

2.1609504	4.4720937	PROMOTER		1.7599809	3.3869364	2978
1.8820052	3.68587	PROMOTEI	227.53			
1.9740298	3.9286395	PROMOTER		1.4310478	2.6964248	1948
1.9201263	3.7845619	DIVERGENT_PROMOT		1.5739073	2.9770992	2628
2.246816	4.7463418	PROMOTEI	159.168	1.5942249	3.0193226	4473
2.5797021	5.9781624	DIVERGENT_PROMOT		2.136379	4.3965717	3721
1.9296546	3.8096398	PROMOTER		1.7903457	3.4589777	3991
2.1612885	4.4731418	PROMOTEI	329.1989	2.0997822	4.2864467	124
2.1545193	4.4522028	PROMOTER		2.0623739	4.17673	3240
1.9576194	3.8842051	PROMOTEI	1319.567	1.753801	3.3724592	1171
2.1524448	4.4458054	PROMOTEI	446.4848	2.587692	6.0113624	41
2.3516457	5.1040615	PROMOTEI	237.155			
1.6256602	3.0858335	PROMOTEI	108.6981	1.4212326	2.6781423	4872
2.2246227	4.6738865	PROMOTEI	1627.969	1.6005573	3.0326044	1521
2.1276944	4.3701851	PROMOTEI	2892.337			
2.484291	5.5955929	PROMOTEI	217.3064	1.8567536	3.6219173	1498
2.3900774	5.2418548	PROMOTER		1.7963828	3.4734824	3184
2.14647	4.4274315	PROMOTEI	215.66			
1.7471836	3.3570257	PROMOTEI	885.3558	1.5438578	2.9157314	2583
2.2356732	4.7098242	PROMOTEI	293.4939	1.8524355	3.6110928	1340
1.9095887	3.7570198	PROMOTEI	569.2095			
2.2467196	4.7460247	PROMOTEI	1344.687	2.0009165	4.0025419	1811
1.9716997	3.9222995	PROMOTER		1.5391746	2.9062818	4967
2.374233	5.1846011	PROMOTEI	338.3428	1.9419653	3.842287	4224
2.6642344	6.3389083	PROMOTER		1.9149293	3.7709533	2933
2.0295622	4.0828093	PROMOTEI	102.0094			
1.7414169	3.3436339	PROMOTEI	515.1627	1.7969351	3.4748124	1876
2.3550131	5.1159888	PROMOTER		2.106259	4.3057334	102
2.2310739	4.6948332	PROMOTER		2.0239816	4.0670468	1912
2.202393	4.6024211	PROMOTEI	815.3384	1.5614644	2.9515329	3100
1.9353806	3.8247902	PROMOTEI	3140.873	1.7686158	3.4072689	1546
1.9076943	3.7520897	PROMOTEI	261.8723	1.5916864	3.0140146	322
1.8401595	3.5804961	PROMOTEI	176.6488			
2.6297002	6.1889737	PROMOTER				
2.0313017	4.0877351	PROMOTEI	2299.944	1.9531379	3.8721582	920
2.3350382	5.0456432	PROMOTER		1.584525	2.9990904	4917
1.7528937	3.370339	DIVERGENT_PROMOT		1.6607072	3.1617147	2619
2.4663224	5.5263326	PROMOTEI	945.683	2.3583176	5.1277204	2493
2.1265917	4.3668461	DIVERGENT_PROMOT		1.5623792	2.953405	2749
1.8247359	3.5424215	PROMOTEI	1012.562			
1.9902271	3.9729953	PROMOTER		2.1197028	4.3460441	166
2.0188153	4.0525087	PROMOTEI	133.8223	2.2863092	4.8780657	3992
2.1728683	4.50919	PROMOTEI	992.829	1.7592677	3.3852625	5317
1.8527042	3.6117654	PROMOTEI	131.4608			
1.8605266	3.6314019	PROMOTER				
2.3259397	5.0139225	PROMOTEI	121.159			
1.6981227	3.2447846	PROMOTER		1.3647819	2.5753739	1161
1.6264378	3.0874971	PROMOTEI	123.7646	1.1063846	2.1530541	3846
1.6924127	3.2319675	PROMOTEI	235.3421	1.7329154	3.3239885	1271
1.97925	3.9428805	PROMOTER		1.3262869	2.5075647	1569
2.554074	5.8729038	PROMOTEI	169.0576	1.3658274	2.5772409	5044
1.8805606	3.6821811	PROMOTEI	90.83684			
2.1762552	4.5197883	PROMOTEI	707.448	1.994422	3.9845644	2205
1.8676131	3.6492832	PROMOTEI	254.1987			
2.0777674	4.2215342	DIVERGENT_PROMOT		1.707846	3.2667272	1429
2.3844626	5.2214938	PROMOTER		2.2039719	4.6074608	1986
1.6010882	3.0337206	PROMOTER		1.478127	2.7858682	1581
1.8090833	3.5041956	PROMOTEI	113.916			

2.0179985	4.050215	PROMOTEI	603.8729	1.6062952	3.0446897	1977
1.9843442	3.9568276	PROMOTEI	507.5022	1.8813133	3.6841028	513
1.948881	3.8607496	DIVERGENT_PROMOT		1.7260405	3.3081863	868
1.7203208	3.2950967	PROMOTER		1.2436602	2.3679854	1839
1.661946	3.1644308	PROMOTEI	735.6082	1.6774876	3.1987042	4104
2.3173037	4.9839987	PROMOTEI	301.767	1.5832874	2.9965187	2392
1.9504219	3.8648754	DIVERGENT_PROMOT		1.2245369	2.3368043	4947
2.5420997	5.8243607	PROMOTEI	238.3685	1.5776474	2.9848272	3405
1.8913155	3.7097334	PROMOTER		1.9608675	3.8929599	887
2.0250795	4.070143	PROMOTEI	172.5571			
2.2221096	4.6657519	PROMOTEI	273.0686	1.4596252	2.750369	5323
2.3821635	5.2131794	PROMOTEI	191.4248	1.6445078	3.1264118	3062
2.1668162	4.4903136	PROMOTEI	102.0313	1.8658452	3.644814	453
1.6966586	3.2414933	PROMOTER		1.6967099	3.2416086	2973
2.203592	4.6062477	PROMOTER				
1.8061925	3.4971811	PROMOTEI	426.6448			
2.4016335	5.2840111	PROMOTEI	3002	1.6213171	3.0765578	4869
2.0529122	4.1494272	DIVERGENT_PROMOT		1.640919	3.1186443	2781
2.3843544	5.2211022	PROMOTEI	108.0507	1.8701682	3.655752	3572
2.3943813	5.2575159	PROMOTEI	2050.742	1.7449927	3.3519316	952
2.020128	4.0561978	PROMOTEI	128.856	1.7666551	3.4026414	571
2.1488013	4.4345918	PROMOTEI	586.8477	2.4254494	5.3719631	81
2.2599669	4.7898049	PROMOTER		1.7503979	3.3645135	1784
2.250661	4.7590084	PROMOTEI	520.4139	1.6118815	3.056502	2823
2.368738	5.1648913	PROMOTER				
2.2452047	4.7410437	PROMOTER		1.5587746	2.9460351	3923
1.8761714	3.6709956	PROMOTEI	114.7014	1.6620393	3.1646354	3938
1.9015461	3.7361337	PROMOTER		1.6829598	3.2108601	1630
1.8900219	3.7064085	PROMOTER		1.4733521	2.776663	1842
2.255592	4.7753021	PROMOTER				
1.8984083	3.7280166	PROMOTEI	155.2332	1.7517003	3.3675522	4699
2.2507193	4.7592007	PROMOTER		1.5480273	2.9241702	2684
2.341441	5.068086	PROMOTEI	104.8606	1.4116964	2.6604981	4438
2.366365	5.1564029	PROMOTEI	251.1839			
2.3246744	5.009527	DIVERGENT_PROMOT		2.0009754	4.0027053	1055
1.6842387	3.2137077	PROMOTEI	948.2019	1.5087868	2.8457064	5528
2.3882606	5.2352579	PROMOTEI	225.548	1.2805558	2.4293255	4102
2.269922	4.8229705	PROMOTER		1.4574406	2.7462074	4750
1.598391	3.0280541	PROMOTEI	5138.132	1.8870347	3.6987421	2639
1.7244927	3.304639	PROMOTEI	175.5248			
1.8585728	3.6264873	PROMOTEI	204.3389			
1.6311805	3.0976636	PROMOTEI	117.6825	1.2125837	2.3175231	3943
1.9440002	3.8477104	PROMOTEI	1420.568	1.6641098	3.1691804	1468
2.9095755	7.5139708	DIVERGENT_PROMOT		1.5715717	2.9722834	4839
2.0880349	4.2516855	PROMOTEI	319.0362	1.7124718	3.2772184	1895
1.616044	3.0653334	PROMOTEI	491.1275	1.1737986	2.2560493	2620
2.107067	4.3081456	PROMOTER				
2.0830107	4.2369048	PROMOTEI	256.3558	1.7184142	3.2907449	5173
1.9763466	3.9349535	PROMOTER				
2.105134	4.3023772	PROMOTER		2.2693963	4.8212134	193
2.3850403	5.2235851	PROMOTEI	300.1681	2.5076625	5.6869791	961
1.915479	3.7723904	PROMOTEI	230.4821	1.5090321	2.8461902	3856
1.8816	3.6848349	PROMOTER		1.9920062	3.9778978	1053
1.6352669	3.1064501	PROMOTER				
1.991926	3.9776766	DIVERGENT_PROMOT		1.6526403	3.1440852	2000
2.3609102	5.1369435	PROMOTEI	155.6606			
1.8842394	3.6915825	PROMOTEI	11059.15	1.6226872	3.0794809	298
2.2698343	4.8226774	PROMOTEI	390.2161	1.2092042	2.3121006	3817

1.9523647	3.8700835	DIVERGENT_PROMOTER				
1.6365974	3.1093163	PROMOTEI	773.694	1.7149519	3.282857	2110
2.3460445	5.0842836	PROMOTEI	334.4414	1.8046256	3.4933849	2238
2.0057878	4.0160794	DIVERGENT_PROMOT		1.5866668	3.0035461	4239
2.449828	5.4635096	PROMOTEI	142.4904			
2.2362273	4.7116334	PROMOTEI	148.12	2.0577598	4.1633932	336
2.0926874	4.2654188	PROMOTER				
2.0923197	4.2643318	PROMOTEI	315.1288			
1.8898114	3.7058678	PROMOTER				
2.1072507	4.3086942	PROMOTER				
2.1232407	4.3567149	DIVERGENT_PROMOTER				
1.7846547	3.4453599	PROMOTEI	903.5555	1.6661981	3.1737711	3690
2.2232509	4.6694444	PROMOTEI	5500.217	1.8949677	3.7191365	337
2.2511299	4.7605554	PROMOTEI	359.263	2.197878	4.5880401	1219
2.6193585	6.1447678	DIVERGENT_PROMOT		2.0338562	4.0949794	2699
1.6274092	3.0895767	PROMOTEI	2349.954	2.5084848	5.6902215	20
2.0748413	4.2129807	PROMOTER		1.7602023	3.3874562	523
1.7959464	3.4724319	DIVERGENT_PROMOT		2.253515	4.7684322	224
2.0263433	4.0737101	PROMOTEI	274.9883	1.2882648	2.4423413	1631
2.4201488	5.3522622	PROMOTEI	2876.913	1.5806721	2.9910916	2730
2.0703156	4.1997854	PROMOTEI	160.0947	1.478147	2.7859068	3504
1.8294259	3.5539562	PROMOTEI	104.6969	1.234166	2.3524532	1221
2.6989658	6.4933627	PROMOTER				
1.654483	3.1481036	PROMOTEI	143.3709			
1.9844208	3.9570377	PROMOTEI	4687.351	1.8429868	3.5875198	848
2.2276218	4.6836128	PROMOTER		1.873399	3.6639479	3462
2.2768655	4.8462388	PROMOTEI	382.6017	2.5578506	5.8882976	791
1.9150994	3.771398	PROMOTER		1.4257826	2.686602	5304
1.618498	3.0705519	PROMOTEI	140.4408	1.1314061	2.1907215	5162
2.6454728	6.2570074	PROMOTEI	874.1541	1.2045792	2.3047004	3212
2.0448396	4.1262739	PROMOTEI	211.8183	1.4819819	2.793322	1921
2.8465817	7.1929406	DIVERGENT_PROMOT		2.3652143	5.1522918	2362
1.737555	3.3346954	PROMOTEI	333.4046			
2.1047447	4.3012163	PROMOTER				
2.3180404	4.9865444	PROMOTEI	152.4081	1.8132291	3.5142799	4476
1.6790106	3.2020828	PROMOTEI	2615.832			
2.1573458	4.460934	PROMOTER		1.6861004	3.2178574	1914
2.6046665	6.0825088	PROMOTER		2.401979	5.2852767	1780
2.0432212	4.1216477	PROMOTEI	211.0051	1.8507367	3.6068432	2438
1.7154261	3.2839362	PROMOTER		1.4162737	2.6689526	3590
1.8006247	3.4837104	PROMOTEI	4289.878	1.2757406	2.4212308	2469
2.3747509	5.1864626	PROMOTER		1.9605913	3.8922147	582
1.8736655	3.6646248	PROMOTEI	162.4404	1.6008055	3.0331261	4295
2.0740361	4.21063	PROMOTEI	127.4913			
1.8313406	3.558676	PROMOTEI	561.7726			
1.8759924	3.6705402	PROMOTEI	1341.191	1.9535877	3.8733657	1993
2.0247066	4.0690912	PROMOTER		2.0784216	4.2234489	3170
2.4406736	5.4289515	PROMOTEI	534.6191	1.9546181	3.8761331	1080
2.285511	4.8753676	PROMOTEI	430.3247	1.6310128	3.0973036	4062
2.175024	4.5159327	PROMOTEI	324.4171	2.6100588	6.1052857	46
2.614758	6.1252045	PROMOTER				
1.7534467	3.3716311	PROMOTER				
1.9931484	3.9810484	PROMOTEI	267.0079	1.6279875	3.0908154	2599
2.5622618	5.9063293	PROMOTEI	1517.006			
2.4341805	5.4045725	PROMOTER				
1.8442793	3.5907353	PROMOTER		1.4887353	2.8064285	4502
2.5897927	6.0201219	PROMOTEI	543.7068	1.6991262	3.2470423	1698
1.8469871	3.5974811	PROMOTER		1.1596001	2.233955	2932

1.6121879	3.0571512	PROMOTER		1.4354599	2.7046837	5255
1.6963243	3.2407423	PROMOTEI	491.8988	1.5637883	2.956291	1130
2.1719127	4.5062042	PROMOTEI	91.21246	2.326105	5.014497	703
2.1244094	4.3602456	PROMOTER		1.6568844	3.153348	2049
1.9808729	3.9473184	DIVERGENT_PROMOT		2.0009027	4.0025036	2829
2.5946105	6.0402594	PROMOTER				
1.6408663	3.1185304	PROMOTER		1.5833479	2.9966444	5443
1.7442688	3.3502501	PROMOTEI	311.9728	1.3409815	2.533236	4968
2.2939014	4.9038043	PROMOTEI	1347.569	1.9289087	3.8076707	2114
1.7974918	3.4761535	PROMOTEI	124.068	1.4621671	2.7552192	5478
1.9088042	3.7549773	PROMOTER		1.6163718	3.06603	1228
1.9018241	3.7368537	PROMOTEI	191.634			
1.8757145	3.6698332	DIVERGENT_PROMOTER				
2.3466172	5.0863023	PROMOTER				
2.0452611	4.1274796	PROMOTEI	571.7365	1.5872806	3.0048242	4589
1.6205354	3.0748913	PROMOTEI	262.7106	1.6761239	3.1956821	4724
1.7199357	3.2942172	PROMOTEI	160.0667	1.4731843	2.7763401	5126
1.6748679	3.1929012	PROMOTER		1.6256922	3.0859019	1567
2.7803595	6.8702352	PROMOTER		2.0882504	4.2523207	1266
1.770016	3.4105774	DIVERGENT_PROMOT		1.407927	2.653556	3276
2.502594	5.6670346	DIVERGENT_PROMOTER				
2.0723345	4.2056666	PROMOTEI	10840.51	2.436898	5.4147623	980
2.1791427	4.5288435	PROMOTER		1.7007043	3.2505961	4816
1.7892116	3.4562596	PROMOTER		1.4540884	2.7398338	2943
1.700192	3.249442	PROMOTEI	827.512	1.3350618	2.5228629	4851
1.6577471	3.1552342	PROMOTEI	487.2851	1.6643528	3.1697143	5425
1.620888	3.0756429	PROMOTEI	118.4153			
2.1310809	4.3804555	PROMOTEI	146.1612			
2.1234264	4.3572757	PROMOTEI	927.7042	1.7094216	3.2702969	3127
1.7798026	3.4337919	PROMOTEI	1387.803	1.6200659	3.0738908	2972
1.9771659	3.9371888	DIVERGENT_PROMOT		2.4551003	5.4835124	1306
2.35863	5.1288309	PROMOTEI	216.5453	1.189887	2.2813487	3410
1.7108849	3.2736155	PROMOTEI	679.2217	1.8575063	3.6238074	2133
2.073423	4.208841	PROMOTEI	190.7843	1.6172227	3.0678388	4595
1.7826315	3.4405316	PROMOTEI	1284.333			
1.8669184	3.6475263	PROMOTEI	825.2341	1.2763332	2.4222255	2142
2.4245586	5.3686472	PROMOTEI	326.3202	1.4564536	2.7443293	4517
2.0108254	4.0301273	DIVERGENT_PROMOT		1.5232797	2.8744376	3131
1.6723207	3.1872688	PROMOTER		1.4390111	2.7113495	2805
1.7876111	3.4524275	PROMOTER		1.4175853	2.6713802	1547
1.9401302	3.8374028	DIVERGENT_PROMOT		1.5710739	2.971258	2394
2.2052767	4.6116298	PROMOTEI	494.8671	1.0555851	2.078561	4079
2.032557	4.0912934	PROMOTER		1.007322	2.0101762	5041
1.6825308	3.2099054	PROMOTEI	171.1766			
1.7993331	3.4805929	PROMOTEI	1108.615	1.4238554	2.6830155	1108
1.8761005	3.6708152	PROMOTEI	90.75128	1.2176023	2.3255989	5056
1.9027421	3.7392323	PROMOTEI	1507.211	1.685589	3.216717	1398
1.6895131	3.2254783	PROMOTEI	569.0947	1.7945596	3.4690956	2771
2.0447674	4.1260674	PROMOTEI	709.5767	1.5591323	2.9467656	2280
2.2325258	4.6995604	PROMOTEI	197.554			
1.7768605	3.4267965	PROMOTEI	366.9747	1.4624698	2.7557973	724
2.2568069	4.7793251	PROMOTEI	933.8489	2.681059	6.4132649	1009
2.3638122	5.1472869	PROMOTER		2.1367385	4.3976674	3403
2.177764	4.5245177	PROMOTEI	392.7815	1.9243891	3.7957609	1242
2.3057003	4.9440739	PROMOTER				
1.8768957	3.6728391	PROMOTEI	121.2442	1.4549342	2.7414406	1867
2.2397168	4.7230434	PROMOTEI	92.41115			
2.3741517	5.184309	PROMOTER		1.4610412	2.7530698	4833

1.8613579	3.6334949	PROMOTEI	835.831	1.6505549	3.1395437	3195
1.9029106	3.739669	PROMOTEI	678.9102	1.4364188	2.706482	5596
2.244021	4.7371554	PROMOTEI	521.4952	1.5216895	2.871271	1284
1.8719044	3.6601541	PROMOTEI	1505.778	1.495992	2.8205803	1555
1.9240392	3.7948404	PROMOTEI	726.8564	2.1361506	4.3958757	2014
2.0784996	4.2236773	PROMOTEI	1923.643	1.9688203	3.914479	333
2.0448844	4.1264021	PROMOTEI	116.9683	1.5845858	2.9992168	2372
2.035492	4.0996251	PROMOTEI	1180.973	1.7629019	3.3938008	2092
1.6187917	3.0711771	PROMOTER		1.5117412	2.8515399	5327
2.4378514	5.4183418	PROMOTEI	189.4646	1.7928385	3.4649595	2729
2.2066534	4.6160326	PROMOTEI	1412.509	1.8747696	3.6674304	1885
1.6861591	3.2179883	PROMOTEI	215.0427	1.8012997	3.4853407	4830
2.2989182	4.9208864	PROMOTEI	189.6788	0.8361942	1.7853342	2481
1.6630386	3.1668282	PROMOTER		1.3068709	2.4740436	3014
2.0442665	4.1246351	PROMOTEI	399.8205	2.5171463	5.7244866	441
1.6785431	3.2010453	PROMOTEI	1750.791	1.8843263	3.6918049	519
1.6102546	3.0530572	PROMOTEI	3874.771	2.9102268	7.5173637	27
1.6508838	3.1402595	PROMOTEI	170.1208	2.14095	4.4105238	746
2.1802728	4.5323925	PROMOTEI	108.1187			
2.039134	4.1099875	PROMOTEI	126.1331	1.8223307	3.5365207	3682
1.8620386	3.6352097	PROMOTEI	2050.776			
2.1759949	4.5189729	PROMOTEI	214.4864	1.6540782	3.1472204	2154
1.9253448	3.7982762	PROMOTEI	2353.397	1.6431944	3.1235668	3470
2.73259	6.6464778	PROMOTEI	155.8575	1.4366653	2.7069445	3348
1.7781328	3.4298198	DIVERGENT_PROMOTER				
2.3343437	5.0432149	PROMOTER				
2.1966527	4.5841451	PROMOTER		1.442429	2.7177806	5243
2.153877	4.4502211	PROMOTEI	165.4903			
1.8146172	3.5176628	PROMOTEI	197.8681			
2.1615567	4.4739735	PROMOTEI	150.9281	1.2366323	2.3564781	5072
2.0640075	4.1814621	PROMOTEI	1917.03	2.010142	4.0282187	206
1.7094	3.2702479	PROMOTER				
2.0840807	4.2400483	PROMOTEI	179.5975	1.626185	3.0869562	2698
2.173839	4.512225	PROMOTEI	312.4597	1.7574415	3.38098	1382
2.1971734	4.5857999	PROMOTEI	148.8131			
2.3134627	4.9707471	PROMOTER		1.8674449	3.6488577	4193
1.9106493	3.7597827	PROMOTER		1.5829089	2.9957327	1614
1.703789	3.2575538	PROMOTEI	1088.114			
2.036094	4.1013362	PROMOTEI	1952.828	1.994752	3.9854759	1052
1.7553864	3.3761673	PROMOTEI	160.1275	1.8278623	3.5501065	199
2.4542978	5.4804631	PROMOTEI	708.5726	1.4278352	2.6904271	2777
2.1292214	4.3748131	PROMOTER				
1.8896109	3.7053528	PROMOTER				
2.1126685	4.3249052	PROMOTEI	406.0888	1.3301494	2.5142871	3356
2.3062468	4.9459471	DIVERGENT_PROMOT		2.5806808	5.9822193	3190
1.8217567	3.5351139	PROMOTER		1.1878325	2.2781022	2415
2.0985653	4.2828326	PROMOTEI	1231.274	1.5612421	2.9510781	2240
1.9620334	3.8961073	PROMOTEI	172.9685	1.4685535	2.7674428	3546
2.2376318	4.7162226	PROMOTEI	321.2929	1.5331912	2.8942533	708
2.2180889	4.6527669	PROMOTER		2.1647854	4.4839973	1489
1.8847386	3.6928601	PROMOTEI	127.8018			
2.2084157	4.6216746	PROMOTEI	139.0073	1.1906906	2.2826198	4893
1.9494568	3.8622908	PROMOTEI	160.3219	1.9333773	3.8194828	4002
1.6417043	3.1203423	DIVERGENT_PROMOT		1.6007779	3.0330681	3713
1.6537027	3.1464013	PROMOTEI	190.2984	1.5203413	2.868589	3419
2.7361593	6.6629418	PROMOTEI	128.422			
1.9062004	3.7482064	PROMOTEI	418.8985	2.1077383	4.3101507	2316
1.7219119	3.2987327	PROMOTEI	334.5595			

2.115449	4.3332486	PROMOTEI	1051.863			
1.7908196	3.4601141	PROMOTEI	250.3751			
1.9865197	3.9627987	PROMOTEI	184.6241			
2.079269	4.2259304	DIVERGENT_PROMOT	1.8545607	3.6164161		2182
1.9877721	3.9662403	PROMOTEI	537.1799	1.2045277	2.3046181	5362
1.6990345	3.246836	DIVERGENT_PROMOT	1.5468503	2.9217856		1001
1.8914504	3.7100803	PROMOTER				
1.9213542	3.7877844	PROMOTER				
1.9183675	3.7799509	PROMOTER	1.5128909	2.8538132		4677
1.74427	3.3502529	PROMOTER	1.0396289	2.0556988		4747
1.6338137	3.1033226	PROMOTER	1.415025	2.6666436		2532
1.9487624	3.8604323	PROMOTER	0.651727	1.5710477		3931
2.0758195	4.2158382	PROMOTEI	848.1772			
2.4260833	5.374324	PROMOTEI	132.0055			
2.526172	5.760412	PROMOTEI	586.8383			
2.1546216	4.4525185	PROMOTEI	185.4543	1.4726158	2.7752463	1729
1.6544578	3.1480486	PROMOTER		1.5375051	2.9029206	4813
1.6030166	3.0377783	PROMOTEI	641.5778	1.8298469	3.5549934	4285
2.1889327	4.5596804	PROMOTEI	2086.941	1.6903273	3.2272991	5411
2.1262496	4.3658108	PROMOTEI	205.9845	2.054272	4.1533401	1975
1.7926581	3.4645263	PROMOTER		1.9694697	3.9162414	1954
2.1829934	4.5409476	PROMOTER		1.409211	2.6559187	5403
2.3482912	5.0922075	PROMOTEI	287.8134	1.724012	3.3035381	2812
1.9542717	3.8752025	PROMOTEI	184.6692	1.7696695	3.4097584	1355
2.0267694	4.0749134	PROMOTER		1.5873297	3.0049265	3341
1.9311526	3.8135975	PROMOTEI	877.5399	1.7627076	3.3933438	862
2.1104107	4.318142	DIVERGENT_PROMOT	1.6325926	3.1006971		822
1.770337	3.4113363	PROMOTEI	185.5578			
2.4698498	5.5398611	PROMOTEI	291.0928	2.275696	4.8423119	3737
2.409107	5.3114546	PROMOTEI	455.2292	2.7602072	6.7749354	2002
1.8581426	3.6254061	PROMOTEI	121.2498	1.4457483	2.7240408	2424
2.0582485	4.1648037	PROMOTER				
1.7720809	3.4154624	DIVERGENT_PROMOT	2.2994206	4.9226003		432
2.2675579	4.8150738	PROMOTEI	260.51	1.5132871	2.854597	2220
1.8053901	3.4952366	PROMOTER		1.6438197	3.124921	730
1.6264905	3.0876099	PROMOTEI	110.3474			
1.8079753	3.5015054	PROMOTEI	462.3689	1.6601528	3.1605	2155
1.7662733	3.401741	PROMOTER		1.3261954	2.5074056	3319
2.7696004	6.8191901	PROMOTEI	399.862	1.9633394	3.8996358	3691
1.61943	3.0725362	PROMOTEI	259.0963	1.1474885	2.2152791	4388
1.9692171	3.9155558	PROMOTER		1.2733765	2.4172664	1815
1.7505423	3.3648502	PROMOTEI	152.5419	1.7026792	3.2550489	4450
1.9155704	3.7726294	PROMOTER				
1.8215252	3.5345467	PROMOTER		2.0322814	4.0905119	1602
1.9904017	3.9734762	PROMOTEI	104.9005	1.6940008	3.2355272	2153
1.8747835	3.6674658	DIVERGENT_PROMOT	1.8721662	3.6608184		2900
1.6327347	3.1010025	PROMOTEI	414.5686	1.3750913	2.5938433	4558
2.105434	4.3032719	DIVERGENT_PROMOT	1.7350596	3.3289325		1564
1.6419986	3.1209789	PROMOTER		1.2880377	2.4419568	906
2.4474761	5.4546102	PROMOTEI	856.8184	1.3389516	2.5296742	5325
2.2293649	4.689275	DIVERGENT_PROMOT	1.4797039	2.7889149		3392
2.3054624	4.9432587	PROMOTEI	157.0523	2.027382	4.0766441	1331
1.8747174	3.6672977	PROMOTEI	356.0156			
1.7553743	3.376139	PROMOTEI	134.2955			
1.6398157	3.1162602	PROMOTEI	493.8743			
2.0503552	4.1420794	DIVERGENT_PROMOT	1.5015256	2.8314197		4013
2.1442373	4.420585	DIVERGENT_PROMOT	1.7886865	3.4550019		1455
2.0521698	4.1472925	PROMOTER	1.4463884	2.7252497		1150

