

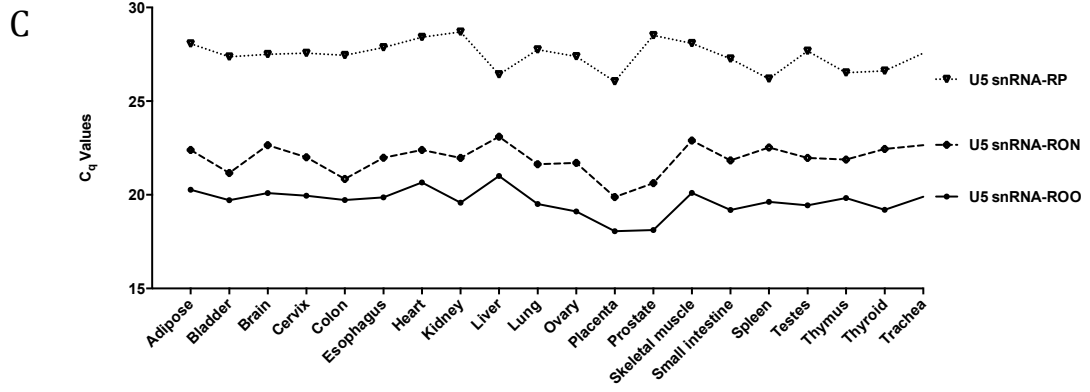
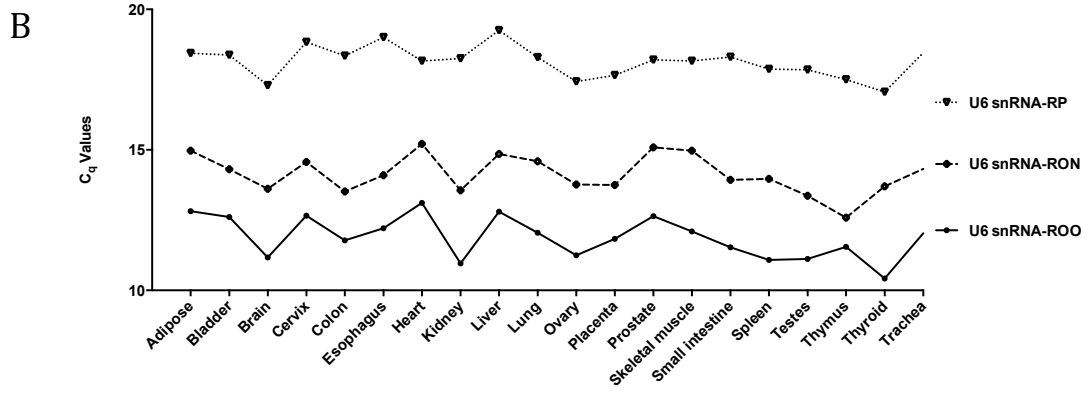
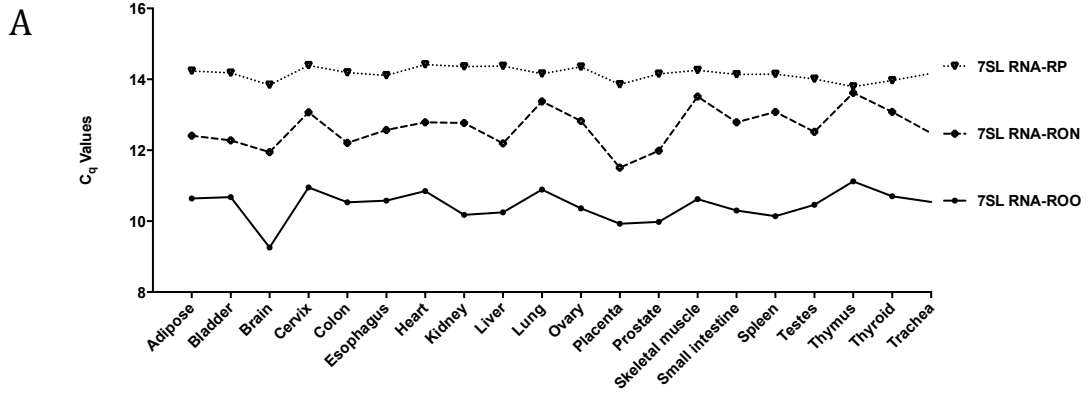
Differential regulation of non-protein coding RNAs from Prader-Willi Syndrome locus

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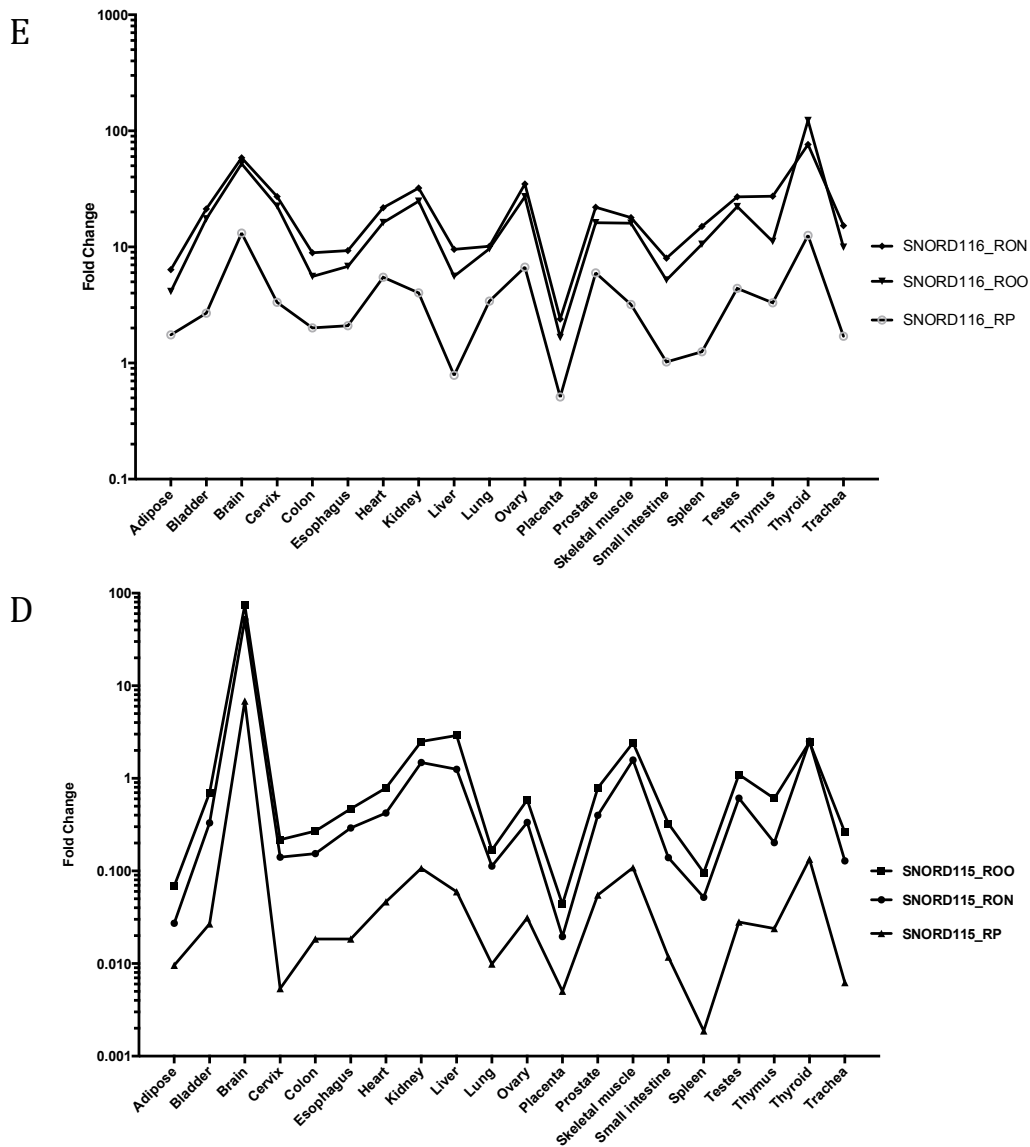


Figure S1. RT-qPCR analysis of the human PWS locus snoRNAs from different cDNA populations/preparations. Normalised expression data showing fold change values obtained in 20 different human tissues by qPCR. (A, B, C) Expression profiles of 7SL RNA, U6 snRNA and U5 snRNA, obtained using 3 different cDNA preparation showing highly correlating expression patterns. (D, E) Expression profiles of SNORD115 and SNORD116 from 3 different cDNA preparations showing similar expression patterns. SNORD_RP indicate for random hexamer primer during cDNA synthesis; SNORD_ROO and SNORD_RON represent two different batches of cDNAs prepared with gene specific oligos.

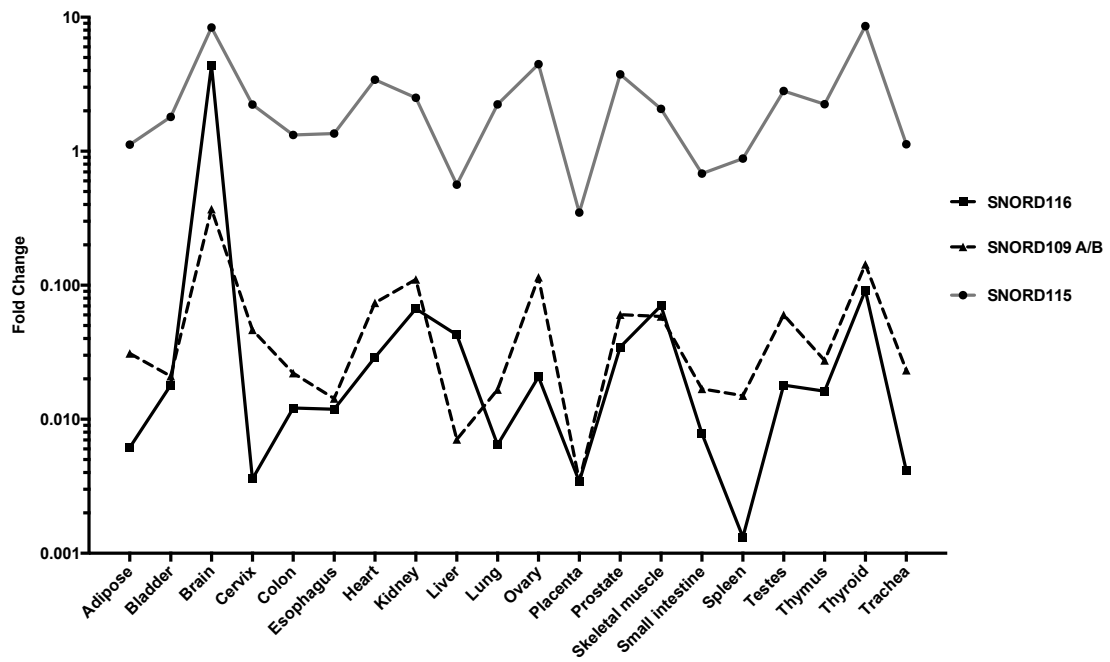


Figure S2. Comparative expression analysis of SNORD115, SNORD116 and SNORD109A/B RNAs. RT-qPCR data is represented as fold change after normalization. Merged expression pattern of SNORD109A and SNORD109B do not fully correlate neither with SNORD116 nor with SNORD115 expression.

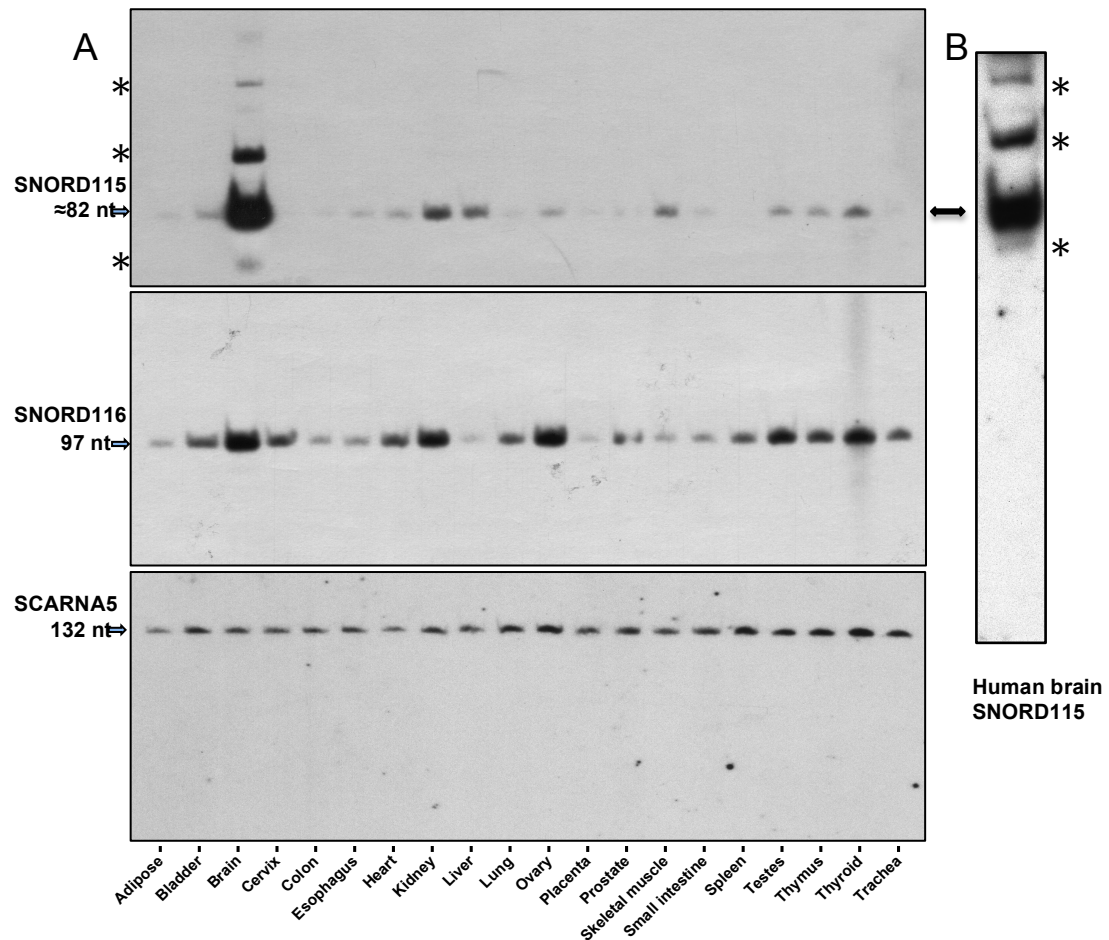


Figure S3. Northern blot hybridization. A) Northern blots showing expression of SNORD115 and SNORD116 in 20 different human tissues. SCARNA5 is used as loading control. B) Northern blot analysis of SNORD115 expression in human brain total RNA. Total RNA sample was resolved in 12% PAAG-7M Urea gel to ensure that small size RNAs were retained.

