

Supplementary Table 3. List of genes with an HTE-selective CORE overlapping their promoter (within 2kb upstream of the transcription start site).

CORE Chrom	CORE Start	CORE Stop	Gene Name	Gene RefSeq	Gene Chrom	Gene Strand	Promoter Start	Promoter Stop	Overlap(bp)	Expression Value
chr12	52907538	52974591	KRT5	NM_000424	chr12	-	52914244	52916244	2001	15.76723
chr12	52820870	52887480	KRT6A	NM_005554	chr12	-	52887182	52889182	299	15.748045
chr19	17959789	17983888	RPL18A	NM_000980	chr19	+	17968729	17970729	2001	15.74742
chr17	39743108	39820235	KRT17	NM_000422	chr17	-	39780883	39782883	2001	15.61449
chr12	6297232	6338827	CD9	NM_001769	chr12	+	6307553	6309553	2001	15.59768
chr8	146015609	146031861	RPL8	NM_033301	chr8	-	146017730	146019730	2001	15.4463
chrX	118589289	118635962	SLC25A5	NM_001152	chrX	+	118600361	118602361	2001	15.43477
chr9	136179690	136232109	RPL7A	NM_000972	chr9	+	136213067	136215067	2001	15.426485
chr17	39743108	39820235	KRT16	NM_005557	chr17	-	39769080	39771080	2001	15.386095
chr12	52820870	52887480	KRT6C	NM_173086	chr12	-	52867570	52869570	2001	15.37582
chr17	39743108	39820235	KRT14	NM_000526	chr17	-	39743148	39745148	2001	15.33091
chr18	21263752	21290396	LAMA3	NM_198129	chr18	+	21267560	21269560	2001	15.293675
chr8	82184423	82197862	FABP5	NM_001444	chr8	+	82190783	82192783	2001	15.275335
chr16	2560914	2578176	ATP6V0C	NM_001694	chr16	+	2561951	2563951	2001	15.23641
chr16	56709889	56718813	MT1X	NM_005952	chr16	+	56714380	56716380	2001	15.192305
chr17	74561487	74583300	ST6GALNAC2	NM_006456	chr17	-	74582146	74584146	1155	15.04813
chr22	36769390	36792473	MYH9	NM_002473	chr22	-	36784064	36786064	2001	15.03295
chr19	54937804	54971008	LENG8	NM_052925	chr19	+	54958063	54960063	2001	15.00143
chr4	187620452	187648566	FAT1	NM_005245	chr4	-	187644988	187646988	2001	14.990905
chr7	128468762	128561570	ATP6V1F	NM_004231	chr7	+	128500896	128502896	2001	14.97625
chr5	135363078	135370653	TGFBI	NM_000358	chr5	+	135362582	135364582	1505	14.97352

chr2	219132248	219163140	TMBIM1	NM_022152	chr2	-	219157281	219159281	2001	14.96145
chr1	95008733	95019204	F3	NM_001993	chr1	-	95007414	95009414	682	14.94626
chr1	86882170	86896383	CLCA2	NM_006536	chr1	+	86887767	86889767	2001	14.896205
chr15	101417568	101446363	ALDH1A3	NM_000693	chr15	+	101418007	101420007	2001	14.87284
chr3	52003452	52021750	ABHD14B	NM_032750	chr3	-	52008647	52010647	2001	14.769545
chr1	86020483	86048926	CYR61	NM_001554	chr1	+	86044442	86046442	2001	14.73906
chr5	175385631	175413026	THOC3	NM_032361	chr5	-	175395546	175397546	2001	14.73083
chr1	152890432	152976512	SPRR1A	NM_005987	chr1	+	152954555	152956555	2001	14.586635
chr6	7532572	7560215	DSP	NM_004415	chr6	+	7539868	7541868	2001	14.495115
chr11	2396519	2482161	CD81	NM_004356	chr11	+	2396545	2398545	2001	14.46802
chr4	75463923	75485725	AREG	NM_001657	chr4	+	75478627	75480627	2001	14.42852
chr4	83806760	83820089	SEC31A	NM_016211	chr4	-	83812413	83814413	2001	14.42491
chr17	39680188	39697532	KRT19	NM_002276	chr17	-	39684642	39686642	2001	14.39085
chr22	19163979	19187060	SLC25A1	NM_005984	chr22	-	19166302	19168302	2001	14.37009
chrX	153655472	153675381	GDI1	NM_001493	chrX	+	153663257	153665257	2001	14.369065
chr11	64070818	64089422	TRMT112	NM_016404	chr11	-	64085034	64087034	2001	14.366525
chr18	61306314	61329312	SERPINB3	NM_006919	chr18	-	61329198	61331198	115	14.35049
chr11	61093540	61117118	DDB1	NM_001923	chr11	-	61100667	61102667	2001	14.338065
chr1	31862911	31908214	SERINC2	NM_178865	chr1	+	31883961	31885961	2001	14.33186
chr19	42238436	42306526	CEACAM6	NM_002483	chr19	+	42257396	42259396	2001	14.291405
chr22	20076835	20131975	RANBP1	NM_002882	chr22	+	20103022	20105022	2001	14.27383
chr12	52820870	52887480	KRT6B	NM_005555	chr12	-	52845911	52847911	2001	14.240575
chr16	2306105	2327686	RNPS1	NM_080594	chr16	-	2318115	2320115	2001	14.196765
chrX	153655472	153675381	ATP6AP1	NM_001183	chrX	+	153654976	153656976	1505	14.19439

chr2	95939604	95974537	PROM2	NM_144707	chr2	+	95938199	95940199	596	14.170585
chr11	102324592	102327412	TMEM123	NM_052932	chr11	-	102323776	102325776	1185	14.16833
chr1	153315567	153359389	S100A9	NM_002965	chr1	+	153328328	153330328	2001	14.167335
chr1	201956097	201984314	ELF3	NM_004433	chr1	+	201977688	201979688	2001	14.164525
chr1	159883546	159929591	TAGLN2	NM_003564	chr1	-	159895285	159897285	2001	14.15357
chr1	36891604	36942685	MRPS15	NM_031280	chr1	-	36930041	36932041	2001	14.14857
chr7	99058290	99082974	ATP5J2	NM_004889	chr7	-	99063809	99065809	2001	14.10345
chr13	78090508	78128367	SCEL	NM_144777	chr13	+	78107807	78109807	2001	14.0761
chr1	11973491	12003749	PLOD1	NM_000302	chr1	+	11992744	11994744	2001	14.01929
chr1	153924325	153940770	SLC39A1	NM_014437	chr1	-	153940189	153942189	582	14.00591
chrX	152068908	152114784	ZNF185	NM_007150	chrX	+	152080984	152082984	2001	13.99977
chr2	234651310	234670477	UGT1A1	NM_000463	chr2	+	234666917	234668917	2001	13.983455
chr21	44843387	44872288	SIK1	NM_173354	chr21	-	44847003	44849003	2001	13.96396
chr17	76973826	77000147	LGALS3BP	NM_005567	chr17	-	76976062	76978062	2001	13.905685
chr19	5666968	5715071	RPL36	NM_033643	chr19	+	5688270	5690270	2001	13.9024975
chr19	2080611	2101935	MOBKL2A	NM_130807	chr19	-	2096270	2098270	2001	13.882415
chr6	33654522	33702457	C6orf125	NM_032340	chr6	-	33679505	33681505	2001	13.824095
chr19	6733015	6750491	TRIP10	NM_004240	chr19	+	6737705	6739705	2001	13.82371
chr10	5522208	5572766	CALML3	NM_005185	chr10	+	5564922	5566922	2001	13.81053
chr12	57966563	58022490	PIP4K2C	NM_024779	chr12	+	57982940	57984940	2001	13.782845
chrX	47069468	47081477	CDK16	NM_033018	chrX	+	47075526	47077526	2001	13.778395
chr12	2880551	2909700	FKBP4	NM_002014	chr12	+	2902106	2904106	2001	13.762515
chr3	190036497	190044028	CLDN1	NM_021101	chr3	-	190040236	190042236	2001	13.74576
chr17	7251199	7265679	KCTD11	NM_001002914	chr17	+	7253206	7255206	2001	13.73162