1.8451988	3.5930246	PROMOTEI	1364.937	1.98738	3.9651625	1071
1.8125255	3.5125664	PROMOTEI	761.3904	1.9838799	3.9555544	1119
2.086676	4.2476827	PROMOTEI	747.2343	1.9495628	3.8625746	3810
2.3367834	5.0517505	PROMOTEI	142.2955	1.7547655	3.3747146	5230
1.685681	3.2169221	PROMOTEI	187.4915	1.4042059	2.6467206	3686
1.9305847	3.8120967	PROMOTEI	181.5549	1.4306551	2.6956909	3261
2.0544627	4.1538891	PROMOTEI	497.157	1.9518002	3.8685695	616
2.0322058	4.0902976	PROMOTEI	146.3199	1.7425661	3.3462984	4231
1.632563	3.1006335	PROMOTEI	96.83876	1.7143557	3.2815006	1117
2.3176203	4.9850926	PROMOTER				
2.0126534	4.035237	PROMOTEI	414.0583	1.7810779	3.4368286	431
1.8844901	3.692224	PROMOTEI	366.1335			
1.9494945	3.8623918	DIVERGENT_PROMOTER				
1.7966301	3.4740779	PROMOTER		1.5766195	2.9827013	2127
1.860785	3.6320524	PROMOTEI	1325.502	1.530992	2.8898448	2037
1.8447729	3.591964	PROMOTEI	1976.496	1.2403862	2.3626177	3707
1.6180902	3.0696841	PROMOTER				
1.904358	3.7434228	PROMOTEI	1298.845			
2.1010623	4.2902517	PROMOTEI	472.6971	1.5411595	2.9102831	1102
1.93183	3.8153886	PROMOTER		2.0527472	4.1489527	4455
1.7458705	3.3539717	PROMOTEI	501.6178			
2.3662827	5.1561088	PROMOTEI	91.44313	1.6233501	3.0808962	5377
1.9444203	3.8488309	DIVERGENT_PROMOT		1.6578774	3.1555192	5265
1.8236951	3.5398669	PROMOTER				
1.9327888	3.8179251	PROMOTEI	550.7458			
1.8738817	3.665174	PROMOTEI	808.1059	1.938592	3.8333135	3241
1.9912015	3.9756796	PROMOTEI	145.6355	1.8769641	3.6730132	1872
1.59564	3.0222856	PROMOTEI	950.4133			
2.018009	4.0502445	PROMOTEI	134.8099	1.2883072	2.442413	3365
1.9404086	3.8381434	PROMOTEI	256.775			
1.8359005	3.5699417	PROMOTEI	381.6726	1.5092928	2.8467046	3345
2.2439413	4.7368937	PROMOTER		1.9162911	3.7745145	4402
1.897101	3.72464	DIVERGENT_PROMOT		1.6838667	3.2128791	253
1.9853774	3.9596623	PROMOTER		1.9312379	3.813823	2425
1.64388	3.1250516	PROMOTEI	153.5457			
1.9625034	3.8973767	PROMOTEI	132.3911	1.6545224	3.1481895	2050
1.7112262	3.2743901	DIVERGENT_PROMOT		1.6990765	3.2469305	996
2.0157156	4.0438111	PROMOTEI	208.7015			
1.9578645	3.8848651	PROMOTER		1.1702775	2.2505498	3480
2.420674	5.354211	PROMOTEI	165.2042	1.9326982	3.8176853	2811
1.7454946	3.3530979	DIVERGENT_PROMOT		1.5232306	2.8743398	3617
1.8252827	3.5437644	DIVERGENT_PROMOT		1.4856571	2.800447	4267
2.0855963	4.244505	PROMOTER		1.6294035	3.0938505	4621
2.6822114	6.4183898	PROMOTEI	434.8148	2.4855366	5.6004261	1904
1.5924945	3.0157033	PROMOTEI	304.8611			
1.915234	3.7717499	PROMOTEI	319.1277			
1.9989691	3.9971428	PROMOTEI	272.8333	1.5467328	2.9215476	3679
1.9607483	3.8926383	PROMOTER				
2.0901303	4.2578653	PROMOTER		2.1450024	4.42293	2560
1.6452088	3.1279312	PROMOTER		1.4505899	2.7331979	2783
2.8014472	6.9713942	PROMOTER		1.7415468	3.343935	3101
2.0533078	4.1505652	DIVERGENT_PROMOTER				
1.5975099	3.0262054	PROMOTEI	803.8351	1.8008037	3.4841427	4521
2.153185	4.448087	DIVERGENT_PROMOT		1.6232122	3.0806018	5481
2.0937989	4.2687063	PROMOTER		1.7828262	3.440996	1166
1.7383019	3.3364223	PROMOTEI	411.1838			
1.8340675	3.5654088	PROMOTEI	134.8526			
1.7131811	3.27883	PROMOTER		2.0224302	4.0626757	2584

1.8462038	3.5955284	PROMOTER				
1.8784982	3.6769211	PROMOTEI	359.7066			
1.9370757	3.8292868	PROMOTEI	767.1488	2.3419304	5.0698055	16
1.8886971	3.7030065	PROMOTEI	162.1998	1.497008	2.8225673	2633
2.6399302	6.2330151	PROMOTEI	346.9359	1.4184984	2.6730714	5354
1.7092738	3.2699618	PROMOTEI	608.384	1.5066748	2.8415435	4863
2.2846973	4.8726186	PROMOTEI	129.6263	2.2839482	4.8700892	412
1.6486446	3.1353893	PROMOTEI	325.3038	1.8726898	3.6621472	2897
1.9977582	3.9937892	PROMOTER				
1.7411578	3.3430335	PROMOTEI	4872.564			
2.164039	4.481678	PROMOTEI	448.9347			
2.1040723	4.2992121	PROMOTEI	201.7275	1.6909225	3.2286309	2545
2.0192518	4.0537351	PROMOTER				
1.633706	3.103091	DIVERGENT_PROMOT		1.6697344	3.1815602	4340
2.0297353	4.0832992	PROMOTEI	263.1079	1.9507774	3.8658279	2454
1.9157293	3.773045	PROMOTEI	1304.474	1.4676545	2.7657188	3223
1.932037	3.8159361	PROMOTEI	159.0864	1.2670293	2.4066549	1661
1.9571224	3.8828673	PROMOTEI	125.5498			
1.677407	3.1985255	PROMOTEI	130.4187	1.5904903	3.0115168	4365
1.9364277	3.8275672	PROMOTEI	174.5659			
1.976366	3.9350064	PROMOTEI	2396.804	2.2903428	4.8917233	99
1.6665354	3.1745133	PROMOTEI	151.627	1.3375362	2.5271936	3904
1.7011238	3.2515414	DIVERGENT_PROMOT		2.0259492	4.0725974	606
1.9282858	3.806027	PROMOTEI	189.8272	2.3125167	4.9674887	1416
1.8916603	3.7106201	DIVERGENT_PROMOTER				
2.8927822	7.4270135	PROMOTER		1.0614655	2.0870505	5585
1.8982867	3.7277024	PROMOTER		2.094062	4.2694848	76
2.010318	4.0287101	PROMOTEI	383.348	1.9577725	3.8846174	3380
1.7096734	3.2708677	PROMOTER				
2.7837508	6.8864039	PROMOTEI	156.8373	2.1019144	4.2927864	5154
1.7011489	3.251598	PROMOTEI	624.0067	1.9201059	3.7845084	1029
1.6495827	3.1374288	PROMOTEI	318.9042			
1.6515001	3.1416013	PROMOTEI	367.1216	2.0893147	4.2554588	2309
1.8381395	3.5754864	PROMOTEI	120.7922			
2.039358	4.1106257	PROMOTEI	3724.185	1.6228964	3.0799275	1280
1.8332684	3.5634345	PROMOTER		1.8012292	3.4851704	3021
1.6551996	3.1496676	PROMOTER		1.8439845	3.5900016	1824
2.1044488	4.3003343	PROMOTER				
1.9565638	3.8813642	PROMOTEI	127.822			
2.1608503	4.4717834	PROMOTEI	4019.758	1.3464935	2.5429331	3423
2.2132068	4.6370484	PROMOTEI	1988.908			
1.9604952	3.8919555	PROMOTER		1.6333996	3.102432	3431
2.0527039	4.1488281	PROMOTEI	312.9589	1.9116869	3.7624878	4775
2.2245424	4.6736264	PROMOTER				
1.9704877	3.9190058	PROMOTEI	287.1436	1.8214558	3.5343767	2166
2.3455157	5.0824203	PROMOTEI	182.4404	1.1986567	2.2952586	3844
1.8043487	3.4927145	PROMOTER				
2.1747003	4.5149196	PROMOTEI	1635.606	2.32408	5.0074635	408
1.6148489	3.0627952	PROMOTEI	374.7208			
1.8476733	3.5991926	PROMOTEI	128.1499	1.7226828	3.3004959	3176
1.6967517	3.2417025	PROMOTEI	261.4229	1.7699685	3.4104651	1997
1.7557672	3.3770586	PROMOTER		1.7460508	3.3543909	3491
2.0529099	4.1494206	PROMOTEI	158.2232			
1.5876944	3.0056862	PROMOTEI	112.6382	1.8542649	3.6156747	4674
1.886545	3.6974868	DIVERGENT_PROMOT		1.7034606	3.2568124	2858
1.9618384	3.8955807	PROMOTEI	118.4083			
1.9379514	3.8316118	PROMOTEI	870.1858			
1.9558778	3.879519	PROMOTEI	286.6361	2.1053016	4.302877	1894

1.7656897	3.4003652	PROMOTER		1.4248983	2.6849557	702
2.1841402	4.5445587	PROMOTEI	120.1187	2.071759	4.2039893	5179
2.0225823	4.063104	PROMOTER		1.4854426	2.8000306	3434
1.8963957	3.7228196	PROMOTER		1.4941374	2.8169567	4219
1.690157	3.2269182	PROMOTER		1.6841977	3.2136163	2530
2.3665113	5.1569258	PROMOTER		1.3694552	2.5837298	3858
2.101421	4.2913186	PROMOTEI	16913.88	1.8247603	3.5424815	1372
2.190186	4.5636432	PROMOTEI	392.1223	1.5241828	2.8762375	1980
2.0437071	4.1230361	PROMOTEI	1650.713	1.4443146	2.7213351	3002
1.9105581	3.7595451	PROMOTEI	1546.323			
1.6828958	3.2107176	PROMOTEI	93.52377	2.4643157	5.5186512	1320
1.8476429	3.5991167	PROMOTER		1.7850978	3.4464183	3023
1.9239291	3.7945508	PROMOTER		1.8652643	3.6433467	4896
2.2209308	4.6619412	PROMOTEI	2604.671	1.6590095	3.1579963	1807
1.5977932	3.0267997	PROMOTEI	444.5523	1.4441259	2.7209791	2935
1.7658725	3.4007961	PROMOTER				
1.7605938	3.3883756	DIVERGENT_PROMOT		1.9126439	3.7649844	3087
1.5919237	3.0145104	PROMOTEI	151.7981			
1.7073509	3.2656064	PROMOTEI	170.7892	1.9997877	3.9994114	1676
2.3392696	5.0604637	PROMOTER				
2.3186219	4.9885547	DIVERGENT_PROMOT		1.4076858	2.6531124	2045
2.1737444	4.5119291	PROMOTER				
1.8859249	3.6958979	PROMOTER		1.6330512	3.1016829	733
2.2711942	4.8272254	PROMOTEI	93.73696	1.8391806	3.5780675	2891
1.8345048	3.5664897	PROMOTER				
2.2183895	4.6537364	PROMOTER		2.271549	4.8284127	1262
1.7558808	3.3773245	PROMOTEI	256.8543			
1.6740448	3.1910801	PROMOTER		0.9125247	1.8823367	5341
1.6893998	3.2252225	PROMOTEI	2320.963	1.6187855	3.0711639	4068
1.9153174	3.7719679	PROMOTEI	996.6646			
1.9853734	3.9596513	PROMOTER				
2.271888	4.8295474	PROMOTEI	182.0018			
2.2332218	4.7018281	PROMOTEI	238.3416	1.7115802	3.2751936	1173
1.7783033	3.4302252	PROMOTER		1.5265051	2.8808711	2506
1.8490496	3.6026278	PROMOTEI	1157.79			
2.349677	5.0971012	PROMOTEI	192.5159	1.6940271	3.2355862	3742
1.9624784	3.8973092	DIVERGENT_PROMOT		1.5505624	2.9293131	4710
1.7534238	3.3715776	PROMOTEI	214.5584	2.1404858	4.4091049	2844
1.9944589	3.9846663	PROMOTEI	443.6686			
1.8618171	3.6346516	DIVERGENT_PROMOTER				
2.0760698	4.2165697	DIVERGENT_PROMOTER				
1.7063444	3.2633289	PROMOTER				
1.7788516	3.4315291	PROMOTER		1.8800826	3.6809613	5003
1.9637512	3.9007491	PROMOTER		1.9891434	3.9700121	2907
2.3324733	5.0366808	PROMOTER				
2.5683262	5.931209	PROMOTEI	93.63394			
1.8485779	3.6014501	PROMOTER		1.8085492	3.5028985	5331
1.7714704	3.4140174	PROMOTER		1.8228363	3.5377603	1425
1.7644371	3.3974142	PROMOTEI	1344.3	1.3158461	2.4894829	3376
2.3361561	5.0495545	PROMOTEI	177.5311	1.7359939	3.331089	3097
1.6511142	3.1407611	PROMOTEI	153.2033			
1.8382316	3.5757146	DIVERGENT_PROMOT		1.7049423	3.2601589	2230
2.1826222	4.5397794	PROMOTEI	128.1647	1.3170005	2.4914757	4525
2.1144447	4.3302331	PROMOTER		2.0241559	4.0675382	3386
1.88554	3.694912	PROMOTEI	451.1117	1.5404992	2.9089514	2526
2.2155907	4.644717	PROMOTEI	299.8295			
1.7312906	3.3202471	PROMOTEI	322.3008	2.2897413	4.8896842	985
1.9711564	3.9208227	PROMOTEI	122.4637	2.0415447	4.1168609	1192

2.4280539	5.3816699	PROMOTEI	1519.958			
1.7231381	3.3015377	DIVERGENT_PROMOT	1.3550438	2.5580488		3661
1.6766692	3.1968902	PROMOTEI	484.9438			
1.8498455	3.6046158	PROMOTEI	312.8405	1.205491	2.3061574	3262
1.7607623	3.3887714	PROMOTEI	361.4875	1.7684596	3.4069	1851
1.8370289	3.572735	PROMOTEI	91.82077	2.0560424	4.15844	2683
1.6181062	3.0697182	PROMOTER		1.417968	2.6720889	3772
2.4225092	5.3610263	PROMOTER		1.9848269	3.9581517	1112
1.6840085	3.2131949	PROMOTER		1.335609	2.52382	5301
1.7086235	3.2684882	DIVERGENT_PROMOT	1.7611756	3.3897423		1450
1.834721	3.5670242	PROMOTEI	430.769			
2.3257077	5.0131163	PROMOTEI	2166.887	1.6864939	3.2187352	5080
2.0987942	4.2835122	DIVERGENT_PROMOT	2.3016965	4.930372		3773
1.9145411	3.7699388	PROMOTEI	3633.866	1.5376463	2.9032047	1911
2.0896044	4.2563135	DIVERGENT_PROMOT	1.657466	3.1546195		5452

Normalized Normalized Type transcript in Normalized Normalized Rank (P2-12H_R1R2)

2.1300607	4.377359	DIVERGENT_PROMOTER				
2.279506	4.8551168	PROMOTEI	1053.575	1.978181	3.93996	994
2.1387372	4.4037641	DIVERGENT_PROMOTER				
2.552855	5.8679436	PROMOTEI	534.934	1.8496319	3.6040822	4430
2.05145	4.1452238	PROMOTEI	1423.852	1.6702957	3.1827982	505
2.0201933	4.0563814	PROMOTEI	145.7914			
2.0142276	4.0396424	DIVERGENT_PROMOT	1.477288	2.7842485		2019
2.4995763	5.6551932	PROMOTER		1.7349987	3.3287919	3651
2.5324566	5.78556	PROMOTER		1.3106763	2.480578	5071
2.2252655	4.6759694	PROMOTER		2.058988	4.1669391	240
2.0643847	4.1825555	PROMOTEI	868.885			
1.6926153	3.2324214	PROMOTER		1.2636502	2.4010246	5435
1.9570122	3.8825707	PROMOTEI	1482.15	1.840834	3.5821705	377
2.2228916	4.6682816	PROMOTEI	344.2707	2.0906034	4.2592618	1529
1.7438751	3.349336	PROMOTEI	417.119			
2.8041213	6.9843279	PROMOTEI	1289.532	1.7944546	3.4688431	1978
2.645024	6.2550612	DIVERGENT_PROMOTER				
2.4298346	5.3883165	PROMOTEI	2458.488			
1.7745047	3.4212053	PROMOTER		1.0620449	2.0878888	2798
1.9805658	3.9464783	PROMOTER				
2.3948185	5.2591094	PROMOTER				
2.1170778	4.3381436	PROMOTEI	115.3841			
2.1790073	4.5284185	PROMOTEI	987.1461	1.4211596	2.6780068	3629
1.924246	3.7953844	PROMOTEI	271.5389	1.9958067	3.9883906	1816
1.9810836	3.9478949	PROMOTEI	123.3108			
2.6637318	6.3367004	PROMOTER				
1.9733677	3.926837	PROMOTER		1.5064135	2.8410289	5348
2.484287	5.5955774	DIVERGENT_PROMOT	2.0693464	4.1969649		2388
2.0901403	4.2578948	PROMOTEI	102.6696			
2.8200924	7.0620763	PROMOTEI	894.2858			
2.3679638	5.1621204	PROMOTER				
1.8583065	3.625818	PROMOTEI	681.3087	1.5986142	3.0285226	4570
2.1247973	4.3614181	PROMOTER		2.0106018	4.0295027	3350
1.9872185	3.9647187	PROMOTEI	123.9818	1.8557384	3.6193695	2612
1.9211835	3.7873362	PROMOTEI	1092.204	1.997358	3.9926815	1058
2.2249358	4.674901	PROMOTEI	411.525	1.9800519	3.9450727	3471
1.7167555	3.2869636	PROMOTEI	350.0916			
2.2743294	4.8377271	DIVERGENT_PROMOT	1.7048966	3.2600557		2782
2.0843446	4.240824	PROMOTEI	204.1715	1.9246346	3.7964068	2177

2.021028	4.058729	PROMOTEI	2696.021	1.6254013	3.0852797	2118
1.9882653	3.9675965	DIVERGENT_PROMOTER				
2.585788	6.0034341	PROMOTEI	2598.324	2.274624	4.8387151	61
1.6458677	3.1293601	PROMOTEI	388.1238			
2.0584774	4.1654646	PROMOTEI	766.7198	1.619489	3.0726618	5448
1.7003062	3.2496992	PROMOTER		1.338232	2.5284128	5506
2.5847464	5.9991013	PROMOTER				
2.3496664	5.0970638	PROMOTER		1.1029694	2.1479634	4417
2.2494013	4.7548548	PROMOTEI	1239.06			
2.0407262	4.1145259	PROMOTER				
2.9951088	7.9729234	PROMOTER				
1.9877515	3.9661837	PROMOTER		1.9934384	3.9818487	2785
2.2173064	4.6502439	DIVERGENT_PROMOTER				
1.8334583	3.5639036	PROMOTEI	999.4857	1.3966892	2.6329666	4400
1.9626466	3.8977636	PROMOTEI	609.1555	1.3039881	2.4691048	3917
2.4134316	5.3274	PROMOTEI	206.721			
1.6913077	3.229493	PROMOTER				
2.0080347	4.0223391	PROMOTEI	2410.746	2.047376	4.1335347	975
1.8488202	3.602055	PROMOTER				
2.111553	4.3215624	PROMOTER				
2.1810403	4.5348043	PROMOTEI	662.8675	1.7593958	3.3855631	5340
2.3770888	5.1948742	PROMOTEI	409.3607	1.7611887	3.3897731	2135
1.6296066	3.0942861	PROMOTEI	98.91907			
1.9737152	3.9277829	PROMOTER		1.7952075	3.4706539	2081
2.0888093	4.2539684	PROMOTEI	192.5876	1.3201048	2.4968425	4931
1.810307	3.5071691	PROMOTEI	152.536			
1.9106247	3.7597186	PROMOTER		1.9282856	3.8060265	3857
1.8908136	3.708443	PROMOTEI	1781.952	2.1940289	4.5758156	620
1.753499	3.3717533	DIVERGENT_PROMOTER				
2.6333318	6.2045725	DIVERGENT_PROMOT		2.2099848	4.626704	280
1.89033	3.7072001	PROMOTEI	97.24357			
2.661183	6.3255152	PROMOTEI	211.2793	1.5617974	2.9522142	4175
2.2110558	4.6301399	PROMOTEI	1149.841			
1.7570801	3.3801332	PROMOTER		1.4637122	2.7581716	4606
2.1974657	4.5867291	DIVERGENT_PROMOT		1.6135114	3.059957	655
2.4179263	5.3440233	PROMOTER				
1.7494273	3.3622507	PROMOTEI	819.6301	1.524933	2.8777335	1241
1.6785543	3.2010702	PROMOTEI	413.4667	1.5128331	2.8536989	3457
1.8660681	3.6453772	PROMOTER		2.0773714	4.2203756	2850
1.5887705	3.007929	PROMOTEI	328.0329	1.3836937	2.6093558	3886
2.147825	4.4315918	DIVERGENT_PROMOT		1.8551263	3.6178342	4391
2.4012794	5.2827143	PROMOTEI	569.4477	1.2988789	2.4603762	2885
2.6965804	6.4826352	PROMOTER				
2.2585342	4.7850507	PROMOTEI	327.6436			
2.433803	5.4031585	DIVERGENT_PROMOTER				
1.6594208	3.1588968	PROMOTEI	914.6683	1.4674675	2.7653604	4138
2.3094132	4.9568143	PROMOTEI	774.1631	1.6858773	3.2173598	4561
2.2132154	4.6370761	PROMOTEI	674.3591	1.60267	3.0370486	5369
1.888247	3.7018514	PROMOTEI	418.7185			
1.767004	3.4034644	PROMOTER		1.6430535	3.1232618	5380
1.6655346	3.1723118	DIVERGENT_PROMOTER				
1.6669692	3.1754679	PROMOTEI	825.2838	1.5161879	2.8603425	815
1.9303175	3.8113907	DIVERGENT_PROMOT		1.9420676	3.8425595	4509
1.7047625	3.2597527	DIVERGENT_PROMOT		1.3650272	2.5758118	3219
2.3335612	5.0404803	PROMOTEI	440.9583			
1.6400697	3.1168089	PROMOTEI	1256.795			
1.5895512	3.0095571	DIVERGENT_PROMOTER				
1.7003942	3.2498975	PROMOTER		1.6320825	3.099601	2523

1.8312379	3.5584227	PROMOTEI	89.27377	1.2218577	2.3324687	4390
1.6678051	3.1773083	PROMOTEI	4231.536			
1.7996724	3.4814116	PROMOTEI	677.9791			
2.2739832	4.8365664	PROMOTEI	607.2963			
1.827293	3.5487059	PROMOTEI	1398.088			
1.8636091	3.6391691	PROMOTEI	484.3943			
2.4075208	5.305618	DIVERGENT_PROMOTER				
1.9369453	3.8289407	PROMOTEI	1997.909			
1.6614189	3.1632748	DIVERGENT_PROMOT	1.5629872	2.9546499		5374
1.9674801	3.9108443	PROMOTER	1.4277089	2.6901915		3607
1.8880248	3.7012813	PROMOTEI	344.3292	0.9856066	1.9801456	4974
1.8016452	3.4861755	DIVERGENT_PROMOTER				
1.6951047	3.2380038	PROMOTEI	182.3857			
2.0537128	4.1517305	PROMOTER	2.0810332	4.2311012		3716
2.6609335	6.3244214	PROMOTEI	2092.104	1.5484041	2.9249341	3154
2.0857768	4.245036	PROMOTEI	568.187			
2.5010858	5.6611133	PROMOTEI	379.3467	1.0763432	2.1086844	2455
2.311867	4.9652522	DIVERGENT_PROMOTER				
2.1165092	4.3364341	PROMOTEI	418.3998			
2.2556036	4.7753405	PROMOTEI	99.71265			
2.0232024	4.0648508	DIVERGENT_PROMOTER				
2.216432	4.6474263	PROMOTEI	237.5534			
2.0285265	4.0798794	PROMOTER				
2.575158	5.9593625	PROMOTEI	376.7094	1.8630177	3.6376776	2541
2.4096127	5.3133167	PROMOTEI	616.6323			
1.7311912	3.3200183	PROMOTEI	122.1474			
1.92406	3.7948951	PROMOTEI	150.5013	1.614256	3.0615367	3674
1.7358109	3.3306665	PROMOTEI	1883.163			
1.9647645	3.9034898	PROMOTEI	435.5381			
2.5762715	5.9639638	PROMOTEI	312.6628			
1.862063	3.6352712	PROMOTEI	1090.774			
2.4340932	5.4042454	PROMOTEI	531.3867	1.621119	3.0761354	1694
1.809461	3.5051131	PROMOTEI	2029.283			
1.8458098	3.5945466	DIVERGENT_PROMOTER				
1.8695418	3.6541651	PROMOTEI	642.5056			
2.0446608	4.1257626	PROMOTEI	230.8669			
2.0561323	4.1586991	PROMOTEI	462.6407			
1.8659753	3.6451427	PROMOTEI	685.5911	1.9626331	3.8977271	1256
1.698707	3.246099	PROMOTEI	953.5919			
2.1036751	4.2980287	PROMOTER	2.014245	4.0396912		3864
2.1741662	4.5132485	DIVERGENT_PROMOTER				
1.968468	3.9135232	PROMOTER	2.089394	4.2556928		850
2.2667012	4.8122153	DIVERGENT_PROMOT	1.8514464	3.6086179		1106
1.8434628	3.5887037	PROMOTER				
2.0435116	4.1224774	PROMOTEI	122.7166			
1.9128602	3.765549	PROMOTER				
1.8982663	3.7276497	PROMOTER	2.2906551	4.8927823		49
2.4309087	5.3923297	PROMOTEI	259.2986			
2.5084898	5.6902412	PROMOTER				
2.7608893	6.7781394	PROMOTEI	650.0453			
1.6232364	3.0806535	DIVERGENT_PROMOT	1.1852815	2.2740776		3218
2.1031559	4.2964821	PROMOTER				
2.261272	4.7941399	PROMOTEI	1847.058			
2.2104397	4.6281631	PROMOTER				
2.285308	4.8746816	PROMOTER				
1.8120184	3.511332	PROMOTER				
2.1651375	4.4850918	PROMOTEI	671.8309	1.6096247	3.0517244	2229
2.0572	4.161778	PROMOTEI	167.9782			

1.8111867	3.5093083	PROMOTEI	1852.264				
2.2759604	4.8431994	PROMOTEI	490.3866	1.6938735	3.2352417	3736	
1.5924752	3.015663	PROMOTEI	158.4037				
2.2776546	4.8488902	PROMOTER					
1.635245	3.106403	DIVERGENT_PROMOTER					
1.7199047	3.2941465	PROMOTEI	141.7252				
2.6685224	6.3577769	PROMOTEI	147.2379				
2.1636348	4.4804226	PROMOTEI	245.2751	2.1557622	4.4560401	1721	
1.9798905	3.9446314	PROMOTEI	636.9106	1.5528826	2.9340279	5254	
1.7237933	3.3030374	DIVERGENT_PROMOT	1.4680436	2.7664649		4503	
2.129893	4.3768502	PROMOTEI	494.0068	1.0764945	2.1089056	3894	
1.7117057	3.2754785	PROMOTER					
1.9703989	3.9187646	PROMOTER		1.7560343	3.3776839	3733	
2.2684922	4.8181931	DIVERGENT_PROMOT	2.1420968	4.4140311		380	
2.063219	4.1791774	DIVERGENT_PROMOTER					
2.3652742	5.1525057	DIVERGENT_PROMOTER					
2.7523456	6.7381176	PROMOTEI	4838.691	1.5195967	2.8671089	4661	
1.6335863	3.1028335	DIVERGENT_PROMOTER					
1.828782	3.5523704	PROMOTEI	394.6784				
2.7294688	6.632114	PROMOTEI	212.9776				
1.889784	3.7057974	PROMOTER					
1.6012653	3.034093	PROMOTEI	94.88509				
2.1210155	4.3500003	PROMOTEI	2119.854	2.1023695	4.2941408	860	
1.6920582	3.2311735	PROMOTER		1.96813	3.9126064	2913	
2.3064182	4.9465347	PROMOTEI	265.2573				
2.3298798	5.0276346	PROMOTEI	4257.365	1.9357342	3.8257277	1965	
1.7676477	3.4049832	PROMOTEI	298.2318				
1.9849396	3.9584609	PROMOTEI	1372.278				
1.6978567	3.2441864	PROMOTEI	302.7046				
2.1871908	4.5541784	PROMOTER		1.8552068	3.6180361	4168	
2.0948927	4.2719439	PROMOTER					
1.8556886	3.6192446	PROMOTEI	149.7237				
1.8678575	3.6499014	DIVERGENT_PROMOT	1.7708591	3.4125711		3121	
2.1231508	4.3564434	PROMOTEI	159.2886	0.8899112	1.8530621	5045	
2.344361	5.0783541	PROMOTEI	160.5789				
2.1718314	4.5059503	PROMOTEI	620.0839				
2.0846353	4.2416786	PROMOTER					
1.725137	3.3061152	DIVERGENT_PROMOTER					
1.7561646	3.3779889	PROMOTEI	109.6729				
1.6942414	3.2360668	PROMOTEI	948.3173	1.2574838	2.390784	5164	
1.7002376	3.2495447	PROMOTEI	494.695				
2.2066176	4.615918	PROMOTER					
2.3379846	5.0559584	PROMOTEI	660.6837				
1.7307638	3.3190349	DIVERGENT_PROMOTER					
2.2613602	4.794433	PROMOTEI	181.4277				
2.354381	5.1137478	DIVERGENT_PROMOTER					
2.087298	4.2495144	PROMOTEI	139.5818				
2.1428804	4.4164292	PROMOTER					
2.4807146	5.5817387	PROMOTEI	244.2557				
1.9689176	3.914743	PROMOTER					
2.1030836	4.2962668	PROMOTER		1.7140083	3.2807105	3895	
1.7870587	3.4511058	PROMOTEI	517.0087	1.2858156	2.4381985	4850	
1.8157685	3.5204711	PROMOTER		1.43372	2.7014238	4560	
2.3137434	4.9717143	DIVERGENT_PROMOT	1.4930035	2.8147436		4283	
1.9139699	3.7684465	PROMOTEI	108.4561				
2.4570434	5.4909029	PROMOTEI	125.3625	1.7773571	3.4279762	5225	
1.8437072	3.5893117	PROMOTEI	224.435				
1.7612138	3.3898321	DIVERGENT_PROMOT	2.1356366	4.3943098		2409	