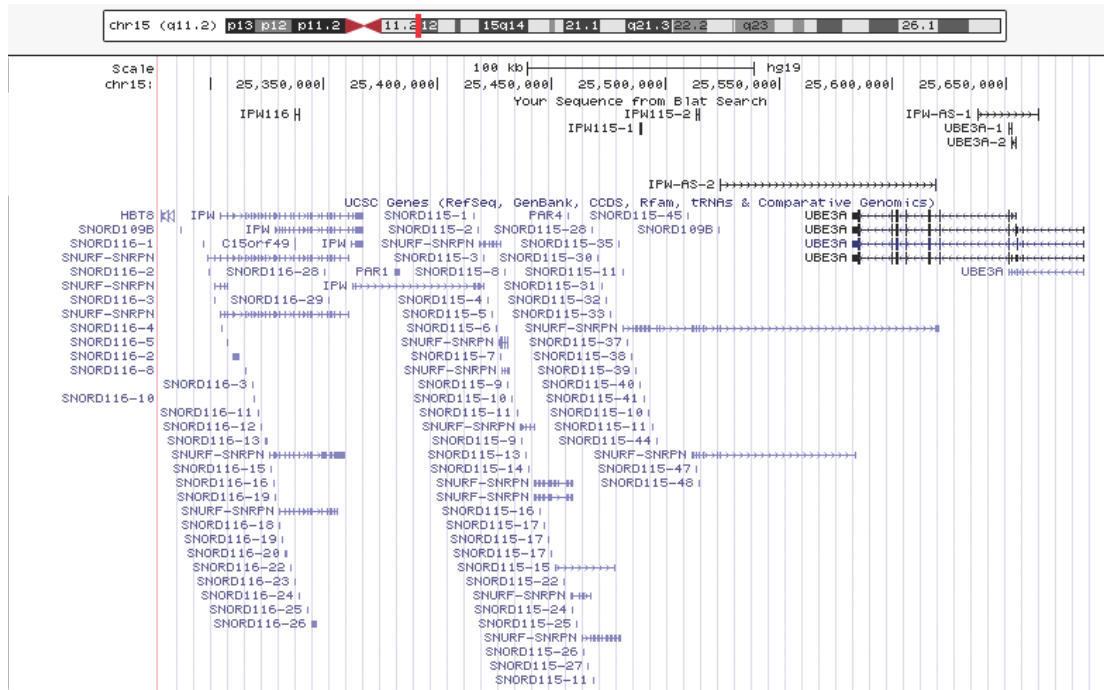


Figure S4. Genome browser image showing the location of the primers. The UCSC genome browser image indicates the localization of primers used for detecting IPW-115-2, UBE3A-ATS_1, UBE3A-ATS_2, UBE3A-1 and UBE3A-2 transcripts.

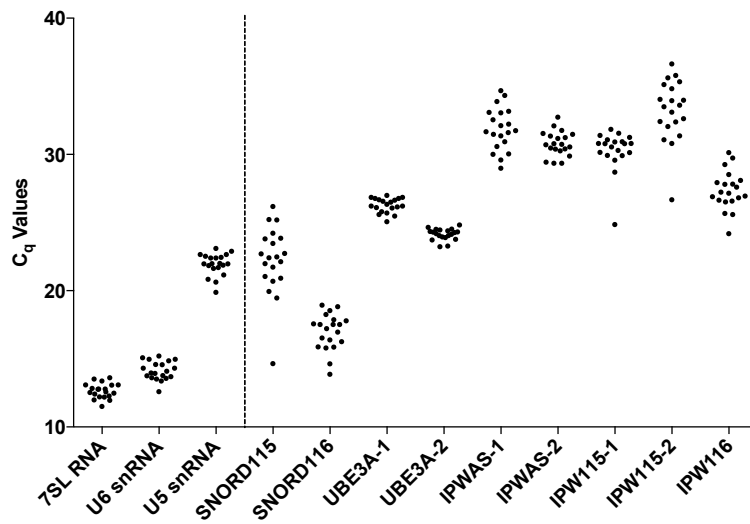


Figure S5. The “Expression Ruler” applied to other transcripts investigated from PWS-locus. HKR “Expression Ruler” is consisting of 7SL scRNA, U6 snRNA, and U5 snRNA.

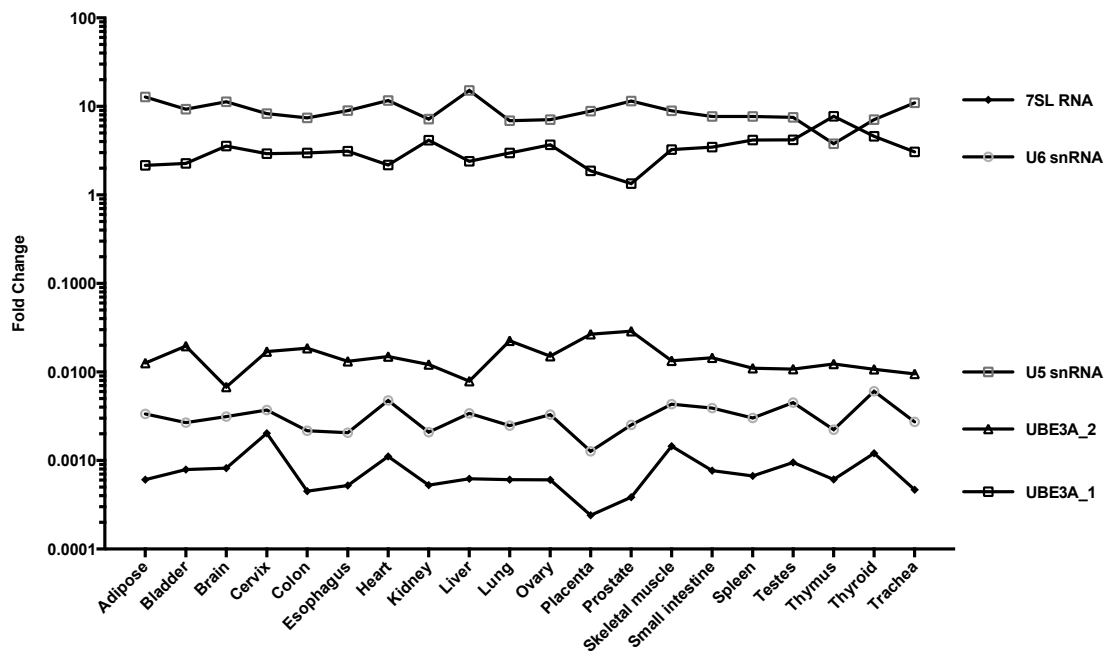


Figure S6. Comparative analysis of UBE3A expression with expression ruler HKRs. Comparative analysis of selected HKRs with UBE3A expression 20 different human tissues by RT-qPCR. Expression data is represented as fold change after normalization with the geometric mean of 3 HKRs (7SL scRNA, U6 snRNA and U5 snRNA).

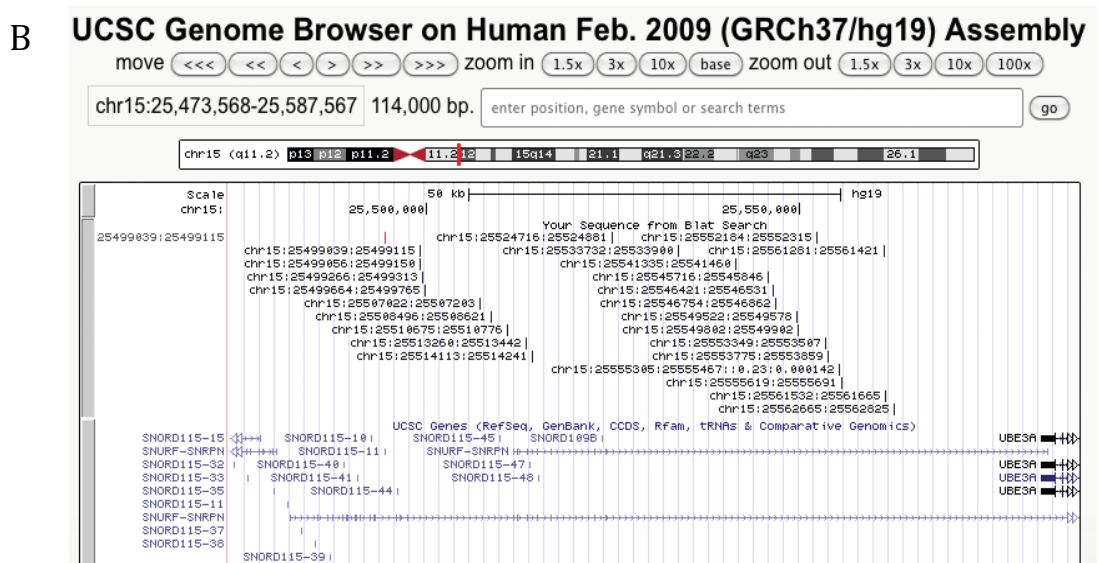
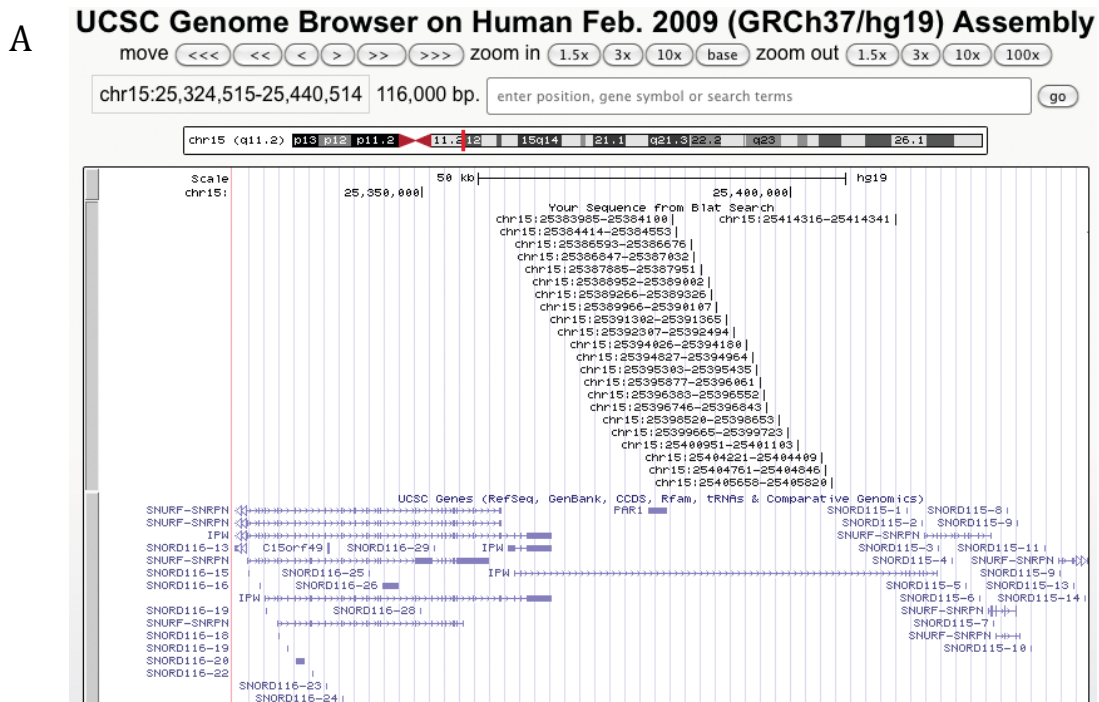


Figure S7. CAGE tags mapping to investigated PWS genomic region. (A) An example of UCSC genome browser search results visualizing CAGE-tags between SNORD116 and SNORD115 clusters. **(B)** Examples of CAGE-tags mapping after SNORD115 clusters.

Table S1: Details of npcRNAs evaluated in this study

Used symbol	Name	Accession no.	Primer sequences for qPCR	amplicon size (bp)
5.8S rRNA	Cytoplasmic, ribosomal RNA	U13369	Forward: GGTGGATCACTCGGCTCGT Reverse: GCAAGTGCGTTCGAAGTGTC	102
7SK RNA	RNA, 7SK	X05490	Forward: CCCCTGCTAGAACCTCCAAAC Reverse: CACATGCAGCGCCTCATTT	106
7SL scRNA	RNA, 7SL, cytoplasmic 1	X04248	Forward: ATCGGGTGTCCGCACTAAGTT Reverse: CAGCACGGGAGTTTTGACCT	126
U1 snRNA	RNA, U1A small nuclear	J00318	Forward: CCATGATCACGAAGGTGGTTT Reverse: ATGCAGTCGAGTTTCCACAT	101
U2 snRNA	RNA, U2 small nuclear	X59360	Forward: CTCGGCCTTTTGCTAAG Reverse: CTCCTGCTCCAAAAATCCA	110
U4 snRNA	RNA, U4A small nuclear	X59361	Forward: GCCAATGAGGTTTATCCGAGG Reverse: TCAAAAATTGCCAATGCCG	101
U5 snRNA	RNA, U5A small nuclear	X04215	Forward: TGGTTTCTTTCAGATCGCATAAA Reverse: CCAAGGCAAGGCTCAAAAAT	102
U6 snRNA	RNA, U6 small nuclear	M14486	Forward: CTCGCTTCGGCAGCACA Reverse: AACGCTTCACGAATTTGCGT	94
U12 snRNA	RNA, U12 small nuclear	J04119	Forward: GCCCGAATCCTCACTGCTAA Reverse: TCGCAACTCCCAGGCATC	98
U87 scaRNA	small Cajal body-specific RNA 5	AY077737	Forward: ATGGGATCATGGAGCAGCTG Reverse: TCACACCCATGACTGCCACT	132
U105 snoRNA	small nucleolar RNA, C/D box 105	AY349606	Forward: CCCCTATCTCTCATGATGAACACATAT Reverse: CCCCATCTCTTTCAGAGCG	85
HBII-13 snoRNA	small nucleolar RNA, C/D box 64	NR_001294	Forward: GGATTTGTGATGAGCTGTGTTTACTG Reverse: GGACTTCAGAGTAATCACGTTGAGC	67
HBII-52 snoRNA	small nucleolar RNA, C/D box 115	NR_001291.2	Forward: GTGTTGATGATGAGAACCTTATATTATCC Reverse: GGGCCTCAGCGTAATCCTATTG	82
HBII-85 snoRNA	small nucleolar RNA, C/D box 116	NR_003316	Forward: TGGATCGATGATGAGTCC Reverse: TGGACCTCAGTTCGGATGAGA	97
HBII-436 snoRNA	small nucleolar RNA, C/D box 107	AY055806	Forward: GGTTTCATGATGACACAGGACCTTG Reverse: GATTCAGAGTGTCAATTTTAAGCTCAA	75
HBII-437 snoRNA	small nucleolar RNA, C/D box 108	AY055807	Forward: GCTTAATGATGAGAATCATTATTTCTTG Reverse: GACCTCACGCTCCCTTTGC	71
HBII-438 snoRNA	small nucleolar RNA, C/D box 109	AY055808	Forward: GGATCGATGATGAGAATAATTGTCTG Reverse: GGACCTCAGATTGACATCTGGAAT	67
UBE3A-1	UBE3A	BC002582	Forward: TTGGAAGCAATCTTGGGGTA Reverse: GGCTAGCTTCAATGTCGTCAG	85
UBE3A-2	UBE3A	BC002582	Forward: AAGCTGCACCAGTGTATTGG Reverse: GTACCCCAAGATTGCTTCCA	68
IPW-AS1	UBE3A-antisense RNA	AF400501	Forward: AAGCATTCAAAGACGGCAAC Reverse: CACTAATTTCACTCAGATTCAAGGAG	72
IPW-AS2	UBE3A-antisense RNA	AF400500	Forward: CCTGGAATCTGATCCTCCAC Reverse: CTGAGGTAGGAGAATCGTTTTGAA	108
IPW 115-1	IPW 115 host gene	AF400493	Forward: CTTCTCACACCCTGGTCTC Reverse: GACTTCAAGAAATGCGTGCTC	100
IPW 115 -2	IPW 115 host gene	U12897	Forward: TGCAACCGTTGTTTAAGGATG Reverse: CCCTGAACAACAGGTTAAAGG	73
IPW 116	IPW 116 host gene	AF400486	Forward: CTGGTGGATCCCACAGGT Reverse: AGAAGCCCACGCCACATA	130