chr19	1257485	1279145	CIRBP	NM_001280	chr19	+	1267265	1269265	2001	13.71607
chr19	46008540	46025703	VASP	NM_003370	chr19	+	46008686	46010686	2001	13.7095275
chr4	83295961	83316539	HNRNPD	NM_031370	chr4	-	83295150	83297150	1190	13.6839575
chr17	3561568	3600311	TAX1BP3	NM_014604	chr17	-	3571974	3573974	2001	13.65731
chr15	66652140	66693965	MAP2K1	NM_002755	chr15	+	66677209	66679209	2001	13.64964
chr14	100836534	100864172	WARS	NM_213646	chr14	-	100841928	100843928	2001	13.588505
chr19	6733015	6750491	GPR108	NM_020171	chr19	-	6737305	6739305	2001	13.54836
chr4	87507237	87517191	PTPN13	NM_080685	chr4	+	87513466	87515466	2001	13.542245
chr19	13098598	13128062	NFIX	NM_002501	chr19	+	13104582	13106582	2001	13.541425
chr1	3518344	3571185	TPRG1L	NM_182752	chr1	+	3539554	3541554	2001	13.53598
chr10	104384642	104416923	TRIM8	NM_030912	chr10	+	104402250	104404250	2001	13.5339
chr6	116686952	116697622	DSE	NM_013352	chr6	+	116690108	116692108	2001	13.527205
chr16	66866681	66881347	NAE1	NM_003905	chr16	-	66864880	66866880	200	13.466805
chr9	132928800	132974058	NCS1	NM_014286	chr9	+	132932855	132934855	2001	13.4584
chr1	32028468	32057799	TINAGL1	NM_022164	chr1	+	32040084	32042084	2001	13.45525
chr9	112257365	112300855	PTPN3	NM_002829	chr9	-	112260594	112262594	2001	13.45286
chr9	131636749	131653228	LRRC8A	NM_019594	chr9	+	131642389	131644389	2001	13.44815
chr16	28850366	28885949	TUFM	NM_003321	chr16	-	28857730	28859730	2001	13.41595
chr19	51476183	51644831	KLK10	NM_145888	chr19	-	51522955	51524955	2001	13.412875
chr18	9616035	9648737	PPP4R1	NM_005134	chr18	-	9614601	9616601	567	13.39344
chr5	180196937	180239180	MGAT1	NM_002406	chr5	-	180230049	180232049	2001	13.373685
chr14	60628033	60646543	DHRS7	NM_016029	chr14	-	60632212	60634212	2001	13.327185
chr15	90733914	90747445	SEMA4B	NM_198925	chr15	+	90742560	90744560	2001	13.325465
chrX	13706702	13739822	RAB9A	NM_004251	chrX	+	13705238	13707238	537	13.31957

chr6	159067484	159107731	DYNLT1	NM_006519	chr6	-	159065805	159067805	322	13.3114
chr6	128812533	128854266	PTPRK	NM_002844	chr6	-	128841820	128843820	2001	13.303555
chr2	110351878	110373216	SEPT10	NM_178584	chr2	-	110371784	110373784	1433	13.29222
chr10	72544248	72590304	SGPL1	NM_003901	chr10	+	72573702	72575702	2001	13.26699
chrX	68043694	68067101	EFNB1	NM_004429	chrX	+	68046838	68048838	2001	13.258645
chr1	24611808	24650075	GRHL3	NM_198174	chr1	+	24643810	24645810	2001	13.220595
chr7	128071310	128097763	C7orf68	NM_013332	chr7	+	128093882	128095882	2001	13.214875
chr10	105540305	105616840	SH3PXD2A	NM_014631	chr10	-	105615165	105617165	1676	13.199605
chr19	48253581	48293428	SEPW1	NM_003009	chr19	+	48279840	48281840	2001	13.19732
chr10	105676827	105702013	OBFC1	NM_024928	chr10	-	105678046	105680046	2001	13.166235
chr16	2815749	2832105	TCEB2	NM_207013	chr16	-	2827298	2829298	2001	13.161085
chr19	35589015	35619312	FXVD3	NM_021910	chr19	+	35604730	35606730	2001	13.14941
chr17	2609763	2633727	KIAA0664	NM_015229	chr17	-	2614928	2616928	2001	13.13668
chr4	69282400	69317954	TMPRSS11E	NM_014058	chr4	+	69311165	69313165	2001	13.11672
chr18	28619599	28658066	DSC3	NM_024423	chr18	-	28622782	28624782	2001	13.09876
chr2	98609389	98614557	TMEM131	NM_015348	chr2	-	98612355	98614355	2001	13.09246
chr2	242066347	242090779	PPP1R7	NM_002712	chr2	+	242087900	242089900	2001	13.076735
chr13	113943227	113977204	LAMP1	NM_005561	chr13	+	113949467	113951467	2001	13.05788
chr16	55586568	55602411	CAPNS2	NM_032330	chr16	+	55598582	55600582	2001	13.03131
chr7	44156290	44202820	POLD2	NM_006230	chr7	-	44163148	44165148	2001	13.00529
chr16	88906597	88943319	TRAPPC2L	NM_016209	chr16	+	88921504	88923504	2001	12.989225
chr10	126683510	126718472	CTBP2	NM_022802	chr10	-	126716454	126718454	2001	12.97243
chr10	106081783	106095462	ITPRIP	NM_033397	chr10	-	106093664	106095664	1799	12.97063
chr19	16680793	16707602	SLC35E1	NM_024881	chr19	-	16683194	16685194	2001	12.942545