1.6853777	3.2162459	PROMOTEI	611.0683				
1.653116	3.145122	DIVERGENT_PROMOT	1.4989774	2.826423		3768	
1.8466885	3.5967366	PROMOTER					
1.7283553	3.3134986	PROMOTEI	1237.076				
1.7998997	3.4819602	PROMOTER					
1.8142078	3.5166647	DIVERGENT_PROMOTER					
1.5963798	3.0238358	PROMOTEI	964.0632	1.6766148	3.1967697	4247	
1.606199	3.0444867	PROMOTEI	140.0532				
2.2743948	4.8379464	PROMOTEI	159.6487	1.3523049	2.5531971	4258	
2.8830538	7.3771	DIVERGENT_PROMOTER					
2.26969	4.822195	PROMOTEI	2128.096				
1.7517956	3.3677746	PROMOTER					
1.6585984	3.1570966	PROMOTER					
2.3265011	5.015874	PROMOTER					
1.6032203	3.0382073	PROMOTEI	195.0697				
1.9657056	3.906037	PROMOTEI	691.8871				
1.8794733	3.6794071	PROMOTEI	198.2952				
1.8528398	3.6121049	PROMOTEI	109.0906	1.6379238	3.1121763	2577	
1.9609987	3.893314	PROMOTEI	4233.088	2.378524	5.2000446	1690	
1.8908046	3.7084199	PROMOTEI	6915.497	1.5279955	2.8838487	1896	
2.2561388	4.7771123	PROMOTEI	279.7865	1.3431932	2.5371225	3030	
1.8297632	3.5547872	PROMOTEI	256.8216				
2.4074175	5.3052381	PROMOTEI	314.2263	1.7523028	3.3689588	2883	
1.9679035	3.9119922	PROMOTEI	275.277				
1.6162294	3.0657274	DIVERGENT_PROMOTER					
2.2820501	4.863686	PROMOTER					
2.018118	4.0505505	PROMOTER		1.5247527	2.8773739	4492	
2.0522287	4.1474618	PROMOTEI	262.1652	1.5982536	3.0277658	2017	
2.3103087	4.959892	PROMOTER		1.3652769	2.5762577	1601	
2.232282	4.6987663	PROMOTEI	1550.677				
1.6942997	3.2361976	PROMOTEI	2056.127	1.7640607	3.3965279	115	
2.5229526	5.7475719	DIVERGENT_PROMOT	1.7033197	3.2564943		1151	
1.7060987	3.2627732	PROMOTEI	1471.481				
2.3652754	5.15251	DIVERGENT_PROMOTER					
1.9755682	3.932831	PROMOTEI	253.5165	1.5648218	2.9584096	1877	
2.056107	4.1586262	PROMOTER					
2.0404935	4.1138623	PROMOTER					
1.6522813	3.1433029	DIVERGENT_PROMOTER					
1.7194468	3.2931011	DIVERGENT_PROMOTER					
1.8182333	3.5264909	PROMOTER		1.5427432	2.9134796	2876	
1.7352779	3.3294362	DIVERGENT_PROMOTER					
1.8385088	3.5764017	PROMOTER					
1.7424318	3.3459869	PROMOTER					
1.6670523	3.1756508	PROMOTER					
1.9610184	3.8933672	DIVERGENT_PROMOTER					
2.0601246	4.1702232	PROMOTEI	883.134	1.6877264	3.2214862	1530	
1.7811812	3.4370747	PROMOTEI	437.6356				
2.4768589	5.5668411	PROMOTEI	1374.489				
2.1690526	4.4972797	DIVERGENT_PROMOTER					
2.048459	4.1366388	PROMOTEI	93.09155				
2.0295584	4.0827986	PROMOTEI	927.158	1.7280921	3.3128941	3870	
1.6165357	3.0663783	PROMOTEI	272.5314				
1.9257921	3.799454	PROMOTEI	290.5013	2.0325603	4.0913028	4209	
1.9727545	3.9251683	DIVERGENT_PROMOT	1.9703753	3.9187005		4683	
1.7995311	3.4810707	PROMOTEI	503.6905	1.492356	2.8134806	4054	
1.9077646	3.7522725	PROMOTEI	593.7806	1.6578201	3.1553939	4114	
1.6068314	3.0458215	PROMOTEI	700.5128				
1.9908946	3.974834	PROMOTEI	2184.052	2.3805456	5.2073364	164	

2.1825235	4.5394688	PROMOTEI	1393.228			
1.6110075	3.0546509	DIVERGENT_PROMOTER				
1.6789974	3.2020535	PROMOTEI	871.5081	1.7290746	3.315151	2959
1.8168521	3.5231163	PROMOTEI	312.6967			
1.7087013	3.2686645	PROMOTER				
2.132645	4.3852072	PROMOTEI	257.3077			
2.2478538	4.7497573	DIVERGENT_PROMOT	1.8533474	3.613376		3731
1.9137151	3.767781	PROMOTEI	108.4389	1.936062	3.8265971	4442
2.3564146	5.1209611	PROMOTEI	270.9424	1.6430765	3.1233116	4796
1.7145368	3.2819126	DIVERGENT_PROMOT	1.5575083	2.9434504		4635
1.8213947	3.534227	PROMOTEI	1332.719			
2.2338004	4.7037142	DIVERGENT_PROMOTER				
1.795727	3.4719039	DIVERGENT_PROMOTER				
2.210616	4.6287287	PROMOTEI	87.8842			
1.9336051	3.820086	DIVERGENT_PROMOT	1.7733467	3.4184604		3811
1.9393101	3.835222	PROMOTEI	118.3379			
2.1456046	4.4247765	PROMOTEI	324.0791			
1.7335122	3.3253638	PROMOTER				
2.0994875	4.2855712	PROMOTEI	149.3942	0.9587351	1.943605	4515
2.2263854	4.6796006	PROMOTEI	114.8965			
2.382649	5.214934	PROMOTEI	180.5801			
1.6472411	3.1323406	PROMOTEI	98.13789			
1.8269963	3.5479761	PROMOTEI	1351.072	1.7472672	3.3572203	2657
1.8170341	3.5235608	DIVERGENT_PROMOTER				
1.6903783	3.2274132	PROMOTER		2.285951	4.8768547	345
1.9256604	3.7991071	PROMOTER				
1.6293219	3.0936755	PROMOTEI	135.7695			
2.4407866	5.4293768	PROMOTEI	527.6913			
1.749818	3.3631614	PROMOTEI	151.2737			
2.173933	4.512519	DIVERGENT_PROMOT	1.8111091	3.5091196		3755
2.0437214	4.123077	PROMOTER				
2.3195744	4.9918494	DIVERGENT_PROMOTER				
1.7450439	3.3520505	PROMOTER				
1.9797407	3.9442218	PROMOTEI	225.7195			
1.7538677	3.3726151	PROMOTEI	188.9357			
2.105728	4.3041489	PROMOTEI	202.1159			
2.0028756	4.0079808	PROMOTEI	2936.18	1.9883896	3.9679383	4319
2.0744417	4.2118139	DIVERGENT_PROMOT	1.9655946	3.9057364		2519
2.6072023	6.0932093	DIVERGENT_PROMOTER				
2.4028428	5.2884421	PROMOTER				
1.8981361	3.7273133	PROMOTEI	1777.725	1.8147796	3.5180588	2352
2.214393	4.6408626	PROMOTEI	247.5987			
2.414856	5.3326624	PROMOTER				
1.8575395	3.6238908	PROMOTEI	545.7009			
1.7340012	3.3264912	DIVERGENT_PROMOTER				
1.9663122	3.9076796	PROMOTEI	843.7181			
1.63571	3.1074044	PROMOTEI	144.3777			
2.082202	4.2345304	PROMOTEI	1174.364	2.0738394	4.2100559	835
2.6221023	6.1564654	PROMOTER				
1.7606844	3.3885884	PROMOTER				
2.1557016	4.4558529	DIVERGENT_PROMOT	1.5147742	2.857541		1315
2.1198235	4.3464077	PROMOTEI	397.3643			
1.7891535	3.4561205	PROMOTEI	127.7042			
1.9354777	3.8250476	PROMOTEI	939.7617			
1.6208862	3.075639	PROMOTER				
1.6553212	3.1499331	PROMOTEI	116.2164	1.3218671	2.4998943	5494
1.672775	3.1882726	PROMOTEI	461.6561			
1.6036775	3.0391703	PROMOTEI	543.3641	1.1581049	2.2316409	5603

1.8800069	3.6807682	PROMOTEI	1104.536			
1.9466077	3.8546709	PROMOTEI	512.6923	2.2805088	4.8584927	113
2.0364196	4.1022619	PROMOTEI	457.2737	1.9935194	3.9820723	3216
1.6507006	3.1398608	PROMOTEI	194.4857			
2.2676723	4.8154556	DIVERGENT_PROMOT	786.4874	1.4487185	2.7296548	5402
2.1380208	4.4015779	PROMOTEI	786.4874			
1.9106528	3.7597919	PROMOTER				
2.0680485	4.1931909	PROMOTER				
1.7707925	3.4124136	PROMOTEI	129.2666			
2.1158476	4.334446	PROMOTEI	875.0965	1.3740481	2.5919683	4772
1.7798778	3.4339709	PROMOTEI	414.0797			
1.8579888	3.6250196	DIVERGENT_PROMOTER				
1.7617059	3.3909885	PROMOTEI	345.3091			
1.960269	3.8913453	PROMOTEI	362.1483			
1.6322571	3.0999761	PROMOTEI	161.9818			
1.820245	3.5314116	PROMOTEI	1478.389			
2.486349	5.6035807	PROMOTEI	295.6391			
1.9112774	3.76142	PROMOTEI	1305.399	1.3638269	2.5736697	2358
1.6458453	3.1293116	PROMOTEI	1205.637	1.3286041	2.5115954	4933
2.0440352	4.1239739	PROMOTER				
1.8190159	3.5284043	PROMOTEI	94.44121			
2.026223	4.0733704	PROMOTEI	631.3627	2.0334504	4.0938277	951
2.5253954	5.757312	PROMOTEI	146.6173			
1.6289071	3.0927862	PROMOTER				
1.8714495	3.6590002	PROMOTEI	3149.52			
1.8436761	3.5892343	PROMOTEI	78.73708			
1.765422	3.3997343	PROMOTEI	193.3517			

Normalized	Normalized	Type	transcript in	Normalized	Normalized	Rank (P2-NS_R1R2)
1.6641808	3.1693364	INSIDE	1205.333			
1.7895253	3.4570113	INSIDE		1.8574678	3.6237107	1820
1.7374331	3.3344137	INSIDE	284.7299	1.7219399	3.2987968	5320
2.0159597	4.0444953	INSIDE	388.1852	2.339335	5.0606931	60
1.9635946	3.9003257	INSIDE	100.8769			
1.9450874	3.850611	INSIDE	258.2985			
1.6250008	3.0844234	INSIDE	154.2141	2.0336509	4.0943967	818
1.8466482	3.5966361	INSIDE	377.399	2.4653392	5.5225677	1367
2.1562262	4.4574734	INSIDE	780.6179	1.8219479	3.5355824	5092
1.6561468	3.1517362	INSIDE				
1.6280873	3.0910292	INSIDE	4186.778			
1.86745	3.6488706	INSIDE		1.7157912	3.2847674	1091
1.7424614	3.3460556	INSIDE		2.20177	4.6004341	2996
1.9209907	3.7868301	INSIDE	856.277			
1.6462777	3.1302496	INSIDE	3437.965	1.9794722	3.9434879	550
1.7421713	3.3453828	INSIDE	100.1353			
1.7039843	3.2579948	INSIDE	295.6129	1.9629846	3.8986769	1077
1.8157147	3.5203398	INSIDE		1.7642744	3.397031	907
1.6925346	3.2322406	INSIDE				
1.9118686	3.7629617	INSIDE	111.8079			
1.8085002	3.5027796	INSIDE	607.9088	1.942125	3.8427124	845
1.586601	3.0034091	INSIDE	263.71	1.5256907	2.8792453	2412
1.7126392	3.2775986	INSIDE	503.0589			
1.607896	3.0480699	INSIDE	1227.98	1.656706	3.1529581	5774
1.6154163	3.064	INSIDE	1217.231	1.8170592	3.5236221	1273
1.7060262	3.2626092	INSIDE	117.8557	1.8579575	3.624941	1929
1.6448151	3.1270778	INSIDE	737.4813	2.0362327	4.1017305	4569

1.6579744	3.1557314	INSIDE		2.3523808	5.1066628	3342
1.6333283	3.1022787	INSIDE	121.7141			
1.6603727	3.1609817	INSIDE	132.7177	2.0160801	4.0448329	1985
1.6883689	3.2229212	INSIDE		1.6361945	3.1084481	2934
1.8919228	3.7112953	INSIDE	421.8677	2.2144747	4.6411255	2277
1.8609567	3.6324846	INSIDE	4648.278	1.4212313	2.6781399	3015
1.6045871	3.041087	INSIDE	117.5591	0.8144395	1.7586148	4792
1.6978728	3.2442226	INSIDE	173.0528	1.889183	3.7042539	3471
1.6129103	3.0586824	INSIDE	527.7981	1.666434	3.1742901	3729
1.80848	3.5027305	INSIDE	181.3971			
1.816853	3.5231185	INSIDE	386.188	1.0296743	2.0415633	3758
1.7276719	3.3119294	INSIDE	123.0554	1.9657097	3.9060481	2231
1.6769148	3.1974345	INSIDE	1874.011	1.7056141	3.2616774	5858
1.7655578	3.4000543	INSIDE				
1.6397083	3.1160282	INSIDE	134.3031	1.0088922	2.0123653	3227
2.174497	4.5142834	INSIDE	115.4983			
1.6678916	3.1774988	INSIDE	142.1826	1.4295824	2.6936873	4851
1.7499036	3.3633609	INSIDE				
1.9840165	3.9559289	INSIDE	119.7098			
1.7106726	3.2731338	INSIDE	5484.765	1.2412152	2.3639757	3252
1.8321196	3.5605981	INSIDE	865.9063	1.4885758	2.8061182	4910
1.9181648	3.7794199	INSIDE		2.2467387	4.7460875	1628
1.6610875	3.1625483	INSIDE	1095.024			
1.8167663	3.5229068	INSIDE	5544.171	1.4745449	2.7789597	1622
1.700478	3.2500862	INSIDE	279.5238	2.1275384	4.3697126	3082
1.7113214	3.2746062	INSIDE	353.8496			
1.9624254	3.897166	INSIDE	103.462	1.1655407	2.2431727	954
1.6152464	3.0636392	INSIDE	106.7266	1.5962867	3.0236407	4862
1.778561	3.430838	INSIDE	139.8229	2.066572	4.1889016	3314
1.7733849	3.4185509	INSIDE		1.7651284	3.3990425	2010
1.7060473	3.2626569	INSIDE		1.1842587	2.272466	4825
1.681135	3.2068014	INSIDE				
1.6425146	3.1220954	INSIDE	126.8279			
1.6388531	3.1141817	INSIDE		1.750943	3.3657849	3049
1.8385315	3.576458	INSIDE	474.6024			
1.850391	3.605979	INSIDE	1519.194			
1.9420675	3.8425592	INSIDE	187.492	2.1870368	4.5536923	6263
1.6381059	3.1125692	INSIDE	709.7413	1.431097	2.6965168	1600
1.9125873	3.7648367	INSIDE	475.8784	1.8167526	3.5228733	4392
1.7890397	3.4558478	INSIDE	173.0395			
1.8744599	3.6666432	INSIDE	513.7062	1.6908113	3.228382	4816
1.8662065	3.6457269	INSIDE	337.0405			
1.605901	3.0438579	INSIDE		1.2074951	2.3093632	3948
2.5563033	5.8819858	INSIDE	3287.983	2.408366	5.3087272	429
1.6213933	3.0767203	INSIDE	130.1738	1.6558441	3.151075	3194
1.6003073	3.0320789	INSIDE	153.2401	1.1596166	2.2339805	6049
1.7542819	3.3735836	INSIDE				
1.5949451	3.0208302	INSIDE	140.2023			
1.6187232	3.0710313	INSIDE	840.3356	1.820601	3.5322832	3048
1.7130827	3.2786064	INSIDE		1.3798454	2.6024048	2638
1.9696072	3.9166147	INSIDE	142.48			
1.8587449	3.6269199	INSIDE	615.9943	2.315339	4.977216	1129
1.7258437	3.3077351	INSIDE	2304.047			
2.0235744	4.0658991	INSIDE	169.6144	1.1841309	2.2722647	369
1.656904	3.1533909	INSIDE		1.7333727	3.3250423	4538
1.6285955	3.0921183	INSIDE	2615.273			
1.8485651	3.6014181	INSIDE	131.6597			
1.8522447	3.6106153	INSIDE		2.300977	4.9279137	158

1.762522	3.3929073	INSIDE	309.2328	1.6779041	3.1996278	2131
1.6922498	3.2316026	INSIDE		1.9189414	3.7814549	4492
1.6864167	3.218563	INSIDE	101.0602			
1.6180189	3.0695324	INSIDE	132.6257			
1.6850107	3.2154278	INSIDE	145.0877			
1.8833762	3.6893744	INSIDE	209.1509			
1.6170617	3.0674965	INSIDE	291.8951			
1.6809813	3.2064598	INSIDE	1971.721			
1.5909344	3.012444	INSIDE	3135.627	1.1547339	2.2264325	6120
1.6186191	3.0708097	INSIDE	651.0538	2.086282	4.2465228	3324
1.7316741	3.3211298	INSIDE				
1.9964249	3.9901	INSIDE	159.021			
1.8592088	3.6280864	INSIDE	155.0118			
1.6658388	3.1729808	INSIDE	826.5395	0.8396721	1.7896433	3826
1.9703704	3.9186872	INSIDE				

enes)

Normalized	Normalized	Type	transcript in	Normalized	Normalized	Rank (P2-12H_R1R2)
2.8375747	7.1481737	INSIDE	111.167	2.0925217	4.2649289	433
2.2998898	4.9242015	INSIDE		1.4999393	2.8283081	485
2.2629132	4.7995968	INSIDE		1.859372	3.6284968	406
2.2975895	4.9163564	INSIDE	808.4681	1.8624985	3.6363687	367
1.8664103	3.646242	INSIDE	118.0477	1.7875012	3.4521645	194
2.2097898	4.6260787	INSIDE		1.6224446	3.0789631	1741
2.3097856	4.9580939	INSIDE	119.7771	2.3015075	4.9297261	171
2.6143115	6.1233091	INSIDE	1002.125	2.2295737	4.6899538	349
2.4197028	5.3506079	INSIDE	182.0202	1.8446596	3.5916819	2283
3.028988	8.1623694	INSIDE	184.7832	1.4420102	2.7169918	1374
1.8612074	3.6331159	INSIDE	239.5239	2.2624505	4.7980577	388
1.8808694	3.6829694	INSIDE	768.0961	2.312153	4.9662366	152
2.0473123	4.1333522	INSIDE		2.190279	4.5639374	675
2.6680353	6.3556307	INSIDE	369.5122	2.520149	5.7364134	107
2.2192128	4.6563929	INSIDE	194.5683	1.5617547	2.9521268	747
1.9391494	3.8347949	INSIDE	491.7883	1.297024	2.4572148	3091
2.4804387	5.5806714	INSIDE	196.4861	2.0281625	4.0788501	1039
2.408512	5.3092644	INSIDE	146.2722	1.6248529	3.0841072	1454
2.817801	7.0508686	INSIDE	527.1342	1.7205334	3.2955823	1174
3.1867988	9.1058822	INSIDE	311.6694	1.4111937	2.6595713	197
1.985539	3.9601059	INSIDE		1.9268812	3.8023233	213
2.4753368	5.5609709	INSIDE		1.699116	3.2470194	486
2.3147657	4.9752385	INSIDE		1.8921678	3.7119256	4184
2.5717266	5.9452052	INSIDE	3166.377	1.9164581	3.7749515	220
2.7233937	6.6042453	INSIDE	243.1206	2.3193772	4.9911671	231
2.9525435	7.7411264	INSIDE		2.084415	4.2410309	289
1.9912268	3.9757493	INSIDE	334.4827	2.2743917	4.8379361	180
3.3878675	10.467663	INSIDE		2.6741352	6.38256	847
2.0655549	4.1859495	INSIDE	170.1185	1.3698301	2.5844013	3647
2.185232	4.5479992	INSIDE	423.0923	1.3900356	2.6208515	2214
2.301821	4.9307975	INSIDE	263.6499			
1.7636384	3.3955338	INSIDE	610.1351	1.460811	2.7526306	783
2.2300425	4.691478	INSIDE		1.437541	2.7085881	1983
2.5065196	5.6824757	INSIDE	970.579	1.5861181	3.002404	3598
2.2274835	4.6831638	INSIDE	129.283	2.2369792	4.7140897	633
2.068089	4.1933086	INSIDE	773.8264	2.0964093	4.276437	351
1.7399341	3.3401991	INSIDE		1.4785621	2.7867085	2400
2.221052	4.6623328	INSIDE		1.7472124	3.3570928	828
2.223963	4.6717498	INSIDE	85.11141	1.0198691	2.027735	5416

1.784177	3.4442193	INSIDE		1.4654926	2.7615775	2463
2.7859783	6.8970446	INSIDE		1.6547915	3.1487768	627
2.209249	4.6243449	INSIDE	64.19047	1.47982	2.7891393	1159
1.9052974	3.7458611	INSIDE	484.3774	1.8343551	3.5661196	1550
2.3117988	4.9650175	INSIDE	277.4359	1.8578132	3.6245784	2439
2.4730022	5.5519793	INSIDE		1.997407	3.9928171	2023
2.3727357	5.1792231	INSIDE	658.8298	1.7994046	3.4807654	909
2.0546515	4.1544327	INSIDE	412.9338	1.7846016	3.4452331	982
2.4191656	5.3486159	INSIDE	178.7338	2.4685416	5.53484	54
2.175274	4.5167154	INSIDE	129.6524	1.6926628	3.2325279	641
1.6728187	3.1883692	INSIDE	136.9188	1.4856026	2.8003412	578
2.08624	4.2463992	INSIDE	91.56937	1.5451422	2.9183283	2263
2.775311	6.8462359	INSIDE		1.8042567	3.4924917	1556
2.2829192	4.8666169	INSIDE	171.8482	1.7998077	3.4817381	1144
2.107639	4.309854	INSIDE	164.995	1.4414872	2.716007	2643
2.4318314	5.3957795	INSIDE	166.6037	1.6764159	3.196329	1459
1.7939395	3.4676048	INSIDE	123.5355	2.1443954	4.4210695	863
2.4389322	5.4224025	INSIDE	347.4851	1.8891443	3.7041546	249
2.4314752	5.3944475	INSIDE		2.084725	4.2419423	520
2.043989	4.1238418	INSIDE		2.2476065	4.7489432	2146
2.0991437	4.28455	INSIDE	280.2976	1.2605532	2.3958759	1292
2.3211567	4.9973273	INSIDE	231.8985	1.3508043	2.5505428	1588
2.5858605	6.0037358	INSIDE		1.8337508	3.5646262	1212
2.155528	4.4553167	INSIDE		1.759752	3.3863991	4904
2.0069482	4.019311	INSIDE	272.2134	1.931836	3.8154045	269
2.0938323	4.2688051	INSIDE		1.8443022	3.5907923	707
2.5716407	5.9448512	INSIDE	719.1517	1.7354544	3.3298436	4244
2.0304	4.085181	INSIDE	733.639	1.1968027	2.2923109	494
2.0798883	4.2277448	INSIDE		1.3283998	2.5112398	3765
2.5586658	5.8916258	INSIDE		1.498577	2.8256387	1160
1.72061	3.2957573	INSIDE	181.3087	2.2349508	4.7074664	1341
2.1543746	4.4517562	INSIDE		1.5111688	2.8504087	1146
1.9990491	3.9973644	INSIDE	639.1933	1.4064484	2.6508378	3079
2.2137053	4.638651	INSIDE		1.9349359	3.8236114	646
2.195788	4.5813983	INSIDE	722.7895	1.8144933	3.5173607	684
2.4626877	5.5124272	INSIDE		1.679259	3.2026341	1270
2.5697937	5.9372452	INSIDE		2.0620193	4.1757036	286
1.9990366	3.9973298	INSIDE		1.6368852	3.1099367	2884
2.2726483	4.8320933	INSIDE		1.7484729	3.3600272	2332
2.476497	5.5654448	INSIDE	692.4073	1.8052182	3.4948201	2026
2.5021813	5.6654137	INSIDE	143.9918	1.8234928	3.5393705	3391
2.9120355	7.5267941	INSIDE		2.2638676	4.8027729	1665
2.626968	6.177264	INSIDE		2.004299	4.0119371	1796
2.5917678	6.0283693	INSIDE		2.0345402	4.0969214	2957
2.793723	6.934169	INSIDE	143.8819	2.5602856	5.8982444	978
1.9768718	3.9363863	INSIDE	632.1733	2.1374655	4.399884	118
2.0671349	4.1905363	INSIDE		1.6448404	3.1271326	2338
2.1724126	4.5077659	INSIDE		2.5875568	6.0107991	160
2.5342784	5.7928704	INSIDE	303.0901	2.1586845	4.4650753	2180
2.4235556	5.3649161	INSIDE		2.0536964	4.1516833	1251
2.0604773	4.1712428	INSIDE	417.2693	1.547163	2.9224189	1066
2.4051538	5.2969203	INSIDE	466.0934	1.7540689	3.3730855	1182
2.1759403	4.5188019	INSIDE	144.4429	1.3181865	2.4935247	2962
1.9306926	3.8123818	INSIDE	146.2673	1.7874346	3.4520051	1239
2.252278	4.7643454	INSIDE	191.2563	1.6183531	3.0702435	5053
1.9594116	3.8890333	INSIDE		1.586066	3.0022955	2072
2.233671	4.7032923	INSIDE		1.6398963	3.1164343	2304
1.8361222	3.5704903	INSIDE	110.0023	1.7085725	3.2683727	1078

2.1124008	4.3241027	INSIDE	165.4915	1.7455342	3.3531899	2618
2.106085	4.3052141	INSIDE	167.4689	1.6246179	3.0836048	1418
2.2020247	4.6012463	INSIDE	1199.886	2.2084231	4.6216983	187
2.5942218	6.0386322	INSIDE	265.5132	1.8754082	3.6690542	2503
2.4398859	5.4259882	INSIDE		2.0009582	4.0026576	2551
1.8770357	3.6731955	INSIDE	169.0238	1.7229122	3.3010207	824
2.5141346	5.7125489	INSIDE	184.4141	2.117524	4.3394855	3792
1.9943556	3.984381	INSIDE	784.9267	1.3372488	2.5266902	1531
1.9226791	3.7912645	INSIDE	228.2984	1.993757	3.9827281	1246
2.3207796	4.9960212	INSIDE	141.4496	1.6702182	3.1826273	2314
2.4148078	5.3324843	INSIDE	509.279	1.8094907	3.5051853	2203
1.9820945	3.9506622	INSIDE	214.8001	1.7605764	3.3883347	2553
1.8604724	3.6312655	INSIDE	125.689	1.4133959	2.6636341	771
2.0427215	4.1202204	INSIDE	272.1078	2.6895099	6.4509422	265
2.1034374	4.2973206	INSIDE	152.5477	1.4435546	2.7199019	1929
2.4023063	5.2864759	INSIDE	176.1994	1.538035	2.903987	1532
2.0451322	4.1271109	INSIDE	242.1581	1.4866678	2.8024095	3634
2.5528216	5.8678077	INSIDE	207.977	2.584158	5.9966551	11
1.911228	3.7612912	INSIDE	1168.667			
2.876752	7.3449466	INSIDE		1.3606923	2.5680838	1724
2.4607189	5.5049097	INSIDE		1.881746	3.6852079	301
2.4135246	5.3277434	INSIDE	124.7735	1.8911163	3.7092212	1121
2.510322	5.6974723	INSIDE	388.6622	1.8765495	3.6719579	674
2.3837004	5.2187359	INSIDE	458.3983	1.8278325	3.5500332	225
2.686612	6.4379974	INSIDE				
2.3121629	4.9662707	INSIDE	1578.505	2.0749226	4.2132181	204
2.1894944	4.561456	INSIDE	712.011	2.203273	4.6052293	420
2.0911736	4.2609455	INSIDE	247.8007	1.7109666	3.2738009	2446
2.772717	6.8339372	INSIDE	311.3307	1.9801055	3.9452193	3359
2.1726818	4.5086071	INSIDE		1.3578471	2.5630242	4342
1.978255	3.9401621	INSIDE	112.3223	1.6312882	3.0978949	383
1.8246149	3.5421244	INSIDE		1.557458	2.9433477	1209
2.3727016	5.1791007	INSIDE		1.5572689	2.942962	5039
1.9478092	3.8578825	INSIDE	182.5349	1.9165742	3.7752553	332
2.392839	5.2518984	INSIDE	421.0205	1.9637117	3.9006423	447
2.7382011	6.6723784	INSIDE	229.679	2.1493714	4.4363445	1007
1.9586409	3.8869563	INSIDE		1.528027	2.8839117	1519
2.204144	4.6080105	INSIDE		1.3621266	2.5706382	2120
2.3773634	5.195863	INSIDE	124.6984	1.9275916	3.8041961	2054
2.5504863	5.8583172	INSIDE	149.4233	1.9315051	3.8145294	3507
1.8765643	3.6719955	INSIDE		1.7583764	3.3831717	601
1.8043506	3.4927191	INSIDE				
2.0834484	4.2381904	INSIDE	571.0599	1.4783494	2.7862977	2642
2.0570533	4.1613548	INSIDE		1.7631332	3.394345	2064
2.0921123	4.2637188	INSIDE		1.8234454	3.5392542	720
1.673892	3.1907421	INSIDE		1.7934912	3.4665275	353
2.3335028	5.0402762	INSIDE	188.5048	1.4738204	2.7775645	2517
2.2216487	4.6642616	INSIDE	117.6286	1.3396821	2.5309554	2818
2.5835254	5.9940262	INSIDE	523.0806	1.2507136	2.379591	1755
2.0312667	4.0876359	INSIDE	193.6056			
1.7706007	3.4119599	INSIDE	198.1243	1.7533842	3.371485	389
2.1661286	4.488174	INSIDE	545.3147	1.2861992	2.4388469	2746
2.158046	4.4630996	INSIDE		1.50638	2.8409629	3156
2.1466289	4.4279192	INSIDE	313.5471	1.5725213	2.9742405	3732
1.8467193	3.5968134	INSIDE		2.1584694	4.4644096	307
2.0199497	4.0556965	INSIDE	882.243	2.282878	4.8664779	188
1.8571149	3.6228245	INSIDE	205.9295	1.9548365	3.8767199	2225
1.9908174	3.9746213	INSIDE	383.42	2.012341	4.0343633	1090