Table S2. Contigs representing 5'-cap structure containing transcripts supported by Hidden Markov model

Cell line/cellular compartments	chr	start	stop	Name	orientation
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A549CytosolPapTssHmm	chr15	25367145	25367240	chr15:25367145:25367240+:0.000000	+
A549NucleusPapTssHmm	chr15	25362130	25362292	chr15:25362130:25362292+:0.000035	+
A549NucleusPapTssHmm	chr15	25364746	25364766	chr15:25364746:25364766+:0.000003	+
A549NucleusPapTssHmm	chr15	25364964	25364974	chr15:25364964:25364974+:0.000000	+
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A549NucleusPapTssHmm	chr15	25367145	25367240	chr15:25367145:25367240+:0.000000	+
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Ag04450CellPapTssHmm	chr15	25362132	25362307	chr15:25362132:25362307+:1.51:0.015994	+
Cd20CellPapTssHmm	chr15	25365330	25365364	chr15:25365330:25365364+:0.000000	+
Cd20CellPapTssHmm	chr15	25367145	25367196	chr15:25367145:25367196+:0.000000	+
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H1hesCellPamTssHmmV2	chr15	25373909	25373964	chr15:25373909:25373964:+:0.45:0.000002	+
H1hesCellPamTssHmmV2	chr15	25374331	25374363	chr15:25374331:25374363:+:0.57:0.000063	+
H1hesCellPamTssHmmV2	chr15	25374633	25374710	chr15:25374633:25374710:+:0.52:0.000000	+
H1hesCellPamTssHmmV2	chr15	25374976	25375013	chr15:25374976:25375013:+:1.57:0.001266	+
H1hesCellPamTssHmmV2	chr15	25375554	25375608	chr15:25375554:25375608:+:0.10:0.000002	+
H1hesCellPamTssHmmV2	chr15	25375956	25376109	chr15:25375956:25376109:+:0.03:0.000000	+
H1hesCellPamTssHmmV2	chr15	25376741	25376765	chr15:25376741:25376765:+:0.40:0.000072	+
H1hesCellPapTssHmm	chr15	25354142	25354183	chr15:25354142:25354183:+:1.28:0.000201	+
H1hesCellPapTssHmm	chr15	25354359	25354405	chr15:25354359:25354405:+:0.60:0.000013	+
H1hesCellPapTssHmm	chr15	25354696	25354865	chr15:25354696:25354865:+:0.10:0.000099	+
H1hesCellPapTssHmm	chr15	25356917	25357044	chr15:25356917:25357044:+:0.49:0.084714	+
H1hesCellPapTssHmm	chr15	25357463	25357472	chr15:25357463:25357472:+:1.34:0.000003	+

H1hesCellPapTssHmm	chr15	25357600	25357630	chr15:25357600:25357630:+:1.17:0.000020	+
H1hesCellPapTssHmm	chr15	25357779	25357967	chr15:25357779:25357967:+:0.02:0.000004	+
H1hesCellPapTssHmm	chr15	25357994	25358005	chr15:25357994:25358005:+:0.08:0.000000	+
H1hesCellPapTssHmm	chr15	25358148	25358246	chr15:25358148:25358246:+:0.44:0.000581	+
H1hesCellPapTssHmm	chr15	25358781	25358833	chr15:25358781:25358833:+:0.88:0.000882	+
H1hesCellPapTssHmm	chr15	25359172	25359184	chr15:25359172:25359184:+:1.19:0.000000	+
H1hesCellPapTssHmm	chr15	25360419	25360566	chr15:25360419:25360566:+:0.02:0.001060	+
H1hesCellPapTssHmm	chr15	25360774	25360804	chr15:25360774:25360804:+:0.15:0.010918	+
H1hesCellPapTssHmm	chr15	25361557	25361614	chr15:25361557:25361614:+:0.81:0.000045	+
H1hesCellPapTssHmm	chr15	25362118	25362271	chr15:25362118:25362271:+:1.36:0.015835	+
H1hesCellPapTssHmm	chr15	25363348	25363358	chr15:25363348:25363358:+:4.32:0.000000	+
H1hesCellPapTssHmm	chr15	25364242	25364248	chr15:25364242:25364248:+:1.32:0.003601	+
H1hesCellPapTssHmm	chr15	25364377	25364473	chr15:25364377:25364473:+:0.19:0.000046	+
H1hesCellPapTssHmm	chr15	25364709	25364721	chr15:25364709:25364721:+:0.50:0.000007	+
H1hesCellPapTssHmm	chr15	25364743	25364767	chr15:25364743:25364767:+:0.93:0.000015	+
H1hesCellPapTssHmm	chr15	25364820	25364827	chr15:25364820:25364827:+:0.93:0.000110	+
H1hesCellPapTssHmm	chr15	25364959	25364971	chr15:25364959:25364971:+:0.93:0.000000	+
H1hesCellPapTssHmm	chr15	25365036	25365057	chr15:25365036:25365057:+:0.76:0.000000	+
H1hesCellPapTssHmm	chr15	25365255	25365262	chr15:25365255:25365262:+:0.52:0.000000	+
H1hesCellPapTssHmm	chr15	25365323	25365383	chr15:25365323:25365383:+:0.01:0.001381	+
H1hesCellPapTssHmm	chr15	25365526	25365549	chr15:25365526:25365549:+:0.06:0.000000	+
H1hesCellPapTssHmm	chr15	25365864	25365892	chr15:25365864:25365892:+:0.94:0.000174	+
H1hesCellPapTssHmm	chr15	25365965	25365971	chr15:25365965:25365971:+:0.35:0.000000	+
H1hesCellPapTssHmm	chr15	25366040	25366051	chr15:25366040:25366051:+:0.35:0.000000	+
H1hesCellPapTssHmm	chr15	25366802	25366818	chr15:25366802:25366818:+:2.27:0.000006	+
H1hesCellPapTssHmm	chr15	25366981	25366986	chr15:25366981:25366986:+:0.89:0.000000	+
H1hesCellPapTssHmm	chr15	25367024	25367029	chr15:25367024:25367029:+:2.11:0.000000	+
H1hesCellPapTssHmm	chr15	25367093	25367097	chr15:25367093:25367097:+:1.47:0.000003	+
H1hesCellPapTssHmm	chr15	25367141	25367247	chr15:25367141:25367247:+:0.89:0.000066	+
H1hesCellPapTssHmm	chr15	25370927	25371079	chr15:25370927:25371079:+:0.45:0.000001	+

H1hesCellPapTssHmm	chr15	25372164	25372168	chr15:25372164:25372168:+:3.01:0.000001	+
H1hesCellPapTssHmm	chr15	25373120	25373264	chr15:25373120:25373264:+:0.03:0.000001	+
H1hesCellPapTssHmm	chr15	25373909	25373964	chr15:25373909:25373964:+:0.45:0.000002	+
H1hesCellPapTssHmm	chr15	25374633	25374710	chr15:25374633:25374710:+:0.52:0.000000	+
H1hesCellPapTssHmm	chr15	25375956	25376109	chr15:25375956:25376109:+:0.03:0.000000	+
H1hesCellPapTssHmm	chr15	25376235	25376291	chr15:25376235:25376291:+:0.30:0.000094	+
H1hesCytosolPapTssHmm	chr15	25357812	25357996	chr15:25357812:25357996:+:0.000000	+
H1hesCytosolPapTssHmm	chr15	25364744	25364766	chr15:25364744:25364766:+:0.000000	+
H1hesCytosolPapTssHmm	chr15	25365326	25365335	chr15:25365326:25365335:+:0.000000	+
H1hesCytosolPapTssHmm	chr15	25367142	25367240	chr15:25367142:25367240:+:0.000003	+
H1hesNucleusPapTssHmm	chr15	25354143	25354183	chr15:25354143:25354183:+:0.000016	+
H1hesNucleusPapTssHmm	chr15	25354764	25354772	chr15:25354764:25354772:+:0.130194	+
H1hesNucleusPapTssHmm	chr15	25357463	25357472	chr15:25357463:25357472:+:0.000026	+
H1hesNucleusPapTssHmm	chr15	25357600	25357607	chr15:25357600:25357607:+:0.000020	+
H1hesNucleusPapTssHmm	chr15	25357810	25357817	chr15:25357810:25357817:+:0.000004	+
H1hesNucleusPapTssHmm	chr15	25357962	25357967	chr15:25357962:25357967:+:0.000000	+
H1hesNucleusPapTssHmm	chr15	25358182	25358193	chr15:25358182:25358193:+:0.000139	+
H1hesNucleusPapTssHmm	chr15	25358781	25358833	chr15:25358781:25358833:+:0.000573	+
H1hesNucleusPapTssHmm	chr15	25362132	25362135	chr15:25362132:25362135:+:0.001191	+
H1hesNucleusPapTssHmm	chr15	25362172	25362175	chr15:25362172:25362175:+:0.004341	+
H1hesNucleusPapTssHmm	chr15	25364743	25364766	chr15:25364743:25364766:+:0.000025	+
H1hesNucleusPapTssHmm	chr15	25364821	25364827	chr15:25364821:25364827:+:0.000022	+
H1hesNucleusPapTssHmm	chr15	25364962	25364970	chr15:25364962:25364970:+:0.000001	+
H1hesNucleusPapTssHmm	chr15	25365325	25365338	chr15:25365325:25365338:+:0.000000	+
H1hesNucleusPapTssHmm	chr15	25365542	25365548	chr15:25365542:25365548:+:0.000000	+
H1hesNucleusPapTssHmm	chr15	25365864	25365867	chr15:25365864:25365867:+:0.000008	+
H1hesNucleusPapTssHmm	chr15	25366812	25366818	chr15:25366812:25366818:+:0.000001	+
H1hesNucleusPapTssHmm	chr15	25367141	25367241	chr15:25367141:25367241:+:0.000037	+
H1hesNucleusPapTssHmm	chr15	25373749	25373752	chr15:25373749:25373752:+:0.015137	+
H1hesNucleusPapTssHmm	chr15	25374669	25374674	chr15:25374669:25374674:+:0.000225	+

Helas3CellPapTssHmm	chr15	25584216	25584378	chr15:25584216:25584378:+:2.03:0.000000	+
Helas3CytosolPamTssHmm	chr15	25584216	25584378	chr15:25584216:25584378:+:2.03:0.000000	+
Helas3CytosolPamTssHmmV2	chr15	25584216	25584378	chr15:25584216:25584378:+:2.03:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25354371	25354510	chr15:25354371:25354510:+:0.05:0.000045	+
Hepg2CellPapTssHmmV2	chr15	25354707	25354824	chr15:25354707:25354824:+:0.69:0.000431	+
Hepg2CellPapTssHmmV2	chr15	25356851	25356983	chr15:25356851:25356983:+:0.33:0.000119	+
Hepg2CellPapTssHmmV2	chr15	25357553	25357604	chr15:25357553:25357604:+:1.00:0.000282	+
Hepg2CellPapTssHmmV2	chr15	25357813	25357822	chr15:25357813:25357822:+:2.11:0.000002	+
Hepg2CellPapTssHmmV2	chr15	25357919	25358048	chr15:25357919:25358048:+:0.04:0.000001	+
Hepg2CellPapTssHmmV2	chr15	25358770	25358831	chr15:25358770:25358831:+:1.67:0.000584	+
Hepg2CellPapTssHmmV2	chr15	25360797	25360855	chr15:25360797:25360855:+:0.19:0.000011	+
Hepg2CellPapTssHmmV2	chr15	25362117	25362315	chr15:25362117:25362315:+:0.26:0.050451	+
Hepg2CellPapTssHmmV2	chr15	25363315	25363365	chr15:25363315:25363365:+:0.03:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25364377	25364414	chr15:25364377:25364414:+:0.13:0.000046	+
Hepg2CellPapTssHmmV2	chr15	25364551	25364572	chr15:25364551:25364572:+:0.22:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25364742	25364802	chr15:25364742:25364802:+:0.32:0.000004	+
Hepg2CellPapTssHmmV2	chr15	25364885	25364914	chr15:25364885:25364914:+:0.15:0.000002	+
Hepg2CellPapTssHmmV2	chr15	25364964	25365005	chr15:25364964:25365005:+:0.37:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25365223	25365256	chr15:25365223:25365256:+:0.31:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2CellPapTssHmmV2	chr15	25365521	25365568	chr15:25365521:25365568:+:0.10:0.000000	+
Hepg2CellPapTssHmmV2	chr15	25367192	25367302	chr15:25367192:25367302:+:0.18:0.000002	+
Hepg2CellPapTssHmmV2	chr15	25367516	25367520	chr15:25367516:25367520:+:0.59:0.000002	+
Hepg2CellPapTssHmmV2	chr15	25374516	25374675	chr15:25374516:25374675:+:0.32:0.000040	+
Hepg2CellPapTssHmmV2	chr15	25376206	25376265	chr15:25376206:25376265:+:0.40:0.000013	+
Hepg2CellPapTssHmmV2	chr15	25379672	25379692	chr15:25379672:25379692:+:1.96:0.000308	+
Hepg2CellPapTssHmmV2	chr15	25392307	25392494	chr15:25392307:25392494:+:0.11:0.000019	+
Hepg2CellPapTssHmmV2	chr15	25394827	25394964	chr15:25394827:25394964:+:0.66:0.000051	+
Hepg2CellPapTssHmmV2	chr15	25395877	25396061	chr15:25395877:25396061:+:0.18:0.000008	+
Hepg2CellPapTssHmmV2	chr15	25396383	25396552	chr15:25396383:25396552:+:0.49:0.000000	+