chr18	61306314	61329312	SERPINB4	NM_002974	chr18	-	61311503	61313503	2001	12.94
chr22	43251824	43281343	ARFGAP3	NM_014570	chr22	-	43253409	43255409	2001	12.920085
chr6	44085111	44117431	MRPL14	NM_032111	chr6	-	44095192	44097192	2001	12.90656
chr1	15727026	15752965	EFHD2	NM_024329	chr1	+	15734389	15736389	2001	12.90273
chr16	87554	148084	POLR3K	NM_016310	chr16	-	103633	105633	2001	12.902435
chr8	28241864	28247613	ZNF395	NM_018660	chr8	-	28243978	28245978	2001	12.893655
chr13	73629003	73640378	KLF5	NM_001730	chr13	+	73631140	73633140	2001	12.886225
chr21	46278233	46320017	PTTG1IP	NM_004339	chr21	-	46293742	46295742	2001	12.860775
chr17	55050943	55072135	SCPEP1	NM_021626	chr17	+	55053466	55055466	2001	12.850575
chrX	152940672	152970048	SLC6A8	NM_005629	chrX	+	152951750	152953750	2001	12.837425
chr19	42653203	42753990	GSK3A	NM_019884	chr19	-	42746737	42748737	2001	12.836555
chr1	201235025	201255142	PKP1	NM_001005337	chr1	+	201250578	201252578	2001	12.829515
chr17	79863562	79914497	MAFG	NM_032711	chr17	-	79881409	79883409	2001	12.804205
chr17	687476	704296	GLOD4	NM_016080	chr17	-	685572	687572	97	12.79346
chr4	68727330	68758275	TMPRSS11D	NM_004262	chr4	-	68749717	68751717	2001	12.787165
chr15	63631663	63678544	CA12	NM_206925	chr15	-	63674076	63676076	2001	12.73543
chr19	45309737	45344683	BCAM	NM_005581	chr19	+	45310336	45312336	2001	12.7242675
chr7	821691	863550	SUN1	NM_025154	chr7	+	854250	856250	2001	12.722665
chr4	983594	1011181	FGFRL1	NM_021923	chr4	+	1004250	1006250	2001	12.71794
chr19	42238436	42306526	CEACAM3	NM_001815	chr19	+	42298532	42300532	2001	12.69175
chr7	143062012	143086349	ZYX	NM_003461	chr7	+	143076358	143078358	2001	12.689375
chr17	7114192	7122683	ACADVL	NM_001033859	chr17	+	7121151	7123151	1533	12.68132
chr5	176065672	176168691	TSPAN17	NM_130465	chr5	+	176072386	176074386	2001	12.678145
chr15	74898779	74912894	CLK3	NM_003992	chr15	+	74898711	74900711	1933	12.6753775

chr19	51476183	51644831	KLK11	NM_144947	chr19	-	51530886	51532886	2001	12.673705
chr15	63330144	63339562	TPM1	NM_001018020	chr15	+	63332836	63334836	2001	12.651758
chr5	134904724	134927317	CXCL14	NM_004887	chr5	-	134914970	134916970	2001	12.63403
chr17	21096277	21119455	TMEM11	NM_003876	chr17	-	21117909	21119909	1547	12.631775
chr16	67138808	67147076	C16orf70	NM_025187	chr16	+	67141913	67143913	2001	12.62491
chr16	88712324	88722388	CYBA	NM_000101	chr16	-	88717458	88719458	2001	12.60858
chr11	295817	317285	IFITM1	NM_003641	chr11	+	311989	313989	2001	12.56907
chr19	43956681	43975815	LYPD3	NM_014400	chr19	-	43969832	43971832	2001	12.56502
chr20	35916509	35938513	MANBAL	NM_022077	chr20	+	35916049	35918049	1541	12.5382
chr13	51475987	51485403	RNASEH2B	NM_024570	chr13	+	51481890	51483890	2001	12.524265
chr5	170176994	170210860	GABRP	NM_014211	chr5	+	170208721	170210721	2001	12.50212
chrX	3603610	3636453	PRKX	NM_005044	chrX	-	3631676	3633676	2001	12.49695
chr1	85690829	85730036	C1orf52	NM_198077	chr1	-	85725356	85727356	2001	12.49468
chr1	35206112	35253181	GJB3	NM_024009	chr1	+	35244788	35246788	2001	12.491675
chr1	117207000	117223821	IGSF3	NM_001542	chr1	-	117210315	117212315	2001	12.48773
chr22	19943043	19967154	COMT	NM_007310	chr22	+	19948068	19950068	2001	12.483715
chrX	118522254	118546194	SLC25A43	NM_145305	chrX	+	118531256	118533256	2001	12.457385
chr6	37756108	37791052	ZFAND3	NM_021943	chr6	+	37785305	37787305	2001	12.45501
chr12	77270367	77284882	CSRP2	NM_001321	chr12	-	77272800	77274800	2001	12.39201
chr1	228332351	228347110	GUK1	NM_001159391	chr1	+	228330402	228332402	52	12.3793
chrX	153655472	153675381	FAM50A	NM_004699	chrX	+	153670483	153672483	2001	12.37644
chr1	95284915	95294043	SLC44A3	NM_152369	chr1	+	95284098	95286098	1184	12.356235
chr1	200693338	200710964	CAMSAP1L1	NM_203459	chr1	+	200706684	200708684	2001	12.348765
chr20	23616142	23634971	CST3	NM_000099	chr20	-	23618575	23620575	2001	12.34836