2.2782729	4.8509688	INSIDE		1.8433621	3.5884532	1205
2.1141477	4.3293418	INSIDE	167.3421	1.9171299	3.7767097	529
2.1883912	4.5579693	INSIDE	290.6799	1.8204633	3.531946	1667
2.1240268	4.3590894	INSIDE	178.267	1.8627278	3.6369467	392
1.6809027	3.2062851	INSIDE		1.4483312	2.7289221	3160
2.0705464	4.2004573	INSIDE	1240.499	1.7137706	3.28017	2776
1.9885011	3.968245	INSIDE	137.3601			
2.985568	7.9203709	INSIDE	690.5484	2.254939	4.7731412	2936
2.3719425	5.1763763	INSIDE	142.2173			
2.128224	4.3717897	INSIDE	98.27532	1.547515	2.923132	2271
1.8835703	3.6898708	INSIDE	133.1719	1.5030097	2.8343338	2288
2.2470145	4.7469949	INSIDE	130.1426	1.9245082	3.7960742	1211
2.075196	4.2140166	INSIDE	199.4873	1.9135579	3.7673704	3393
2.1592536	4.466837	INSIDE	1607.072	1.9612927	3.8941075	731
2.4424314	5.4355703	INSIDE	148.6824	1.744288	3.3502947	648
2.5272262	5.7646228	INSIDE	552.7131	2.0243404	4.0680584	2323
1.6854539	3.2164158	INSIDE	189.7815	1.2271308	2.3410095	2138
2.2390137	4.7207422	INSIDE	124.1791	2.078392	4.2233623	498
2.2403913	4.7252521	INSIDE	445.0245	1.6999602	3.24892	2800
2.1833358	4.5420255	INSIDE	119.9473	1.659177	3.158363	1829
2.1086812	4.3129686	INSIDE	227.097	1.9450418	3.8504893	784
2.469811	5.5397121	INSIDE	4387.774	2.0205026	4.0572511	774
2.1514227	4.4426568	INSIDE	272.1976	2.1477242	4.4312822	1142
2.440641	5.4288288	INSIDE	332.7159	1.6531649	3.1452286	2086
3.0274036	8.1534102	INSIDE				
2.4583783	5.4959859	INSIDE	181.2563	1.1982882	2.2946724	3116
2.070277	4.199673	INSIDE	184.49	1.844062	3.5901945	2417
2.3737319	5.1828006	INSIDE	110.6935			
2.0840452	4.239944	INSIDE	138.0311	1.5850431	3.0001676	2296
2.5075462	5.6865207	INSIDE		1.6912446	3.2293518	927
2.370043	5.1695654	INSIDE	315.277	1.8002131	3.4827166	3064
2.5532606	5.8695935	INSIDE	240.7241			
2.1942792	4.5766095	INSIDE		1.7854755	3.4473207	2191
1.8305242	3.5566628	INSIDE		1.2881125	2.4420834	3239
1.5970699	3.0252826	INSIDE		1.0713328	2.1013738	3730
2.1929193	4.5722976	INSIDE		1.4973048	2.8231481	3908
2.0928068	4.2657718	INSIDE	127.9155	1.3963087	2.6322722	2766
2.4721851	5.5488358	INSIDE	923.4659	1.5002722	2.8289608	2886
1.793748	3.4671446	INSIDE		1.4277911	2.6903448	2322
1.9283851	3.806289	INSIDE		1.6737002	3.1903179	1901
2.0111327	4.0309858	INSIDE	169.7178	1.7395493	3.3393083	1583
2.3520083	5.1053444	INSIDE		1.1285677	2.1864157	3251
1.6405689	3.1178876	INSIDE	290.1361	1.7160751	3.2854138	1396
2.0651743	4.1848453	INSIDE		1.63026	3.0956878	2976
2.6827867	6.4209497	INSIDE		2.583475	5.9938168	283
2.2455583	4.7422059	INSIDE		1.4108233	2.6588885	2873
2.0535834	4.1513581	INSIDE		1.8629982	3.6376285	3533
2.0211542	4.059084	INSIDE	864.2783	1.4804145	2.7902889	1833
1.8768755	3.6727877	INSIDE		2.2065198	4.6156051	1507
1.8689771	3.652735	INSIDE	1285.821	1.6222925	3.0786386	2718
2.2341933	4.7049954	INSIDE	407.0571	1.6221141	3.0782579	895
2.2318504	4.6973608	INSIDE	127.6055	2.2513864	4.7614019	1124
1.8931404	3.7144289	INSIDE	301.0237	1.8158962	3.5207827	2380
1.9901757	3.9728538	INSIDE	167.4585	1.9846083	3.957552	1899
2.438614	5.4212066	INSIDE				
1.9255134	3.7987201	INSIDE		1.4448156	2.7222803	1393
1.9185113	3.7803277	INSIDE	200.9917	1.4619792	2.7548604	2753
2.2667809	4.8124812	INSIDE	671.1576	1.8698092	3.6548424	2147

2.210368	4.6279331	INSIDE	109.6214	1.7314698	3.3206595	2032
1.989217	3.9702146	INSIDE	730.7988	1.5223051	2.8724964	538
1.8035759	3.490844	INSIDE	691.5104	1.4001153	2.6392267	1927
1.8393581	3.5785077	INSIDE	433.7361	1.8532636	3.6131662	1231
2.146466	4.4274193	INSIDE	162.0919	1.7218312	3.2985482	858
1.9302267	3.8111508	INSIDE		1.6950552	3.2378928	1638
1.612327	3.057446	INSIDE	254.3369	1.4300053	2.6944771	2373
1.7637985	3.3959106	INSIDE	2979.846	1.4090196	2.6555664	1850
1.6910515	3.2289196	INSIDE		1.3521467	2.5529171	5583
2.0323668	4.090754	INSIDE	137.5924	1.762855	3.3936905	711
1.7325892	3.323237	INSIDE	1877.345	2.1848865	4.5469102	97
2.0796027	4.226908	INSIDE	209.5804	2.1366403	4.3973681	1050
2.3674147	5.1601561	INSIDE	1459.399	1.4674946	2.7654123	5149
2.3527193	5.1078611	INSIDE		2.354897	5.1155771	44
2.3279665	5.0209714	INSIDE	112.4486	1.7315722	3.3208952	4457
2.1961343	4.5824982	INSIDE	65.76645	2.3121822	4.9663371	544
1.9737885	3.9279825	INSIDE	157.989	1.338974	2.5297135	4680
2.5873406	6.0098984	INSIDE	591.605	2.5831716	5.9925565	226
2.4503896	5.4656368	INSIDE		1.9400733	3.8372514	2780
1.7927364	3.4647143	INSIDE	254.0923	1.573722	2.9767169	1946
2.7941232	6.9360928	INSIDE		2.2408316	4.7266944	1526
2.4693272	5.5378547	INSIDE	125.9002	1.9941831	3.9839046	2661
2.4710922	5.5446339	INSIDE	598.233	1.5522105	2.9326614	151
1.6546096	3.1483798	INSIDE	152.9174	1.162722	2.2387943	3375
2.1154342	4.3332041	INSIDE	156.2063	1.8501804	3.6054527	2926
1.6295438	3.0941514	INSIDE	1007.945	1.6627225	3.1661344	2591
1.8462497	3.5956428	INSIDE				
2.0661187	4.1875857	INSIDE		1.853819	3.6145574	1799
2.0882354	4.2522765	INSIDE	196.7813			
1.898205	3.7274913	INSIDE		2.006313	4.0175417	3004
2.1617455	4.474559	INSIDE		1.8221806	3.5361528	1761
1.8394396	3.5787099	INSIDE	1610.714	1.8367785	3.5721149	2365
1.9268385	3.8022107	INSIDE	213.7794			
2.559145	5.8935831	INSIDE	848.5114	1.3109308	2.4810156	3722
1.8090531	3.5041222	INSIDE		1.9577155	3.8844639	691
2.039538	4.1111386	INSIDE		1.6794502	3.2030586	3582
2.2839508	4.870098	INSIDE	1139.54	2.1306424	4.3791243	1726
2.4039278	5.2924209	INSIDE	202.1522	1.7362493	3.3316788	823
1.7600229	3.387035	INSIDE		1.4093013	2.656085	4491
1.8816638	3.6849979	INSIDE	460.1884	1.4185482	2.6731637	3044
2.3884172	5.2358262	INSIDE	421.7219	1.683248	3.2115016	1517
2.395573	5.2618605	INSIDE	1388.453			
2.458227	5.4954095	INSIDE	1004.281	1.7708186	3.4124753	563
1.934601	3.8227239	INSIDE		1.6178546	3.0691829	5252
1.8574929	3.6237738	INSIDE		2.0914965	4.2618993	1928
2.0822945	4.2348019	INSIDE	594.4813	1.7030195	3.2558167	810
2.2270627	4.681798	INSIDE	1372.753	1.5796628	2.9889998	5306
2.3786736	5.2005839	INSIDE		1.4676538	2.7657175	1898
1.777759	3.4289313	INSIDE	152.9968	1.4057746	2.6496	2697
2.1504776	4.4397474	INSIDE	164.8839	1.8273116	3.5487516	3956
2.1841936	4.5447269	INSIDE		1.9153179	3.7719692	4913
2.0448325	4.1262536	INSIDE		1.6760762	3.1955764	1858
1.7822987	3.439738	INSIDE	130.1641	1.4232676	2.6819226	3948
1.8701305	3.6556565	INSIDE	118.4413	1.6261356	3.0868505	2458
2.2056704	4.6128884	INSIDE		1.2454132	2.3708645	1845
1.768073	3.4059872	INSIDE	120.6753	1.5998377	3.0310921	373
2.2569559	4.7798187	INSIDE	81.92689	1.9207608	3.7862267	588
2.1731904	4.5101968	INSIDE	701.0256	1.2802669	2.4288391	1006

2.7418303	6.6891843	INSIDE	285.0641	2.3061368	4.94557	1804
2.9845092	7.9145603	INSIDE	152.0555	1.2771642	2.4236211	3530
2.376256	5.1918763	INSIDE	221.9313	1.9243374	3.7956248	866
2.1115732	4.3216229	INSIDE	602.3559	1.7099364	3.271464	394
2.012173	4.0338935	INSIDE		1.7911205	3.4608358	2215
1.8908973	3.7086582	INSIDE	141.5529	1.3617021	2.569882	1640
2.0090103	4.02506	INSIDE	481.1596	1.4158952	2.6682525	1019
2.453582	5.4777446	INSIDE		1.8248353	3.5426656	4550
2.009387	4.0261111	INSIDE		1.3175505	2.4924257	3511
2.397345	5.2683274	INSIDE		1.7191932	3.2925223	2587
2.4002235	5.2788494	INSIDE		1.6869015	3.2196447	2945
2.45373	5.4783066	INSIDE				
2.1858952	4.5500904	INSIDE	142.43	1.6019658	3.0355665	1201
2.0589776	4.166909	INSIDE		1.6567494	3.153053	2882
2.4917276	5.6245107	INSIDE	104.266	2.3462937	5.0851619	1371
1.6368203	3.1097968	INSIDE	701.3575	1.5057576	2.8397375	2399
1.6548643	3.1489357	INSIDE	159.0191			
1.7791009	3.4321222	INSIDE	319.5077	1.9409398	3.8395568	2511
2.2588167	4.7859877	INSIDE	2912.286	1.6418308	3.1206159	589
1.9035461	3.7413167	INSIDE		1.5772438	2.9839923	2624
2.430279	5.3899766	INSIDE	638.123	1.7669659	3.4033745	241
2.4541075	5.4797402	INSIDE				
2.447306	5.4539671	INSIDE	158.1844	1.0963988	2.138203	4598
2.1066618	4.3069357	INSIDE		1.2389197	2.3602173	5437
1.9107355	3.7600074	INSIDE	122.1442	1.6518922	3.1424552	845
2.2915528	4.8958277	INSIDE	138.6192	1.1289269	2.1869601	5356
1.7211196	3.2969216	INSIDE	235.2921	1.4722805	2.7746013	692
1.9321479	3.8162294	INSIDE	583.9292	1.6631693	3.1671151	1870
1.9100791	3.7582971	INSIDE	1219.201	1.9352534	3.824453	657
2.910894	7.520841	INSIDE		2.0003107	4.0008615	2794
1.9975885	3.9933195	INSIDE	303.2093	1.9451027	3.8506519	2125
2.1861658	4.5509439	INSIDE	1742.264	1.837009	3.5726857	1148
2.050461	4.1423831	INSIDE	227.4205	1.4595286	2.7501849	1309
2.6986253	6.4918304	INSIDE		2.1564212	4.458076	3614
2.2505376	4.7586014	INSIDE		1.605379	3.0427567	3332
3.500966	11.321286	INSIDE	621.0236	2.7219076	6.5974458	561
2.0286016	4.0800918	INSIDE	229.0647	1.3458482	2.5417959	2053
2.2383254	4.7184905	INSIDE	915.2507	1.5473145	2.9227258	4706
2.0690737	4.1961717	INSIDE	282.4068	1.5923069	3.0153112	4788
2.0562034	4.158904	INSIDE	299.7747			
2.325388	5.0120055	INSIDE		2.0490987	4.1384734	1157
1.9799756	3.9448641	INSIDE		1.4517678	2.7354303	4152
1.8505881	3.6064717	INSIDE	1189.601	1.558736	2.9459562	743
1.743193	3.3477528	INSIDE		1.7141398	3.2810096	950
1.9111425	3.7610683	INSIDE	457.1897	1.451353	2.7346439	1586
2.2601705	4.7904809	INSIDE	375.4656	1.5270799	2.8820191	2589
1.8656284	3.6442663	INSIDE	1382.266	1.6732917	3.1894147	391
1.8392049	3.5781278	INSIDE	1386.274	1.6635691	3.1679929	1584
2.1110528	4.3200643	INSIDE	107.5819			
2.137539	4.4001082	INSIDE	104.4543	2.1643267	4.4825718	3510
2.5165167	5.7219889	INSIDE	172.5909	1.5825621	2.9950127	4080
1.8338512	3.5648743	INSIDE	240.8713	2.1904175	4.5643756	395
1.6130723	3.0590259	INSIDE	284.9974	1.4826607	2.7946366	1207
1.7113237	3.2746114	INSIDE	217.1827	1.672593	3.1878704	1308
1.6611392	3.1626616	INSIDE	246.5857			
2.1380658	4.4017152	INSIDE		1.8611377	3.6329404	4429
2.2962942	4.9119443	INSIDE	5109.38	2.2014732	4.5994878	147
1.6079646	3.0482149	INSIDE	598.8149	1.4369891	2.7075521	1261

2.1072578	4.3087154	INSIDE	135.1942	1.4479718	2.7282423	1267
2.5629702	5.9092302	INSIDE	2412.541	1.809819	3.505983	792
2.2861145	4.8774075	INSIDE	1471.506	2.2652879	4.8075035	1703
2.0721369	4.2050906	INSIDE	221.2972	1.8091636	3.5043906	2731
1.9672248	3.9101523	INSIDE	401.9295	1.8821412	3.6862175	3041
2.0436678	4.1229238	INSIDE	358.3913	2.0296483	4.083053	376
2.0227492	4.0635741	INSIDE	178.4209	1.4509314	2.7338449	1469
1.714152	3.2810373	INSIDE	256.8859	1.2925341	2.4495795	3426
2.0573113	4.1620991	INSIDE	167.052	1.6230373	3.0802283	971
1.9630086	3.8987418	INSIDE		1.5579665	2.9443854	2982
2.0077906	4.0216586	INSIDE	189.2502			
2.0049806	4.013833	INSIDE	113.8236	1.8665519	3.6465999	4030
1.6308427	3.0969384	INSIDE		1.3303916	2.5147092	5490
1.9636151	3.9003811	INSIDE	147.1695	1.6922262	3.2315497	182
2.3875856	5.232809	INSIDE	159.34	1.7723001	3.4159814	1735
2.290787	4.8932297	INSIDE		1.7921851	3.4633906	2965
1.7919959	3.4629364	INSIDE		1.9644647	3.9026787	1593
2.4441843	5.4421786	INSIDE	1586.311			
2.406736	5.3027326	INSIDE	109.4401	1.618027	3.0695496	4189
2.0538433	4.1521061	INSIDE		1.3341509	2.5212705	1976
2.1813653	4.535826	INSIDE	1576.65	1.5632446	2.9551771	2477
1.6201502	3.0740704	INSIDE	134.7203	1.6158732	3.0649705	1621
1.8022598	3.487661	INSIDE	1075.283			
1.9093935	3.7565115	INSIDE	312.9607			
2.1814058	4.5359533	INSIDE				
1.7418	3.3445219	INSIDE	153.828			
2.8810503	7.3668624	INSIDE		1.6863095	3.2183238	4038
2.135145	4.3928127	INSIDE	227.084	1.5823809	2.9946365	3368
1.6270512	3.0888101	INSIDE	1144.016	1.5510637	2.9303311	816
2.551656	5.8630689	INSIDE	281.5546	1.7578413	3.3819171	3971
1.9925634	3.9794344	INSIDE	264.2571	2.0720553	4.2048528	1405
1.855987	3.6199932	INSIDE				
2.056027	4.1583956	INSIDE	198.7097	1.6030527	3.0378543	1736
2.3673458	5.1599096	INSIDE	1733.646	2.0060751	4.0168793	1312
1.832019	3.5603498	INSIDE	765.7555	1.4214642	2.6785722	4088
1.9878975	3.9665851	INSIDE	161.3041			
2.265206	4.8072306	INSIDE		1.2726252	2.4160079	4073
1.8904998	3.7076365	INSIDE	662.0906	1.9690499	3.915102	138
2.6319206	6.1985063	INSIDE	1149.458	2.3872025	5.2314196	201
2.486824	5.6054259	INSIDE	2604.21	1.7586411	3.3837925	1944
1.817576	3.5248845	INSIDE		1.3999164	2.6388629	2721
1.662991	3.1667237	INSIDE	198.2827	1.5307918	2.8894438	763
2.1891248	4.5602876	INSIDE		1.7993305	3.4805867	5553
2.375782	5.1901707	INSIDE		1.9124386	3.7644487	1730
1.9518875	3.8688036	INSIDE				
1.9096594	3.7572039	INSIDE	415.7237	1.9007456	3.7340613	1488
1.7780238	3.4295607	INSIDE	532.393	1.2418519	2.3650192	5488
1.7949364	3.4700018	INSIDE	225.8578	1.828006	3.5504601	167
2.377895	5.1977779	INSIDE	1060.592	2.7961192	6.9456957	32
2.0615914	4.1744653	INSIDE				
2.2966616	4.9131953	INSIDE	1350.177	1.7003417	3.2497792	4704
2.2486296	4.7523121	INSIDE	641.6601	1.9089124	3.755259	1234
1.6776204	3.1989987	INSIDE		1.4697598	2.7697577	5133
1.9658931	3.9065446	INSIDE	231.8215	1.0289881	2.0405925	3758
1.997765	3.9938081	INSIDE	235.5584	1.2404469	2.3627171	5280
2.3174615	4.9845439	INSIDE		1.4828347	2.7949737	4707
1.6645298	3.1701032	INSIDE	276.8564	1.6417198	3.1203758	1938
2.1628017	4.477836	INSIDE	528.351	2.0608213	4.1722375	614

1.9635094	3.9000954	INSIDE	360.0823	1.6544755	3.1480872	1857
1.8256518	3.5446712	INSIDE	340.476			
1.7108598	3.2735586	INSIDE	99.69802			
2.1745281	4.5143807	INSIDE	195.0561	1.4329389	2.6999616	1104
1.7257812	3.3075918	INSIDE		1.7308847	3.3193131	1479
2.5868006	6.0076493	INSIDE		2.3012373	4.9288029	654
2.4587188	5.4972832	INSIDE	122.0674	1.4680332	2.7664449	1533
1.8685336	3.6516123	INSIDE		1.4495113	2.7311552	2198
2.2102656	4.6276046	INSIDE		1.2416877	2.36475	3429
1.7024304	3.2544876	INSIDE		1.2739968	2.418306	2938
2.041819	4.1176437	INSIDE	167.4206	1.7995754	3.4811776	722
2.4918973	5.6251724	INSIDE	614.3368			
3.2335513	9.4058042	INSIDE	367.0393	2.182392	4.5390551	4528
1.6689682	3.1798709	INSIDE	148.1381	1.5518647	2.9319585	2300
2.2561023	4.7769915	INSIDE	141.4222	2.5480146	5.848289	4404
2.285812	4.8763849	INSIDE	123.258	1.4104297	2.6581632	5019
2.2806258	4.8588867	INSIDE		1.409163	2.6558304	4094
2.0981016	4.2814563	INSIDE				
2.230995	4.6945764	INSIDE	244.243	2.041831	4.117678	710
1.9871949	3.9646538	INSIDE	165.1578	1.8817328	3.6851742	1716
2.41205	5.3223006	INSIDE	111.9716			
1.8714075	3.6588937	INSIDE	132.0916	1.8009678	3.484539	4992
1.8802998	3.6815156	INSIDE	492.186	1.7227019	3.3005396	4690
2.2196841	4.6579143	INSIDE	339.4189	2.0452697	4.1275042	1793
1.6920954	3.2312568	INSIDE	134.7012	1.4565349	2.7444839	1757
2.0661838	4.1877746	INSIDE	460.7122			
2.1111655	4.3204018	INSIDE	137.7458	1.6600883	3.1603587	3808
2.221476	4.6637033	INSIDE	356.6858	1.7105967	3.2729617	481
1.8039514	3.4917527	INSIDE	180.6135			
2.7071412	6.5302635	INSIDE		2.2155144	4.6444714	5247
2.0364606	4.1023785	INSIDE	258.5777	1.5346535	2.8971884	2006
2.0642953	4.1822964	INSIDE		2.0045373	4.0125999	1038
1.8107126	3.5081553	INSIDE	494.5312	1.6644017	3.1698217	5258
2.2372768	4.7150622	INSIDE	529.2032	1.3567777	2.5611251	2951
1.9320061	3.8158543	INSIDE		1.8329017	3.5625289	2696
1.8587837	3.6270175	INSIDE		1.5476646	2.9234352	1832
1.6754515	3.194193	INSIDE		1.855507	3.618789	3238
1.8289956	3.5528963	INSIDE		1.7689371	3.4080278	811
1.7085471	3.2683151	INSIDE	204.069	1.2454023	2.3708466	3316
1.5945159	3.0199317	INSIDE	157.3345	2.1153967	4.3330915	3738
2.190481	4.5645765	INSIDE	161.6137	1.4233019	2.6819864	4582
2.4605322	5.5041974	INSIDE	491.1941	2.0234115	4.06544	43
1.7544245	3.373917	INSIDE				
2.0948722	4.2718832	INSIDE	445.2722	2.0171292	4.0477753	820
1.825166	3.5434778	INSIDE		1.5042772	2.8368251	4435
1.6431049	3.1233731	INSIDE		1.635613	3.1071955	5497
2.3050435	4.9418236	INSIDE		1.7102783	3.2722394	4923
1.7650217	3.3987911	INSIDE		1.4280496	2.6908269	2281
1.8616427	3.6342123	INSIDE	1284.036	1.6657163	3.1727114	1697
1.59829	3.0278422	INSIDE	670.5199	1.718466	3.2908631	1263
1.9089674	3.7554021	INSIDE		1.5134461	2.8549117	2899
2.094506	4.270799	INSIDE	205.4377	1.6186458	3.0708665	3538
2.1213636	4.35105	INSIDE		1.4751436	2.7801131	5461
2.049435	4.1394383	INSIDE	605.1424	1.8750905	3.6682463	414
2.2831314	4.8673327	INSIDE	160.5593	2.5377662	5.806892	2036
2.0286796	4.0803124	INSIDE		1.7908854	3.4602719	1172
2.1382937	4.4024106	INSIDE	111.0506	1.9032733	3.7406093	1252
1.9710017	3.9204023	INSIDE				

2.3702176	5.1701911	INSIDE		1.6074286	3.0470826	4569
2.6087508	6.0997529	INSIDE	150.8428			
2.670351	6.3658405	INSIDE	162.9456	1.1960222	2.2910711	5018
1.707011	3.2648371	INSIDE	185.5626	1.3897786	2.6203846	3635
1.707022	3.264862	INSIDE		1.4518801	2.7356432	3627
2.2982442	4.918588	INSIDE	990.1385	2.0053844	4.0149566	630
1.8670772	3.6479279	INSIDE	140.063			
1.5911664	3.0129284	INSIDE	228.6656	2.0666947	4.1892579	50
2.0115418	4.032129	INSIDE	169.411			
1.7273335	3.3111526	INSIDE	162.4772	1.3775835	2.5983279	2274
2.3785224	5.2000388	INSIDE	306.709	1.5405514	2.9090567	2212
1.6251583	3.0847601	INSIDE		1.9222951	3.7902555	1011
2.458705	5.4972306	INSIDE	358.0562	2.4267154	5.3766792	732
2.648813	6.2715107	INSIDE	130.5323	1.2169561	2.3245575	2123
2.6696794	6.3628777	INSIDE	160.3699	1.6610583	3.1624843	794
1.8770573	3.6732505	INSIDE		1.648627	3.1353511	4139
2.3233986	5.005099	INSIDE		1.6357378	3.1074643	1370
2.8799043	7.3610129	INSIDE	460.5432	2.1611984	4.4728625	2888
1.8047177	3.4936079	INSIDE	208.6709			
1.8499573	3.6048952	INSIDE	1006.765	1.8656842	3.6444073	1559
1.7580549	3.3824179	INSIDE		1.5689131	2.9668112	5153
1.604605	3.0411248	INSIDE	259.7194	2.1085508	4.3125787	2090
1.925177	3.7978344	INSIDE		1.6963859	3.2408807	1237
2.2476716	4.7491575	INSIDE	503.5141	1.421786	2.6791698	4154
2.1064394	4.3062719	INSIDE	219.4057	1.9891231	3.9699562	1222
1.8749218	3.6678174	INSIDE	152.0086	2.07237	4.2057701	1300
1.7852706	3.4468311	INSIDE	223.5523			
1.6794238	3.203	INSIDE	585.3769	1.3424902	2.5358865	5338
1.8561738	3.620462	INSIDE	102.2358	2.0400317	4.1125457	2440
1.8212541	3.5338826	INSIDE	506.1591	1.5165522	2.8610649	1415
2.0598226	4.1693503	INSIDE		1.924564	3.796221	2462
1.68724	3.2204002	INSIDE		1.9023422	3.738196	417
1.6669954	3.1755256	INSIDE	151.3637	1.5372019	2.9023106	3968
2.102575	4.2947525	INSIDE		1.6885642	3.2233575	5357
2.1947913	4.5782343	INSIDE	149.2207	1.8640085	3.6401767	366
2.0437086	4.1230404	INSIDE	138.9123	1.1420795	2.2069891	3551
2.0801423	4.2284892	INSIDE	1215.954	2.1357715	4.3947208	2375
2.0655556	4.1859515	INSIDE		1.6561717	3.1517906	718
2.3515813	5.1038336	INSIDE	225.0372			
1.9741199	3.9288849	INSIDE		1.6842141	3.2136529	3036
2.3163006	4.9805346	INSIDE		1.6202816	3.0743504	2186
1.8591393	3.6279116	INSIDE	148.0294	1.4078002	2.6533228	4627
1.6168541	3.0670551	INSIDE	143.7429	1.4269826	2.6888376	997
2.0052907	4.0146959	INSIDE	191.748	1.6343507	3.104478	3830
2.6801927	6.4094151	INSIDE	104.3269	1.1647909	2.2420072	3028
2.560257	5.8981275	INSIDE	368.1257	1.633387	3.1024049	3990
1.9373981	3.8301426	INSIDE	178.712	1.9451602	3.8508054	355
1.751091	3.3661302	INSIDE	138.3773	1.5873121	3.0048898	2115
2.2432926	4.7347643	INSIDE	1589.305	1.7273674	3.3112304	1458
2.0593433	4.1679654	INSIDE	240.51	1.5460453	2.9201557	1180
2.228193	4.6854675	INSIDE				
2.2396877	4.7229482	INSIDE	367.7047	1.3956901	2.6311438	1063
1.6258079	3.0861494	INSIDE		1.0888844	2.1270949	1790
1.803113	3.4897241	INSIDE	432.0766	1.9387378	3.8337009	1791
2.1534765	4.4489858	INSIDE				
2.1153584	4.3329765	INSIDE	142.2499			
2.1491008	4.4355125	INSIDE		1.5563154	2.9410176	5536
1.9926265	3.9796085	INSIDE	2410.226	2.4123018	5.3232296	319

2.2913663	4.8951949	INSIDE	112.6198	1.704442	3.2590286	989
1.9878213	3.9663756	INSIDE		1.3031955	2.4677487	5263
2.6675043	6.3532919	INSIDE		2.067478	4.191533	4120
2.2224503	4.6668539	INSIDE	2348.839	1.8788619	3.6778481	2997
2.1663888	4.4889835	INSIDE	190.356	1.7983297	3.478173	3270
2.7338161	6.6521288	INSIDE	283.914			
1.7541777	3.3733399	INSIDE	140.5875	1.5789559	2.9875356	2678
1.8158194	3.5205953	INSIDE	234.7074	1.6409799	3.1187759	1967
1.7070532	3.2649326	INSIDE		1.0963402	2.1381161	580
1.9933312	3.9815528	INSIDE	1146.003	1.5094641	2.8470426	5124
1.7925454	3.4642557	INSIDE		1.2906721	2.44642	5216
2.5510168	5.8604717	INSIDE	1073.399	2.2808099	4.8595068	1091
2.1365397	4.3970615	INSIDE	213.7717	1.9672107	3.9101141	1326
2.3348505	5.0449868	INSIDE	1830.017	1.8743527	3.6663708	288
2.4609559	5.5058141	INSIDE	626.4592	1.6745119	3.1921134	3309
1.5880461	3.006419	INSIDE	1341.14	1.4105557	2.6583954	1527
1.9911331	3.9754911	INSIDE	115.1319			
1.9151881	3.7716299	INSIDE				
2.1615858	4.4740637	INSIDE		1.9352812	3.8245266	5395
2.1287878	4.3734985	INSIDE		1.9358317	3.8259863	142
1.9277647	3.8046525	INSIDE		1.6362401	3.1085464	4216
1.9697367	3.9169663	INSIDE	561.0519			
2.3439343	5.0768523	INSIDE				
1.8020543	3.4871642	INSIDE	324.0102	1.698673	3.2460225	1776
2.0139894	4.0389755	INSIDE	332.4879			
2.108084	4.3111836	INSIDE	128.3496	1.7453879	3.3528499	2616
2.377703	5.1970862	INSIDE		2.076248	4.2170906	4135
2.024534	4.0686044	INSIDE	130.0281	1.4831177	2.795522	4988
1.9063998	3.7487245	INSIDE	593.7841	2.6296394	6.1887129	650
2.0429618	4.1209067	INSIDE		1.9145389	3.769933	3794
1.9526397	3.8708213	INSIDE	1044.739	1.43181	2.6978497	5308
1.7186937	3.2913825	INSIDE	435.9021	1.8100343	3.5065063	1153
1.9198709	3.783892	INSIDE		1.5831276	2.9961869	1625
2.1891334	4.5603147	INSIDE		1.7661957	3.401558	855
1.7403907	3.3412564	INSIDE	1557.984	1.940196	3.8375778	2095
1.9423997	3.8434441	INSIDE		1.9435226	3.8464368	3867
2.2076719	4.6192925	INSIDE		1.6407636	3.1183084	451
2.2403953	4.7252652	INSIDE		1.2699003	2.411449	5552
2.2329595	4.7009733	INSIDE	115.7455	1.7319763	3.3218255	756
1.7066139	3.2639386	INSIDE		1.4673084	2.7650554	4443
1.611701	3.0561196	INSIDE	596.14	1.7767758	3.4265953	522
2.4204638	5.353431	INSIDE	86.2289			
1.9692258	3.9155794	INSIDE		1.6576375	3.1549945	4316
1.9536117	3.8734301	INSIDE	162.1541	1.1332144	2.1934691	4591
2.0211196	4.0589867	INSIDE	365.362	1.7481312	3.3592314	5398
1.9848131	3.9581138	INSIDE	744.936	1.6726711	3.188043	767
2.2480912	4.750539	INSIDE				
2.326798	5.0169063	INSIDE	116.2639			
1.8581791	3.6254978	INSIDE	389.3897	1.9655862	3.9057137	1725
1.7115769	3.2751861	INSIDE	219.2823	1.6793528	3.2028424	2614
2.1799588	4.5314061	INSIDE	793.9299	1.5900004	3.0104943	4759
2.1084177	4.3121809	INSIDE		2.0534651	4.1510177	776
1.8143313	3.5169658	INSIDE	232.284	1.5066884	2.8415703	2112
1.6934294	3.234246	INSIDE		1.2363114	2.355954	5346
2.3405678	5.0650194	INSIDE	1647.264	1.5018154	2.8319885	5132
2.2691028	4.8202327	INSIDE	404.2263	1.5719705	2.9731052	2901
2.8411815	7.1660668	INSIDE	194.0461	2.3968515	5.2665256	3390
2.1115851	4.3216586	INSIDE	418.8553	1.4910372	2.8109099	875