Hepg2CytosolPamTssHmmV2	chr15	25360797	25360855	chr15:25360797:25360855:+:0.19:0.000011	+
Hepg2CytosolPamTssHmmV2	chr15	25363315	25363365	chr15:25363315:25363365:+:0.03:0.000000	+
Hepg2CytosolPamTssHmmV2	chr15	25364377	25364414	chr15:25364377:25364414:+:0.13:0.000046	+
Hepg2CytosolPamTssHmmV2	chr15	25364742	25364802	chr15:25364742:25364802:+:0.32:0.000004	+
Hepg2CytosolPamTssHmmV2	chr15	25364885	25364914	chr15:25364885:25364914:+:0.15:0.000002	+
Hepg2CytosolPamTssHmmV2	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2CytosolPamTssHmmV2	chr15	25365953	25365975	chr15:25365953:25365975:+:1.00:0.000000	+
Hepg2CytosolPamTssHmmV2	chr15	25366746	25366762	chr15:25366746:25366762:+:0.62:0.000158	+
Hepg2CytosolPamTssHmmV2	chr15	25366812	25366826	chr15:25366812:25366826:+:0.28:0.000004	+
Hepg2CytosolPamTssHmmV2	chr15	25367070	25367099	chr15:25367070:25367099:+:0.01:0.000000	+
Hepg2CytosolPamTssHmmV2	chr15	25368625	25368762	chr15:25368625:25368762:+:0.19:0.000352	+
Hepg2CytosolPamTssHmmV2	chr15	25369080	25369200	chr15:25369080:25369200:+:0.77:0.000017	+
Hepg2CytosolPamTssHmmV2	chr15	25370873	25370892	chr15:25370873:25370892:+:0.21:0.000008	+
Hepg2CytosolPamTssHmmV2	chr15	25375612	25375729	chr15:25375612:25375729:+:0.02:0.000000	+
Hepg2CytosolPamTssHmmV2	chr15	25379672	25379692	chr15:25379672:25379692:+:1.96:0.000308	+
Hepg2CytosolPamTssHmmV2	chr15	25381056	25381198	chr15:25381056:25381198:+:0.24:0.000000	+
Hepg2CytosolPamTssHmmV2	chr15	25449912	25449914	chr15:25449912:25449914:+:6.47:0.035408	+
Hepg2CytosolPamTssHmmV2	chr15	25475948	25475986	chr15:25475948:25475986:+:1.07:0.036127	+
Hepg2CytosolPamTssHmmV2	chr15	25553349	25553507	chr15:25553349:25553507:+:0.71:0.000012	+
Hepg2CytosolPamTssHmmV2	chr15	25564110	25564267	chr15:25564110:25564267:+:0.39:0.000008	+
Hepg2CytosolPamTssHmmV2	chr15	25584117	25584225	chr15:25584117:25584225:+:0.37:0.000005	+
Hepg2CytosolPamTssHmmV2	chr15	25585317	25585398	chr15:25585317:25585398:+:0.68:0.000067	+
Hepg2CytosolPapTssHmm	chr15	25354371	25354510	chr15:25354371:25354510:+:0.05:0.000045	+
Hepg2CytosolPapTssHmm	chr15	25354707	25354824	chr15:25354707:25354824:+:0.69:0.000431	+
Hepg2CytosolPapTssHmm	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2CytosolPapTssHmm	chr15	25367192	25367302	chr15:25367192:25367302:+:0.18:0.000002	+
Hepg2CytosolPapTssHmm	chr15	25379672	25379692	chr15:25379672:25379692:+:1.96:0.000308	+
Hepg2NucleolusTotalTssHmmV3	chr15	25354371	25354510	chr15:25354371:25354510:+:0.05:0.000045	+
Hepg2NucleolusTotalTssHmmV3	chr15	25354707	25354824	chr15:25354707:25354824:+:0.69:0.000431	+
Hepg2NucleolusTotalTssHmmV3	chr15	25355102	25355125	chr15:25355102:25355125:+:0.69:0.000182	+

Hepg2NucleolusTotalTssHmmV3	chr15	25355199	25355213	chr15:25355199:25355213:+:1.23:0.465299	+
Hepg2NucleolusTotalTssHmmV3	chr15	25356851	25356983	chr15:25356851:25356983:+:0.33:0.000119	+
Hepg2NucleolusTotalTssHmmV3	chr15	25357074	25357089	chr15:25357074:25357089:+:0.56:0.000431	+
Hepg2NucleolusTotalTssHmmV3	chr15	25357553	25357604	chr15:25357553:25357604:+:1.00:0.000282	+
Hepg2NucleolusTotalTssHmmV3	chr15	25357813	25357822	chr15:25357813:25357822:+:2.11:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25358770	25358831	chr15:25358770:25358831:+:1.67:0.000584	+
Hepg2NucleolusTotalTssHmmV3	chr15	25360797	25360855	chr15:25360797:25360855:+:0.19:0.000011	+
Hepg2NucleolusTotalTssHmmV3	chr15	25361181	25361223	chr15:25361181:25361223:+:0.07:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25361451	25361516	chr15:25361451:25361516:+:0.33:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25361757	25361893	chr15:25361757:25361893:+:0.27:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25362117	25362315	chr15:25362117:25362315:+:0.26:0.050451	+
Hepg2NucleolusTotalTssHmmV3	chr15	25362613	25362741	chr15:25362613:25362741:+:0.12:0.001306	+
Hepg2NucleolusTotalTssHmmV3	chr15	25362893	25363061	chr15:25362893:25363061:+:0.24:0.003903	+
Hepg2NucleolusTotalTssHmmV3	chr15	25363315	25363365	chr15:25363315:25363365:+:0.03:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25364551	25364572	chr15:25364551:25364572:+:0.22:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25364619	25364628	chr15:25364619:25364628:+:1.00:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25364742	25364802	chr15:25364742:25364802:+:0.32:0.000004	+
Hepg2NucleolusTotalTssHmmV3	chr15	25364885	25364914	chr15:25364885:25364914:+:0.15:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25364964	25365005	chr15:25364964:25365005:+:0.37:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365223	25365256	chr15:25365223:25365256:+:0.31:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365521	25365568	chr15:25365521:25365568:+:0.10:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365760	25365769	chr15:25365760:25365769:+:0.19:0.015085	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365860	25365874	chr15:25365860:25365874:+:0.85:0.000026	+
Hepg2NucleolusTotalTssHmmV3	chr15	25365953	25365975	chr15:25365953:25365975:+:1.00:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366007	25366010	chr15:25366007:25366010:+:1.00:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366042	25366047	chr15:25366042:25366047:+:1.00:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366382	25366389	chr15:25366382:25366389:+:1.32:0.000254	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366462	25366464	chr15:25366462:25366464:+:2.58:0.000025	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366580	25366615	chr15:25366580:25366615:+:0.05:0.000000	+

Hepg2NucleolusTotalTssHmmV3	chr15	25366655	25366667	chr15:25366655:25366667:+:0.12:0.000136	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366699	25366717	chr15:25366699:25366717:+:0.11:0.001013	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366746	25366762	chr15:25366746:25366762:+:0.62:0.000158	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366812	25366826	chr15:25366812:25366826:+:0.28:0.000004	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366881	25366884	chr15:25366881:25366884:+:0.70:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366937	25366944	chr15:25366937:25366944:+:0.19:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366957	25366962	chr15:25366957:25366962:+:0.93:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25366982	25366990	chr15:25366982:25366990:+:0.13:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367033	25367041	chr15:25367033:25367041:+:0.68:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367070	25367099	chr15:25367070:25367099:+:0.01:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367130	25367133	chr15:25367130:25367133:+:1.43:0.000010	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367145	25367147	chr15:25367145:25367147:+:1.43:0.000018	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367172	25367179	chr15:25367172:25367179:+:0.43:0.000007	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367192	25367302	chr15:25367192:25367302:+:0.18:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367360	25367364	chr15:25367360:25367364:+:0.59:0.000039	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367376	25367411	chr15:25367376:25367411:+:0.24:0.000007	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367435	25367447	chr15:25367435:25367447:+:0.40:0.000010	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367469	25367475	chr15:25367469:25367475:+:0.07:0.000003	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367516	25367520	chr15:25367516:25367520:+:0.59:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25367525	25367581	chr15:25367525:25367581:+:0.51:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25368810	25368847	chr15:25368810:25368847:+:0.06:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25369080	25369200	chr15:25369080:25369200:+:0.77:0.000017	+
Hepg2NucleolusTotalTssHmmV3	chr15	25369509	25369640	chr15:25369509:25369640:+:0.05:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25369893	25369915	chr15:25369893:25369915:+:1.03:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25370119	25370238	chr15:25370119:25370238:+:0.18:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25370364	25370366	chr15:25370364:25370366:+:3.12:0.000005	+
Hepg2NucleolusTotalTssHmmV3	chr15	25370424	25370516	chr15:25370424:25370516:+:0.12:0.000004	+
Hepg2NucleolusTotalTssHmmV3	chr15	25370873	25370892	chr15:25370873:25370892:+:0.21:0.000008	+
Hepg2NucleolusTotalTssHmmV3	chr15	25371364	25371388	chr15:25371364:25371388:+:1.27:0.000001	+
Hepg2NucleolusTotalTssHmmV3	chr15	25372318	25372377	chr15:25372318:25372377:+:0.64:0.000000	+

Hepg2NucleolusTotalTssHmmV3	chr15	25372454	25372486	chr15:25372454:25372486:+:0.16:0.000003	+
Hepg2NucleolusTotalTssHmmV3	chr15	25372573	25372585	chr15:25372573:25372585:+:1.47:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25372737	25372761	chr15:25372737:25372761:+:0.21:0.000003	+
Hepg2NucleolusTotalTssHmmV3	chr15	25373483	25373486	chr15:25373483:25373486:+:4.30:0.001508	+
Hepg2NucleolusTotalTssHmmV3	chr15	25373582	25373754	chr15:25373582:25373754:+:0.42:0.001228	+
Hepg2NucleolusTotalTssHmmV3	chr15	25373992	25374007	chr15:25373992:25374007:+:1.89:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25374323	25374354	chr15:25374323:25374354:+:0.44:0.000053	+
Hepg2NucleolusTotalTssHmmV3	chr15	25374413	25374455	chr15:25374413:25374455:+:0.51:0.000080	+
Hepg2NucleolusTotalTssHmmV3	chr15	25374516	25374675	chr15:25374516:25374675:+:0.32:0.000040	+
Hepg2NucleolusTotalTssHmmV3	chr15	25374972	25374980	chr15:25374972:25374980:+:1.46:0.000749	+
Hepg2NucleolusTotalTssHmmV3	chr15	25375087	25375122	chr15:25375087:25375122:+:0.14:0.002155	+
Hepg2NucleolusTotalTssHmmV3	chr15	25375432	25375461	chr15:25375432:25375461:+:0.35:0.000044	+
Hepg2NucleolusTotalTssHmmV3	chr15	25375612	25375729	chr15:25375612:25375729:+:0.02:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25375771	25375840	chr15:25375771:25375840:+:0.63:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25375992	25376113	chr15:25375992:25376113:+:0.16:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25376206	25376265	chr15:25376206:25376265:+:0.40:0.000013	+
Hepg2NucleolusTotalTssHmmV3	chr15	25376299	25376348	chr15:25376299:25376348:+:0.03:0.000003	+
Hepg2NucleolusTotalTssHmmV3	chr15	25377027	25377118	chr15:25377027:25377118:+:0.03:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25377348	25377436	chr15:25377348:25377436:+:0.58:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25377629	25377736	chr15:25377629:25377736:+:1.22:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25379672	25379692	chr15:25379672:25379692:+:1.96:0.000308	+
Hepg2NucleolusTotalTssHmmV3	chr15	25380114	25380254	chr15:25380114:25380254:+:0.20:0.112898	+
Hepg2NucleolusTotalTssHmmV3	chr15	25381056	25381198	chr15:25381056:25381198:+:0.24:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25383706	25383718	chr15:25383706:25383718:+:2.28:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25383985	25384100	chr15:25383985:25384100:+:0.14:0.000156	+
Hepg2NucleolusTotalTssHmmV3	chr15	25384414	25384553	chr15:25384414:25384553:+:0.38:0.000141	+
Hepg2NucleolusTotalTssHmmV3	chr15	25386593	25386676	chr15:25386593:25386676:+:0.08:0.000339	+
Hepg2NucleolusTotalTssHmmV3	chr15	25386847	25387032	chr15:25386847:25387032:+:0.58:0.000381	+
Hepg2NucleolusTotalTssHmmV3	chr15	25387885	25387951	chr15:25387885:25387951:+:0.11:0.000055	+
Hepg2NucleolusTotalTssHmmV3	chr15	25388952	25389002	chr15:25388952:25389002:+:0.71:0.000021	+