chr16	85013241	85060149	ZDHHC7	NM_017740	chr16	-	85045142	85047142	2001	12.33332
chr1	153924325	153940770	CRTC2	NM_181715	chr1	-	153931044	153933044	2001	12.330925
chr17	1448830	1484774	PITPNA	NM_006224	chr17	-	1466111	1468111	2001	12.32418
chr3	46720057	46744132	ALS2CL	NM_182775	chr3	-	46718900	46720900	844	12.318315
chr6	150461399	150497515	PPP1R14C	NM_030949	chr6	+	150462186	150464186	2001	12.310275
chr3	50643241	50668187	MAPKAPK3	NM_004635	chr3	+	50652599	50654599	2001	12.309995
chrX	53240537	53297788	KDM5C	NM_004187	chrX	-	53254605	53256605	2001	12.30971
chr11	117054775	117073728	TAGLN	NM_003186	chr11	+	117068038	117070038	2001	12.289255
chr12	33045434	33055865	PKP2	NM_004572	chr12	-	33049781	33051781	2001	12.287155
chr19	915029	931967	C19orf22	NM_138774	chr19	-	913226	915226	198	12.28187
chr11	773095	802283	SLC25A22	NM_024698	chr11	-	796264	798264	2001	12.27839
chr15	80955027	81002328	FAM108C1	NM_021214	chr15	+	80985650	80987650	2001	12.27108
chr9	139956910	139979454	MAN1B1	NM_016219	chr9	+	139979415	139981415	40	12.264805
chr10	126410223	126435925	FAM53B	NM_014661	chr10	-	126432931	126434931	2001	12.260405
chr19	39660805	39687187	NCCRP1	NM_001001414	chr19	+	39685602	39687602	1586	12.2582
chr20	616542	641955	SRXN1	NM_080725	chr20	-	633891	635891	2001	12.231555
chr2	236396558	236408363	AGAP1	NM_014914	chr2	+	236400734	236402734	2001	12.218865
chr18	9671222	9712475	RAB31	NM_006868	chr18	+	9706226	9708226	2001	12.19566
chr10	51542592	51555829	MSMB	NM_138634	chr10	+	51547551	51549551	2001	12.1906675
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chr19	1584414	1606980	UQCR11	NM_006830	chr19	-	1605484	1607484	1497	11.411285
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chr9	135985603	136020787	RALGDS	NM_006266	chr9	-	135996562	135998562	2001	10.89973
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chr9	139808714	139847309	FBXW5	NM_018998	chr9	-	139839174	139841174	2001	10.74843333
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chr6	99786160	99798811	C6orf168	NM_032511	chr6	-	99797532	99799532	1280	10.59168
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chrX	153126690	153155836	L1CAM	NM_024003	chrX	-	153141400	153143400	2001	10.1561125
chr14	96669441	96675161	BDKRB2	NM_000623	chr14	+	96669133	96671133	1693	10.14933
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chr22	38438792	38481490	PICK1	NM_012407	chr22	+	38451260	38453260	2001	10.11603
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chr1	201281895	201351057	TNNT2	NM_001001432	chr1	-	201346806	201348806	2001	9.92326
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chr1	36024866	36054992	KIAA0319L	NM_024874	chr1	-	36023038	36025038	173	9.9106475
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chr4	1292425	1389629	CRIPAK	NM_175918	chr4	+	1383338	1385338	2001	9.888545
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chr8	21925361	21969948	NUDT18	NM_024815	chr8	-	21966933	21968933	2001	9.867415
chr12	93305894	93332883	EEA1	NM_003566	chr12	-	93323108	93325108	2001	9.86469
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chr15	65359762	65371768	RASL12	NM_016563	chr15	-	65360389	65362389	2001	9.77325
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chr1	27704330	27734860	CD164L2	NM_207397	chr1	-	27709806	27711806	2001	9.69566
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chr21	46016366	46036924	KRTAP10-7	NM_198689	chr21	+	46018495	46020495	2001	9.672245
chr19	50365436	50396433	PNKP	NM_007254	chr19	-	50370823	50372823	2001	9.66861
chr1	227053784	227083663	PSEN2	NM_012486	chr1	+	227056271	227058271	2001	9.65452
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chr7	73404464	73445363	ELN	NM_001081755	chr7	+	73440425	73442425	2001	9.63132
chr6	109770501	109783369	MICAL1	NM_022765	chr6	-	109777191	109779191	2001	9.620455
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chr17	78181923	78204421	SLC26A11	NM_173626	chr17	+	78192198	78194198	2001	9.6171
chr18	77437661	77455485	CTDP1	NM_048368	chr18	+	77437799	77439799	2001	9.610415
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chr7	121938749	121955338	FEZF1	NM_001160264	chr7	-	121944566	121946566	2001	8.711925
chr19	51476183	51644831	KLK9	NM_012315	chr19	-	51512891	51514891	2001	8.706975
chr17	7727059	7785278	LSMD1	NM_032356	chr17	-	7761173	7763173	2001	8.70626
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chr22	38438792	38481490	SLC16A8	NM_013356	chr22	-	38479171	38481171	2001	8.70483
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chr9	71932083	71946767	FAM189A2	NM_004816	chr9	+	71942239	71944239	2001	8.650395
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chr21	45643202	45678742	ICOSLG	NM_015259	chr21	-	45660835	45662835	2001	8.6299

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chr22	23481158	23501967	RAB36	NM_004914	chr22	+	23485511	23487511	2001	8.572045
chr11	61490076	61526210	C11orf9	NM_013279	chr11	+	61520859	61522859	2001	8.56913
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chr8	139921939	139951696	COL22A1	NM_152888	chr8	-	139926237	139928237	2001	8.5186
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chr22	19692613	19729886	SEPT5	NM_002688	chr22	+	19699985	19701985	2001	8.475805
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chr21	47555426	47577670	FTCD	NM_206965	chr21	-	47575482	47577482	2001	8.450505
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chr2	241559552	241567995	GPR35	NM_005301	chr2	+	241562660	241564660	2001	8.445655
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chr15	65359762	65371768	KBTBD13	NM_001101362	chr15	+	65367152	65369152	2001	8.437845
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chr11	8097528	8117230	TUB	NM_177972	chr11	+	8100907	8102907	2001	8.419725
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chr10	1100684	1117258	WDR37	NM_014023	chr10	+	1100774	1102774	2001	8.401475
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chr11	109952300	109966633	ZC3H12C	NM_033390	chr11	+	109962085	109964085	2001	8.377045
chr20	32238904	32272116	NECAB3	NM_031232	chr20	-	32262265	32264265	2001	8.3764475
chr1	151690417	151712803	CELF3	NM_007185	chr1	-	151689291	151691291	875	8.374095
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chr21	43788321	43797183	TFF1	NM_003225	chr21	-	43786645	43788645	325	8.36256
chr3	183952701	183973845	ECE2	NM_032331	chr3	+	183965443	183967443	2001	8.361835
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chr22	44664575	44733134	KIAA1644	NM_001099294	chr22	-	44708732	44710732	2001	8.35696
chr22	23481158	23501967	RTDR1	NM_014433	chr22	-	23484242	23486242	2001	8.35411
chr3	193262291	193303675	ATP13A4	NM_032279	chr3	-	193272697	193274697	2001	8.3504
chr4	7190100	7326426	SORCS2	NM_020777	chr4	+	7192372	7194372	2001	8.3295
chr12	52820870	52887480	KRT75	NM_004693	chr12	-	52828111	52830111	2001	8.32483
chr19	51476183	51644831	SIGLEC9	NM_014441	chr19	+	51626135	51628135	2001	8.313835
chr19	45653031	45706144	BLOC1S3	NM_212550	chr19	+	45680001	45682001	2001	8.30797
chr8	133686621	133716108	LRRC6	NM_012472	chr8	-	133687814	133689814	2001	8.30471
chr12	130385791	130390171	TMEM132D	NM_133448	chr12	-	130388213	130390213	1959	8.29868
chr22	37421494	37554170	KCTD17	NM_024681	chr22	+	37445777	37447777	2001	8.288775
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chr19	40729614	40767628	CNTD2	NM_024877	chr19	-	40732598	40734598	2001	8.28171
chr9	139956910	139979454	C9orf140	NM_178448	chr9	-	139965029	139967029	2001	8.281635
chr11	65386776	65417325	SIPA1	NM_153253	chr11	+	65405590	65407590	2001	8.28138