1.8680211	3.6503153	INSIDE	127.3453	1.5027765	2.8338757	4271
2.5456967	5.8389004	INSIDE		2.0785294	4.2237645	158
2.1146507	4.3308515	INSIDE	260.3969			
1.9618753	3.8956803	INSIDE	124.2029	1.4050602	2.6482883	825
1.8652503	3.6433114	INSIDE	329.893	1.5421352	2.912252	3048
1.5985931	3.0284784	INSIDE	754.2505	1.5535733	2.9354329	2655
1.6831826	3.211356	INSIDE		1.7697788	3.4100167	5031
1.9409529	3.8395917	INSIDE	168.2331			
2.067387	4.1912687	INSIDE				
2.4015343	5.2836478	INSIDE	269.9008	1.6844889	3.2142651	4475
1.9346542	3.8228649	INSIDE	1312.461	1.6474577	3.1328109	3047
1.710995	3.2738654	INSIDE	1153.444	1.3518732	2.5524332	4157
2.6506314	6.2794204	INSIDE		1.572155	2.9734854	576
1.6432934	3.1237812	INSIDE	176.7251	1.4089274	2.6553967	3649
2.0740783	4.2107531	INSIDE	283.124	2.065027	4.1844181	59
2.693221	6.4675576	INSIDE	1247.747			
2.474797	5.5588906	INSIDE		1.4748194	2.7794885	4976
2.1370168	4.3985158	INSIDE		1.8495307	3.6038294	2427
1.9856194	3.9603266	INSIDE	1326.651	1.5533035	2.934884	1520
1.9079406	3.7527303	INSIDE		2.2481337	4.7506789	1680
1.6611239	3.1626281	INSIDE	117.2715	1.2076545	2.3096184	1227
2.2621484	4.7970531	INSIDE	782.1717	1.6543175	3.1477424	3829
2.0755086	4.2149298	INSIDE		1.6497943	3.137889	1792
1.7315997	3.3209585	INSIDE	113.1315	2.1003554	4.2881501	3068
2.1075659	4.3096356	INSIDE	131.9044	2.3007774	4.927232	2428
2.6604288	6.3222093	INSIDE	272.2661	1.1740292	2.2564099	5393
2.2781658	4.8506087	INSIDE	125.9242	1.3266737	2.508237	4103
2.1410065	4.4106965	INSIDE	136.1078	1.7479236	3.3587481	4240
2.3249679	5.0105463	INSIDE	1040.729	1.1164834	2.1681783	2740
2.6268706	6.176847	INSIDE		2.401261	5.282647	347
1.7966578	3.4741446	INSIDE	203.5186	1.2675384	2.4075043	3224
1.8376793	3.574346	INSIDE	491.6797	1.4412707	2.7155995	2235
2.132596	4.3850582	INSIDE	148.198			
2.213095	4.6366891	INSIDE	978.074			
2.1201708	4.3474541	INSIDE				
1.6348803	3.1056178	INSIDE	126.3384			
1.6191355	3.071909	INSIDE	405.101	1.0793864	2.1131371	4641
1.7068295	3.2644264	INSIDE		1.7262992	3.3087796	1240
2.1762078	4.5196398	INSIDE		1.7555873	3.3766375	4027
1.906451	3.7488575	INSIDE	219.6171			
2.5636332	5.9119464	INSIDE	392.6774	1.932895	3.8182062	5360
1.965801	3.9062953	INSIDE		1.7122864	3.2767972	670
2.6655958	6.3448928	INSIDE	138.0582	1.6829594	3.2108592	2914
1.920386	3.7852432	INSIDE	3209.297			
1.7563845	3.3785039	INSIDE	890.3903			
2.321057	4.9969819	INSIDE		1.4767853	2.7832785	1558
2.4602785	5.5032295	INSIDE	225.1934	1.7828726	3.4411066	2706
2.6690176	6.3599596	INSIDE	186.7518	2.11241	4.3241303	1016
2.020339	4.0567911	INSIDE	485.6274	1.8275268	3.549281	782
2.0567713	4.1605415	INSIDE	94.82884	1.8041227	3.4921674	4273
2.18214	4.5382623	INSIDE	161.541			
2.2436004	4.7357745	INSIDE	488.2792	1.1086688	2.1564657	4343
2.257434	4.781403	INSIDE		2.154612	4.4524889	1714
2.5515375	5.8625873	INSIDE				
2.0364707	4.1024072	INSIDE	213.7835	1.6327008	3.1009297	3094
2.0188153	4.0525087	INSIDE	549.7452	1.7161249	3.2855272	885
1.8071353	3.4994672	INSIDE				
1.8736931	3.6646949	INSIDE				

1.7424783	3.3460948	INSIDE	297.3723	1.7604263	3.3879822	1476
1.9640664	3.9016014	INSIDE				
2.1677144	4.4931101	INSIDE	773.3401			
2.227134	4.6820294	INSIDE		1.8699441	3.6551842	1897
2.395635	5.2620866	INSIDE				
2.0718882	4.2043658	INSIDE				
2.4115608	5.3204962	INSIDE	855.6252	1.7343843	3.3273746	2497
2.3020613	4.9316188	INSIDE		1.8755558	3.6694296	2904
2.1452742	4.4237633	INSIDE	1091.339	1.979798	3.9443785	1189
2.1930408	4.5726827	INSIDE	1991.075	2.1375782	4.4002278	977
1.7975961	3.4764048	INSIDE	451.2268			
1.6655589	3.1723653	INSIDE	93.89393	1.4305822	2.6955547	4882
2.0990438	4.2842534	INSIDE	1223.944	1.7627441	3.3934296	2475
2.0063672	4.0176926	INSIDE		1.9789081	3.9419462	1105
2.5598779	5.8965778	INSIDE	292.0179	2.002532	4.0070264	3838
2.5666552	5.9243431	INSIDE	751.8943	2.0211751	4.0591428	1664
2.0802398	4.228775	INSIDE	136.694			
1.7474504	3.3576466	INSIDE	1986.798	1.8151122	3.51887	854
1.7218902	3.2986831	INSIDE		1.6122242	3.0572281	2101
1.9119906	3.7632799	INSIDE				
1.7897292	3.4574999	INSIDE	279.2242	1.6616243	3.1637252	1181
2.4666882	5.527734	INSIDE	1774.27	1.9488636	3.8607031	1260
2.056066	4.158508	INSIDE	153.994	1.0041662	2.0057839	2732
2.2170708	4.6494846	INSIDE	753.1589	2.1390536	4.40473	734
2.3052163	4.9424155	INSIDE	568.4229	1.7254444	3.3068197	3179
2.2573607	4.78116	INSIDE	1064.532	1.6238911	3.0820518	4815
2.103248	4.2967564	INSIDE	979.2507	2.2715964	4.8285714	1795
2.3320472	5.0351934	INSIDE	337.737	1.7315093	3.3207504	4478
2.2766497	4.845514	INSIDE	1081.212	1.919989	3.7842017	1169
2.052016	4.1468504	INSIDE				
2.5347848	5.7949042	INSIDE	205.9518	2.064172	4.1819389	663
2.1169744	4.3378327	INSIDE	955.2878	1.6531825	3.145267	3967
2.177599	4.5240002	INSIDE	195.0457	1.728012	3.3127102	1128
1.9237969	3.7942031	INSIDE	230.0502	2.0898156	4.2569366	3132
1.8656621	3.6443515	INSIDE	194.6246	1.8949046	3.7189738	1610
1.7057285	3.2619361	INSIDE				
1.6871073	3.220104	INSIDE		1.5704993	2.9700749	3793
1.7671707	3.4038576	INSIDE	287.4104	1.1658033	2.243581	1094
1.9011002	3.7349792	INSIDE	142.8392	1.7843553	3.444645	4158
1.6636633	3.1681998	INSIDE	870.2985	1.637486	3.111232	1691
1.7566415	3.3791057	INSIDE	2013.259			
1.9854432	3.9598429	INSIDE	107.7566	1.7692224	3.4087018	2656
1.9738979	3.9282804	INSIDE	307.8217	1.8742936	3.6662206	4843
1.8887938	3.7032548	INSIDE		1.8204744	3.5319732	2192
1.7017766	3.253013	INSIDE	138.5568			
2.2033453	4.6054601	INSIDE	107.6844	1.8426378	3.5866521	4527
1.9508903	3.8661304	INSIDE	1610.523	1.8769519	3.6729822	385
2.3870568	5.2308913	INSIDE		1.9152822	3.7718759	1836
2.331739	5.0341179	INSIDE	299.4342			
1.8232826	3.5388549	INSIDE	88.45199	1.794512	3.4689811	3728
2.0639322	4.1812439	INSIDE	161.9649	1.605204	3.0423877	1818
1.6824168	3.2096518	INSIDE		1.4750531	2.7799388	4394
2.0786014	4.2239753	INSIDE		1.5759434	2.9813038	2939
2.4392517	5.4236035	INSIDE	130.1975	2.1272502	4.3688398	146
1.6214635	3.07687	INSIDE	220.6787			
2.6837907	6.4254197	INSIDE		1.8971739	3.7248282	3283
1.99397	3.9833162	INSIDE	1087.37	1.5896778	3.0098212	4000
1.8341757	3.5656762	INSIDE	137.7524	2.0357084	4.1002401	3035

2.1247025	4.3611315	INSIDE					
1.6833117	3.2116434	INSIDE	122.3459	1.2288347	2.343776		2726
1.9472564	3.8564045	INSIDE	167.0757				
1.7991364	3.4801184	INSIDE	989.7813	1.5769707	2.9834275		1268
2.0443385	4.124841	INSIDE		1.1698233	2.2498414		2171
2.6057055	6.0868909	INSIDE		2.275995	4.8433156		3050
2.312522	4.967507	INSIDE	522.8445	1.2523144	2.3822328		1960
2.3097696	4.9580389	INSIDE	321.3324	1.4523383	2.7365122		988
2.395307	5.2608904	INSIDE	686.0703	1.7487049	3.3605675		1945
1.6002355	3.031928	INSIDE		1.4894505	2.8078201		3090
2.4086175	5.3096527	INSIDE	2538.338	2.1596107	4.4679428		3402
1.996546	3.9904349	INSIDE		1.6919134	3.2308492		3508
2.1270525	4.3682411	INSIDE	360.2401	1.977518	3.9381498		1037
2.4065337	5.3019891	INSIDE	134.1836				
1.8299701	3.555297	INSIDE	163.4007				
1.9193465	3.7825168	INSIDE	372.5968	1.8068008	3.4986559		2653
1.8376745	3.5743341	INSIDE		1.5934386	3.0176774		3401
2.075182	4.2139757	INSIDE	1615.608				
1.5865732	3.0033512	INSIDE	180.6993	1.3875097	2.6162669		1765
2.0195374	4.0545376	INSIDE	116.6928	1.898653	3.728649		4235
2.2735865	4.8352366	INSIDE	213.2904				
1.9220631	3.789646	INSIDE	925.6974	1.6754901	3.1942785		808
1.7485511	3.3602093	INSIDE	208.1477	1.7766995	3.4264141		3847
1.9248861	3.7970687	INSIDE					
1.8815849	3.6847964	INSIDE	137.1379	1.6369416	3.1100582		2690
2.2751906	4.8406158	INSIDE	266.6216	1.6836716	3.2124447		3493
1.7831496	3.4417674	INSIDE	1298.333	1.559099	2.9466976		4047
2.0001132	4.0003139	INSIDE	673.2634				
1.913106	3.7661906	INSIDE	856.8138	1.9503977	3.8648106		2116
1.8663026	3.6459698	INSIDE		1.272703	2.4161382		5293
2.419367	5.3493626	INSIDE		1.9282016	3.8058049		1426
1.7597686	3.386438	INSIDE	356.6268	1.4814088	2.7922126		4786
1.7520859	3.3684524	INSIDE	164.5673	1.2178769	2.3260416		2241
1.6268275	3.0883312	INSIDE	115.5213				
2.1175985	4.3397096	INSIDE	227.4084	1.5808519	2.9914644		354
1.8557708	3.6194508	INSIDE		1.652964	3.1447907		1582
1.8154805	3.5197684	INSIDE		1.5664436	2.9617371		2395
1.7568927	3.3796942	INSIDE		1.4212985	2.6782646		4486
2.5472183	5.8450619	INSIDE		1.887868	3.7008791		2022
2.1675568	4.4926193	INSIDE		1.7004106	3.2499344		4046
2.3525832	5.1073793	INSIDE		1.5770718	2.9836365		5533
2.2729113	4.8329742	INSIDE	89.58789				
2.0493279	4.139131	INSIDE	354.2428	1.8220576	3.5358513		2762
1.6808102	3.2060795	INSIDE		1.4375157	2.7085406		3382
1.8466557	3.5966548	INSIDE		1.6115555	3.0558114		5027
1.8604113	3.6311117	INSIDE	334.2851	1.1959115	2.2908953		5412
2.6723075	6.3744793	INSIDE	170.7828	2.275926	4.8430839		1203
1.7601693	3.3873787	INSIDE					
2.0643737	4.1825237	INSIDE	116.3834				
2.2762256	4.8440898	INSIDE	425.1991	1.7094482	3.2703572		3930
1.9635911	3.9003162	INSIDE	228.2093				
2.361259	5.1381856	INSIDE		1.1893972	2.2805743		3706
1.5853251	3.0007541	INSIDE	246.756	1.5392513	2.9064363		4646
2.312454	4.9672729	INSIDE	486.3991	1.5116634	2.8513861		2248
2.19409	4.5760094	INSIDE		1.8288978	3.5526555		1650
2.0602734	4.1706533	INSIDE	98.5764	1.039364	2.0553214		5434
1.9320635	3.8160062	INSIDE	122.4207	2.0716922	4.2037947		2645
1.855742	3.6193785	INSIDE	590.951	1.5760627	2.9815503		1786

1.756259	3.37821	INSIDE		0.7551807	1.687843	5394
2.2857814	4.8762815	INSIDE				
1.723679	3.3027757	INSIDE		1.6167272	3.0667854	4177
2.2600605	4.7901157	INSIDE	137.5227	2.0460634	4.1297756	3186
1.6048307	3.0416006	INSIDE	590.5848	1.0957377	2.1372234	5076
2.3871336	5.2311698	INSIDE	179.7549	1.9539769	3.8744107	821
2.321626	4.9989531	INSIDE	292.8547	2.1345112	4.3908833	2284
1.8489566	3.6023955	INSIDE	144.2812			
1.6817813	3.2082383	INSIDE	429.9744	1.5846	2.9992463	3112
2.0112312	4.031261	INSIDE	1953.211			
1.8873936	3.6996623	INSIDE	352.7046	1.4433213	2.7194621	1100
2.0253139	4.0708044	INSIDE	448.6834			
1.6310496	3.0973826	INSIDE				
1.8772151	3.6736523	INSIDE	228.2405	1.8131868	3.5141769	4096
2.7736628	6.8384189	INSIDE	125.1492	1.619181	3.0720059	4109
1.7707747	3.4123715	INSIDE	1218.738	1.2562594	2.3887558	4334
1.7968522	3.4746128	INSIDE	309.6927	1.8497016	3.6042563	1461
1.5953153	3.0216055	INSIDE	634.992	1.78912	3.4560402	799
2.330021	5.0281267	INSIDE	220.1097	1.8928859	3.7137737	942
1.7362642	3.3317132	INSIDE	178.8115	1.5290517	2.8859608	3139
2.014313	4.0398816	INSIDE	887.667	1.5935595	3.0179303	3071
2.6182303	6.1399644	INSIDE	524.5089	1.40661	2.6511347	1451
2.0690598	4.1961312	INSIDE	350.9181	1.4252605	2.6856299	5161
1.8561183	3.6203227	INSIDE	181.4362	1.4863123	2.8017191	364
1.9351227	3.8241065	INSIDE	281.1681	1.52791	2.8836778	3011
2.079189	4.2256961	INSIDE	1702.371			
1.9984553	3.9957195	INSIDE	3073.53	1.6123867	3.0575725	1863
2.313054	4.9693391	INSIDE	751.634			
2.1592495	4.4668243	INSIDE	151.7241	1.8593918	3.6285466	4876
1.624597	3.0835602	INSIDE	426.7791	2.6106544	6.1078067	119
1.7255902	3.3071539	INSIDE	427.3618	1.4788666	2.7872967	4411
2.3192012	4.9905582	INSIDE	698.7789	1.7065859	3.2638752	4090
2.2077198	4.6194459	INSIDE	267.9345	1.5662202	2.9612785	2243
2.2014606	4.5994476	INSIDE	1048.844			
2.0870636	4.248824	INSIDE	200.5682			
1.9557924	3.8792894	INSIDE	87.77781	1.8237631	3.5400337	2015
2.2913268	4.8950609	INSIDE		1.9796892	3.9440811	3155
1.8950827	3.719433	INSIDE	119.8658	1.8878593	3.7008568	4357
1.6258872	3.086319	INSIDE		1.957701	3.8844248	1422
1.7449539	3.3518414	INSIDE		1.5845355	2.9991122	3255
2.0915563	4.2620759	INSIDE	821.5455	1.1929921	2.2862642	3012
1.8685753	3.6517179	INSIDE	145.0843	1.4223944	2.6802998	3315
2.0866368	4.2475673	INSIDE	253.4713	1.2622458	2.3986885	1925
2.4748132	5.5589531	INSIDE	1121.487	1.3692898	2.5834336	1482
2.2927973	4.9000528	INSIDE	506.5373	1.8425673	3.5864768	3221
2.275268	4.8408755	INSIDE	153.3663	1.9633938	3.8997829	3422
1.8919418	3.7113442	INSIDE	130.3043	1.205113	2.3055533	4979
1.7896872	3.4573992	INSIDE		1.5352978	2.8984825	2382
2.403325	5.29021	INSIDE	257.8928			
2.513761	5.7110697	INSIDE	100.2784	1.5934908	3.0177866	3080
2.3615937	5.1393778	INSIDE	611.9572			
1.6505489	3.1395307	INSIDE	498.0313	1.0731599	2.1040367	4575
2.0787337	4.2243627	INSIDE	124.403	1.4599757	2.7510373	3892
2.0693433	4.1969559	INSIDE	317.8923	1.8972269	3.7249651	362
2.413048	5.3259837	INSIDE	332.1224	2.2215595	4.6639732	1452
1.8078666	3.5012416	INSIDE	772.2004	1.7110661	3.2740267	2172
2.1246352	4.3609281	INSIDE	984.1854			
2.3114374	4.9637739	INSIDE		1.7058225	3.2621486	1917

1.9729857	3.9257973	INSIDE		1.775853	3.4244042	4809
2.7696226	6.819295	INSIDE	538.1694	1.9355413	3.8252162	688
1.793219	3.4658735	INSIDE		1.946271	3.8537714	2576
1.7522999	3.3689521	INSIDE		1.5574878	2.9434085	2575
1.9945344	3.9848748	INSIDE	111.9595	1.8198773	3.5305117	3272
2.2238905	4.671515	INSIDE		1.7785785	3.4308796	2824
1.9629992	3.8987164	INSIDE	710.4863	1.5055915	2.8394106	1797
2.2692015	4.8205625	INSIDE	372.821	1.8136741	3.515364	458
1.855169	3.6179413	INSIDE		1.9643917	3.9024812	477
1.7270516	3.3105057	INSIDE	897.6125	1.6812519	3.2070612	1862
1.7192972	3.2927596	INSIDE		1.3693938	2.5836198	3517
2.0917645	4.2626911	INSIDE	242.7957	1.7469596	3.3565046	4875
2.1259959	4.3650431	INSIDE	412.3169	2.1108928	4.3195853	1432
2.3109076	4.9619514	INSIDE	953.1483	1.9070201	3.7503366	228
2.5115843	5.7024595	INSIDE	671.7346	1.7445818	3.350977	1682
2.0229435	4.0641214	INSIDE	453.7735			
1.9996864	3.9991306	INSIDE	152.9394	1.5560197	2.9404148	2981
1.8462116	3.5955478	INSIDE	3884.573	1.3944148	2.628819	3249
1.775669	3.4239675	INSIDE	268.7587			
1.9734757	3.9271309	INSIDE	173.5255	1.774442	3.4210567	4035
2.1466377	4.4279462	INSIDE	1914.529	1.8133681	3.5146185	2773
1.9707884	3.9198227	INSIDE	810.0961	1.4243567	2.683948	2631
2.319844	4.9927823	INSIDE	174.2363	2.0287194	4.0804249	4426
2.099558	4.2857806	INSIDE	696.9088	1.1708077	2.2513771	5366
2.1377718	4.4008183	INSIDE	530.2264	1.9137172	3.7677865	2574
1.7243751	3.3043697	INSIDE	134.1698	1.5058857	2.8399897	3890
1.9353436	3.8246921	INSIDE	239.4312			
1.7095419	3.2705696	INSIDE	1705.836	2.329191	5.0252348	202
2.4270988	5.3781083	INSIDE		2.1177568	4.3401858	4534
1.754856	3.3749263	INSIDE	284.9873	1.5387979	2.9055231	2608
2.1831872	4.5415577	INSIDE	109.3291	2.1683717	4.4951576	4482
1.7815324	3.4379115	INSIDE	195.7838	1.6965096	3.2411586	3492
1.9692034	3.9155186	INSIDE	2267.305	1.4310817	2.6964882	4362
2.172598	4.5083452	INSIDE		2.1737745	4.5120232	594
1.829099	3.553151	INSIDE		1.7154775	3.2840532	1307
1.9689207	3.9147514	INSIDE		1.002778	2.0038548	4143
1.647986	3.1339583	INSIDE	1028.351	1.345088	2.5404569	3297
2.2702718	4.8241401	INSIDE	1102.973	1.819201	3.5288571	501
2.166612	4.4896781	INSIDE	313.0247			
2.0837104	4.2389601	INSIDE	568.1115	1.9638249	3.9009484	3660
2.6059885	6.088085	INSIDE	134.698	2.0884848	4.2530116	1225
2.2094665	4.6250421	INSIDE	533.0004	1.910868	3.7603527	1957
2.177014	4.5221662	INSIDE		1.3206226	2.4977388	3743
1.7403716	3.3412122	INSIDE	137.459	1.9294814	3.8091825	2141
1.8389614	3.5775239	INSIDE		1.9234307	3.7932401	416
1.7529517	3.3704745	INSIDE	303.1516	1.6690872	3.1801332	4448
1.9671695	3.9100024	INSIDE	167.1114	1.8255439	3.5444061	545
2.0818942	4.2336271	INSIDE	704.7319	1.9490497	3.8612011	1702
1.8443215	3.5908403	INSIDE		1.6832643	3.2115379	1918
1.971188	3.9209086	INSIDE	1899.157	1.7722957	3.4159709	230
2.605867	6.0875723	INSIDE	281.5916	1.7077205	3.2664431	3514
1.9711925	3.9209208	INSIDE		1.7352804	3.329442	3820
2.090258	4.2582422	INSIDE		1.8851051	3.6937983	1327
1.7071413	3.265132	INSIDE		1.8953542	3.720133	518
1.7493299	3.3620237	INSIDE				
1.6361163	3.1082796	INSIDE	135.2052	1.7105472	3.2728494	4059
1.8769255	3.672915	INSIDE				
2.353962	5.1122628	INSIDE	809.244	1.8771365	3.6734522	1045

1.8529803	3.6124567	INSIDE	645.7996	1.9836469	3.9549156	468
2.1189134	4.3436667	INSIDE		1.8125021	3.5125094	1752
2.4260206	5.3740904	INSIDE				
2.047198	4.1330247	INSIDE	108.7765	2.0800307	4.2281621	3535
1.7595209	3.3858567	INSIDE	508.0292	1.4952531	2.819136	4714
1.8054483	3.4953776	INSIDE	845.2052	1.4339143	2.7017877	4199
2.030757	4.086192	INSIDE	546.563	1.5726324	2.9744695	831
2.6015406	6.069344	INSIDE	315.4379	1.7111024	3.2741091	5082
1.9694049	3.9160655	INSIDE	2710.293	1.4312464	2.696796	2197
2.4429524	5.4375336	INSIDE	714.9833	1.4556664	2.7428323	4327
1.5880047	3.0063328	INSIDE	849.5323	1.6603222	3.1608711	1508
1.919589	3.7831527	INSIDE	202.0478	2.3656833	5.153967	912
1.9120477	3.7634289	INSIDE	132.5961			
2.0399811	4.1124014	INSIDE		1.4185963	2.6732528	2082
2.2184436	4.6539109	INSIDE				
2.0146365	4.0407875	INSIDE	350.2027	2.275137	4.840436	2406
2.1568284	4.4593344	INSIDE	239.783	1.52351	2.8748965	4384
1.6562274	3.1519123	INSIDE		1.6468445	3.1314796	1881
1.603197	3.0381582	INSIDE	919.7102			
1.9766794	3.9358614	INSIDE	1081.089			
2.0410833	4.1155445	INSIDE	876.5305	1.7053815	3.2611516	2084
1.784102	3.4440402	INSIDE	269.3589	1.8340709	3.5654172	3152
1.6336199	3.1029058	INSIDE	1106.769	1.5464475	2.9209699	3059
2.187329	4.5546147	INSIDE		1.5390711	2.9060733	2890
1.9516094	3.8680579	INSIDE				
2.3373132	5.053606	INSIDE				
2.0164733	4.0459354	INSIDE	138.0004	1.7971983	3.4754464	2895
1.802075	3.4872142	INSIDE	188.1277	1.5439854	2.9159892	4902
2.3811977	5.2096906	INSIDE		1.8768466	3.6727141	3749
2.0927317	4.2655498	INSIDE	1070.529	2.0047867	4.0132936	440
2.085344	4.2437627	INSIDE	170.7072	1.6367078	3.1095543	466
2.1443822	4.421029	INSIDE		2.1710846	4.5036184	1966
1.8699318	3.655153	INSIDE	922.7813	2.2153616	4.6439795	931
1.963769	3.9007972	INSIDE	91.74957			
2.0304203	4.0852385	INSIDE	589.6002	1.8925009	3.7127828	886
1.920871	3.7865159	INSIDE	264.948	1.4740599	2.7780256	2347
1.6639613	3.1688542	INSIDE	96.30839	1.1987331	2.2953801	3676
1.5915673	3.0137658	INSIDE		1.2005157	2.2982181	4818
1.7964525	3.4736502	INSIDE	1344.444	2.2370574	4.7143452	370
1.646154	3.1299812	INSIDE	1872.436	1.4701147	2.7704392	1538
1.9400274	3.8371294	INSIDE				
1.8238488	3.540244	INSIDE	92.9524	1.8791388	3.6785541	410
1.801811	3.4865762	INSIDE				
2.497847	5.6484186	INSIDE	593.3823	2.3208907	4.996406	958
1.6434784	3.1241818	INSIDE	513.3182	1.5243001	2.8764713	4657
2.4266138	5.3763006	INSIDE				
1.7896117	3.4572183	INSIDE	625.8681			
1.7693594	3.4090255	INSIDE		1.4609227	2.7528437	2725
2.132533	4.3848667	INSIDE	244.3794	1.9874027	3.9652249	3158
2.0640752	4.1816584	INSIDE				
1.9957125	3.9881302	INSIDE		2.0218961	4.0611719	903
1.8105083	3.5076585	INSIDE		1.22966	2.3451172	5431
2.10709	4.3082143	INSIDE	109.7342			
1.7929456	3.4652168	INSIDE	248.4437	1.4816307	2.7926421	4447
1.7096212	3.2707493	INSIDE	254.5819	1.5568374	2.9420819	5428
1.8928227	3.713611	INSIDE	501.3337	1.5145831	2.8571625	4616
1.9561428	3.8802317	INSIDE	1844.117	2.7945657	6.9382205	47
2.0380347	4.106857	INSIDE	389.6653	1.8666806	3.6469252	2677