Hepg2NucleolusTotalTssHmmV3	chr15	25389266	25389326	chr15:25389266:25389326:+:0.56:0.012252	+
Hepg2NucleolusTotalTssHmmV3	chr15	25389966	25390107	chr15:25389966:25390107:+:0.67:0.000650	+
Hepg2NucleolusTotalTssHmmV3	chr15	25391302	25391365	chr15:25391302:25391365:+:0.41:0.000008	+
Hepg2NucleolusTotalTssHmmV3	chr15	25392307	25392494	chr15:25392307:25392494:+:0.11:0.000019	+
Hepg2NucleolusTotalTssHmmV3	chr15	25394026	25394180	chr15:25394026:25394180:+:1.01:0.456536	+
Hepg2NucleolusTotalTssHmmV3	chr15	25394827	25394964	chr15:25394827:25394964:+:0.66:0.000051	+
Hepg2NucleolusTotalTssHmmV3	chr15	25395303	25395435	chr15:25395303:25395435:+:0.02:0.000018	+
Hepg2NucleolusTotalTssHmmV3	chr15	25395877	25396061	chr15:25395877:25396061:+:0.18:0.000008	+
Hepg2NucleolusTotalTssHmmV3	chr15	25396383	25396552	chr15:25396383:25396552:+:0.49:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25396746	25396843	chr15:25396746:25396843:+:0.54:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25398520	25398653	chr15:25398520:25398653:+:0.06:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25399665	25399723	chr15:25399665:25399723:+:1.34:0.000010	+
Hepg2NucleolusTotalTssHmmV3	chr15	25400951	25401103	chr15:25400951:25401103:+:0.50:0.000009	+
Hepg2NucleolusTotalTssHmmV3	chr15	25404221	25404409	chr15:25404221:25404409:+:0.28:0.000058	+
Hepg2NucleolusTotalTssHmmV3	chr15	25404761	25404846	chr15:25404761:25404846:+:1.83:0.001411	+
Hepg2NucleolusTotalTssHmmV3	chr15	25405658	25405820	chr15:25405658:25405820:+:0.58:0.000131	+
Hepg2NucleolusTotalTssHmmV3	chr15	25408745	25408894	chr15:25408745:25408894:+:1.38:0.000003	+
Hepg2NucleolusTotalTssHmmV3	chr15	25410304	25410471	chr15:25410304:25410471:+:0.65:0.000014	+
Hepg2NucleolusTotalTssHmmV3	chr15	25411561	25411681	chr15:25411561:25411681:+:1.13:0.000019	+
Hepg2NucleolusTotalTssHmmV3	chr15	25414436	25414600	chr15:25414436:25414600:+:0.66:0.000430	+
Hepg2NucleolusTotalTssHmmV3	chr15	25414812	25414954	chr15:25414812:25414954:+:0.03:0.977014	+
Hepg2NucleolusTotalTssHmmV3	chr15	25415761	25415873	chr15:25415761:25415873:+:0.94:0.861870	+
Hepg2NucleolusTotalTssHmmV3	chr15	25442722	25442725	chr15:25442722:25442725:+:8.53:0.000336	+
Hepg2NucleolusTotalTssHmmV3	chr15	25449912	25449914	chr15:25449912:25449914:+:6.47:0.035408	+
Hepg2NucleolusTotalTssHmmV3	chr15	25475948	25475986	chr15:25475948:25475986:+:1.07:0.036127	+
Hepg2NucleolusTotalTssHmmV3	chr15	25497078	25497080	chr15:25497078:25497080:+:7.33:0.620100	+
Hepg2NucleolusTotalTssHmmV3	chr15	25499056	25499150	chr15:25499056:25499150:+:0.48:0.698049	+
Hepg2NucleolusTotalTssHmmV3	chr15	25499266	25499313	chr15:25499266:25499313:+:0.75:0.000031	+
Hepg2NucleolusTotalTssHmmV3	chr15	25499664	25499765	chr15:25499664:25499765:+:0.78:0.000093	+
Hepg2NucleolusTotalTssHmmV3	chr15	25507022	25507203	chr15:25507022:25507203:+:0.98:0.000004	+

Hepg2NucleolusTotalTssHmmV3	chr15	25508496	25508621	chr15:25508496:25508621:+:1.98:0.000185	+
Hepg2NucleolusTotalTssHmmV3	chr15	25510675	25510776	chr15:25510675:25510776:+:0.61:0.000431	+
Hepg2NucleolusTotalTssHmmV3	chr15	25513260	25513442	chr15:25513260:25513442:+:0.86:0.000005	+
Hepg2NucleolusTotalTssHmmV3	chr15	25514113	25514241	chr15:25514113:25514241:+:1.61:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25524716	25524881	chr15:25524716:25524881:+:1.13:0.000004	+
Hepg2NucleolusTotalTssHmmV3	chr15	25533732	25533900	chr15:25533732:25533900:+:0.08:0.000010	+
Hepg2NucleolusTotalTssHmmV3	chr15	25541335	25541460	chr15:25541335:25541460:+:0.60:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25545716	25545846	chr15:25545716:25545846:+:0.64:0.000032	+
Hepg2NucleolusTotalTssHmmV3	chr15	25546421	25546531	chr15:25546421:25546531:+:0.24:0.001714	+
Hepg2NucleolusTotalTssHmmV3	chr15	25546754	25546862	chr15:25546754:25546862:+:0.11:0.000001	+
Hepg2NucleolusTotalTssHmmV3	chr15	25549522	25549578	chr15:25549522:25549578:+:1.15:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25549802	25549902	chr15:25549802:25549902:+:0.09:0.000001	+
Hepg2NucleolusTotalTssHmmV3	chr15	25550037	25550055	chr15:25550037:25550055:+:1.67:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25552184	25552315	chr15:25552184:25552315:+:0.52:0.000001	+
Hepg2NucleolusTotalTssHmmV3	chr15	25553349	25553507	chr15:25553349:25553507:+:0.71:0.000012	+
Hepg2NucleolusTotalTssHmmV3	chr15	25553775	25553859	chr15:25553775:25553859:+:1.45:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25555305	25555467	chr15:25555305:25555467:+:0.23:0.000142	+
Hepg2NucleolusTotalTssHmmV3	chr15	25555619	25555691	chr15:25555619:25555691:+:0.10:0.000000	+
Hepg2NucleolusTotalTssHmmV3	chr15	25561281	25561421	chr15:25561281:25561421:+:0.09:0.000055	+
Hepg2NucleolusTotalTssHmmV3	chr15	25562665	25562825	chr15:25562665:25562825:+:0.93:0.000012	+
Hepg2NucleolusTotalTssHmmV3	chr15	25564110	25564267	chr15:25564110:25564267:+:0.39:0.000008	+
Hepg2NucleolusTotalTssHmmV3	chr15	25566468	25566550	chr15:25566468:25566550:+:0.20:0.000075	+
Hepg2NucleolusTotalTssHmmV3	chr15	25579744	25579747	chr15:25579744:25579747:+:5.29:0.000002	+
Hepg2NucleolusTotalTssHmmV3	chr15	25580366	25580510	chr15:25580366:25580510:+:0.07:0.001597	+
Hepg2NucleolusTotalTssHmmV3	chr15	25584117	25584225	chr15:25584117:25584225:+:0.37:0.000005	+
Hepg2NucleolusTotalTssHmmV3	chr15	25585317	25585398	chr15:25585317:25585398:+:0.68:0.000067	+
Hepg2NucleolusTotalTssHmmV3	chr15	25586964	25587162	chr15:25586964:25587162:+:0.64:0.000001	+
Hepg2NucleusPamTssHmmV2	chr15	25354707	25354824	chr15:25354707:25354824:+:0.69:0.000431	+
Hepg2NucleusPamTssHmmV2	chr15	25356851	25356983	chr15:25356851:25356983:+:0.33:0.000119	+
Hepg2NucleusPamTssHmmV2	chr15	25357813	25357822	chr15:25357813:25357822:+:2.11:0.000002	+

Hepg2NucleusPamTssHmmV2	chr15	25357919	25358048	chr15:25357919:25358048:+:0.04:0.000001	+
Hepg2NucleusPamTssHmmV2	chr15	25358770	25358831	chr15:25358770:25358831:+:1.67:0.000584	+
Hepg2NucleusPamTssHmmV2	chr15	25360797	25360855	chr15:25360797:25360855:+:0.19:0.000011	+
Hepg2NucleusPamTssHmmV2	chr15	25361181	25361223	chr15:25361181:25361223:+:0.07:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25361451	25361516	chr15:25361451:25361516:+:0.33:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25361757	25361893	chr15:25361757:25361893:+:0.27:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25362117	25362315	chr15:25362117:25362315:+:0.26:0.050451	+
Hepg2NucleusPamTssHmmV2	chr15	25362613	25362741	chr15:25362613:25362741:+:0.12:0.001306	+
Hepg2NucleusPamTssHmmV2	chr15	25362893	25363061	chr15:25362893:25363061:+:0.24:0.003903	+
Hepg2NucleusPamTssHmmV2	chr15	25363315	25363365	chr15:25363315:25363365:+:0.03:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25364619	25364628	chr15:25364619:25364628:+:1.00:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25364742	25364802	chr15:25364742:25364802:+:0.32:0.000004	+
Hepg2NucleusPamTssHmmV2	chr15	25364885	25364914	chr15:25364885:25364914:+:0.15:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2NucleusPamTssHmmV2	chr15	25365521	25365568	chr15:25365521:25365568:+:0.10:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25365860	25365874	chr15:25365860:25365874:+:0.85:0.000026	+
Hepg2NucleusPamTssHmmV2	chr15	25365953	25365975	chr15:25365953:25365975:+:1.00:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366007	25366010	chr15:25366007:25366010:+:1.00:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366042	25366047	chr15:25366042:25366047:+:1.00:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366128	25366132	chr15:25366128:25366132:+:0.42:0.000001	+
Hepg2NucleusPamTssHmmV2	chr15	25366382	25366389	chr15:25366382:25366389:+:1.32:0.000254	+
Hepg2NucleusPamTssHmmV2	chr15	25366580	25366615	chr15:25366580:25366615:+:0.05:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366655	25366667	chr15:25366655:25366667:+:0.12:0.000136	+
Hepg2NucleusPamTssHmmV2	chr15	25366699	25366717	chr15:25366699:25366717:+:0.11:0.001013	+
Hepg2NucleusPamTssHmmV2	chr15	25366746	25366762	chr15:25366746:25366762:+:0.62:0.000158	+
Hepg2NucleusPamTssHmmV2	chr15	25366812	25366826	chr15:25366812:25366826:+:0.28:0.000004	+
Hepg2NucleusPamTssHmmV2	chr15	25366881	25366884	chr15:25366881:25366884:+:0.70:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366937	25366944	chr15:25366937:25366944:+:0.19:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25366982	25366990	chr15:25366982:25366990:+:0.13:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25367033	25367041	chr15:25367033:25367041:+:0.68:0.000000	+

Hepg2NucleusPamTssHmmV2	chr15	25367145	25367147	chr15:25367145:25367147:+:1.43:0.000018	+
Hepg2NucleusPamTssHmmV2	chr15	25367192	25367302	chr15:25367192:25367302:+:0.18:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25367376	25367411	chr15:25367376:25367411:+:0.24:0.000007	+
Hepg2NucleusPamTssHmmV2	chr15	25367435	25367447	chr15:25367435:25367447:+:0.40:0.000010	+
Hepg2NucleusPamTssHmmV2	chr15	25367469	25367475	chr15:25367469:25367475:+:0.07:0.000003	+
Hepg2NucleusPamTssHmmV2	chr15	25367516	25367520	chr15:25367516:25367520:+:0.59:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25367525	25367581	chr15:25367525:25367581:+:0.51:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25368625	25368762	chr15:25368625:25368762:+:0.19:0.000352	+
Hepg2NucleusPamTssHmmV2	chr15	25368810	25368847	chr15:25368810:25368847:+:0.06:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25369080	25369200	chr15:25369080:25369200:+:0.77:0.000017	+
Hepg2NucleusPamTssHmmV2	chr15	25369509	25369640	chr15:25369509:25369640:+:0.05:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25369893	25369915	chr15:25369893:25369915:+:1.03:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25370119	25370238	chr15:25370119:25370238:+:0.18:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25370364	25370366	chr15:25370364:25370366:+:3.12:0.000005	+
Hepg2NucleusPamTssHmmV2	chr15	25370424	25370516	chr15:25370424:25370516:+:0.12:0.000004	+
Hepg2NucleusPamTssHmmV2	chr15	25371364	25371388	chr15:25371364:25371388:+:1.27:0.000001	+
Hepg2NucleusPamTssHmmV2	chr15	25372454	25372486	chr15:25372454:25372486:+:0.16:0.000003	+
Hepg2NucleusPamTssHmmV2	chr15	25372573	25372585	chr15:25372573:25372585:+:1.47:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25373483	25373486	chr15:25373483:25373486:+:4.30:0.001508	+
Hepg2NucleusPamTssHmmV2	chr15	25373582	25373754	chr15:25373582:25373754:+:0.42:0.001228	+
Hepg2NucleusPamTssHmmV2	chr15	25373992	25374007	chr15:25373992:25374007:+:1.89:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25374323	25374354	chr15:25374323:25374354:+:0.44:0.000053	+
Hepg2NucleusPamTssHmmV2	chr15	25374413	25374455	chr15:25374413:25374455:+:0.51:0.000080	+
Hepg2NucleusPamTssHmmV2	chr15	25374516	25374675	chr15:25374516:25374675:+:0.32:0.000040	+
Hepg2NucleusPamTssHmmV2	chr15	25374972	25374980	chr15:25374972:25374980:+:1.46:0.000749	+
Hepg2NucleusPamTssHmmV2	chr15	25375087	25375122	chr15:25375087:25375122:+:0.14:0.002155	+
Hepg2NucleusPamTssHmmV2	chr15	25375432	25375461	chr15:25375432:25375461:+:0.35:0.000044	+
Hepg2NucleusPamTssHmmV2	chr15	25375612	25375729	chr15:25375612:25375729:+:0.02:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25375771	25375840	chr15:25375771:25375840:+:0.63:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25375992	25376113	chr15:25375992:25376113:+:0.16:0.000000	+