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chr19	3779442	3794868	MATK	NM_139355	chr19	-	3786416	3788416	2001	8.272545
chr2	198164888	198176740	ANKRD44	NM_153697	chr2	-	198175522	198177522	1219	8.263315
chr7	3312343	3349023	SDK1	NM_152744	chr7	+	3339078	3341078	2001	8.26259
chr2	119598885	119617110	EN1	NM_001426	chr2	-	119605760	119607760	2001	8.258805
chr4	7029327	7049691	CCDC96	NM_153376	chr4	-	7044729	7046729	2001	8.256625
chr3	190213667	190261768	IL1RAP	NM_134470	chr3	+	190229838	190231838	2001	8.244805
chr3	24513813	24539132	THRB	NM_001128177	chr3	-	24536314	24538314	2001	8.23743
chr21	46345336	46398926	ITGB2	NM_001127491	chr21	-	46348754	46350754	2001	8.232095
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chr1	210472911	210538088	HHAT	NM_018194	chr1	+	210500248	210502248	2001	8.2178
chr12	115109611	115139187	TBX3	NM_016569	chr12	-	115121970	115123970	2001	8.21399
chr11	118842272	118859448	FOXR1	NM_181721	chr11	+	118840415	118842415	144	8.192925
chr22	38829711	38866797	KCNJ4	NM_152868	chr22	-	38851204	38853204	2001	8.18948
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chr2	172965785	172993475	DLX2	NM_004405	chr2	-	172967479	172969479	2001	8.16643
chr1	97168877	97186390	PTBP2	NM_021190	chr1	+	97185173	97187173	1218	8.15184
chr19	7675216	7711628	PCP2	NM_174895	chr19	-	7698571	7700571	2001	8.15058
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chr5	168725303	168728897	SLIT3	NM_003062	chr5	-	168728134	168730134	764	8.148505
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chrX	55490124	55544519	USP51	NM_201286	chrX	-	55515632	55517632	2001	8.1052
chr7	44156290	44202820	MYL7	NM_021223	chr7	-	44180917	44182917	2001	8.10018
chr7	150068516	150079578	ZNF775	NM_173680	chr7	+	150074404	150076404	2001	8.09935
chr17	79168798	79232173	C17orf89	NM_001086521	chr17	+	79211109	79213109	2001	8.09919
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chr22	37421494	37554170	TMPRSS6	NM_153609	chr22	-	37499694	37501694	2001	8.064615
chr19	2080611	2101935	IZUMO4	NM_001039846	chr19	+	2094866	2096866	2001	8.061198333
chr11	773095	802283	PDDC1	NM_182612	chr11	-	777488	779488	2001	8.056505
chr2	241064061	241105020	OTOS	NM_148961	chr2	-	241080074	241082074	2001	8.053
chr13	113736009	113820307	F10	NM_000504	chr13	+	113775111	113777111	2001	8.04868
chr16	8688126	8714681	C16orf68	NM_024109	chr16	+	8713525	8715525	1157	8.04464
chr11	71266661	71282055	KRTAP5-10	NM_001012710	chr11	+	71274607	71276607	2001	8.032145
chr22	30768424	30839322	RNF215	NM_001017981	chr22	-	30783303	30785303	2001	8.028445
chr1	200628316	200653557	DDX59	NM_001031725	chr1	-	200639127	200641127	2001	8.0252425
chr2	19551953	19559806	OSR1	NM_145260	chr2	-	19558373	19560373	1434	8.01595
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chr22	50644124	50705002	TUBGCP6	NM_020461	chr22	-	50683401	50685401	2001	7.9674
chr7	44089227	44115184	PGAM2	NM_000290	chr7	-	44105187	44107187	2001	7.957205
chr11	117799563	117812364	TMPRSS13	NM_001077263	chr11	-	117800116	117802116	2001	7.95108
chr17	34066013	34095416	GAS2L2	NM_139285	chr17	-	34079898	34081898	2001	7.94571
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chr3	128161932	128189778	DNAJB8	NM_153330	chr3	-	128186092	128188092	2001	7.931205
chr19	451428	466666	SHC2	NM_012435	chr19	-	460997	462997	2001	7.92482
chr11	2277729	2350869	ASCL2	NM_005170	chr11	-	2292183	2294183	2001	7.921445
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chr19	46384392	46423983	IRF2BP1	NM_015649	chr19	-	46389377	46391377	2001	7.91711
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chr16	67956715	67978912	CTRL	NM_001907	chr16	-	67965779	67967779	2001	7.89307
chr9	139746296	139757013	MAMDC4	NM_206920	chr9	+	139744817	139746817	522	7.882945
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chr14	100780278	100797994	SLC25A47	NM_207117	chr14	+	100787677	100789677	2001	7.87916
chr17	39504325	39521117	KRT33A	NM_004138	chr17	-	39507057	39509057	2001	7.876315
chr6	48029467	48046188	C6orf138	NM_207499	chr6	-	48036426	48038426	2001	7.875975
chr6	31686023	31698854	C6orf25	NM_138277	chr6	+	31689159	31691159	2001	7.871735
chr9	139808714	139847309	LCN12	NM_178536	chr9	+	139844766	139846766	2001	7.864875

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chr16	52579249	52586955	TOX3	NM_001146188	chr16	-	52581715	52583715	2001	7.84675
chr3	50559403	50608885	C3orf18	NM_016210	chr3	-	50605224	50607224	2001	7.84443
chr22	32420828	32441214	SLC5A1	NM_000343	chr22	+	32437017	32439017	2001	7.84092
chr12	54352252	54384109	HOXC10	NM_017409	chr12	+	54376944	54378944	2001	7.836765
chr8	142515492	142539350	FLJ43860	NM_207414	chr8	-	142517331	142519331	2001	7.83669
chr2	233263479	233322929	ALPPL2	NM_031313	chr2	+	233269550	233271550	2001	7.836135
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chr15	79089873	79107462	ADAMTS7	NM_014272	chr15	-	79103774	79105774	2001	7.83171
chr6	168417468	168535217	KIF25	NM_030615	chr6	+	168416551	168418551	1084	7.8255825
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chr17	17375960	17418738	RASD1	NM_016084	chr17	-	17399708	17401708	2001	7.816995
chr14	91274910	91299657	TTC7B	NM_001010854	chr14	-	91282762	91284762	2001	7.80535
chrX	152940672	152970048	PNCK	NM_001135740	chrX	-	152938744	152940744	73	7.797065
chr19	42473429	42521539	ATP1A3	NM_152296	chr19	-	42498383	42500383	2001	7.79552
chr8	146015609	146031861	ZNF517	NM_213605	chr8	+	146022259	146024259	2001	7.7914
chr22	30939215	30980664	GAL3ST1	NM_004861	chr22	-	30960877	30962877	2001	7.783685
chr17	5021528	5030702	ZNF232	NM_014519	chr17	-	5026398	5028398	2001	7.78283
chr20	32238904	32272116	C20orf134	NM_001024675	chr20	+	32252302	32254302	2001	7.77939