1.9437028	3.8469173	INSIDE		1.8673528	3.6486248	1002
2.0786853	4.224221	INSIDE	151.2737	2.2210913	4.6624598	1775
2.1156032	4.3337118	INSIDE	265.7844	2.0625424	4.1772179	2863
1.9361131	3.8267326	INSIDE	319.3314			
1.9317839	3.8152667	INSIDE				
2.9349272	7.6471766	INSIDE	128.625	1.8461223	3.5953253	2924
1.7925761	3.4643294	INSIDE	440.941			
1.6976976	3.2438286	INSIDE	131.7698	1.9270002	3.8026369	1033
1.7382988	3.3364151	INSIDE				
2.0700157	4.1989124	INSIDE	201.2715	1.8861542	3.6964854	5479
1.6430012	3.1231486	INSIDE				
2.0017328	4.0048072	INSIDE	251.1968	1.8676354	3.6493396	1258
2.3177118	4.9854088	INSIDE	246.5106	1.5878572	3.0060254	2206
2.0496948	4.1401838	INSIDE				
1.6270201	3.0887436	INSIDE				
1.8461536	3.5954033	INSIDE	1579.056			
2.2321079	4.6981993	INSIDE	202.846	1.8689973	3.6527862	3209
2.1041815	4.2995376	INSIDE		1.6721599	3.1869136	1888
2.4051867	5.2970411	INSIDE	2182.495	2.2723167	4.8309827	1880
1.7300243	3.3173341	INSIDE	146.7515			
2.0635645	4.1801784	INSIDE				
2.0463073	4.1304739	INSIDE	432.2488	1.632107	3.0996536	717
1.9269001	3.8023731	INSIDE	108.53	1.6302922	3.0957569	3926
2.0424292	4.1193857	INSIDE	157.5613	1.449067	2.7303142	2384
2.163593	4.4802927	INSIDE		1.466387	2.76329	1803
1.5895855	3.0096287	INSIDE	316.3534			
2.4315767	5.394827	INSIDE	216.7661	2.008631	4.0240019	556
1.9129722	3.7658413	INSIDE	132.8163	1.6699535	3.1820434	1738
2.4367986	5.4143892	INSIDE	106.6014	2.1787164	4.5275055	2921
2.026832	4.0750902	INSIDE		2.5821202	5.9881908	1837
2.28231	4.8645623	INSIDE	89.6886	2.0371103	4.1042264	5365
2.0935056	4.2678385	INSIDE	672.2916	2.1741152	4.5130889	190
2.0802135	4.2286979	INSIDE	166.3677	1.5082895	2.8447256	5030
2.48238	5.5881858	INSIDE	1101.971	1.8059994	3.496713	4418
1.7318876	3.3216213	INSIDE	449.7423			
1.9145131	3.7698656	INSIDE	120.1537	1.6076499	3.04755	786
1.8855221	3.6948661	INSIDE	427.392	1.4809058	2.7912393	4379
1.8345104	3.5665035	INSIDE	833.4244	1.4547596	2.7411088	2264
1.9965996	3.9905832	INSIDE	320.7737	1.8217412	3.5350759	4136
1.7492821	3.3619123	INSIDE	133.3608			
2.2334867	4.7026915	INSIDE	523.8973	1.8966153	3.7233863	1412
1.8636819	3.6393528	INSIDE	1641.259			
2.36663	5.1573502	INSIDE	163.2175	2.949139	7.7228802	409
1.8821642	3.6862763	INSIDE	339.8318	1.9555844	3.8787301	1137
1.9646761	3.9032506	INSIDE	1042.694	2.0877585	4.2508711	2705
2.3164043	4.9808926	INSIDE	180.9545	2.1255982	4.36384	729
1.6789018	3.2018413	INSIDE	72.96561			
2.2593906	4.787892	INSIDE	521.6797	2.124137	4.3594224	434
2.203195	4.6049803	INSIDE	530.5475	1.5763401	2.9821237	5541
2.6494641	6.2743417	INSIDE	1026.387	1.610052	3.0526284	3957
2.2051146	4.6111117	INSIDE	5801.294	2.8350768	7.135808	34
2.0999322	4.2868924	INSIDE	647.6238	1.1926494	2.2857211	2170
1.9437406	3.8470181	INSIDE				
1.7661009	3.4013345	INSIDE	122.5008	1.4856195	2.800374	2673
1.8107806	3.5083206	INSIDE				
2.0045834	4.0127281	INSIDE	177.7128			
1.8389535	3.5775043	INSIDE	469.6433	1.6364566	3.1090129	5066
1.9677266	3.9115126	INSIDE	1171.48	1.6775239	3.1987847	3111

1.9541906	3.8749847	INSIDE	849.8795	1.981356	3.9486404	929
1.943458	3.8462646	INSIDE		1.5694697	2.967956	3950
1.6370971	3.1103935	INSIDE				
2.129322	4.3751182	INSIDE	216.5735			
1.7868042	3.4504971	INSIDE	1702.729	1.6095461	3.0515582	2250
1.8600068	3.6300937	INSIDE	280.7838			
2.1951337	4.579321	INSIDE				
1.6975542	3.2435062	INSIDE		1.4225311	2.6805538	4966
2.0890443	4.2546613	INSIDE	129.2019			
1.9324945	3.8171463	INSIDE	115.1044	1.2915078	2.4478375	1641
2.0423288	4.119099	INSIDE	308.3125	1.6590798	3.1581502	1706
2.1031344	4.2964181	INSIDE	294.1147	1.3348218	2.5224432	1949
1.7000157	3.2490449	INSIDE	126.8178	1.8135204	3.5149895	1403
2.0127628	4.035543	INSIDE	313.6469			
1.8336381	3.5643478	INSIDE	1334.592	1.5156844	2.8593444	3608
1.7270269	3.310449	INSIDE	394.4825	1.7446089	3.35104	1708
2.4852338	5.5992508	INSIDE	140.4409	1.8361748	3.5706205	2759
1.8116906	3.5105342	INSIDE	634.712	1.8828558	3.6880438	467
1.8836918	3.6901816	INSIDE	134.424	1.5157831	2.85954	4544
2.1214688	4.3513673	INSIDE	142.6	1.7559311	3.3774422	4971
1.7426351	3.3464584	INSIDE	420.7022	2.0343583	4.0964048	943
1.9844706	3.9571743	INSIDE	1559.659	1.5059361	2.8400889	1923
2.0288324	4.0807445	INSIDE	252.2615	1.7801259	3.4345615	686
1.6686163	3.1790954	INSIDE	122.6766			
2.598547	6.0567632	INSIDE	99.23986			
2.5667694	5.9248121	INSIDE	882.9536	1.6771542	3.1979651	1070
2.1570058	4.4598828	INSIDE	126.6702	2.0459392	4.1294201	3333
1.7614095	3.3902919	INSIDE				
1.9928565	3.980243	INSIDE	1038.704	1.8782295	3.6762363	570
2.018959	4.0529124	INSIDE	137.6398	1.7630517	3.3941532	2209
2.0472584	4.1331978	INSIDE	213.812	1.8219892	3.5356837	2187
1.9297074	3.8097792	INSIDE				
1.6938182	3.2351177	INSIDE	166.5043	1.3850296	2.6117732	1089
2.3378944	5.0556423	INSIDE		1.9970537	3.9918395	1224
2.6962674	6.481229	INSIDE				
2.4470837	5.4531268	INSIDE	165.8475	1.2431905	2.3672146	5419
2.144611	4.4217302	INSIDE	163.1822	1.284784	2.4364557	1363
2.0716004	4.2035272	INSIDE	193.558	1.598693	3.0286881	4506
2.1888225	4.5593321	INSIDE	631.7067	2.031728	4.0889431	1445
1.916825	3.7759116	INSIDE	311.7538	1.5051321	2.8385066	3984
2.1820972	4.5381277	INSIDE	183.2377	1.6377472	3.1117954	3604
1.7991638	3.4801845	INSIDE	160.16			
1.7418494	3.3446364	INSIDE	425.2766	1.4483474	2.7289527	1014
2.0506787	4.1430083	INSIDE	3187.19	1.8431966	3.5880416	1623
1.8557836	3.6194829	INSIDE				
1.621837	3.0776667	INSIDE	730.173	1.4161065	2.6686433	5491
2.040921	4.1150815	INSIDE	157.9292	2.4660068	5.5251238	350
1.9255584	3.7988386	INSIDE	170.7125	1.2867529	2.4397831	532
1.9369748	3.8290189	INSIDE	115.9249	1.5692294	2.9674617	5559
2.184553	4.5458592	INSIDE	1457.091	2.0348554	4.0978166	1177
2.1157017	4.3340077	INSIDE	430.8128	1.557821	2.9440884	3797
1.8796141	3.6797662	INSIDE	177.6919	1.9171991	3.7768909	930
1.6927829	3.232797	INSIDE	377.3344	1.248184	2.3754223	1700
2.2440717	4.7373219	INSIDE	198.6775			
2.0476048	4.1341903	INSIDE				
2.0444155	4.1250611	INSIDE	239.8456	1.6645288	3.170101	3922
1.9020855	3.7375309	INSIDE	816.0733			
2.125915	4.3647983	INSIDE	215.3763	1.8487644	3.6019157	155

2.2006595	4.5968943	INSIDE	205.6377	2.5424898	5.8259358	581
1.9837654	3.9552404	INSIDE	404.0708	1.4284604	2.6915932	4519
1.7855414	3.4474781	INSIDE	178.0654	1.5675503	2.96401	3995
1.9047589	3.7444632	INSIDE	343.9895			
2.1736221	4.5115466	INSIDE		1.5467231	2.921528	3474
2.2468474	4.7464451	INSIDE		2.262083	4.7968356	386
2.058979	4.1669131	INSIDE	699.622	1.5515032	2.931224	4731
1.6005138	3.0325129	INSIDE	157.758			
2.2249005	4.6747866	INSIDE		1.3051094	2.4710246	5015
1.7924078	3.4639253	INSIDE		1.6685596	3.1789704	372
1.750836	3.3655353	INSIDE	132.0649	1.4422477	2.7174391	4949
2.0078647	4.0218651	INSIDE		1.6098323	3.0521636	3344
1.9568017	3.8820043	INSIDE		1.1276592	2.1850393	2421
1.7692376	3.4087377	INSIDE	159.9742	1.8317951	3.5597973	2942
2.1859767	4.5503474	INSIDE		2.1384828	4.4029877	3122
2.2691967	4.8205465	INSIDE	1104.484	1.9830487	3.9532761	4029
1.8226902	3.537402	INSIDE	286.0979			
2.6350179	6.2118281	INSIDE	285.8499	2.1675355	4.4925529	1490
2.7096903	6.541812	INSIDE		1.5916699	3.0139801	4658
2.0544674	4.1539026	INSIDE	570.6758			
1.9503527	3.86469	INSIDE	319.8612	1.9125135	3.7646441	4304
1.996883	3.9913672	INSIDE		1.8716213	3.659436	4577
2.502724	5.6675452	INSIDE	811.5657			
1.9451909	3.8508873	INSIDE	135.1519	1.5171093	2.8621699	2734
1.8241267	3.540926	INSIDE		1.3290266	2.5123311	2368
2.2236059	4.6705935	INSIDE	880.9376	1.503043	2.8343993	5266
1.9451094	3.8506698	INSIDE		1.8686144	3.6518168	2898
2.4721036	5.5485223	INSIDE	160.5029	2.2943444	4.9053103	1021
1.8993872	3.730547	INSIDE		1.4455262	2.7236214	5561
1.9558511	3.8794472	INSIDE				
2.0651155	4.1846748	INSIDE	304.8998	1.6310538	3.0973916	5385
1.7261709	3.3084854	INSIDE		1.2623218	2.3988148	4696
2.4766665	5.5660987	INSIDE	404.722			
1.6497308	3.1377508	INSIDE		1.5862234	3.0026231	3907
1.8926004	3.7130388	INSIDE	824.9734			
2.4376776	5.4176891	INSIDE		1.986409	3.9624947	4625
1.6452191	3.1279536	INSIDE	170.1908	1.2080305	2.3102204	4961
1.7368989	3.3331792	INSIDE	1071.002	1.9427717	3.8444353	613
1.917413	3.7774509	INSIDE	620.001			
1.7314563	3.3206284	INSIDE	1192.086	1.6554141	3.150136	2453
2.0777738	4.2215529	INSIDE	109.197	2.0978045	4.2805747	1874
2.1160738	4.3351256	INSIDE				
2.7892678	6.9127886	INSIDE	163.3249	2.2053077	4.6117289	3636
2.152623	4.4463546	INSIDE		1.4017422	2.6422046	3369
2.2872798	4.8813487	INSIDE				
1.9386001	3.833335	INSIDE	185.6706	1.7345693	3.3278013	2851
1.6899639	3.2264863	INSIDE		1.501711	2.8317836	5123
2.169504	4.498687	INSIDE	162.7463	1.8390095	3.5776432	564
1.7469532	3.3564897	INSIDE	131.7764			
2.0048852	4.0135676	INSIDE	397.519	2.0630946	4.1788171	77
2.0827923	4.2362634	INSIDE	279.9139	1.9021907	3.7378034	3211
2.1700008	4.5002364	INSIDE		1.8753451	3.6688937	292
1.81991	3.5305917	INSIDE	200.0945	1.8695437	3.6541699	567
1.7254235	3.3067718	INSIDE	2338.896	1.2745055	2.4191588	3965
1.7484919	3.3600714	INSIDE	126.909	1.3557005	2.5592135	3072
1.7289363	3.3148333	INSIDE	724.9931	1.9607524	3.8926494	1883
1.7795815	3.4332657	INSIDE	366.8518			
2.459345	5.4996698	INSIDE	3530.636	1.6283473	3.0915863	3313

1.6715294	3.1855211	INSIDE					
2.3685853	5.1643447	INSIDE	250.6891				
2.1814551	4.5361083	INSIDE	306.5155	1.7641996	3.3968549	1810	
2.1434946	4.4183099	INSIDE	1696.269	1.8844357	3.6920848	1487	
2.3888493	5.2373946	INSIDE	2286.926	1.5654427	2.9596831	4331	
1.6657287	3.1727387	INSIDE	224.6138	1.9793037	3.9430273	1162	
2.074529	4.2120688	INSIDE					
2.0052857	4.014682	INSIDE	642.7053	1.8499566	3.6048934	2855	
2.118308	4.3418443	INSIDE	116.8472				
2.1134162	4.3271472	INSIDE	774.3745	1.8262991	3.5462619	1337	
1.9765861	3.9356068	INSIDE		2.0676365	4.1919936	1596	
1.9062078	3.7482256	INSIDE	143.6119	1.5208431	2.869587	3495	
1.8888371	3.7033659	INSIDE	420.504				
1.9688485	3.9145555	INSIDE	184.8575	1.8083439	3.5024001	2747	
1.8710374	3.6579552	INSIDE	916.7803				
2.181299	4.5356176	INSIDE	679.3833	1.5364108	2.9007195	2051	
1.7290767	3.3151559	INSIDE	155.2352	0.9601837	1.9455577	2507	
2.3224711	5.0018823	INSIDE					
2.1817136	4.5369212	INSIDE		1.7953155	3.4709137	2185	
2.0386531	4.1086177	INSIDE	666.9847	1.6393632	3.1152829	1230	
2.0835292	4.2384278	INSIDE	3890.915				
2.1060836	4.30521	INSIDE	114.1183	1.8798212	3.6802945	4121	
1.8713495	3.6587466	INSIDE					
1.8876746	3.700383	INSIDE	463.6688	1.4179753	2.6721024	1400	
1.7829933	3.4413945	INSIDE	412.0452	1.6342092	3.1041735	3518	
1.7392744	3.3386721	INSIDE	105.1461	1.7692686	3.408811	2478	
2.2002351	4.5955422	INSIDE	134.8445	1.4020997	2.6428594	5305	
1.7522521	3.3688404	INSIDE	2043.56	1.8585567	3.6264468	894	
1.7614585	3.3904071	INSIDE	1497.087	1.3738256	2.5915686	2521	
1.9659916	3.9068114	INSIDE	212.3592				
2.2567768	4.7792254	INSIDE	175.9845	1.3222643	2.5005827	2809	
1.9350682	3.823962	INSIDE	216.1857	2.0724263	4.2059343	772	
1.7575903	3.3813288	INSIDE		1.5248013	2.8774708	4718	
2.1558495	4.4563097	INSIDE	393.4411	1.5854125	3.0009359	2704	
2.032667	4.0916054	INSIDE	307.9813				
2.3185818	4.9884161	INSIDE	464.9849	1.3006876	2.4634627	1606	
1.6821997	3.2091689	INSIDE	650.0333	1.4109831	2.6591831	4437	
1.892103	3.7117589	INSIDE		1.74401	3.3496492	1718	
2.337626	5.0547019	INSIDE	1572.531	1.8347672	3.5671384	1025	
2.1129313	4.3256931	INSIDE	103.7855	1.8525273	3.6113226	4284	
2.2721496	4.8304232	INSIDE		1.712368	3.2769826	5447	
2.0725493	4.2062929	INSIDE	335.4335	2.040116	4.112786	2390	
1.8114073	3.509845	INSIDE	346.5105	1.9965936	3.9905666	939	
1.9738369	3.9281143	INSIDE	67.85761				
2.5075004	5.6863401	INSIDE	1664.39	1.9243368	3.7956233	82	
1.6540482	3.1471549	INSIDE	422.8368	1.954239	3.8751147	568	
2.1587708	4.4653424	INSIDE	121.3036				
1.6637242	3.1683335	INSIDE		1.7022736	3.2541339	3165	
1.9044654	3.7437015	INSIDE	139.8155	1.575458	2.9803009	1750	
2.1659353	4.4875727	INSIDE		1.7736655	3.4192158	3700	
1.7084324	3.2680553	INSIDE	200.8973	2.2055922	4.6126384	2834	
2.356506	5.1212855	INSIDE	1052.196				
1.707038	3.2648982	INSIDE	775.6517				
2.2183883	4.6537325	INSIDE	168.3905	1.8683522	3.6511532	439	
2.0309837	4.0868342	INSIDE		1.1149572	2.1658858	5530	
2.381356	5.2102623	INSIDE		1.6288489	3.0926614	4721	
2.2515175	4.7618346	INSIDE		1.6667556	3.1749978	4328	
2.1163628	4.3359941	INSIDE	366.8137	2.1849778	4.5471979	1683	

2.2045708	4.6093739	INSIDE		1.6798183	3.203876	3945
1.7108682	3.2735776	INSIDE	711.9032	2.235975	4.7108095	2070
1.9264351	3.8011477	INSIDE	227.1916	1.8122045	3.5117849	2326
2.1172743	4.3387345	INSIDE	191.2038	1.433907	2.701774	3107
1.8543761	3.6159534	INSIDE	2668.964	2.0971532	4.2786427	4314
2.1470442	4.429194	INSIDE	279.6591	2.2362852	4.7118225	526
2.0678656	4.1926593	INSIDE	200.0849	1.684347	3.2139489	2129
2.308388	4.9532931	INSIDE		1.6435462	3.1243286	758
1.7891643	3.4561463	INSIDE	231.9241	1.7189418	3.2919486	1551
2.1573157	4.4608409	INSIDE	679.3914	1.8048863	3.4940162	4421
1.7337127	3.325826	INSIDE	275.6118			
2.4693825	5.538067	INSIDE	164.9426	2.0864697	4.2470753	384
1.927683	3.8044371	INSIDE	166.072	1.4449886	2.7226067	1819
2.3542354	5.1132317	INSIDE	2028.733	1.6737204	3.1903626	2342
1.679816	3.2038709	INSIDE				
2.0340872	4.0956351	INSIDE		2.045281	4.1275366	3445
2.1664162	4.4890688	INSIDE	163.2765			
1.9246376	3.7964147	INSIDE				
1.9660765	3.9070413	INSIDE		1.3863204	2.614111	5347
1.9326092	3.8174498	INSIDE	201.9208	1.5911252	3.0128424	3244
2.2817426	4.8626495	INSIDE		1.7025622	3.2547849	4752
1.6656449	3.1725544	INSIDE	1385.024	2.3683589	5.1635343	2542
1.69251	3.2321855	INSIDE	809.0033	2.33929	5.0605353	120
1.812657	3.5128866	INSIDE	453.6409	1.4671732	2.7647963	3562
1.6982758	3.2451289	INSIDE				
2.187769	4.556004	INSIDE				
2.22915	4.6885766	INSIDE	392.6722	1.8718603	3.6600422	1204
1.9957088	3.9881199	INSIDE	288.8434	2.0326176	4.0914653	861
2.164912	4.4843908	INSIDE	651.3077	2.073543	4.2091911	72
1.9536226	3.8734594	INSIDE	955.9183			
1.8461127	3.5953014	INSIDE		1.5809559	2.9916801	4463
1.7036484	3.2572363	INSIDE	178.0003	1.7464008	3.3552047	2013
1.8511502	3.6078771	INSIDE	267.0605			
1.9960908	3.9891761	INSIDE		2.0169158	4.0471766	949
1.942343	3.8432931	INSIDE				
2.793449	6.9328522	INSIDE		1.2202066	2.3298008	3487
1.9873872	3.9651823	INSIDE		1.7237095	3.3028455	2008
2.73848	6.6736684	INSIDE				
1.63339	3.1024114	INSIDE	163.7636			
1.6859722	3.2175715	INSIDE	1695.398	1.8440455	3.5901534	829
1.8308533	3.5574742	INSIDE		1.260705	2.396128	4572
2.1822882	4.5387285	INSIDE	151.131	2.03307	4.0927485	3142
1.9411501	3.8401166	INSIDE	228.4487	1.5123746	2.8527921	4196
1.9603767	3.8916358	INSIDE	310.9053	1.5618377	2.9522967	1934
1.7738755	3.4197136	INSIDE		2.055577	4.1570987	1859
1.8900276	3.7064232	INSIDE	184.9458	1.8469138	3.5972983	378
1.8124138	3.5122945	INSIDE	294.631	1.5707141	2.9705171	1504
2.1482239	4.4328173	INSIDE	106.1298	1.7222855	3.2995871	2242
1.7454106	3.3529027	INSIDE	2313.907	1.5549806	2.9382978	1048
2.389782	5.2407816	INSIDE	190.1492	2.1539016	4.4502969	4131
1.6840215	3.2132239	INSIDE		2.2555592	4.7751935	1314
1.6870528	3.2199824	INSIDE		1.361209	2.5690038	2297
2.2569942	4.7799456	INSIDE	261.5612			
1.8633063	3.6384054	INSIDE	228.2327			
1.7927967	3.4648591	INSIDE				
2.2887373	4.8862826	INSIDE	266.5108			
2.0846877	4.2418326	INSIDE	1559.257	1.4467801	2.7259897	3822
2.3757195	5.1899459	INSIDE	292.3172			

1.8866415	3.6977341	INSIDE				
2.0241184	4.0674325	INSIDE	253.9749			
1.8679383	3.6501058	INSIDE	619.4103	1.4571587	2.7456709	1663
1.8122491	3.5118935	INSIDE	170.6482			
1.7776772	3.4287369	INSIDE		1.57811	2.9857844	3054
2.845545	7.1877738	INSIDE	153.1488	2.1104023	4.3181169	877
1.9740312	3.9286433	INSIDE	542.7186	1.1241188	2.1796837	3078
1.7178203	3.2893905	INSIDE	196.4385			
2.3553774	5.1172808	INSIDE	143.046	1.385995	2.6135214	2856
1.6046501	3.0412198	INSIDE	356.6617	1.8192354	3.5289412	2121
1.6424749	3.1220094	INSIDE	729.6741	1.4170631	2.6704134	2563
1.9961329	3.9892925	INSIDE	159.2601			
1.7876712	3.4525713	INSIDE				
1.797119	3.4752554	INSIDE	576.9213	1.3627299	2.5717134	4694
2.0406501	4.1143089	INSIDE		1.7527947	3.3701077	1814
1.6017705	3.0351556	INSIDE	150.7492			
2.4219484	5.3589427	INSIDE	4165.437	1.5645579	2.9578685	5605
2.1633823	4.4796385	INSIDE	5631.445	2.414986	5.333143	111
1.9800965	3.9451947	INSIDE		1.8118912	3.5110224	2354
1.8954861	3.7204731	INSIDE	136.6052			
1.7023371	3.2542771	INSIDE		1.5163536	2.860671	4842
1.6888522	3.224001	INSIDE	510.03			
2.2913775	4.8952329	INSIDE	797.6722	2.0606918	4.1718631	1185
2.038662	4.1086431	INSIDE		1.7957733	3.4720153	2224
1.8155214	3.5198682	INSIDE	102.1563	1.5037408	2.8357705	4826
1.7118739	3.2758604	INSIDE	189.311	1.6335326	3.102718	5207
2.1822011	4.5384545	INSIDE	423.6372	1.3948809	2.6296684	2967
1.6362325	3.10853	INSIDE		1.6187419	3.0710711	2687
2.0630636	4.1787273	INSIDE	138.4039	1.3897051	2.6202511	2168
1.8852545	3.6941809	INSIDE		1.5124546	2.8529503	2941
1.9330437	3.8185997	INSIDE	669.9094	1.4052529	2.6486421	1465
2.0935519	4.2679755	INSIDE	2112.614	2.2661762	4.8104645	1236
1.7676579	3.4050073	INSIDE	2266.03	1.1883863	2.2789769	4762
2.1011343	4.2904658	INSIDE				
1.917415	3.7774561	INSIDE		2.0399625	4.1123484	405
1.6774114	3.1985353	INSIDE	188.0762			
1.8767056	3.6723552	INSIDE	248.2596	1.6093035	3.0510451	3909
1.8476843	3.59922	INSIDE	637.6487	1.2492973	2.377256	4989
1.9935898	3.9822666	INSIDE	127.964			
1.9600979	3.8908838	INSIDE	4225.571	2.2074194	4.6184841	176
2.313328	4.970283	INSIDE	1792.069	1.679487	3.2031403	2144
2.349283	5.0957094	INSIDE	165.201			
2.3415494	5.0684668	INSIDE		2.326723	5.0166455	2467
2.1977408	4.5876038	INSIDE	309.3725			
1.9010065	3.7347366	INSIDE	172.1743	1.538289	2.9044983	2397
1.8337011	3.5645034	INSIDE	321.3856			
1.7972989	3.4756888	INSIDE	4972.171	2.0190408	4.0531422	191
2.3278618	5.020607	INSIDE	162.1158	1.8860881	3.696316	4161
1.6422815	3.1215909	INSIDE	852.8898	1.4913499	2.8115192	2381
2.03092	4.0866537	INSIDE		2.1278255	4.3705823	757
2.259974	4.7898285	INSIDE	600.225	1.5094901	2.8470939	3666
1.7815005	3.4378355	INSIDE	405.3681	1.968293	3.9130485	1305
1.7632453	3.3946087	INSIDE	587.377	1.973985	3.9285175	890
1.9113247	3.7615433	INSIDE	208.5558			
1.5932297	3.0172405	INSIDE		2.2058032	4.6133131	1619
2.1370256	4.3985426	INSIDE	1230.902			
1.897402	3.7254172	INSIDE	172.8679			
2.4274313	5.3793479	INSIDE	159.2262	1.8749807	3.6679671	4676

1.7992525	3.4803985	INSIDE	167.4805	1.6983563	3.24531	2331
1.8055766	3.4956884	INSIDE				
1.5954653	3.0219196	INSIDE				
2.0337565	4.0946964	INSIDE	852.0908	1.6296796	3.0944427	5309
2.2669637	4.813091	INSIDE	278.3421			
2.0436025	4.1227372	INSIDE	369.9521	1.3166195	2.4908178	2940
1.6919781	3.2309941	INSIDE	418.321	1.4639279	2.758584	4494
1.7136272	3.279844	INSIDE	608.6129			
1.7553573	3.3760992	INSIDE	244.6276	1.4620706	2.7550349	5417
1.7038534	3.2576992	INSIDE	257.8073	1.3604999	2.5677414	1834
1.8244325	3.5416766	INSIDE		1.4596342	2.7503862	667
1.8207905	3.5327472	INSIDE	249.5352	1.7883148	3.4541118	3554
1.9021678	3.7377441	INSIDE	346.7353			
1.7184569	3.2908423	INSIDE				
1.9498024	3.8632162	INSIDE	284.4274	1.7058678	3.262251	1823
2.014223	4.0396296	INSIDE	843.6936			
2.3584175	5.1280755	INSIDE	115.7738	1.8013494	3.4854608	3252
1.9240917	3.7949785	INSIDE	226.5066	2.4170887	5.3409216	2846
1.8801855	3.6812239	INSIDE	1409.64	1.8357557	3.5695834	3033
2.0292003	4.0817853	INSIDE				
2.304321	4.9393493	INSIDE	198.6578	1.6902393	3.2271023	5093
2.2778325	4.8494882	INSIDE	197.7122	1.5191134	2.8661486	2871
1.6587502	3.1574288	INSIDE				
1.6872035	3.2203188	INSIDE	180.1545	1.7833503	3.4422462	4675
1.7405707	3.3416733	INSIDE		1.6810589	3.2066322	1831
1.631269	3.0978537	INSIDE	71.52058	1.330622	2.5151109	5142
2.081774	4.2332744	INSIDE	395.7479	1.3544403	2.556979	2903
1.6255531	3.0856044	INSIDE	308.0352	2.2689216	4.8196273	302
1.6885545	3.2233358	INSIDE	982.0713	1.634207	3.1041688	4607
2.00215	4.0059655	INSIDE				
2.373306	5.1812708	INSIDE	112.8782	1.6909479	3.2286877	5505
1.9482278	3.859002	INSIDE		1.5837123	2.9974014	3920
2.2847	4.8726277	INSIDE	287.028	1.3044193	2.4698429	3526
2.1269708	4.3679938	INSIDE	104.5123			
1.8865192	3.6974207	INSIDE	134.8414	2.1826706	4.5399317	474
2.3626566	5.1431656	INSIDE	514.6668			
2.3318422	5.034478	INSIDE	418.8628	1.843145	3.5879132	4352
2.604836	6.0832235	INSIDE	837.9803	1.8798198	3.6802909	3534
2.1981769	4.5889908	INSIDE	169.1221	1.1880237	2.2784042	4928
2.3332436	5.0393707	INSIDE	367.8073	1.2623407	2.3988463	1943
1.9029443	3.7397564	INSIDE	340.4123	1.7308073	3.319135	3204
1.8623221	3.6359241	INSIDE	627.604	1.195395	2.2900752	1296
1.6343118	3.1043943	INSIDE	162.8882	1.458176	2.7476076	841
1.8915973	3.7104581	INSIDE	176.3427	1.4952354	2.8191015	4920
1.7563326	3.3783823	INSIDE	1691.776	1.7613245	3.3900922	2276
1.7876275	3.4524667	INSIDE	757.279	2.027741	4.0776586	3451
2.3448014	5.0799046	INSIDE	1019.109	2.1630063	4.4784711	694
2.0295167	4.0826806	INSIDE	305.8126	1.7021579	3.2538729	2632
2.0606568	4.1717618	INSIDE	292.5749	1.3118005	2.4825117	3282
1.7333744	3.3250462	INSIDE		1.2584606	2.3924033	3406
2.2247624	4.6743391	INSIDE		1.6949763	3.2377157	2969
1.9518028	3.8685765	INSIDE	114.0285			
2.4488938	5.4599729	INSIDE	258.8715	1.7701292	3.410845	2930
1.6428531	3.122828	INSIDE				
2.059839	4.1693977	INSIDE		1.7539731	3.3728616	2495
1.706622	3.2639569	INSIDE		1.3814893	2.6053719	1471
1.7393469	3.3388399	INSIDE	381.552	1.5501357	2.9284468	2255
1.734138	3.3268066	INSIDE	174.9322	2.246599	4.745628	1291