Hepg2NucleusPamTssHmmV2	chr15	25376206	25376265	chr15:25376206:25376265:+:0.40:0.000013	+
Hepg2NucleusPamTssHmmV2	chr15	25376299	25376348	chr15:25376299:25376348:+:0.03:0.000003	+
Hepg2NucleusPamTssHmmV2	chr15	25377027	25377118	chr15:25377027:25377118:+:0.03:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25377348	25377436	chr15:25377348:25377436:+:0.58:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25377629	25377736	chr15:25377629:25377736:+:1.22:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25381056	25381198	chr15:25381056:25381198:+:0.24:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25383706	25383718	chr15:25383706:25383718:+:2.28:0.000002	+
Hepg2NucleusPamTssHmmV2	chr15	25383985	25384100	chr15:25383985:25384100:+:0.14:0.000156	+
Hepg2NucleusPamTssHmmV2	chr15	25384414	25384553	chr15:25384414:25384553:+:0.38:0.000141	+
Hepg2NucleusPamTssHmmV2	chr15	25386593	25386676	chr15:25386593:25386676:+:0.08:0.000339	+
Hepg2NucleusPamTssHmmV2	chr15	25386847	25387032	chr15:25386847:25387032:+:0.58:0.000381	+
Hepg2NucleusPamTssHmmV2	chr15	25387885	25387951	chr15:25387885:25387951:+:0.11:0.000055	+
Hepg2NucleusPamTssHmmV2	chr15	25388952	25389002	chr15:25388952:25389002:+:0.71:0.000021	+
Hepg2NucleusPamTssHmmV2	chr15	25389266	25389326	chr15:25389266:25389326:+:0.56:0.012252	+
Hepg2NucleusPamTssHmmV2	chr15	25391302	25391365	chr15:25391302:25391365:+:0.41:0.000008	+
Hepg2NucleusPamTssHmmV2	chr15	25392307	25392494	chr15:25392307:25392494:+:0.11:0.000019	+
Hepg2NucleusPamTssHmmV2	chr15	25395303	25395435	chr15:25395303:25395435:+:0.02:0.000018	+
Hepg2NucleusPamTssHmmV2	chr15	25395877	25396061	chr15:25395877:25396061:+:0.18:0.000008	+
Hepg2NucleusPamTssHmmV2	chr15	25396383	25396552	chr15:25396383:25396552:+:0.49:0.000000	+
Hepg2NucleusPamTssHmmV2	chr15	25397595	25397730	chr15:25397595:25397730:+:0.60:0.006561	+
Hepg2NucleusPamTssHmmV2	chr15	25400951	25401103	chr15:25400951:25401103:+:0.50:0.000009	+
Hepg2NucleusPamTssHmmV2	chr15	25404221	25404409	chr15:25404221:25404409:+:0.28:0.000058	+
Hepg2NucleusPamTssHmmV2	chr15	25404761	25404846	chr15:25404761:25404846:+:1.83:0.001411	+
Hepg2NucleusPamTssHmmV2	chr15	25405658	25405820	chr15:25405658:25405820:+:0.58:0.000131	+
Hepg2NucleusPamTssHmmV2	chr15	25410304	25410471	chr15:25410304:25410471:+:0.65:0.000014	+
Hepg2NucleusPamTssHmmV2	chr15	25415761	25415873	chr15:25415761:25415873:+:0.94:0.861870	+
Hepg2NucleusPamTssHmmV2	chr15	25449912	25449914	chr15:25449912:25449914:+:6.47:0.035408	+
Hepg2NucleusPamTssHmmV2	chr15	25508496	25508621	chr15:25508496:25508621:+:1.98:0.000185	+
Hepg2NucleusPamTssHmmV2	chr15	25555305	25555467	chr15:25555305:25555467:+:0.23:0.000142	+
Hepg2NucleusPamTssHmmV2	chr15	25561281	25561421	chr15:25561281:25561421:+:0.09:0.000055	+

Hepg2NucleusPamTssHmmV2	chr15	25566468	25566550	chr15:25566468:25566550:+:0.20:0.000075	+
Hepg2NucleusPapTssHmm	chr15	25354371	25354510	chr15:25354371:25354510:+:0.05:0.000045	+
Hepg2NucleusPapTssHmm	chr15	25354707	25354824	chr15:25354707:25354824:+:0.69:0.000431	+
Hepg2NucleusPapTssHmm	chr15	25356851	25356983	chr15:25356851:25356983:+:0.33:0.000119	+
Hepg2NucleusPapTssHmm	chr15	25357813	25357822	chr15:25357813:25357822:+:2.11:0.000002	+
Hepg2NucleusPapTssHmm	chr15	25357919	25358048	chr15:25357919:25358048:+:0.04:0.000001	+
Hepg2NucleusPapTssHmm	chr15	25358770	25358831	chr15:25358770:25358831:+:1.67:0.000584	+
Hepg2NucleusPapTssHmm	chr15	25360797	25360855	chr15:25360797:25360855:+:0.19:0.000011	+
Hepg2NucleusPapTssHmm	chr15	25361451	25361516	chr15:25361451:25361516:+:0.33:0.000000	+
Hepg2NucleusPapTssHmm	chr15	25362117	25362315	chr15:25362117:25362315:+:0.26:0.050451	+
Hepg2NucleusPapTssHmm	chr15	25362613	25362741	chr15:25362613:25362741:+:0.12:0.001306	+
Hepg2NucleusPapTssHmm	chr15	25363315	25363365	chr15:25363315:25363365:+:0.03:0.000000	+
Hepg2NucleusPapTssHmm	chr15	25364742	25364802	chr15:25364742:25364802:+:0.32:0.000004	+
Hepg2NucleusPapTssHmm	chr15	25365315	25365440	chr15:25365315:25365440:+:0.13:0.000051	+
Hepg2NucleusPapTssHmm	chr15	25365521	25365568	chr15:25365521:25365568:+:0.10:0.000000	+
Hepg2NucleusPapTssHmm	chr15	25366812	25366826	chr15:25366812:25366826:+:0.28:0.000004	+
Hepg2NucleusPapTssHmm	chr15	25367145	25367147	chr15:25367145:25367147:+:1.43:0.000018	+
Hepg2NucleusPapTssHmm	chr15	25367192	25367302	chr15:25367192:25367302:+:0.18:0.000002	+
Hepg2NucleusPapTssHmm	chr15	25373582	25373754	chr15:25373582:25373754:+:0.42:0.001228	+
Hepg2NucleusPapTssHmm	chr15	25374413	25374455	chr15:25374413:25374455:+:0.51:0.000080	+
Hepg2NucleusPapTssHmm	chr15	25374516	25374675	chr15:25374516:25374675:+:0.32:0.000040	+
Hepg2NucleusPapTssHmm	chr15	25375992	25376113	chr15:25375992:25376113:+:0.16:0.000000	+
Hepg2NucleusPapTssHmm	chr15	25376206	25376265	chr15:25376206:25376265:+:0.40:0.000013	+
Hepg2NucleusPapTssHmm	chr15	25392307	25392494	chr15:25392307:25392494:+:0.11:0.000019	+
Hepg2NucleusPapTssHmm	chr15	25394026	25394180	chr15:25394026:25394180:+:1.01:0.456536	+
Hepg2NucleusPapTssHmm	chr15	25394827	25394964	chr15:25394827:25394964:+:0.66:0.000051	+
Hepg2NucleusPapTssHmm	chr15	25395303	25395435	chr15:25395303:25395435:+:0.02:0.000018	+
Hepg2NucleusPapTssHmm	chr15	25395877	25396061	chr15:25395877:25396061:+:0.18:0.000008	+
Hepg2NucleusPapTssHmm	chr15	25396383	25396552	chr15:25396383:25396552:+:0.49:0.000000	+
Hepg2NucleusPapTssHmm	chr15	25396746	25396843	chr15:25396746:25396843:+:0.54:0.000000	+

Hepg2NucleusPapTssHmm	chr15	25397595	25397730	chr15:25397595:25397730:+:0.60:0.006561	+
Hepg2NucleusPapTssHmm	chr15	25442722	25442725	chr15:25442722:25442725:+:8.53:0.000336	+
Hepg2NucleusPapTssHmm	chr15	25533732	25533900	chr15:25533732:25533900:+:0.08:0.000010	+
Hepg2NucleusPapTssHmm	chr15	25580366	25580510	chr15:25580366:25580510:+:0.07:0.001597	+
HmscucCellPapTssHmm	chr15	25361559	25361599	chr15:25361559:25361599:+:0.000000	+
HobCellPapTssHmm	chr15	25367146	25367340	chr15:25367146:25367340:+:0.000001	+
HuvecCellPapTssHmm	chr15	25356888	25357080	chr15:25356888:25357080:+:0.05:0.004797	+
HuvecCellPapTssHmm	chr15	25357465	25357644	chr15:25357465:25357644:+:0.03:0.000001	+
HuvecCellPapTssHmm	chr15	25357812	25358008	chr15:25357812:25358008:+:0.45:0.000001	+
HuvecCellPapTssHmm	chr15	25360731	25360804	chr15:25360731:25360804:+:0.30:0.710753	+
HuvecCellPapTssHmm	chr15	25362118	25362317	chr15:25362118:25362317:+:0.71:0.015835	+
HuvecCellPapTssHmm	chr15	25364739	25364768	chr15:25364739:25364768:+:0.21:0.000002	+
HuvecCellPapTssHmm	chr15	25364960	25365005	chr15:25364960:25365005:+:0.21:0.000000	+
HuvecCellPapTssHmm	chr15	25365221	25365382	chr15:25365221:25365382:+:0.10:0.000000	+
HuvecCellPapTssHmm	chr15	25367111	25367252	chr15:25367111:25367252:+:0.19:0.000001	+
HuvecCellPapTssHmm	chr15	25584222	25584381	chr15:25584222:25584381:+:1.53:0.000000	+
HuvecCytosolPamTssHmmV2	chr15	25354344	25354510	chr15:25354344:25354510:+:0.54:0.000092	+
HuvecCytosolPamTssHmmV2	chr15	25354697	25354863	chr15:25354697:25354863:+:0.29:0.000055	+
HuvecCytosolPamTssHmmV2	chr15	25357465	25357644	chr15:25357465:25357644:+:0.03:0.000001	+
HuvecCytosolPamTssHmmV2	chr15	25358780	25358833	chr15:25358780:25358833:+:0.97:0.001768	+
HuvecCytosolPamTssHmmV2	chr15	25360012	25360113	chr15:25360012:25360113:+:0.01:0.000434	+
HuvecCytosolPamTssHmmV2	chr15	25361464	25361602	chr15:25361464:25361602:+:0.13:0.000001	+
HuvecCytosolPamTssHmmV2	chr15	25362118	25362317	chr15:25362118:25362317:+:0.71:0.015835	+
HuvecCytosolPamTssHmmV2	chr15	25363349	25363365	chr15:25363349:25363365:+:2.76:0.000000	+
HuvecCytosolPamTssHmmV2	chr15	25364551	25364565	chr15:25364551:25364565:+:1.00:0.000000	+
HuvecCytosolPamTssHmmV2	chr15	25365221	25365382	chr15:25365221:25365382:+:0.10:0.000000	+
HuvecCytosolPamTssHmmV2	chr15	25365865	25365875	chr15:25365865:25365875:+:1.31:0.000040	+
HuvecCytosolPamTssHmmV2	chr15	25367111	25367252	chr15:25367111:25367252:+:0.19:0.000001	+
HuvecCytosolPamTssHmmV2	chr15	25367362	25367385	chr15:25367362:25367385:+:0.88:0.000008	+
HuvecCytosolPamTssHmmV2	chr15	25373728	25373812	chr15:25373728:25373812:+:0.18:0.001365	+

HuvecCytosolPamTssHmmV2	chr15	25376098	25376276	chr15:25376098:25376276:+:0.40:0.000000	+
HuvecCytosolPamTssHmmV2	chr15	25414340	25414464	chr15:25414340:25414464:+:0.15:0.000028	+
HuvecCytosolPamTssHmmV2	chr15	25584222	25584381	chr15:25584222:25584381:+:1.53:0.000000	+
HuvecCytosolPapTssHmm	chr15	25354344	25354510	chr15:25354344:25354510:+:0.54:0.000092	+
HuvecCytosolPapTssHmm	chr15	25354697	25354863	chr15:25354697:25354863:+:0.29:0.000055	+
HuvecCytosolPapTssHmm	chr15	25356888	25357080	chr15:25356888:25357080:+:0.05:0.004797	+
HuvecCytosolPapTssHmm	chr15	25364739	25364768	chr15:25364739:25364768:+:0.21:0.000002	+
HuvecCytosolPapTssHmm	chr15	25364814	25364845	chr15:25364814:25364845:+:0.12:0.000026	+
HuvecCytosolPapTssHmm	chr15	25364960	25365005	chr15:25364960:25365005:+:0.21:0.000000	+
HuvecCytosolPapTssHmm	chr15	25365221	25365382	chr15:25365221:25365382:+:0.10:0.000000	+
HuvecCytosolPapTssHmm	chr15	25365528	25365552	chr15:25365528:25365552:+:0.90:0.000000	+
HuvecCytosolPapTssHmm	chr15	25367111	25367252	chr15:25367111:25367252:+:0.19:0.000001	+
HuvecCytosolPapTssHmm	chr15	25414340	25414464	chr15:25414340:25414464:+:0.15:0.000028	+
HuvecCytosolPapTssHmm	chr15	25584222	25584381	chr15:25584222:25584381:+:1.53:0.000000	+
HuvecNucleusPamTssHmm	chr15	25365865	25366047	chr15:25365865:25366047:+:0.000002	+
HuvecNucleusPapTssHmm	chr15	25354344	25354510	chr15:25354344:25354510:+:0.54:0.000092	+
HuvecNucleusPapTssHmm	chr15	25354697	25354863	chr15:25354697:25354863:+:0.29:0.000055	+
HuvecNucleusPapTssHmm	chr15	25356888	25357080	chr15:25356888:25357080:+:0.05:0.004797	+
HuvecNucleusPapTssHmm	chr15	25357465	25357644	chr15:25357465:25357644:+:0.03:0.000001	+
HuvecNucleusPapTssHmm	chr15	25357812	25358008	chr15:25357812:25358008:+:0.45:0.000001	+
HuvecNucleusPapTssHmm	chr15	25358780	25358833	chr15:25358780:25358833:+:0.97:0.001768	+
HuvecNucleusPapTssHmm	chr15	25358970	25359003	chr15:25358970:25359003:+:1.24:0.003376	+
HuvecNucleusPapTssHmm	chr15	25360012	25360113	chr15:25360012:25360113:+:0.01:0.000434	+
HuvecNucleusPapTssHmm	chr15	25360731	25360804	chr15:25360731:25360804:+:0.30:0.710753	+
HuvecNucleusPapTssHmm	chr15	25361464	25361602	chr15:25361464:25361602:+:0.13:0.000001	+
HuvecNucleusPapTssHmm	chr15	25362118	25362317	chr15:25362118:25362317:+:0.71:0.015835	+
HuvecNucleusPapTssHmm	chr15	25363349	25363365	chr15:25363349:25363365:+:2.76:0.000000	+
HuvecNucleusPapTssHmm	chr15	25364244	25364307	chr15:25364244:25364307:+:0.20:0.003825	+
HuvecNucleusPapTssHmm	chr15	25364377	25364419	chr15:25364377:25364419:+:0.60:0.000046	+
HuvecNucleusPapTssHmm	chr15	25364551	25364565	chr15:25364551:25364565:+:1.00:0.000000	+