chr16	89144591	89225181	ACSF3	NM_174917	chr16	+	89158252	89160252	2001	7.777265
chr12	50299469	50331845	FAIM2	NM_012306	chr12	-	50297721	50299721	253	7.76415
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chr22	41638652	41676630	CHADL	NM_138481	chr22	-	41636936	41638936	285	7.42657
chr3	50559403	50608885	HEMK1	NM_016173	chr3	+	50604907	50606907	2001	7.422465
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chr1	45271266	45281304	TCTEX1D4	NM_001013632	chr1	-	45272958	45274958	2001	7.4034
chr19	42557378	42577462	GRIK5	NM_002088	chr19	-	42569958	42571958	2001	7.398605
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chr1	40100149	40160008	NT5C1A	NM_032526	chr1	-	40137711	40139711	2001	7.312725
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chr1	21026101	21062620	KIF17	NM_020816	chr1	-	21044318	21046318	2001	7.30465
chr7	127990720	128006807	PRRT4	NM_001174164	chr7	-	128001740	128003740	2001	7.304555
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chr17	21147782	21212145	C17orf103	NM_152914	chr17	-	21156579	21158579	2001	7.26497
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chr17	77433863	77536248	RBFOX3	NM_001082575	chr17	-	77478564	77480564	2001	7.19464
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chr18	13612800	13654373	C18orf1	NM_181483	chr18	+	13618865	13620865	2001	7.157455
chr16	1552999	1604870	TMEM204	NM_024600	chr16	+	1582229	1584229	2001	7.155285
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chr14	94229277	94264171	PRIMA1	NM_178013	chr14	-	94254767	94256767	2001	7.142495
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chr1	19140881	19195259	TAS1R2	NM_152232	chr1	-	19186156	19188156	2001	7.138445
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chr17	72442902	72479408	CD300A	NM_007261	chr17	+	72460520	72462520	2001	7.127875
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chr3	9742304	9744862	CPNE9	NM_153635	chr3	+	9743508	9745508	1355	7.07577
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chr19	51334063	51342686	KLK15	NM_138564	chr19	-	51334780	51336780	2001	6.775555
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chr16	57559357	57575670	GPR114	NM_153837	chr16	+	57574599	57576599	1072	6.733135
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chr11	76825467	76895837	MYO7A	NM_001127180	chr11	+	76837314	76839314	2001	6.717285
chr17	56352731	56399245	MPO	NM_000250	chr17	-	56358297	56360297	2001	6.71591
chr11	2182173	2237853	INS	NM_001185098	chr11	-	2182440	2184440	2001	6.712295
chr2	29287871	29299606	C2orf71	NM_001029883	chr2	-	29297128	29299128	2001	6.682395
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chr10	50316869	50328148	C10orf72	NM_144984	chr10	-	50323560	50325560	2001	6.659495
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chr18	72096500	72141520	FAM69C	NM_001044369	chr18	-	72124504	72126504	2001	6.63892
chr20	31577719	31603314	BPIL1	NM_025227	chr20	+	31593405	31595405	2001	6.63491
chr10	48418234	48461753	GDF10	NM_004962	chr10	-	48439167	48441167	2001	6.633175
chr1	16539138	16574847	C1orf89	NM_030907	chr1	-	16563660	16565660	2001	6.632455
chrX	147581283	147594034	AFF2	NM_002025	chrX	+	147580137	147582137	855	6.632295
chr22	19086492	19139196	TSSK2	NM_053006	chr22	+	19116319	19118319	2001	6.63054
chr9	34625578	34628324	ARID3C	NM_001017363	chr9	-	34628012	34630012	313	6.61615
chr12	108981887	109004693	TMEM119	NM_181724	chr12	-	108991895	108993895	2001	6.61524
chr9	126114646	126169830	CRB2	NM_173689	chr9	+	126116446	126118446	2001	6.6129
chr19	47973805	48015833	SLC8A2	NM_015063	chr19	-	47975308	47977308	2001	6.611605

chr11	69587078	69597198	FGF4	NM_002007	chr11	-	69590172	69592172	2001	6.6015
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chr4	15427131	15446824	C1QTNF7	NM_031911	chr4	+	15427627	15429627	2001	6.59393
chr12	52748164	52771054	KRT85	NM_002283	chr12	-	52761310	52763310	2001	6.59239
chr10	94818034	94836851	CYP26C1	NM_183374	chr10	+	94819019	94821019	2001	6.58785
chrX	102347492	102381623	NXF3	NM_022052	chrX	-	102348023	102350023	2001	6.585655
chr13	53405163	53423169	PCDH8	NM_032949	chr13	-	53422775	53424775	395	6.5835775
chr22	37421494	37554170	IL2RB	NM_000878	chr22	-	37545963	37547963	2001	6.578395
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chr16	50708773	50785700	SNX20	NM_182854	chr16	-	50715265	50717265	2001	6.5353925
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chr14	77577508	77613122	ZDHHC22	NM_174976	chr14	-	77608135	77610135	2001	6.53128
chr3	126223107	126240196	UROC1	NM_144639	chr3	-	126236617	126238617	2001	6.52921
chr6	4066789	4104646	C6orf201	NM_001085401	chr6	+	4077438	4079438	2001	6.52751
chr19	58853367	58881362	A1BG	NM_130786	chr19	-	58864866	58866866	2001	6.52554
chr17	33457083	33487283	UNC45B	NM_173167	chr17	+	33472834	33474834	2001	6.522525
chr14	94779011	94801454	SERPINA6	NM_001756	chr14	-	94789689	94791689	2001	6.519805
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chr19	5825479	5874110	FUT5	NM_002034	chr19	-	5870552	5872552	2001	6.490325
chr7	112727088	112740296	GPR85	NM_018970	chr7	-	112727834	112729834	2001	6.47838
chr11	67400752	67442544	ACY3	NM_080658	chr11	-	67418131	67420131	2001	6.47826
chr20	39973951	40028489	EMILIN3	NM_052846	chr20	-	39995499	39997499	2001	6.46822
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chr4	81949135	81954263	BMP3	NM_001201	chr4	+	81950117	81952117	2001	6.41224
chr22	32845049	32860681	BPIL2	NM_174932	chr22	-	32853374	32855374	2001	6.410055
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chr14	95009641	95032444	SERPINA4	NM_006215	chr14	+	95025781	95027781	2001	6.384715
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chr15	89334310	89349207	ACAN	NM_013227	chr15	+	89344672	89346672	2001	6.37563
chr13	113736009	113820307	F7	NM_019616	chr13	+	113758103	113760103	2001	6.3665
chr17	27331689	27348401	SEZ6	NM_178860	chr17	-	27333082	27335082	2001	6.352635
chr1	1905103	1936658	KIAA1751	NM_001080484	chr1	-	1935277	1937277	1382	6.3494
chr9	38420842	38443830	IGFBPL1	NM_001007563	chr9	-	38424445	38426445	2001	6.34138
chr17	15235762	15285312	TEKT3	NM_031898	chr17	-	15244959	15246959	2001	6.332575
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chr11	2396519	2482161	TRPM5	NM_014555	chr11	-	2444276	2446276	2001	6.293555
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chr19	58853367	58881362	ZNF497	NM_198458	chr19	-	58874121	58876121	2001	6.29161
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chrX	2745594	2749110	GYG2	NM_003918	chrX	+	2744861	2746861	1268	6.25505
chr16	88906597	88943319	PABPN1L	NM_001080487	chr16	-	88933015	88935015	2001	6.248575
chr22	37673645	37715981	CYTH4	NM_013385	chr22	+	37676493	37678493	2001	6.22593
chr5	139166140	139206641	PSD2	NM_032289	chr5	+	139173404	139175404	2001	6.2026
chr11	61275122	61289156	LRRC10B	NM_001145077	chr11	+	61274270	61276270	1149	6.20179
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chr19	45796957	45827881	CKM	NM_001824	chr19	-	45826234	45828234	1648	6.17494
chr2	3658830	3712839	ALLC	NM_018436	chr2	+	3703784	3705784	2001	6.17401
chrX	117628795	117643929	DOCK11	NM_144658	chrX	+	117627870	117629870	1076	6.15372
chr7	31036529	31094918	ADCYAP1R1	NM_001118	chr7	+	31090140	31092140	2001	6.15026
chr2	26852103	26876530	CIB4	NM_001029881	chr2	-	26864212	26866212	2001	6.145865
chr19	51476183	51644831	SIGLEC7	NM_016543	chr19	+	51643556	51645556	1276	6.1213125
chr3	52326885	52441027	DNAH1	NM_015512	chr3	+	52348333	52350333	2001	6.119695
chr12	54352252	54384109	HOXC11	NM_014212	chr12	+	54364908	54366908	2001	6.1176
chr14	74694476	74742510	VSX2	NM_182894	chr14	+	74704173	74706173	2001	6.117115