2.1440418	4.419986	INSIDE	164.3007	1.5068387	2.8418663	1963
1.7676593	3.4050106	INSIDE	175.3708	1.1177086	2.1700204	4781
1.9861195	3.9616996	INSIDE				
2.1671154	4.4912449	INSIDE		1.6068424	3.0458447	2151
2.0565207	4.1598188	INSIDE				
1.7990085	3.4798099	INSIDE		1.728719	3.314334	817
2.0320387	4.0898238	INSIDE	845.1851	1.4459194	2.7243639	3303
2.0237339	4.0663486	INSIDE		2.0257592	4.0720611	629
1.7507262	3.3652792	INSIDE				
1.6896105	3.225696	INSIDE		1.5653623	2.9595181	2035
2.2717395	4.8290503	INSIDE	146.4716			
2.1509888	4.4413209	INSIDE	154.98	1.5507125	2.9296179	4187
1.8241044	3.5408713	INSIDE	236.9384	1.9986202	3.9961762	1768
2.0232797	4.0650686	INSIDE	713.6517	1.6362501	3.1085679	4484
2.2796934	4.8557475	INSIDE	152.8086	1.646869	3.1315328	2510
1.6683317	3.1784683	INSIDE	184.3124			
2.2175057	4.6508864	INSIDE	167.9781	1.6904069	3.2274772	1179
2.107518	4.3094926	INSIDE	431.3885			
2.2772124	4.8474042	INSIDE				
1.7549468	3.3751387	INSIDE	296.0605	2.3742728	5.1847442	1800
1.9858989	3.9610939	INSIDE	158.458	1.8564397	3.6211293	510
1.6781871	3.2002555	INSIDE	1614.637	1.4023912	2.6433935	5389
2.3745105	5.1855985	INSIDE	330.754	1.4326799	2.699477	666
1.7118473	3.2758001	INSIDE	156.8714			
2.2508461	4.759619	INSIDE	128.0118	1.4441279	2.7209829	3373
1.8634492	3.6387658	INSIDE	1177.542	1.3534856	2.5552875	3669
1.8598179	3.6296185	INSIDE	183.1086	1.3014133	2.4647021	4078
2.319198	4.9905472	INSIDE	141.0006			
1.8157429	3.5204086	INSIDE	371.8073	1.8409904	3.5825588	2977
2.0523105	4.147697	INSIDE	225.7301	2.6906111	6.4558681	1198
2.2606936	4.7922182	INSIDE	222.4426			
1.8164202	3.5220617	INSIDE	173.1526	1.2400876	2.3621287	3997
1.997357	3.9926788	INSIDE	261.3257	1.7669228	3.4032728	2512
2.141097	4.4109732	INSIDE	207.0694			
1.9900002	3.9723705	INSIDE				
1.9066454	3.7493627	INSIDE	1299.531	1.9083761	3.7538633	244
2.076283	4.2171929	INSIDE	4865.875			
2.0320072	4.0897345	INSIDE	229.243	1.3203156	2.4972073	4226
2.2973893	4.9156742	INSIDE	169.0238	1.7366471	3.3325975	1984
2.2700965	4.8235539	INSIDE		1.2450197	2.3702179	5274
2.3476264	5.0898615	INSIDE	332.5655	1.6246846	3.0837474	1712
1.8809097	3.6830723	INSIDE	1089.982	1.4432092	2.7192508	2816
3.3823774	10.427905	INSIDE		1.8910319	3.7090042	1731
1.9251951	3.797882	INSIDE	1158.548	1.9198291	3.7837823	5463
2.0118997	4.0331294	INSIDE	645.5713	1.6615713	3.163609	2676
2.1034303	4.2972994	INSIDE	119.935	1.6709081	3.1841496	4406
2.199325	4.5926441	INSIDE	342.9402	1.8299259	3.5551881	2041
2.0421832	4.1186833	INSIDE	2570.636	1.5653346	2.9594613	4648
2.1332107	4.386927	INSIDE	648.5577	1.6968194	3.2418546	1649
1.8060503	3.4968364	INSIDE	1596.122	1.9518255	3.8686374	3450
2.0427573	4.1203226	INSIDE	186.0098	1.5906409	3.0118312	1670
1.9754826	3.9325977	INSIDE		1.6284589	3.0918255	4500
2.1144965	4.3303886	INSIDE	243.7691	1.8753817	3.6689868	3281
2.410906	5.3180819	INSIDE		1.3678275	2.5808164	4461
1.7897794	3.4576202	INSIDE	139.1112			
1.8935223	3.7154123	INSIDE	703.1829	1.6097432	3.0519751	2319
1.9654484	3.9053407	INSIDE				
2.7949371	6.9400069	INSIDE	369.4848	1.8660148	3.6452425	4241

1.8121754	3.5117141	INSIDE		2.1081562	4.3113993	1942
1.6726427	3.1879803	INSIDE	3032.249	1.8614807	3.6338042	566
2.031755	4.0890197	INSIDE	120.6587	1.7404681	3.3414357	2432
2.5049937	5.6764686	INSIDE	138.3255	2.0707707	4.2011104	4019
2.0246212	4.0688503	INSIDE	838.9918	1.3856806	2.612952	2247
1.6758181	3.1950048	INSIDE	191.136			
1.5955477	3.0220923	INSIDE	325.3447	1.5694448	2.9679048	2569
1.743713	3.3489597	INSIDE				
1.7150797	3.2831478	INSIDE	139.9077	0.9659408	1.9533369	4787
2.2664623	4.8114185	INSIDE	922.9667			
1.7518766	3.3679637	INSIDE		1.8312706	3.5585034	5290
1.9827998	3.9525941	INSIDE		1.9222498	3.7901365	3573
2.0433428	4.1219951	INSIDE				
2.2289102	4.6877973	INSIDE				
2.184693	4.5463004	INSIDE	1589.273	1.8276997	3.5497064	1478
1.8435949	3.5890323	INSIDE	1805.318	1.7135661	3.2797051	1013
2.1362386	4.3961439	INSIDE	237.7203	1.268076	2.4084016	3063
2.158912	4.4657794	INSIDE	759.3989	1.4224918	2.6804808	1525
1.8994797	3.7307862	INSIDE	168.0326	1.7412782	3.3433125	3435
2.036087	4.1013163	INSIDE		1.8321383	3.5606442	268
2.139714	4.4067468	INSIDE	185.9173	1.2321213	2.3491214	2437
2.0525877	4.148494	INSIDE	109.2287	1.3817025	2.6057569	5226
1.9626654	3.8978144	INSIDE		1.5365124	2.9009238	2174
1.7150369	3.2830504	INSIDE	1421.617	1.7813375	3.4374471	3417
1.8592036	3.6280733	INSIDE	168.9544	1.4145272	2.6657236	3814
1.812428	3.512329	INSIDE	726.4178			
1.6365	3.1091064	INSIDE	368.14			
2.0934026	4.2675339	INSIDE	205.9442			
1.9767603	3.9360821	INSIDE	247.3646			
1.681399	3.2073882	INSIDE	472.7499			
1.6549916	3.1492136	INSIDE	709.7371	1.1510974	2.2208276	5590
1.8912841	3.7096526	INSIDE	2968.661			
2.052294	4.1476495	INSIDE	627.3303	2.173859	4.5122875	1937
2.1314218	4.3814907	INSIDE	225.0816			
2.040393	4.1135757	INSIDE	134.8331			
1.7169942	3.2875075	INSIDE	342.9594	1.6900582	3.2266972	1742
1.6576415	3.1550033	INSIDE	974.9503	1.7815874	3.4380425	1805
1.8003883	3.4831396	INSIDE	1775.583	1.8938588	3.716279	427
2.040098	4.1127347	INSIDE				
1.9545339	3.8759069	INSIDE	144.4005	1.3933312	2.6268452	5333
2.1910262	4.5663018	INSIDE	313.9377	1.7803247	3.4350348	740
2.013671	4.0380842	INSIDE	189.3783	2.2832882	4.8678618	762
2.0805645	4.2297269	INSIDE	1317.471			
2.0625372	4.1772028	INSIDE		1.7944237	3.4687688	3980
2.211655	4.6320634	INSIDE	1143.384	2.1059155	4.3047084	5370
1.9589134	3.8876906	INSIDE		1.3215605	2.4993631	4697
2.6121197	6.1140133	INSIDE	104.1756			
1.9030254	3.7399666	INSIDE		1.2997689	2.4618944	5537
1.9618316	3.8955623	INSIDE	504.1552			
1.7621028	3.3919215	INSIDE	170.9677			
1.6004632	3.0324066	INSIDE	156.4675			
1.9678715	3.9119054	INSIDE		1.4882425	2.80547	3662
2.4631937	5.5143609	INSIDE	319.2354	2.0487487	4.1374696	3783
1.8599494	3.6299493	INSIDE	1132.855	1.8733581	3.6638441	4834
1.7777357	3.4288759	INSIDE		1.5098817	2.8478669	4179
1.8445235	3.5913431	INSIDE	2101.196	1.673981	3.1909389	624
1.6150695	3.0632636	INSIDE	331.8281	1.7981831	3.4778196	4075
1.5873784	3.0050279	INSIDE	531.9653	1.3354456	2.5235341	2093

1.765574	3.4000925	INSIDE	2480.891	1.5833486	2.9966459	4720
2.1207957	4.3493376	INSIDE		2.605778	6.0871968	4454
1.9293581	3.8088569	INSIDE	196.6942	1.6307622	3.0967656	3915
1.6301554	3.0954634	INSIDE	171.4199	1.3830166	2.6081315	2768
2.6136553	6.1205245	INSIDE				
1.7674282	3.4044652	INSIDE		1.2389714	2.3603019	3619
1.9953604	3.987157	INSIDE	202.0945	1.799854	3.4818499	3329
2.378895	5.201382	INSIDE	338.0685			
2.0596669	4.1689004	INSIDE		1.7907718	3.4599994	3609
1.7215674	3.2979451	INSIDE	131.546	1.4400992	2.7133952	3395
1.9839709	3.9558039	INSIDE		1.7039822	3.2579901	705
1.7646512	3.3979184	INSIDE	135.8783	1.8098825	3.5061373	5050
2.257652	4.7821255	INSIDE	161.5498	2.1406872	4.4097204	2459
1.9838623	3.9555061	INSIDE	686.4504			
2.1520143	4.444479	INSIDE	489.989	1.6198959	3.0735286	4052
1.7754346	3.4234112	INSIDE	242.3165	1.878452	3.6768033	4215
2.1993897	4.5928501	INSIDE		1.3711016	2.58668	1509
2.213277	4.6372741	INSIDE	245.944			
2.1642241	4.4822531	INSIDE	609.6368	1.5120096	2.8520704	1087
2.3236725	5.0060493	INSIDE	292.8849	1.5905226	3.0115842	3776
1.6767737	3.1971218	INSIDE	990.2904			
2.075395	4.2145979	INSIDE	214.5767	1.7340828	3.3266793	5140
2.567179	5.9264945	INSIDE	772.0458			
1.8657565	3.6445899	INSIDE	1284.211			
2.233138	4.701555	INSIDE	153.6461	1.5662334	2.9613056	1364
1.9765865	3.9356079	INSIDE				
2.0060437	4.0167918	INSIDE	128.6525	1.761284	3.389997	2007
2.0591867	4.167513	INSIDE	333.994			
1.7852824	3.4468593	INSIDE	213.1047	1.4336612	2.7013137	972
1.8732117	3.6634723	INSIDE		1.5354781	2.8988448	3853
2.8450084	7.1851008	INSIDE				
2.3941548	5.2566905	INSIDE		2.3051348	4.9421363	716
1.9291527	3.8083147	INSIDE		1.5369364	2.9017765	3866
2.0411782	4.1158152	INSIDE				
2.805047	6.9888108	INSIDE		1.3277565	2.5101203	3625
1.6398497	3.1163336	INSIDE	233.0337	1.850789	3.6069739	2693
2.002973	4.0082514	INSIDE	266.5231	1.9124384	3.7644482	2353
1.6574951	3.1546831	INSIDE	170.1555	1.1276529	2.1850297	1779
1.6791213	3.2023285	INSIDE	759.769	1.6530185	3.1449095	277
1.946767	3.8550966	INSIDE	855.8549	1.6547749	3.1487406	2016
1.7733911	3.4185656	INSIDE	111.1457			
2.5616417	5.9037912	INSIDE	189.5943			
1.9577589	3.8845807	INSIDE	488.7419	1.8226858	3.5373913	3135
1.9685823	3.9138333	INSIDE	1102.796			
1.8941191	3.7169495	INSIDE	209.5724			
1.9180727	3.7791786	INSIDE	229.7912	1.8473876	3.5984799	5424
1.6735113	3.1899002	INSIDE	992.1316	1.1742527	2.2567595	3266
1.9123194	3.7641377	INSIDE	887.149	2.1452813	4.4237851	3729
2.264179	4.8038097	INSIDE	1068.479			
1.6294079	3.09386	INSIDE	106.8842	1.9476426	3.857437	2234
1.6150882	3.0633033	INSIDE				
1.6913289	3.2295405	INSIDE	641.2416			
1.8428503	3.5871804	INSIDE		1.0342945	2.0481118	4545
2.2167218	4.64836	INSIDE		2.3129601	4.9690157	1051
2.2995765	4.9231323	INSIDE	467.925	1.7035271	3.2569625	1516
2.0130756	4.036418	INSIDE	204.7846	2.1392286	4.4052644	593
1.833796	3.5647379	INSIDE	187.9487	2.2057912	4.6132747	621
1.6195434	3.0727777	INSIDE	424.0465	2.0271945	4.0761143	1332

1.6638887	3.1686948	INSIDE	241.3012			
1.8679639	3.6501706	INSIDE				
1.5884149	3.0071877	INSIDE	246.2572			
2.2181041	4.6528159	INSIDE	126.1995			
2.200597	4.5966952	INSIDE	208.3641	1.5730017	2.975231	4817
2.7867773	6.9008654	INSIDE	243.5632	1.9222848	3.7902284	2252
1.7396811	3.3396134	INSIDE	161.1965	1.5231903	2.8742595	2011
1.8799348	3.6805843	INSIDE	449.3242	1.7467598	3.3560397	2498
1.63568	3.1073398	INSIDE	916.6396	2.1285222	4.3726934	4508
2.2858171	4.8764021	INSIDE	202.0059	1.8855222	3.6948664	2735
1.6238486	3.081961	INSIDE	301.0675	1.5650765	2.9589319	3694
1.6661125	3.1735828	INSIDE	2573.853	1.701144	3.2515869	2597
2.430551	5.3909929	INSIDE	673.3666			
2.1990643	4.5918143	INSIDE	3165.276	2.0198445	4.0554008	2246
1.6894464	3.2253292	INSIDE	411.6396	2.1751978	4.5164768	126
1.6325125	3.100525	INSIDE	307.946	1.8082361	3.5021384	615
2.3813891	5.2103818	INSIDE	478.9567	2.2927933	4.9000392	2637
1.6055369	3.0430898	INSIDE	213.9621	1.5090456	2.8462169	5083
2.2584965	4.7849256	INSIDE	779.8654	2.1323078	4.3841823	1127
1.6406908	3.118151	INSIDE				
2.0278816	4.078056	INSIDE	852.1093	1.8337193	3.5645484	2916
1.8063291	3.4975122	INSIDE	288.4742	1.3618631	2.5701688	3630
2.035308	4.0991023	INSIDE	565.2824	1.454452	2.7405244	3233
1.6166407	3.0666015	INSIDE				
1.6202002	3.0741769	INSIDE	253.5267	1.8602583	3.6307266	833
1.9663594	3.9078075	INSIDE	793.6665	0.8425766	1.79325	5584
1.7060324	3.2626232	INSIDE	546.0318	1.3892576	2.6194385	1707
1.8019475	3.4869061	INSIDE	112.3344	1.7832224	3.4419411	3916
1.7183936	3.2906979	INSIDE	1301.742	2.3930178	5.2525493	45
1.9818845	3.9500872	INSIDE	1000.024	2.0141034	4.0392947	237
2.5963786	6.0476666	INSIDE	367.5394	1.5252943	2.8784543	2949
2.319836	4.9927546	INSIDE	435.2859	2.0182137	4.0508192	781
2.1898274	4.562509	INSIDE	389.2078	2.0931597	4.2668154	86
1.7931962	3.4658187	INSIDE	517.7772	1.1427656	2.2080389	3725
1.5851412	3.0003716	INSIDE	143.9195			
1.8930105	3.7140944	INSIDE		1.7476821	3.3581859	1328
1.7495058	3.3624337	INSIDE	240.5878	2.0286367	4.080191	628
2.149538	4.4368568	INSIDE		1.7446126	3.3510486	2836
2.2088628	4.6231071	INSIDE		1.7551855	3.3756972	5282
1.6828651	3.2106493	INSIDE	2211.014	1.7381963	3.3361781	1491
2.090779	4.2597802	INSIDE	347.6294	1.7663231	3.4018584	991
1.8513738	3.6084363	INSIDE	551.6924	1.9737548	3.9278907	987
1.9995528	3.9987603	INSIDE	1895.959	2.177903	4.5249536	2434
2.448447	5.4582823	INSIDE		2.2895818	4.8891437	3009
1.650112	3.13858	INSIDE	261.4174	1.4917282	2.8122565	4026
1.8211292	3.5335766	INSIDE				
2.1464775	4.4274546	INSIDE	147.5605	1.3774129	2.5980207	3358
2.113828	4.3283825	INSIDE	259.8615			
1.6527046	3.1442253	INSIDE				
1.7663044	3.4018143	INSIDE	401.5426	2.1540313	4.450697	205
2.2949278	4.9072943	INSIDE	107.8664	1.2321758	2.3492102	4639
1.698668	3.2460113	INSIDE	253.1422	1.658336	3.1565224	1589
1.9477538	3.8577343	INSIDE	143.352	1.8947908	3.7186805	3815
1.7174381	3.2885192	INSIDE	242.8143			
1.7866503	3.450129	INSIDE	314.0004	1.8885581	3.7026498	2346
2.0351572	4.0986739	INSIDE	250.4152	1.5275766	2.8830115	1740
1.8077983	3.5010758	INSIDE	851.1107			
2.109471	4.3153303	INSIDE	85.76307			

1.767125	3.4037498	INSIDE	156.6972	1.4859298	2.8009763	4191
1.7651842	3.399174	INSIDE		1.5166038	2.8611672	2923
1.7137917	3.280218	INSIDE	177.5241	1.8799034	3.6805042	644
1.5912787	3.013163	INSIDE		2.4066792	5.3025238	1440
1.7597361	3.3863618	INSIDE				
1.7561809	3.3780271	INSIDE		1.4658604	2.7622816	2723
1.7023677	3.2543461	INSIDE	182.9539	1.8851976	3.6940352	1163
1.5924217	3.0155511	INSIDE		1.2646135	2.4026283	2189
1.6933572	3.2340841	INSIDE		1.6886672	3.2235876	3939
2.1195288	4.3455199	INSIDE	4213.919	2.023966	4.0670028	754
1.7269349	3.3102379	INSIDE	112.3591	1.4510628	2.7340939	610
1.9760367	3.9341084	INSIDE				
1.9085903	3.7544206	INSIDE	216.4131	1.4614033	2.7537609	4322
1.6442684	3.125893	INSIDE	173.8222			
1.7898722	3.4578426	INSIDE	151.1659			
2.118641	4.3428466	INSIDE	165.7738	2.1197097	4.3460648	1329
2.2149293	4.6425881	INSIDE	315.386	1.1085368	2.1562684	4722
1.9268165	3.8021528	INSIDE		1.9618287	3.8955545	923
1.6795473	3.2032742	INSIDE	328.706			
1.652225	3.1431802	INSIDE	111.3231	1.4880801	2.8051542	4310
2.4407856	5.429373	INSIDE	198.3164	1.7663915	3.4020197	1357
1.97861	3.9411318	INSIDE	433.2698	2.0225248	4.0629421	2492
2.0439453	4.1237169	INSIDE	224.7394	1.7869438	3.4508309	946
1.7633231	3.3947918	INSIDE	216.946	1.4951519	2.8189383	3610
2.2487147	4.7525925	INSIDE	163.2439			
1.675143	3.1935101	INSIDE	179.6261	1.4004197	2.6397837	1701
2.173305	4.5105551	INSIDE	131.8579	1.7451434	3.3522817	2854
2.01449	4.0403772	INSIDE				
2.3526433	5.1075921	INSIDE	352.9975	1.2793869	2.427358	5040
1.5884582	3.0072779	INSIDE	112.5237			
1.9263146	3.8008303	INSIDE		1.9835758	3.9547207	3552
1.7780298	3.429575	INSIDE		1.5635924	2.9558896	2550
1.9310977	3.8134524	INSIDE	91.75427			
2.6458	6.2584266	INSIDE		1.8047463	3.4936772	5251
1.673979	3.1909345	INSIDE	196.8354			
1.6430662	3.1232893	INSIDE	151.4347			
1.8385668	3.5765455	INSIDE	632.7335			
2.1564093	4.4580392	INSIDE	214.0159	1.9092195	3.7560584	4541
1.6763952	3.1962831	INSIDE				
2.2257738	4.6776172	INSIDE	253.3169	1.400797	2.6404741	3066
1.7559743	3.3775434	INSIDE		1.2012589	2.2994023	3809
1.972157	3.923543	INSIDE	443.1378	1.5128869	2.8538053	3975
1.5858368	3.0018186	INSIDE				
1.7320328	3.3219556	INSIDE	397.5156	2.0153577	4.042808	583
2.2456956	4.7426572	INSIDE	249.5599	1.840773	3.582019	5546
1.7075546	3.2660675	INSIDE	123.8395			
1.8384066	3.5761484	INSIDE	152.4416	1.5232558	2.87439	4112
2.0003443	4.0009547	INSIDE	318.529	1.5543343	2.9369817	5498
1.9342265	3.8217317	INSIDE	967.3002			
1.8327206	3.5620817	INSIDE				
2.639414	6.2307853	INSIDE	968.0058			
1.6942215	3.2360222	INSIDE		2.1545532	4.4523074	1238
1.7375305	3.3346388	INSIDE				
2.0843244	4.2407646	INSIDE	125.8572			
1.8756886	3.6697673	INSIDE	177.6067	1.6987705	3.2462419	2162
1.8735993	3.6644567	INSIDE	141.3877	1.8344028	3.5662375	5418
1.8041226	3.4921671	INSIDE	253.2566			
1.8615235	3.633912	INSIDE	172.5592	2.032861	4.0921556	2640

1.5851879	3.0004687	INSIDE	242.0267	1.2390451	2.3604225	1605
1.6178426	3.0691573	INSIDE	256.8883	1.4159992	2.6684449	4870
2.0481448	4.135738	INSIDE	309.4052			
1.8651985	3.6431806	INSIDE	564.8278	1.4157851	2.6680489	1771
1.6619207	3.1643753	INSIDE	135.204	2.0733533	4.2086376	5156
2.029127	4.0815779	INSIDE	117.9447			
2.007808	4.0217071	INSIDE	3629.243			
2.2044718	4.6090576	INSIDE	207.3051	1.5951095	3.0211745	3149
1.9693574	3.9159366	INSIDE	473.5938	1.3586537	2.5644576	4852
1.8429657	3.5874673	INSIDE	489.4102	1.6580461	3.1558882	4188
1.8575855	3.6240064	INSIDE	120.1825			
1.8910817	3.7091322	INSIDE				
2.1544406	4.4519599	INSIDE		1.8294481	3.5540109	2790
1.995145	3.9865617	INSIDE	163.6339	1.3854873	2.6126019	2366
1.8215848	3.5346927	INSIDE	317.3569			
2.008492	4.0236143	INSIDE	143.4695	1.7355502	3.3300647	3357
1.6418351	3.1206252	INSIDE	90.56461			
2.292403	4.8987138	INSIDE	125.7759	1.7776831	3.4287509	5407
1.6295445	3.0941529	INSIDE				
1.6753086	3.1938767	INSIDE	357.4335	1.714066	3.2808417	3134
1.6050036	3.0419651	INSIDE	122.6821			
2.3705137	5.1712523	INSIDE		1.914882	3.7708297	1298
2.5218482	5.7431737	INSIDE		1.3777578	2.5986418	5350
1.8523893	3.6109772	INSIDE	2158.934	1.5345874	2.8970557	3205
2.1809235	4.5344372	INSIDE	113.0869			
1.6682682	3.1783284	INSIDE	158.6015	1.5839593	2.9979146	2975
1.8997151	3.731395	INSIDE	203.9899	1.6020012	3.035641	2927
2.192625	4.571365	INSIDE		1.3870814	2.6154903	4942
2.4480393	5.45674	INSIDE	623.2902	2.2903588	4.8917776	1287
1.8399956	3.5800894	INSIDE	158.2158			
1.7111892	3.2743061	INSIDE	1435.537	1.203387	2.3027966	4354

Normalized	Normalized	Type	transcript in	Normalized	Normalized	Rank (P2-12H_R1R2)
2.9310338	7.626567	INSIDE				
2.3375683	5.0544997	INSIDE	171.9182	1.3497173	2.5486218	3354
1.749165	3.3616395	INSIDE	152.3997			
1.8157555	3.5204394	INSIDE	206.4663			
2.6401548	6.2339855	INSIDE	130.5695			
1.8754897	3.6692614	INSIDE		1.3908921	2.6224079	4294
2.0027716	4.0076919	INSIDE	184.0967	1.9018412	3.736898	3292
1.6481568	3.1343294	INSIDE		1.3094677	2.4785008	5540
2.105249	4.3027201	INSIDE	1799.399	1.6507967	3.14007	4806
2.1932023	4.5731946	INSIDE		1.9699727	3.9176071	154
1.6997774	3.2485083	INSIDE	760.2377	1.702215	3.2540017	1592
1.7374573	3.3344696	INSIDE	119.0331			
1.9794655	3.9434695	INSIDE	321.5224	1.5668906	2.9626549	2099
2.5121782	5.7048075	INSIDE	418.8445			
2.1338942	4.3890059	INSIDE		1.4480393	2.72837	3027
1.812663	3.5129012	INSIDE	196.057	1.8423522	3.5859421	1406
2.0424826	4.1195381	INSIDE		1.425709	2.6864649	5423
1.7517648	3.3677027	INSIDE	577.378	1.4865181	2.8021188	2925
2.0703459	4.1998736	INSIDE				
1.6743402	3.1917335	INSIDE		1.4228265	2.6811027	3460
2.3180408	4.9865458	INSIDE				
1.7499546	3.3634798	INSIDE		1.1762757	2.2599263	4522
2.0953875	4.2734093	INSIDE				

2.290517	4.892314	INSIDE		1.590005	3.0105039	4414
1.7879627	3.453269	INSIDE		1.2835807	2.4344244	1709
2.4891932	5.6146387	INSIDE	108.3682			
1.5965065	3.0241014	INSIDE		1.5169592	2.8618721	5268
2.2289002	4.6877648	INSIDE	1092.392	1.6264771	3.0875812	1438
1.8702027	3.6558394	INSIDE				
1.7640157	3.3964219	INSIDE				
2.2134461	4.6378177	INSIDE	136.6261	2.1048086	4.3014069	3206
2.110159	4.3173887	INSIDE	2094.711	1.6905961	3.2279005	3913
2.2751992	4.8406447	INSIDE	108.9574	1.9321408	3.8162106	4605
1.8037217	3.4911968	INSIDE		1.6110141	3.0546649	5512
2.27399	4.8365892	INSIDE	221.9033	1.4062159	2.6504106	2556
2.348489	5.0929057	INSIDE	3108.829	2.265677	4.8088002	88
2.3881545	5.2348729	INSIDE				
1.9289339	3.8077372	INSIDE	754.6285	1.3360919	2.5246649	3900
2.1478403	4.4316388	INSIDE	404.7739			
2.5171196	5.7243806	INSIDE	170.1528			
1.8947711	3.7186297	INSIDE	653.2878	1.4547514	2.7410932	4040
1.9312024	3.8137292	INSIDE	143.2527			
2.3637912	5.147212	INSIDE	227.1851	2.123694	4.358084	832
2.0677354	4.1922809	INSIDE	618.9843			
2.0372438	4.1046062	INSIDE	1676.694	1.6398643	3.1163652	4766
1.7979324	3.4772153	INSIDE		1.7640615	3.3965298	5503
1.8787582	3.6775838	INSIDE	1086.398			
1.8583392	3.6259002	INSIDE	108.6904			
1.733559	3.3254717	INSIDE	268.4677			
1.8739625	3.6653793	INSIDE	855.9595	1.7634139	3.3950055	1349
2.2604895	4.7915403	INSIDE	281.5758	2.1199226	4.3467062	4763
2.1634789	4.4799384	INSIDE				
1.8424084	3.5860818	INSIDE				
1.6022843	3.0362368	INSIDE				
1.9981513	3.9948776	INSIDE	279.9302	1.7696482	3.409708	3981
1.7048832	3.2600254	INSIDE	366.7046	1.4662724	2.7630706	4207
2.5771048	5.9674096	INSIDE		0.6707386	1.5918877	4147
2.0624468	4.1769411	INSIDE	787.6591			
1.7976979	3.4766502	INSIDE				
1.8897537	3.7057195	INSIDE	2702.414	1.8991928	3.7300444	306
2.6075919	6.094855	INSIDE	372.7875			
2.9684498	7.8269477	INSIDE	126.5019	1.5026948	2.8337153	4333
2.1077838	4.3102866	INSIDE	245.9021			
1.7498538	3.3632448	INSIDE	495.0267			
2.2476132	4.7489653	INSIDE	129.5066			
2.0188262	4.0525394	INSIDE	108.0238			
1.8987004	3.7287715	INSIDE	137.6613			
1.7710111	3.4129307	INSIDE	459.6956			
2.1135292	4.3274861	INSIDE	748.3826			
2.3244069	5.0085983	INSIDE	375.0687			
2.3757977	5.1902272	INSIDE	167.0535			
1.8044417	3.4929396	INSIDE	404.7242	1.5599062	2.9483467	2838
2.308157	4.9525001	INSIDE		2.1467311	4.4282329	3626
2.364165	5.1485458	INSIDE	560.8131			
1.8679059	3.6500239	INSIDE	362.2285	1.3041048	2.4693046	5005
1.9252951	3.7981453	INSIDE		1.47981	2.78912	3985
2.5313952	5.7813051	INSIDE	163.3366			
1.6549578	3.1491398	INSIDE				
1.8947482	3.7185707	INSIDE		1.3850436	2.6117985	4921
2.004692	4.0130302	INSIDE		1.4118744	2.6608264	2979
2.1486082	4.4339982	INSIDE	1006.204	1.7886882	3.455006	2449