HuvecNucleusPapTssHmm	chr15	25364739	25364768	chr15:25364739:25364768:+:0.21:0.000002	+
HuvecNucleusPapTssHmm	chr15	25364814	25364845	chr15:25364814:25364845:+:0.12:0.000026	+
HuvecNucleusPapTssHmm	chr15	25364960	25365005	chr15:25364960:25365005:+:0.21:0.000000	+
HuvecNucleusPapTssHmm	chr15	25365143	25365154	chr15:25365143:25365154:+:0.21:0.000001	+
HuvecNucleusPapTssHmm	chr15	25365221	25365382	chr15:25365221:25365382:+:0.10:0.000000	+
HuvecNucleusPapTssHmm	chr15	25365528	25365552	chr15:25365528:25365552:+:0.90:0.000000	+
HuvecNucleusPapTssHmm	chr15	25365865	25365875	chr15:25365865:25365875:+:1.31:0.000040	+
HuvecNucleusPapTssHmm	chr15	25367111	25367252	chr15:25367111:25367252:+:0.19:0.000001	+
HuvecNucleusPapTssHmm	chr15	25367362	25367385	chr15:25367362:25367385:+:0.88:0.000008	+
HuvecNucleusPapTssHmm	chr15	25367517	25367592	chr15:25367517:25367592:+:0.11:0.000001	+
HuvecNucleusPapTssHmm	chr15	25370386	25370478	chr15:25370386:25370478:+:0.23:0.000001	+
HuvecNucleusPapTssHmm	chr15	25373728	25373812	chr15:25373728:25373812:+:0.18:0.001365	+
HuvecNucleusPapTssHmm	chr15	25374114	25374212	chr15:25374114:25374212:+:0.13:0.000125	+
HuvecNucleusPapTssHmm	chr15	25374602	25374690	chr15:25374602:25374690:+:0.34:0.001359	+
HuvecNucleusPapTssHmm	chr15	25376098	25376276	chr15:25376098:25376276:+:0.40:0.000000	+
Imr90CellPapTssHmm	chr15	25356933	25356953	chr15:25356933:25356953:+:0.000027	+
Imr90CellPapTssHmm	chr15	25362131	25362175	chr15:25362131:25362175:+:0.000095	+
Imr90CellPapTssHmm	chr15	25364408	25364417	chr15:25364408:25364417:+:0.001538	+
Imr90CellPapTssHmm	chr15	25364745	25364766	chr15:25364745:25364766:+:0.000031	+
Imr90CellPapTssHmm	chr15	25365326	25365366	chr15:25365326:25365366:+:0.000003	+
Imr90CellPapTssHmm	chr15	25367232	25367234	chr15:25367232:25367234:+:0.000000	+
Imr90CellPapTssHmm	chr15	25414339	25414341	chr15:25414339:25414341:+:0.000010	+
Imr90CellPapTssHmm	chr15	25584304	25584381	chr15:25584304:25584381:+:0.000010	+
Imr90CellPapTssHmm	chr15	25585230	25585270	chr15:25585230:25585270:+:0.000144	+
Imr90CytosolPapTssHmm	chr15	25354765	25354824	chr15:25354765:25354824:+:0.015163	+
Imr90CytosolPapTssHmm	chr15	25364408	25364417	chr15:25364408:25364417:+:0.001538	+
Imr90CytosolPapTssHmm	chr15	25364745	25364766	chr15:25364745:25364766:+:0.000031	+
Imr90CytosolPapTssHmm	chr15	25365326	25365366	chr15:25365326:25365366:+:0.000003	+
Imr90CytosolPapTssHmm	chr15	25365526	25365531	chr15:25365526:25365531:+:0.000000	+
Imr90CytosolPapTssHmm	chr15	25414339	25414341	chr15:25414339:25414341:+:0.000010	+

Imr90CytosolPapTssHmm	chr15	25584304	25584381	chr15:25584304:25584381:+:0.000010	+
Imr90CytosolPapTssHmm	chr15	25585230	25585270	chr15:25585230:25585270:+:0.000144	+
Imr90NucleusPapTssHmm	chr15	25354395	25354413	chr15:25354395:25354413:+:0.000006	+
Imr90NucleusPapTssHmm	chr15	25354765	25354824	chr15:25354765:25354824:+:0.015163	+
Imr90NucleusPapTssHmm	chr15	25358791	25358839	chr15:25358791:25358839:+:0.000015	+
Imr90NucleusPapTssHmm	chr15	25360595	25360597	chr15:25360595:25360597:+:0.000004	+
Imr90NucleusPapTssHmm	chr15	25361559	25361563	chr15:25361559:25361563:+:0.000001	+
Imr90NucleusPapTssHmm	chr15	25361738	25361754	chr15:25361738:25361754:+:0.000000	+
Imr90NucleusPapTssHmm	chr15	25362131	25362175	chr15:25362131:25362175:+:0.000095	+
Imr90NucleusPapTssHmm	chr15	25362198	25362207	chr15:25362198:25362207:+:0.000028	+
Imr90NucleusPapTssHmm	chr15	25362261	25362271	chr15:25362261:25362271:+:0.000000	+
Imr90NucleusPapTssHmm	chr15	25364408	25364417	chr15:25364408:25364417:+:0.001538	+
Imr90NucleusPapTssHmm	chr15	25364745	25364766	chr15:25364745:25364766:+:0.000031	+
Imr90NucleusPapTssHmm	chr15	25365326	25365366	chr15:25365326:25365366:+:0.000003	+
Imr90NucleusPapTssHmm	chr15	25365526	25365531	chr15:25365526:25365531:+:0.000000	+
Imr90NucleusPapTssHmm	chr15	25366813	25366819	chr15:25366813:25366819:+:0.000004	+
Imr90NucleusPapTssHmm	chr15	25367145	25367148	chr15:25367145:25367148:+:0.000000	+
Imr90NucleusPapTssHmm	chr15	25367232	25367234	chr15:25367232:25367234:+:0.000000	+
Imr90NucleusPapTssHmm	chr15	25373243	25373264	chr15:25373243:25373264:+:0.000006	+
Imr90NucleusPapTssHmm	chr15	25414339	25414341	chr15:25414339:25414341:+:0.000010	+
Imr90NucleusPapTssHmm	chr15	25585230	25585270	chr15:25585230:25585270:+:0.000144	+
K562CellPapTssHmm	chr15	25584292	25584378	chr15:25584292:25584378:+:2.20:0.000002	+
Monocd14CellPapTssHmm	chr15	25584145	25584323	chr15:25584145:25584323:+:0.000000	+
NhekCellPapTssHmm	chr15	25357792	25357967	chr15:25357792:25357967:+:0.24:0.000002	+
NhekCellPapTssHmm	chr15	25362084	25362239	chr15:25362084:25362239:+:0.60:0.001612	+
NhekCellPapTssHmm	chr15	25364551	25364618	chr15:25364551:25364618:+:0.28:0.000000	+
NhekCellPapTssHmm	chr15	25365321	25365339	chr15:25365321:25365339:+:0.07:0.000059	+
NhekCellPapTssHmm	chr15	25365511	25365556	chr15:25365511:25365556:+:0.56:0.000003	+
NhekCytosolPamTssHmmV2	chr15	25354342	25354519	chr15:25354342:25354519:+:1.07:0.000061	+
NhekCytosolPamTssHmmV2	chr15	25359087	25359217	chr15:25359087:25359217:+:0.10:0.000003	+

NhekCytosolPamTssHmmV2	chr15	25583483	25583627	chr15:25583483:25583627:+:0.12:0.000847	+
NhekCytosolPamTssHmmV2	chr15	25584319	25584381	chr15:25584319:25584381:+:0.68:0.000502	+
NhekCytosolPapTssHmm	chr15	25354342	25354519	chr15:25354342:25354519:+:1.07:0.000061	+
NhekCytosolPapTssHmm	chr15	25364551	25364618	chr15:25364551:25364618:+:0.28:0.000000	+
NhekCytosolPapTssHmm	chr15	25364739	25364781	chr15:25364739:25364781:+:0.18:0.000002	+
NhekCytosolPapTssHmm	chr15	25364964	25364978	chr15:25364964:25364978:+:1.72:0.000000	+
NhekCytosolPapTssHmm	chr15	25365321	25365339	chr15:25365321:25365339:+:0.07:0.000059	+
NhekNucleusPamTssHmmV2	chr15	25354342	25354519	chr15:25354342:25354519:+:1.07:0.000061	+
NhekNucleusPamTssHmmV2	chr15	25354708	25354864	chr15:25354708:25354864:+:0.07:0.000215	+
NhekNucleusPamTssHmmV2	chr15	25356875	25357065	chr15:25356875:25357065:+:0.12:0.011728	+
NhekNucleusPamTssHmmV2	chr15	25357467	25357613	chr15:25357467:25357613:+:0.12:0.000001	+
NhekNucleusPamTssHmmV2	chr15	25357792	25357967	chr15:25357792:25357967:+:0.24:0.000002	+
NhekNucleusPamTssHmmV2	chr15	25359087	25359217	chr15:25359087:25359217:+:0.10:0.000003	+
NhekNucleusPamTssHmmV2	chr15	25360767	25360914	chr15:25360767:25360914:+:0.16:0.004658	+
NhekNucleusPamTssHmmV2	chr15	25361406	25361599	chr15:25361406:25361599:+:0.24:0.000000	+
NhekNucleusPamTssHmmV2	chr15	25362084	25362239	chr15:25362084:25362239:+:0.60:0.001612	+
NhekNucleusPamTssHmmV2	chr15	25363334	25363365	chr15:25363334:25363365:+:0.86:0.000000	+
NhekNucleusPamTssHmmV2	chr15	25364551	25364618	chr15:25364551:25364618:+:0.28:0.000000	+
NhekNucleusPamTssHmmV2	chr15	25364739	25364781	chr15:25364739:25364781:+:0.18:0.000002	+
NhekNucleusPamTssHmmV2	chr15	25364964	25364978	chr15:25364964:25364978:+:1.72:0.000000	+
NhekNucleusPamTssHmmV2	chr15	25365321	25365339	chr15:25365321:25365339:+:0.07:0.000059	+
NhekNucleusPamTssHmmV2	chr15	25365511	25365556	chr15:25365511:25365556:+:0.56:0.000003	+
NhekNucleusPamTssHmmV2	chr15	25366363	25366438	chr15:25366363:25366438:+:0.47:0.000022	+
NhekNucleusPamTssHmmV2	chr15	25367145	25367243	chr15:25367145:25367243:+:0.50:0.000018	+
NhekNucleusPamTssHmmV2	chr15	25370363	25370559	chr15:25370363:25370559:+:0.74:0.000022	+
NhekNucleusPamTssHmmV2	chr15	25374549	25374712	chr15:25374549:25374712:+:0.33:0.004127	+
NhekNucleusPamTssHmmV2	chr15	25376098	25376286	chr15:25376098:25376286:+:1.68:0.000000	+
NhekNucleusPamTssHmmV2	chr15	25583483	25583627	chr15:25583483:25583627:+:0.12:0.000847	+
NhekNucleusPamTssHmmV2	chr15	25584319	25584381	chr15:25584319:25584381:+:0.68:0.000502	+
NhekNucleusPapTssHmmV2	chr15	25354342	25354519	chr15:25354342:25354519:+:1.07:0.000061	+

NhekNucleusPapTssHmmV2	chr15	25354708	25354864	chr15:25354708:25354864:+:0.07:0.000215	+
NhekNucleusPapTssHmmV2	chr15	25356875	25357065	chr15:25356875:25357065:+:0.12:0.011728	+
NhekNucleusPapTssHmmV2	chr15	25357467	25357613	chr15:25357467:25357613:+:0.12:0.000001	+
NhekNucleusPapTssHmmV2	chr15	25357792	25357967	chr15:25357792:25357967:+:0.24:0.000002	+
NhekNucleusPapTssHmmV2	chr15	25359087	25359217	chr15:25359087:25359217:+:0.10:0.000003	+
NhekNucleusPapTssHmmV2	chr15	25360767	25360914	chr15:25360767:25360914:+:0.16:0.004658	+
NhekNucleusPapTssHmmV2	chr15	25361406	25361599	chr15:25361406:25361599:+:0.24:0.000000	+
NhekNucleusPapTssHmmV2	chr15	25362084	25362239	chr15:25362084:25362239:+:0.60:0.001612	+
NhekNucleusPapTssHmmV2	chr15	25363334	25363365	chr15:25363334:25363365:+:0.86:0.000000	+
NhekNucleusPapTssHmmV2	chr15	25364551	25364618	chr15:25364551:25364618:+:0.28:0.000000	+
NhekNucleusPapTssHmmV2	chr15	25364739	25364781	chr15:25364739:25364781:+:0.18:0.000002	+
NhekNucleusPapTssHmmV2	chr15	25364964	25364978	chr15:25364964:25364978:+:1.72:0.000000	+
NhekNucleusPapTssHmmV2	chr15	25365210	25365259	chr15:25365210:25365259:+:0.07:0.000001	+
NhekNucleusPapTssHmmV2	chr15	25365321	25365339	chr15:25365321:25365339:+:0.07:0.000059	+
NhekNucleusPapTssHmmV2	chr15	25365511	25365556	chr15:25365511:25365556:+:0.56:0.000003	+
NhekNucleusPapTssHmmV2	chr15	25366363	25366438	chr15:25366363:25366438:+:0.47:0.000022	+
NhekNucleusPapTssHmmV2	chr15	25367145	25367243	chr15:25367145:25367243:+:0.50:0.000018	+
NhekNucleusPapTssHmmV2	chr15	25370363	25370559	chr15:25370363:25370559:+:0.74:0.000022	+
NhekNucleusPapTssHmmV2	chr15	25374549	25374712	chr15:25374549:25374712:+:0.33:0.004127	+
NhekNucleusPapTssHmmV2	chr15	25376098	25376286	chr15:25376098:25376286:+:1.68:0.000000	+
NhekNucleusPapTssHmmV2	chr15	25414258	25414415	chr15:25414258:25414415:+:0.45:0.000004	+
NhekNucleusPapTssHmmV2	chr15	25583483	25583627	chr15:25583483:25583627:+:0.12:0.000847	+
NhekNucleusPapTssHmmV2	chr15	25584319	25584381	chr15:25584319:25584381:+:0.68:0.000502	+
NhekNucleusPapTssHmmV3	chr15	25365327	25365338	chr15:25365327:25365338:+:0.000000	+
Nhemm2CellPapTssHmm	chr15	25365326	25365338	chr15:25365326:25365338:+:0.000002	+
SkmcCellPapTssHmm	chr15	25365328	25365383	chr15:25365328:25365383:+:0.000000	+
SknshCellPapTssHmm	chr15	25360594	25360597	chr15:25360594:25360597:+:0.000004	+
SknshCellPapTssHmm	chr15	25361558	25361562	chr15:25361558:25361562:+:0.000001	+
SknshCellPapTssHmm	chr15	25362120	25362271	chr15:25362120:25362271:+:0.000000	+
SknshCellPapTssHmm	chr15	25364742	25364766	chr15:25364742:25364766:+:0.000016	+