chr10	48418234	48461753	GDF2	NM_016204	chr10	-	48416854	48418854	621	6.111465
chr15	59716937	59748783	FAM81A	NM_152450	chr15	+	59728370	59730370	2001	6.111015
chr12	109725023	109748739	FOXN4	NM_213596	chr12	-	109747026	109749026	1714	6.109735
chr10	88411676	88433186	OPN4	NM_033282	chr10	+	88412312	88414312	2001	6.10882
chr15	88793207	88847021	NTRK3	NM_002530	chr15	-	88799662	88801662	2001	6.100378333
chr13	108846248	108872802	ABHD13	NM_032859	chr13	+	108868761	108870761	2001	6.09743
chr19	46384392	46423983	NANOS2	NM_001029861	chr19	-	46418037	46420037	2001	6.09378
chr20	3665176	3693230	SIGLEC1	NM_023068	chr20	-	3687776	3689776	2001	6.080875
chr17	72536469	72596081	C17orf77	NM_152460	chr17	+	72579055	72581055	2001	6.07561
chr11	130284206	130341115	ADAMTS8	NM_007037	chr11	-	130298540	130300540	2001	6.071775
chr17	4528190	4547269	ALOX15	NM_001140	chr17	-	4544961	4546961	2001	6.06884
chr4	36269553	36294386	DTHD1	NM_001170700	chr4	+	36283642	36285642	2001	6.05851
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chr1	238047591	238075534	ZP4	NM_021186	chr1	-	238054223	238056223	2001	6.037375
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chr3	126070049	126093771	KLF15	NM_014079	chr3	-	126076237	126078237	2001	6.015965
chr1	46989391	47023375	KNCN	NM_001097611	chr1	-	47016888	47018888	2001	6.011965
chr13	28539465	28566296	CDX2	NM_001265	chr13	-	28543318	28545318	2001	5.99592
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chr1	208077186	208087557	CD34	NM_001773	chr1	-	208084684	208086684	2001	5.981175
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chr2	233346399	233399944	ECEL1	NM_004826	chr2	-	233352533	233354533	2001	5.94473
chr4	55080097	55104857	PDGFRA	NM_006206	chr4	+	55093262	55095262	2001	5.944045
chr1	152446398	152493428	LCE5A	NM_178438	chr1	+	152481318	152483318	2001	5.935845

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chr17	16332173	16411584	C17orf76	NM_207387	chr17	-	16395481	16397481	2001	5.904725
chr6	39003550	39015168	GLP1R	NM_002062	chr6	+	39014555	39016555	614	5.89024
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chr2	102005606	102027430	CREG2	NM_153836	chr2	-	102003966	102005966	361	5.85595
chr22	31530354	31538977	PLA2G3	NM_015715	chr22	-	31536470	31538470	2001	5.84243
chr1	40100149	40160008	HEYL	NM_014571	chr1	-	40105349	40107349	2001	5.83871
chr12	52907538	52974591	KRT71	NM_033448	chr12	-	52946932	52948932	2001	5.817405
chr1	1848818	1879275	TMEM52	NM_178545	chr1	-	1850741	1852741	2001	5.805995
chr22	43805352	43843581	MPPED1	NM_001044370	chr22	+	43806018	43808018	2001	5.803615
chr6	39199740	39293404	KCNK17	NM_031460	chr6	-	39282237	39284237	2001	5.7975
chr3	10507870	10590953	ATP2B2	NM_001683	chr3	-	10547269	10549269	2001	5.793485
chr8	41512338	41556914	ANK1	NM_020480	chr8	-	41522805	41524805	2001	5.782025
chr10	88411676	88433186	LDB3	NM_007078	chr10	+	88426424	88428424	2001	5.773125
chr11	93744743	93793826	HEPHL1	NM_001098672	chr11	+	93752376	93754376	2001	5.771325
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chr6	160758253	160799579	SLC22A3	NM_021977	chr6	+	160767423	160769423	2001	5.75182
chr4	96469896	96506715	UNC5C	NM_003728	chr4	-	96470362	96472362	2001	5.73257
chr10	44876742	44891010	CXCL12	NM_199168	chr10	-	44880546	44882546	2001	5.70763
chr17	40017935	40026143	KLHL11	NM_018143	chr17	-	40021630	40023630	2001	5.704905
chr9	87279361	87292326	NTRK2	NM_006180	chr9	+	87281464	87283464	2001	5.697045
chr7	28994383	28999961	TRIL	NM_014817	chr7	-	28998030	29000030	1932	5.685335

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chr2	223161745	223176909	PAX3	NM_181461	chr2	-	223163716	223165716	2001	5.667712
chr13	114263532	114324165	ATP4B	NM_000705	chr13	-	114312514	114314514	2001	5.665945
chr11	111371287	111409893	BTG4	NM_017589	chr11	-	111383065	111385065	2001	5.665735
chr17	5956462	5984291	WSCD1	NM_015253	chr17	+	5971932	5973932	2001	5.652945
chr2	223907554	223924375	KCNE4	NM_080671	chr2	+	223914860	223916860	2001	5.63657
chr2	80530153	80538747	LRRTM1	NM_178839	chr2	-	80531488	80533488	2001	5.63573
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chr10	134757917	134806685	C10orf93	NM_173572	chr10	-	134756090	134758090	174	5.624185
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chr13	113274011	113307105	C13orf35	NM_207440	chr13	+	113299356	113301356	2001	5.50397
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chr1	47656816	47703553	TAL1	NM_003189	chr1	-	47695444	47697444	2001	5.466995
chr5	131394814	131425363	IL3	NM_000588	chr5	+	131394345	131396345	1532	5.4478
chr15	78617973	78637706	CRABP1	NM_004378	chr15	+	78630664	78632664	2001	5.44005
chr10	91292353	91309554	SLC16A12	NM_213606	chr10	-	91295314	91297314	2001	5.43882

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chr22	19086492	19139196	GSC2	NM_005315	chr22	-	19137797	19139797	1400	5.421855
chr22	45310559	45410969	PHF21B	NM_138415	chr22	-	45405582	45407582	2001	5.415915
chr8	25897353	25908446	EBF2	NM_022659	chr8	-	25902393	25904393	2001	5.41012
chr2	106669618	106681819	C2orf40	NM_032411	chr2	+	106680111	106682111	1709	5.403615
chr17	39238880	39276311	KRTAP4-11	NM_033059	chr17	-	39274607	39276607	1705	5.39603
chr11	134225440	134287387	B3GAT1	NM_054025	chr11	-	134281813	134283813	2001	5.391445
chr11	18802036	18826408	PTPN5	NM_032781	chr11	-	18813390	18815390	2001	5.383125
chr4	83806760	83820089	THAP9	NM_024672	chr4	+	83819835	83821835	255	5.35611
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chr12	10573074	10606119	KLRC2	NM_002260	chr12	-	10588593	10590593	2001	5.310925
chr22	37581743	37623287	SSTR3	NM_001051	chr22	-	37608354	37610354	2001	5.2883
chr3	129220001	129304339	RHO	NM_000539	chr3	+	129245480	129247480	2001	5.267165
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chr17	39457481	39481820	KRTAP17-1	NM_031964	chr17	-	39471948	39473948	2001	5.22867
chr18	13868627	13916366	MC2R	NM_000529	chr18	-	13915536	13917536	831	5.203155
chr8	101641821	101691337	SNX31	NM_152628	chr8	-	101661894	101663894	2001	5.19872
chr20	23062114	23081593	CD93	NM_012072	chr20	-	23066978	23068978	2001	5.197935
chr2	228243296	228262568	TM4SF20	NM_024795	chr2	-	228244023	228246023	2001	5.18563
chr1	13829581	13867729	LRRC38	NM_001010847	chr1	-	13840243	13842243	2001	5.183045
chr17	50206214	50238432	CA10	NM_020178	chr17	-	50236133	50238133	2001	5.167585