1.8734081	3.663971	INSIDE	187.2379	2.1289177	4.3738923	178
2.8838606	7.3812267	INSIDE	2177.057	2.211605	4.6319029	809
1.9183445	3.7798907	INSIDE				
1.9755479	3.9327757	INSIDE		1.3869328	2.6152209	5595
2.0640125	4.1814766	INSIDE	781.1382	1.6443498	3.1260694	4160
1.7658389	3.4007169	INSIDE	135.9946	1.5506079	2.9294055	5543
1.6174963	3.0684207	INSIDE	1086.653			
1.8696198	3.6543626	INSIDE	143.8168			
2.0024729	4.0068622	INSIDE	441.8593	1.9313711	3.8141752	318
2.2524707	4.7649818	INSIDE	431.4943	1.6052711	3.0425292	3586
1.9945476	3.9849113	INSIDE				
2.515428	5.7176726	INSIDE				
1.8711658	3.6582808	INSIDE	469.4809			
2.1950312	4.5789957	INSIDE	7104.923	1.5859624	3.00208	668
1.6749485	3.1930796	INSIDE				
1.7629577	3.3939321	INSIDE	5652.629	1.7851648	3.4465783	898
2.1893282	4.5609305	INSIDE	578.4572	1.7578512	3.3819403	689
1.9531626	3.8722245	INSIDE				
2.3527963	5.1081337	INSIDE	422.962	0.8526411	1.8058037	4516
1.9862564	3.9620756	INSIDE	179.0755			
1.6444196	3.1262206	INSIDE	231.3358			
2.4234278	5.3644408	INSIDE	1018.584			
2.7963822	6.946962	INSIDE	296.7167			
1.6077303	3.0477199	INSIDE		1.4347707	2.703392	4501
2.8138952	7.0318057	INSIDE	189.9925			
1.7761065	3.425006	INSIDE	3790.191	1.8993795	3.7305271	1971
2.208445	4.6217685	INSIDE				
1.987709	3.9660669	INSIDE	1050.94	1.6927325	3.232684	3046
2.2180307	4.6525792	INSIDE				
2.3811898	5.2096621	INSIDE	186.9959			
1.9088572	3.7551153	INSIDE	245.8682			
2.4675894	5.5311881	INSIDE	384.8221	1.3857577	2.6130916	4039
2.24781	4.7496131	INSIDE	808.5889			
2.3205433	4.995203	INSIDE	724.1879			
1.8934247	3.7151609	INSIDE	287.1358			
2.0402818	4.1132587	INSIDE	236.8589			
2.5673945	5.9273798	INSIDE	121.804	1.8731037	3.663198	2487
2.14988	4.4379087	INSIDE	165.5943			
2.39659	5.2655711	INSIDE		2.1409047	4.4103853	1047
1.767867	3.4055009	INSIDE		1.077718	2.1106948	5453
1.779884	3.4339856	INSIDE	1335.301			
2.259957	4.7897721	INSIDE	185.9303	1.2857813	2.4381406	3925
1.934242	3.8217728	INSIDE	1686.238			
2.3711548	5.1735508	INSIDE	660.1777	1.5513511	2.9309149	3284
3.4326088	10.797376	INSIDE				
1.9633554	3.8996791	INSIDE	1393.163	1.2557105	2.3878472	330
1.9717422	3.922415	INSIDE				
2.256653	4.7788153	INSIDE	388.8627			
1.7567459	3.3793503	INSIDE	748.1323			
1.6853158	3.2161079	INSIDE	3650.99			
1.8025434	3.4883466	INSIDE	256.4641	1.2983222	2.4594269	5192
2.14115	4.4111353	INSIDE	425.774			
1.6959202	3.2398347	INSIDE	618.7736	1.4957001	2.8200097	3972
1.8179014	3.5256797	INSIDE				
2.049914	4.1408129	INSIDE	4223.56	1.6661954	3.1737652	5189
1.6284245	3.0917518	INSIDE	160.3647			
2.2602265	4.7906669	INSIDE	175.0295			
1.6912299	3.2293189	INSIDE	86.44846			

2.126753	4.3673344	INSIDE				
1.6265937	3.0878308	INSIDE		1.4457134	2.7239749	5555
1.6699558	3.1820484	INSIDE	129.9708			
2.1705673	4.5020039	INSIDE	651.7518			
2.2126517	4.6352646	INSIDE	153.6463			
1.8954728	3.7204388	INSIDE				
1.7451357	3.3522638	INSIDE	487.3846			
2.4655516	5.5233808	INSIDE	94.33367			
1.9722433	3.9237777	INSIDE	441.2784			
2.2601964	4.7905669	INSIDE	111.6738			
1.8440924	3.5902701	INSIDE	152.6602			
2.2631357	4.800337	INSIDE		2.3908172	5.2445435	134
1.7552722	3.3759001	INSIDE	627.5302	1.8384695	3.5763043	2995
2.130106	4.3774964	INSIDE	191.5875			
1.8607091	3.6318613	INSIDE	369.3485			
2.1666017	4.489646	INSIDE	1189.669	1.8565342	3.6213665	5183
1.6981269	3.244794	INSIDE		1.5774674	2.9844548	1463
2.0673902	4.191278	INSIDE	108.5707	1.7093614	3.2701604	3542
2.127328	4.3690754	INSIDE	1647.28			
2.3680174	5.1623122	INSIDE	214.9218			
1.8481244	3.6003182	INSIDE				
1.8528951	3.6122434	INSIDE				
1.6478115	3.1335793	INSIDE				
2.2833803	4.8681725	INSIDE	98.70368			
1.9802785	3.9456924	INSIDE				
1.9183755	3.7799719	INSIDE	92.92792			
2.3917832	5.2480563	INSIDE				
2.9033382	7.4815552	INSIDE	426.9154			
2.1559796	4.4567116	INSIDE	761.3406	1.7552001	3.3757314	4991
1.924312	3.795558	INSIDE	189.2317	1.5916402	3.0139181	5006
2.374797	5.1866284	INSIDE	161.6212	1.3248334	2.5050396	4317
2.0687597	4.1952585	INSIDE	2161.894	1.7094089	3.2702681	1442
2.171397	4.5045937	INSIDE	130.0457			
1.682284	3.2093564	INSIDE				
2.163655	4.4804853	INSIDE	884.9813			
1.7774669	3.4282371	INSIDE		1.5084139	2.8449709	3767
1.7644846	3.397526	INSIDE	2158.289	1.2813734	2.4307026	5565
1.9069479	3.750149	INSIDE				
1.6985198	3.2456778	INSIDE	403.2735			
1.8767964	3.6725863	INSIDE	259.8573	1.3385949	2.5290488	2796
2.343397	5.0749619	INSIDE	2220.262	1.9388776	3.8340725	524
1.8118495	3.5109209	INSIDE	449.3905			
2.4592416	5.4992756	INSIDE	272.8905			
2.1793077	4.5293615	INSIDE	319.2978			
1.8156322	3.5201385	INSIDE	274.5984			
1.7076113	3.2661958	INSIDE	196.4341			
1.744395	3.3505432	INSIDE				
2.392962	5.2523462	INSIDE				
1.7439381	3.3494822	INSIDE	234.6647			
2.0710845	4.2020243	INSIDE	369.6575	1.5330184	2.8939067	1288
2.298965	4.921046	INSIDE	387.5795	1.597973	3.0271769	1273
2.1288095	4.3735643	INSIDE	137.0866			
1.7824982	3.4402137	INSIDE	149.5168			
1.8607025	3.6318447	INSIDE	428.6432			
1.9269267	3.8024432	INSIDE	314.293			
2.1185184	4.3424776	INSIDE	156.9928			
2.195196	4.5795188	INSIDE	923.1388	1.5269766	2.8818128	3438
2.2853441	4.8748036	INSIDE	645.2163			

2.2844143	4.8716629	INSIDE	283.4718	1.7390448	3.3381408	5442
1.9241965	3.7952542	INSIDE	483.9818			
1.6432694	3.1237292	INSIDE	167.3643	1.2890415	2.4436565	4981
2.220853	4.6616898	INSIDE	354.676	0.8747971	1.8337502	5529
1.6299475	3.0950174	INSIDE	606.421	1.5659523	2.9607287	1295
2.0357096	4.1002435	INSIDE	237.0471	1.5589979	2.9464911	4505
1.9394705	3.8356485	INSIDE	372.0096	2.108732	4.3131204	2227
2.0851345	4.2431465	INSIDE	214.6549			
1.7585073	3.3834787	INSIDE	320.2097			
1.8616412	3.6342085	INSIDE				
1.9996089	3.9989158	INSIDE	979.621	1.960135	3.8909839	198
2.5405748	5.8182077	INSIDE	1099.077	2.0317423	4.0889837	5538
2.0657692	4.1865713	INSIDE	154.8195			
1.6859483	3.2175182	INSIDE	1526.761			
1.7409383	3.3425249	INSIDE	133.3398			
2.254667	4.7722413	INSIDE				
2.5487428	5.8512416	INSIDE				
2.2324657	4.6993646	INSIDE				
1.912657	3.7650186	INSIDE	142.1523	1.0540873	2.0764042	5519
2.252861	4.7662711	INSIDE				
2.13328	4.3871377	INSIDE	292.9118			
1.9643747	3.9024353	INSIDE	315.3683	1.5525638	2.9333796	4232
1.9614267	3.8944692	INSIDE	422.437	1.2662534	2.4053609	5204
1.7032697	3.2563814	INSIDE	132.5608			
1.8483672	3.6009241	INSIDE	186.6718			
2.092726	4.2655329	INSIDE	361.2087			
1.8336446	3.5643638	INSIDE	129.5484			
1.7500314	3.3636589	INSIDE	331.4274			
1.9470512	3.8558561	INSIDE		1.478784	2.7871372	4929
1.7863775	3.4494767	INSIDE	616.3577			
1.795074	3.4703327	INSIDE	633.4207	1.8225847	3.5371434	2308
1.9116851	3.7624831	INSIDE	2252.688			
2.3095584	4.9573132	INSIDE	199.7923			
1.9375702	3.8305995	INSIDE				
2.71141	6.5496145	INSIDE	530.463			
1.6260124	3.0865869	INSIDE				
1.7665632	3.4024246	INSIDE	2513.279			
1.7495793	3.362605	INSIDE	539.2684			
2.3002002	4.9252611	INSIDE	103.2084			
2.211418	4.6313025	INSIDE	123.0044			
2.149689	4.4373212	INSIDE	170.3463			
1.9379922	3.8317202	INSIDE	2116.923			
2.242931	4.7335777	INSIDE	218.7114			
1.7128356	3.2780449	INSIDE	440.1949			
1.6320486	3.0995281	INSIDE	1814.669			
1.5913537	3.0133196	INSIDE	151.514	1.47595	2.7816675	3162
1.7402209	3.3408632	INSIDE				
1.8350787	3.5679087	INSIDE	451.6691	1.8530607	3.612658	2266
1.737201	3.3338773	INSIDE	203.8382	1.4519058	2.735692	5036
1.9995353	3.9987118	INSIDE	484.8441	1.8394325	3.5786923	2150
2.3950338	5.2598943	INSIDE	124.6646	1.9577105	3.8844504	248
1.8371067	3.5729276	INSIDE				
1.731475	3.3206715	INSIDE	485.4319	1.445536	2.72364	5551
2.256198	4.7773084	INSIDE				
1.8148706	3.5182807	INSIDE	248.5496	1.5899149	3.0103159	5515
2.0990446	4.2842557	INSIDE				
1.6057669	3.043575	INSIDE				
2.1764815	4.5204973	INSIDE	356.8723	1.4240327	2.6833453	4008

1.8120795	3.5114807	INSIDE				
2.0175226	4.0488792	INSIDE		1.8029144	3.4892438	2232
1.6770071	3.1976391	INSIDE	222.3609			
2.3188522	4.9893511	INSIDE		1.6811811	3.2069039	243
2.1743708	4.5138886	INSIDE	478.9485	1.9531893	3.8722962	3486
1.7895238	3.4570077	INSIDE	229.9912	1.7821434	3.4393678	1843
1.910712	3.7599462	INSIDE	392.2164	1.9607922	3.8927568	4798
2.066473	4.1886142	INSIDE	378.9282	1.7266014	3.3094728	4367
2.1374176	4.399738	INSIDE	120.5992			
1.8305392	3.5566998	INSIDE	97.97869			
2.326603	5.0162283	INSIDE		1.4013666	2.6415168	4959
2.1473114	4.4300144	INSIDE				
1.9736814	3.9276909	INSIDE	1309.793	1.6191101	3.071855	2328
1.674002	3.1909854	INSIDE	489.1437			
1.7057712	3.2620326	INSIDE	720.3893			
1.9513322	3.8673148	INSIDE				
2.2062814	4.6148425	INSIDE	2299.417			
1.9002329	3.7327345	INSIDE	748.4291	1.7458619	3.3539517	4986
1.9009058	3.7344759	INSIDE		1.4761939	2.7821378	5257
1.9300085	3.8105744	INSIDE				
1.7716202	3.4143719	INSIDE	1219.009			
1.7245307	3.3047261	INSIDE	539.9329			
1.6846577	3.2146412	INSIDE	394.651			
2.0041857	4.0116221	INSIDE	93.751	1.32144	2.4991543	4925
1.8618263	3.6346748	INSIDE				
1.6526676	3.1441447	INSIDE	817.2443			
2.2069373	4.616941	INSIDE	242.3395			
1.8358805	3.5698922	INSIDE				
1.6295198	3.0940999	INSIDE				
1.8495252	3.6038156	INSIDE	864.4376			
1.6262982	3.0871984	INSIDE	728.8035			
1.9300237	3.8106146	INSIDE				
1.9299022	3.8102937	INSIDE	237.0153			
1.8366963	3.5719114	INSIDE	216.3039	1.7896975	3.4574239	491
2.3752987	5.1884323	INSIDE				
1.6648911	3.1708972	INSIDE	612.0887			
2.4872494	5.607079	INSIDE	444.1833			
1.9664891	3.9081588	INSIDE	433.9603			
2.1367261	4.3976296	INSIDE	323.7952			
1.675661	3.1946569	INSIDE	370.3005			
2.0361829	4.1015889	INSIDE	748.0764			
2.1148832	4.3315495	INSIDE	118.1617			
2.308783	4.9546495	INSIDE	201.9208	1.5255367	2.878938	4845
1.7422132	3.34548	INSIDE	190.8781	1.2223353	2.333241	5504
2.1189966	4.3439172	INSIDE	283.7714			
1.9767475	3.9360471	INSIDE				
1.8132099	3.5142331	INSIDE				
2.1475117	4.4306295	INSIDE	261.452			
1.7538003	3.3724576	INSIDE				
1.9288708	3.8075706	INSIDE	257.239			
1.7980098	3.4774019	INSIDE	705.7809			
1.6643802	3.1697745	INSIDE		1.7485433	3.3601911	3952
1.9403273	3.8379271	INSIDE	902.0457			
1.6666101	3.1746776	INSIDE	184.1755			
1.7900189	3.4581942	INSIDE				
1.8564594	3.6211788	INSIDE	114.0949			
2.3016827	4.9303248	INSIDE	793.3365			
2.0027525	4.0076388	INSIDE	2538.177			

1.7962089	3.4730638	INSIDE		1.841055	3.5827193	2598
1.8485302	3.601331	INSIDE	174.915			
1.6917696	3.2305272	INSIDE	112.8427			
1.6625105	3.1656692	INSIDE				
2.014906	4.0415424	INSIDE	239.5748			
1.7929235	3.4651637	INSIDE	143.86			
1.601592	3.0347801	INSIDE				
2.3645177	5.1498046	INSIDE	249.9873			
1.6322387	3.0999366	INSIDE	1868.623	1.633061	3.101704	3828
1.7552096	3.3757536	INSIDE	707.3026			
1.9717901	3.9225453	INSIDE	2876.584	1.6857361	3.217045	713
2.0029826	4.0082781	INSIDE	269.9825	2.2995756	4.9231292	2558
1.9416224	3.8413739	INSIDE				
1.8173678	3.5243759	INSIDE	338.041			
1.9035587	3.7413494	INSIDE	276.8295	1.4314296	2.6971385	5549
2.1451871	4.4234962	INSIDE	1975.348			
2.2386334	4.719498	INSIDE	238.8202			
1.9669626	3.9094417	INSIDE				
1.8903333	3.7072086	INSIDE	1203.19	2.093428	4.267609	826
1.5862532	3.0026851	INSIDE		1.6597542	3.1596269	2948
1.9906157	3.9740656	INSIDE	119.1433			
1.625379	3.085232	INSIDE	1216.949			
2.0217104	4.0606492	INSIDE				
1.6171393	3.0676615	INSIDE				
1.9021109	3.7375967	INSIDE	1059.267			
2.2287023	4.6871218	INSIDE	548.147			
2.3318517	5.0345112	INSIDE				
1.8271326	3.5483113	INSIDE	791.2463	1.6328465	3.1012428	3441
2.1088145	4.3133671	INSIDE		1.3908075	2.6222541	3720
1.7121546	3.2764979	INSIDE				
1.7028841	3.2555112	INSIDE	583.9214			
2.0636709	4.1804867	INSIDE	278.2999			
1.9278011	3.8047485	INSIDE				
1.9761285	3.9343587	INSIDE	1152.023	1.7193089	3.2927863	1612
1.7632962	3.3947285	INSIDE	1418.49	1.3397777	2.5311231	3295
1.821455	3.5343747	INSIDE	128.5311			
2.2871072	4.8807647	INSIDE				
1.959822	3.8901398	INSIDE	147.8275			
2.0211382	4.059039	INSIDE	607.2008			
1.9880223	3.9669282	INSIDE	961.7272			
1.6152022	3.0635453	INSIDE	963.5446	1.8073134	3.4998993	3336
2.1983168	4.5894358	INSIDE				
1.9306849	3.8123614	INSIDE				
1.9740164	3.928603	INSIDE	145.3382			
1.8044128	3.4928696	INSIDE				
2.0914044	4.2616272	INSIDE				
2.0696604	4.1978785	INSIDE	847.0571	1.8022889	3.4877313	3017
1.8686187	3.6518277	INSIDE		1.5204794	2.8688636	1889
2.361269	5.1382212	INSIDE	1605.53			
1.886408	3.6971357	INSIDE	137.0853			
2.0719388	4.2045133	INSIDE	184.4115	1.7537092	3.3722446	1855
1.6635607	3.1679745	INSIDE	499.3073	1.887764	3.7006123	3536
1.9734666	3.9271062	INSIDE	1081.026	1.4514238	2.7347781	4353
2.1129057	4.3256163	INSIDE	433.5669	1.5347122	2.8973063	3140
1.8310055	3.5578495	INSIDE	439.3975			
1.9926473	3.9796658	INSIDE				
2.3359413	5.0488027	INSIDE				
1.8017027	3.4863145	INSIDE	184.0009			

2.1451762	4.4234628	INSIDE	901.7613	1.5450996	2.9182421	4085
1.9014269	3.7358251	INSIDE	1353.5			
2.1493614	4.4363137	INSIDE		1.8667748	3.6471633	4470
1.9954809	3.98749	INSIDE		1.5019312	2.8322158	5287
2.1521912	4.445024	INSIDE				
2.6154683	6.1282209	INSIDE	442.4561			
2.0605931	4.1715776	INSIDE	171.5117			
1.7659514	3.4009821	INSIDE				
2.3245587	5.0091253	INSIDE	296.9906			
1.8170966	3.5237134	INSIDE		2.6237059	6.1633123	35
1.8787805	3.6776406	INSIDE	322.1885			
1.9066497	3.7493739	INSIDE	500.5962			
1.7448683	3.3516426	INSIDE				
2.5045352	5.6746649	INSIDE				
1.6316	3.0985645	INSIDE				
1.8857164	3.6953638	INSIDE	1220.44			
2.3987622	5.2735052	INSIDE	755.1	1.9340727	3.8213243	1435
2.391941	5.2486304	INSIDE	173.5159			
1.758487	3.3834311	INSIDE	202.3238			
2.256063	4.7768613	INSIDE	723.1403	1.0732509	2.1041695	2270
1.9120557	3.7634497	INSIDE	663.5988			
1.6069795	3.0461342	INSIDE	246.3641			
2.1645668	4.4833179	INSIDE	951.0166	1.5818833	2.9936038	5598
1.8866147	3.6976654	INSIDE	1289.691	1.6096234	3.0517217	5232
2.4967782	5.6442356	INSIDE	134.6757			
1.9884926	3.9682216	INSIDE	7157.248	1.0409739	2.0576162	4663
1.9393271	3.8352672	INSIDE				
1.8681769	3.6507096	INSIDE	305.619	1.7427158	3.3466456	490
1.7780586	3.4296435	INSIDE				
2.4772816	5.5684724	INSIDE	275.2295			
1.8238986	3.5403662	INSIDE	167.1553			
2.309916	4.9585421	INSIDE	144.6206	1.9916468	3.9769069	662
2.0856407	4.2446356	INSIDE	1905.573			
1.7362871	3.331766	INSIDE	126.0653			
1.8403156	3.5808835	INSIDE				
2.0917952	4.2627818	INSIDE	889.0388			
1.9823964	3.951489	INSIDE				
1.6521928	3.1431101	INSIDE				
1.629344	3.0937229	INSIDE	244.1153			
1.9144998	3.7698309	INSIDE	160.4111			
2.0866504	4.2476073	INSIDE	106.0111			
1.6286227	3.0921766	INSIDE	2664.736	1.6170274	3.0674236	4119
1.6920033	3.2310505	INSIDE	583.3428	1.6681275	3.1780184	3024
1.8885074	3.7025197	INSIDE	151.8991			
1.6803036	3.2049539	INSIDE	1130.233	1.8144373	3.5172242	2791
2.0642848	4.1822659	INSIDE	119.1746			
2.129898	4.3768653	INSIDE	885.5021	1.4787322	2.7870371	4323
2.4408712	5.4296951	INSIDE	478.7329			
2.2487853	4.7528251	INSIDE	268.7619			
2.1957774	4.5813647	INSIDE				
1.5910438	3.0126724	INSIDE	279.8329	1.49131	2.8114414	3298
1.7930722	3.4655209	INSIDE	832.4058			
1.993505	3.9820325	INSIDE	196.6059			
1.7102472	3.2721689	INSIDE	299.3685			
2.3287103	5.0235607	INSIDE	96.56364			
1.7947465	3.4695451	INSIDE	204.7102	1.6465976	3.1309438	4631
1.7813493	3.4374752	INSIDE	567.2739	1.4701127	2.7704353	4604
1.6359404	3.1079007	INSIDE				

1.8512198	3.6080512	INSIDE	2239.335	1.3501501	2.5493865	3289
1.7328318	3.3237959	INSIDE	666.5382			
1.6839596	3.213086	INSIDE	664.7275	1.3052629	2.4712876	1470
1.7377284	3.3350963	INSIDE				
2.0403628	4.1134896	INSIDE	344.6441			
1.6608067	3.1619328	INSIDE				
2.1335201	4.3878679	INSIDE	494.2351	1.6587309	3.1573866	3362
1.8281024	3.5506974	INSIDE	2701.885			
1.7615703	3.3906698	INSIDE	2850.66	1.7505766	3.3649302	4864
1.8848692	3.6931944	INSIDE	758.2372			
1.6418848	3.1207327	INSIDE				
1.8498595	3.6046508	INSIDE	330.1159	2.1979825	4.5883724	2666
1.8708104	3.6573797	INSIDE	713.8957			
1.6797162	3.2036492	INSIDE	992.5947	1.5639892	2.9567027	4836
1.7336683	3.3257237	INSIDE	1777.727	1.9336897	3.82031	31
2.1214955	4.3514478	INSIDE	210.6017			
1.7813495	3.4374757	INSIDE	119.5249			
2.046232	4.1302583	INSIDE	180.7152			
2.1805658	4.5333131	INSIDE				
2.3190672	4.9900947	INSIDE	1969.067			
1.8052461	3.4948877	INSIDE				
2.0068524	4.0190441	INSIDE	618.7236			
1.9361315	3.8267814	INSIDE	285.1714			
1.7033043	3.2564595	INSIDE				
1.6734501	3.1897649	INSIDE	642.3544			
1.7223502	3.2997351	INSIDE				
1.6105444	3.0536705	INSIDE	1238.294	1.5963339	3.0237396	3796
2.0196083	4.0547369	INSIDE				
2.0222821	4.0622586	INSIDE				
1.8373528	3.5735372	INSIDE	129.2906			
1.8598301	3.6296491	INSIDE	516.1451			
1.9848771	3.9582894	INSIDE		2.3625813	5.1428971	3681
1.8790153	3.6782392	INSIDE	1567.694			
2.595263	6.0429919	INSIDE	978.4115			
2.1750705	4.5160783	INSIDE				
1.8054512	3.4953846	INSIDE	320.435	1.4132806	2.6634212	2609
1.6823356	3.2094712	INSIDE	134.1224			
1.6456392	3.1288645	INSIDE	603.9487			
2.1487293	4.4343705	INSIDE	444.1326	1.8137044	3.5154379	4051
1.6554573	3.1502303	INSIDE				
1.8646715	3.64185	INSIDE	123.4206	2.150781	4.4406812	3167
1.7963094	3.4733057	INSIDE	203.7868			
2.3920546	5.2490437	INSIDE				
1.748526	3.3601508	INSIDE				
1.7643096	3.3971139	INSIDE				
1.666438	3.1742989	INSIDE		1.4116242	2.660365	4778
1.8364266	3.5712437	INSIDE	769.1606	2.1244152	4.3602631	1865
1.805244	3.4948826	INSIDE				
1.686358	3.218432	INSIDE				
2.254783	4.7726251	INSIDE	616.4229			
2.085773	4.2450249	INSIDE		1.496659	2.8218846	5160
1.7889811	3.4557075	INSIDE				
1.6082647	3.048849	INSIDE	405.7786			
1.9465507	3.8545186	INSIDE	1716.985			
1.9473292	3.8565991	INSIDE	207.8062			
1.5930073	3.0167754	INSIDE	188.142			
1.7871115	3.4512321	INSIDE				
1.9710789	3.9206121	INSIDE	218.6794			

2.0464318	4.1308303	INSIDE	702.2264				
1.6605886	3.1614548	INSIDE	485.2738				
2.1476328	4.4310015	INSIDE	483.0363				
2.048102	4.1356153	INSIDE	323.3313				
1.7252791	3.3064409	INSIDE	1504.191	1.457012	2.7453917		2802
1.9622431	3.8966736	INSIDE	227.8988				
2.4378853	5.4184691	INSIDE					
2.140569	4.4093592	INSIDE					
1.8512626	3.6081582	INSIDE	277.1771				
1.5927278	3.016191	INSIDE					
1.8356199	3.5692474	INSIDE	1394.841	1.2679485	2.4081888		3652
1.8416759	3.5842615	INSIDE					
2.0176215	4.0491568	INSIDE					
1.76804	3.4059093	INSIDE	221.6991				
2.4556558	5.4856242	INSIDE	1582.902				
1.7212644	3.2972526	INSIDE	670.5336				
2.0857053	4.2448257	INSIDE	340.7525				
1.900233	3.7327348	INSIDE	986.3594				
1.7092816	3.2699795	INSIDE					
2.1694782	4.4986066	INSIDE	836.2505				
2.092741	4.2655773	INSIDE					
2.1012459	4.2907977	INSIDE	599.5624				
2.0364273	4.1022838	INSIDE	158.5802				
1.8209642	3.5331725	INSIDE	331.7354				
2.1947389	4.578068	INSIDE	208.9432				
1.5883965	3.0071493	INSIDE	1876.03	1.701239	3.2518011		750
2.200856	4.5975205	INSIDE					
1.8317934	3.5597931	INSIDE	676.8699				
2.2783322	4.8511682	INSIDE	117.7761				
1.6502775	3.1389401	INSIDE					
2.3949227	5.2594892	INSIDE	2725.28	2.0066547	4.0184934		1430
1.7062356	3.2630828	INSIDE					
1.7782995	3.4302162	INSIDE	117.5464				
2.0017908	4.0049682	INSIDE	286.3933				
1.6061516	3.0443867	INSIDE	351.2539	1.4554579	2.7424359		5474
1.5995979	3.0305883	INSIDE					

Normalized Normalized Type transcript in Normalized Normalized Rank (P2-NS_R1R2)
2.0757613 4.2156681 DOWNSTREAM 1.7117833 3.2756547 6085

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Normalized Normalized Type transcript in Normalized Normalized Rank (P2-12H_R1R2)
2.0738177 4.2099926 DOWNSTREAM 2.2753289 4.8410799 1191
2.2258708 4.6779317 DOWNSTREAM 1.5853715 3.0008506 1168
1.7924774 3.4640924 DOWNSTR 508.4818 1.9654481 3.9053399 132
2.565253 5.9185879 DOWNSTR 508.8375
1.8622442 3.6357278 DOWNSTR 514.3434 1.5792174 2.9880772 4693
1.644358 3.1260872 DOWNSTR 147.0285 1.3796334 2.6020224 1449
2.1525466 4.4461191 DOWNSTREAM 2.0229495 4.0641383 4464
2.2260847 4.6786253 DOWNSTR 125.8169 1.7683418 3.4066218 2482
1.8310543 3.5579699 DOWNSTREAM 1.4348227 2.7034894 1844
2.1091282 4.3143051 DOWNSTREAM 1.4637299 2.7582054 3754
2.1501913 4.4388664 DOWNSTREAM 2.133825 4.3887954 1827
1.6842356 3.2137008 DOWNSTREAM
2.135418 4.3936441 DOWNSTR 1703.493
2.224545 4.6736348 DOWNSTR 784.2172 1.7608818 3.3890521 2207

2.581408	5.9852354	DOWNSTR	420.8032	1.5387809	2.9054888	2303
2.0382407	4.1074434	DOWNSTR	193.0846	1.42854	2.6917417	4848
2.0521948	4.1473644	DOWNSTREAM				
1.7463859	3.3551701	DOWNSTR	267.0241			
2.134475	4.3907732	DOWNSTR	202.4375			
2.0379357	4.1065752	DOWNSTR	126.1446	1.7327573	3.3236243	2067
1.7842245	3.4443327	DOWNSTR	397.6841	1.8971022	3.7246431	3114
1.7222989	3.2996177	DOWNSTREAM		1.6372786	3.1107848	1040
2.119856	4.3465056	DOWNSTREAM		1.6152037	3.0635485	5492
1.9976065	3.9933693	DOWNSTR	392.0417			
1.8197602	3.5302252	DOWNSTREAM		2.331033	5.031655	506
1.823287	3.5388657	DOWNSTREAM		1.3276303	2.5099007	5507
1.7779994	3.4295027	DOWNSTR	167.4778	1.4697078	2.7696579	2594

Normalized	Normalized	Type	transcript in	Normalized	Normalized	Rank (P2-12H_R1R2)
1.7478619	3.3586045	DOWNSTR	262.8616			
1.6702821	3.1827682	DOWNSTREAM		1.3551747	2.5582809	2910
1.8330472	3.5628882	DOWNSTR	105.2789			
2.1466932	4.4281166	DOWNSTR	189.5659			
2.0536253	4.1514787	DOWNSTR	225.9483	1.9397107	3.8362871	3761
1.9827145	3.9523604	DOWNSTR	180.674	1.1738749	2.2561686	5564