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chr10	72544248	72590304	C10orf27	NM_152710	chr10	-	72545158	72547158	2001	5.132575
chrX	148760982	148798501	MAGEA11	NM_005366	chrX	+	148791736	148793736	2001	5.130985
chr10	50869360	50896424	C10orf53	NM_182554	chr10	+	50885682	50887682	2001	5.105245
chr5	178394603	178423704	GRM6	NM_000843	chr5	-	178422125	178424125	1580	5.07826
chr22	48881976	48983192	FAM19A5	NM_015381	chr22	+	48970116	48972116	2001	5.058295
chr6	29415534	29433356	OR2H1	NM_030883	chr6	+	29424228	29426228	2001	5.0322
chr4	186453438	186473737	PDLIM3	NM_014476	chr4	-	186456713	186458713	2001	5.015455
chr17	41834718	41836665	SOST	NM_025237	chr17	-	41836157	41838157	509	4.906105
chr14	57263234	57275732	OTX2	NM_172337	chr14	-	57272346	57274346	2001	4.875925
chr3	194091699	194107132	LRRC15	NM_130830	chr3	-	194090473	194092473	775	4.795475
chrX	113814461	113819142	HTR2C	NM_000868	chrX	+	113816549	113818549	2001	4.77444
chrX	141288180	141302158	MAGEC2	NM_016249	chrX	-	141293077	141295077	2001	4.67852
chr15	32979820	33012117	GREM1	NM_013372	chr15	+	33008203	33010203	2001	4.615305
chr8	65490721	65499284	BHLHE22	NM_152414	chr8	+	65490812	65492812	2001	4.547665
chr2	241927711	241943588	SNED1	NM_001080437	chr2	+	241936253	241938253	2001	4.540935
chr2	223161745	223176909	CCDC140	NM_153038	chr2	+	223160864	223162864	1120	4.523425
chr15	65691334	65718771	IGDCC4	NM_020962	chr15	-	65715411	65717411	2001	4.353905
chr1	13740143	13777051	PRAMEF21	NM_001100114	chr1	+	13740800	13742800	2001	
chr1	21026101	21062620	SH2D5	NM_001103161	chr1	-	21059134	21061134	2001	
chr1	151690417	151712803	C1orf230	NM_001144956	chr1	+	151692011	151694011	2001	
chr1	152690732	152743156	C1orf68	NM_001024679	chr1	+	152689996	152691996	1265	
chr1	209589280	209604570	LOC642587	NM_001104548	chr1	+	209600166	209602166	2001	
chr2	191400421	191437272	TMEM194B	NM_001142645	chr2	-	191399469	191401469	1049	

chr2	242662946	242703825	D2HGDH	NM_152783	chr2	+	242672028	242674028	2001	
chr4	7029327	7049691	TADA2B	NM_152293	chr4	+	7043154	7045154	2001	
chr4	7367751	7492963	PSAPL1	NM_001085382	chr4	-	7436701	7438701	2001	
chr7	128468762	128561570	KCP	NM_199349	chr7	-	128550774	128552774	2001	
chr7	141397049	141406598	KIAA1147	NM_001080392	chr7	-	141401954	141403954	2001	
chr7	141397049	141406598	WEE2	NM_001105558	chr7	+	141406151	141408151	448	
chr7	144096246	144113851	NOBOX	NM_001080413	chr7	-	144100787	144102787	2001	
chr8	142231113	142248073	SLC45A4	NM_001080431	chr8	-	142238674	142240674	2001	
chr9	34715639	34741924	C9orf144B	NM_001141917	chr9	-	34729536	34731536	2001	
chr11	1218575	1242443	MUC5B	NM_002458	chr11	+	1242293	1244293	151	
chr11	1650819	1712142	KRTAP5-5	NM_001001480	chr11	+	1649031	1651031	213	
chr11	2182173	2237853	INS-IGF2	NM_001042376	chr11	-	2182440	2184440	2001	
chr11	2277729	2350869	C11orf21	NM_001142946	chr11	-	2323144	2325144	2001	
chr12	10025223	10050371	KLRF2	NM_001190765	chr12	+	10032086	10034086	2001	
chr12	27229324	27249590	C12orf71	NM_001080406	chr12	-	27235456	27237456	2001	
chr13	28539465	28566296	PRHOXNB	NM_001105577	chr13	-	28562775	28564775	2001	
chr14	36976566	36986367	SFTA3	NM_001101341	chr14	-	36982991	36984991	2001	
chr14	93640204	93659637	C14orf109	NM_015676	chr14	+	93649294	93651294	2001	
chr14	94914389	94941468	SERPINA11	NM_001080451	chr14	-	94919123	94921123	2001	
chr15	42094340	42157010	JMJD7	NM_001114632	chr15	+	42118281	42120281	2001	
chr15	42094340	42157010	PLA2G4B	NM_001114633	chr15	+	42129009	42131009	2001	
chr16	66972097	66997078	CES3	NM_024922	chr16	+	66993130	66995130	2001	
chr17	6545800	6585564	C17orf100	NM_001105520	chr17	+	6553057	6555057	2001	

chr17	20349098	20379052	LGALS9B	NM_001042685	chr17	-	20370849	20372849	2001	
chr17	39238880	39276311	KRTAP4-7	NM_033061	chr17	+	39238457	39240457	1578	
chr17	39238880	39276311	KRTAP4-8	NM_031960	chr17	-	39254376	39256376	2001	
chr17	39238880	39276311	KRTAP4-9	NM_001146041	chr17	+	39259639	39261639	2001	
chr17	72536469	72596081	CD300LD	NM_001115152	chr17	-	72588371	72590371	2001	
chr19	7675216	7711628	LOC100131801	NM_001171155	chr19	+	7692669	7694669	2001	
chr19	53544918	53561272	HERV-V2	NM_001191055	chr19	+	53545989	53547989	2001	
chr22	24296477	24320634	GSTT2B	NM_001080843	chr22	-	24303369	24305369	2001	
chr22	24296477	24320634	DDTL	NM_001084393	chr22	+	24307024	24309024	2001	
chr22	30939215	30980664	LOC730005	NM_001193336	chr22	-	30942670	30944670	2001	
chrX	70980284	70993016	CXorf49B	NM_001145139	chrX	+	70981138	70983138	2001	
chrX	151910466	151933518	CSAG2	NM_004909	chrX	+	151925732	151927732	2001	