SknshCellPapTssHmm	chr15	25365054	25365058	chr15:25365054:25365058:+:0.000000	+
SknshCellPapTssHmm	chr15	25365326	25365338	chr15:25365326:25365338:+:0.000012	+
SknshCellPapTssHmm	chr15	25365362	25365365	chr15:25365362:25365365:+:0.000001	+
SknshCellPapTssHmm	chr15	25365865	25365869	chr15:25365865:25365869:+:0.000001	+
SknshCellPapTssHmm	chr15	25365910	25365917	chr15:25365910:25365917:+:0.000000	+
SknshCellPapTssHmm	chr15	25365962	25365976	chr15:25365962:25365976:+:0.000000	+
SknshCellPapTssHmm	chr15	25366423	25366438	chr15:25366423:25366438:+:0.000015	+
SknshCellPapTssHmm	chr15	25366813	25366819	chr15:25366813:25366819:+:0.000007	+
SknshCellPapTssHmm	chr15	25367140	25367248	chr15:25367140:25367248:+:0.000000	+
SknshCellPapTssHmm	chr15	25582948	25582959	chr15:25582948:25582959:+:0.000015	+
SknshCytosolPapTssHmm	chr15	25364742	25364766	chr15:25364742:25364766:+:0.000016	+
SknshCytosolPapTssHmm	chr15	25365326	25365338	chr15:25365326:25365338:+:0.000012	+
SknshCytosolPapTssHmm	chr15	25365865	25365869	chr15:25365865:25365869:+:0.000001	+
SknshCytosolPapTssHmm	chr15	25367140	25367248	chr15:25367140:25367248:+:0.000000	+
SknshCytosolPapTssHmm	chr15	25583510	25583571	chr15:25583510:25583571:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25354768	25354771	chr15:25354768:25354771:+:0.002045	+
SknshNucleusPapTssHmm	chr15	25360594	25360597	chr15:25360594:25360597:+:0.000004	+
SknshNucleusPapTssHmm	chr15	25360766	25360804	chr15:25360766:25360804:+:0.003970	+
SknshNucleusPapTssHmm	chr15	25361262	25361279	chr15:25361262:25361279:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25361558	25361562	chr15:25361558:25361562:+:0.000001	+
SknshNucleusPapTssHmm	chr15	25361738	25361754	chr15:25361738:25361754:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25361799	25361804	chr15:25361799:25361804:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25361977	25361979	chr15:25361977:25361979:+:0.000029	+
SknshNucleusPapTssHmm	chr15	25362052	25362059	chr15:25362052:25362059:+:0.000034	+
SknshNucleusPapTssHmm	chr15	25362120	25362271	chr15:25362120:25362271:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25364742	25364766	chr15:25364742:25364766:+:0.000016	+
SknshNucleusPapTssHmm	chr15	25365054	25365058	chr15:25365054:25365058:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25365143	25365145	chr15:25365143:25365145:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25365176	25365178	chr15:25365176:25365178:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25365326	25365338	chr15:25365326:25365338:+:0.000012	+

SknshNucleusPapTssHmm	chr15	25365362	25365365	chr15:25365362:25365365:+:0.000001	+
SknshNucleusPapTssHmm	chr15	25365380	25365383	chr15:25365380:25365383:+:0.000002	+
SknshNucleusPapTssHmm	chr15	25365865	25365869	chr15:25365865:25365869:+:0.000001	+
SknshNucleusPapTssHmm	chr15	25365910	25365917	chr15:25365910:25365917:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25365962	25365976	chr15:25365962:25365976:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25366043	25366049	chr15:25366043:25366049:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25366423	25366438	chr15:25366423:25366438:+:0.000015	+
SknshNucleusPapTssHmm	chr15	25366654	25366659	chr15:25366654:25366659:+:0.000002	+
SknshNucleusPapTssHmm	chr15	25366813	25366819	chr15:25366813:25366819:+:0.000007	+
SknshNucleusPapTssHmm	chr15	25366984	25366986	chr15:25366984:25366986:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25367094	25367098	chr15:25367094:25367098:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25367113	25367116	chr15:25367113:25367116:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25367140	25367248	chr15:25367140:25367248:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25367363	25367381	chr15:25367363:25367381:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25369912	25369951	chr15:25369912:25369951:+:0.000003	+
SknshNucleusPapTssHmm	chr15	25370345	25370373	chr15:25370345:25370373:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25370680	25370685	chr15:25370680:25370685:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25370752	25370756	chr15:25370752:25370756:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25371008	25371047	chr15:25371008:25371047:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25373748	25373812	chr15:25373748:25373812:+:0.018829	+
SknshNucleusPapTssHmm	chr15	25374351	25374360	chr15:25374351:25374360:+:0.000007	+
SknshNucleusPapTssHmm	chr15	25374648	25374674	chr15:25374648:25374674:+:0.000000	+
SknshNucleusPapTssHmm	chr15	25375090	25375092	chr15:25375090:25375092:+:0.000083	+
SknshNucleusPapTssHmm	chr15	25390055	25390059	chr15:25390055:25390059:+:0.000003	+
SknshNucleusPapTssHmm	chr15	25582948	25582959	chr15:25582948:25582959:+:0.000015	+
SknshNucleusPapTssHmm	chr15	25583510	25583571	chr15:25583510:25583571:+:0.000000	+
SknshraCellPapTssHmm	chr15	25357891	25357997	chr15:25357891:25357997:+:0.38:0.000000	+

Table S3. Transcription start site (TSS) tags mapping to U-UBE3A-ATS transcript in *cis*-antisense orientation

cell line/cellular compartments	Chr	start	stop	Name	Orientation
A549CytosolPapTssHmm	chr15	25414365	25414566	chr15:25414365:25414566:-:0.000136	-
A549CytosolPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
A549CytosolPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
A549CytosolPapTssHmm	chr15	25582419	25582423	chr15:25582419:25582423:-:0.000008	-
A549CytosolPapTssHmm	chr15	25582742	25582746	chr15:25582742:25582746:-:0.000000	-
A549CytosolPapTssHmm	chr15	25583007	25583014	chr15:25583007:25583014:-:0.000000	-
A549CytosolPapTssHmm	chr15	25583447	25583449	chr15:25583447:25583449:-:0.000000	-
A549CytosolPapTssHmm	chr15	25583491	25583499	chr15:25583491:25583499:-:0.000000	-
A549CytosolPapTssHmm	chr15	25583788	25583798	chr15:25583788:25583798:-:0.000004	-
A549CytosolPapTssHmm	chr15	25583986	25583990	chr15:25583986:25583990:-:0.000000	-
A549CytosolPapTssHmm	chr15	25584093	25584211	chr15:25584093:25584211:-:0.000000	-
A549CytosolPapTssHmm	chr15	25584317	25584321	chr15:25584317:25584321:-:0.000000	-
A549CytosolPapTssHmm	chr15	25584403	25584405	chr15:25584403:25584405:-:0.000000	-
A549CytosolPapTssHmm	chr15	25585270	25585379	chr15:25585270:25585379:-:0.000000	-
A549NucleusPapTssHmm	chr15	25414365	25414566	chr15:25414365:25414566:-:0.000136	-
A549NucleusPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
A549NucleusPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
A549NucleusPapTssHmm	chr15	25564391	25564496	chr15:25564391:25564496:-:0.000000	-
A549NucleusPapTssHmm	chr15	25572332	25572490	chr15:25572332:25572490:-:0.000198	-
A549NucleusPapTssHmm	chr15	25579030	25579039	chr15:25579030:25579039:-:0.000000	-
A549NucleusPapTssHmm	chr15	25582419	25582423	chr15:25582419:25582423:-:0.000008	-
A549NucleusPapTssHmm	chr15	25582742	25582746	chr15:25582742:25582746:-:0.000000	-
A549NucleusPapTssHmm	chr15	25583447	25583449	chr15:25583447:25583449:-:0.000000	-
A549NucleusPapTssHmm	chr15	25583491	25583499	chr15:25583491:25583499:-:0.000000	-
A549NucleusPapTssHmm	chr15	25583788	25583798	chr15:25583788:25583798:-:0.000004	-
A549NucleusPapTssHmm	chr15	25583986	25583990	chr15:25583986:25583990:-:0.000000	-
A549NucleusPapTssHmm	chr15	25584093	25584211	chr15:25584093:25584211:-:0.000000	-

A549NucleusPapTssHmm	chr15	25584317	25584321	chr15:25584317:25584321:-:0.000000	-
A549NucleusPapTssHmm	chr15	25584403	25584405	chr15:25584403:25584405:-:0.000000	-
A549NucleusPapTssHmm	chr15	25585270	25585379	chr15:25585270:25585379:-:0.000000	-
A549NucleusPapTssHmm	chr15	25587934	25587953	chr15:25587934:25587953:-:0.000234	-
Ag04450CellPapTssHmm	chr15	25578923	25579039	chr15:25578923:25579039:-:0.48:0.000000	-
Ag04450CellPapTssHmm	chr15	25582743	25582748	chr15:25582743:25582748:-:3.97:0.000006	-
Ag04450CellPapTssHmm	chr15	25583988	25583999	chr15:25583988:25583999:-:1.72:0.000003	-
Ag04450CellPapTssHmm	chr15	25584093	25584255	chr15:25584093:25584255:-:0.64:0.000000	-
Ag04450CellPapTssHmm	chr15	25584312	25584405	chr15:25584312:25584405:-:0.05:0.000015	-
Ag04450CellPapTssHmm	chr15	25585266	25585378	chr15:25585266:25585378:-:1.13:0.000062	-
BjCellPapTssHmm	chr15	25583790	25583888	chr15:25583790:25583888:-:0.23:0.000021	-
BjCellPapTssHmm	chr15	25584095	25584254	chr15:25584095:25584254:-:0.82:0.000000	-
BjCellPapTssHmm	chr15	25585266	25585377	chr15:25585266:25585377:-:0.76:0.000103	-
Cd20CellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
Cd20CellPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000001	-
Cd20CellPapTssHmm	chr15	25582740	25582777	chr15:25582740:25582777:-:0.000000	-
Cd20CellPapTssHmm	chr15	25583446	25583501	chr15:25583446:25583501:-:0.000042	-
Cd20CellPapTssHmm	chr15	25583790	25583795	chr15:25583790:25583795:-:0.000003	-
Cd20CellPapTssHmm	chr15	25583987	25583997	chr15:25583987:25583997:-:0.000001	-
Cd20CellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
Cd20CellPapTssHmm	chr15	25584161	25584163	chr15:25584161:25584163:-:0.000001	-
Cd20CellPapTssHmm	chr15	25584186	25584188	chr15:25584186:25584188:-:0.000007	-
Cd20CellPapTssHmm	chr15	25584246	25584251	chr15:25584246:25584251:-:0.000292	-
Cd20CellPapTssHmm	chr15	25584291	25584293	chr15:25584291:25584293:-:0.000004	-
Cd20CellPapTssHmm	chr15	25585280	25585378	chr15:25585280:25585378:-:0.000046	-
Cd34mobilizedCellPapTssHmm	chr15	25414365	25414566	chr15:25414365:25414566:-:0.000012	-
Cd34mobilizedCellPapTssHmm	chr15	25582421	25582423	chr15:25582421:25582423:-:0.000012	-
Cd34mobilizedCellPapTssHmm	chr15	25583988	25583993	chr15:25583988:25583993:-:0.000000	-
Cd34mobilizedCellPapTssHmm	chr15	25584094	25584209	chr15:25584094:25584209:-:0.000115	-
Cd34mobilizedCellPapTssHmm	chr15	25585266	25585374	chr15:25585266:25585374:-:0.000006	-

Gm12878CellPapTssHmm	chr15	25550016	25550091	chr15:25550016:25550091:-:2.09:0.000006	-
Gm12878CellPapTssHmm	chr15	25565957	25566014	chr15:25565957:25566014:-:0.19:0.001873	-
Gm12878CellPapTssHmm	chr15	25578215	25578411	chr15:25578215:25578411:-:0.45:0.000023	-
Gm12878CellPapTssHmm	chr15	25579033	25579040	chr15:25579033:25579040:-:2.32:0.000000	-
Gm12878CellPapTssHmm	chr15	25579547	25579578	chr15:25579547:25579578:-:0.07:0.000002	-
Gm12878CellPapTssHmm	chr15	25579778	25579788	chr15:25579778:25579788:-:0.81:0.000001	-
Gm12878CellPapTssHmm	chr15	25582419	25582446	chr15:25582419:25582446:-:0.83:0.000225	-
Gm12878CellPapTssHmm	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878CellPapTssHmm	chr15	25582973	25582989	chr15:25582973:25582989:-:0.42:0.000000	-
Gm12878CellPapTssHmm	chr15	25583351	25583357	chr15:25583351:25583357:-:0.64:0.000006	-
Gm12878CellPapTssHmm	chr15	25583442	25583503	chr15:25583442:25583503:-:0.87:0.000084	-
Gm12878CellPapTssHmm	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878CellPapTssHmm	chr15	25583988	25583995	chr15:25583988:25583995:-:0.93:0.000001	-
Gm12878CellPapTssHmm	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878CellPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.26:0.000000	-
Gm12878CellPapTssHmm	chr15	25584291	25584337	chr15:25584291:25584337:-:0.26:0.000030	-
Gm12878CellPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:2.89:0.000012	-
Gm12878CellPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:0.43:0.000103	-
Gm12878CellPapTssHmm	chr15	25590133	25590192	chr15:25590133:25590192:-:0.39:0.000001	-
Gm12878CytosolPamTssHmm	chr15	25565957	25566014	chr15:25565957:25566014:-:0.19:0.001873	-
Gm12878CytosolPamTssHmm	chr15	25568528	25568710	chr15:25568528:25568710:-:0.86:0.021117	-
Gm12878CytosolPamTssHmm	chr15	25572221	25572388	chr15:25572221:25572388:-:1.17:0.000243	-
Gm12878CytosolPamTssHmm	chr15	25579383	25579393	chr15:25579383:25579393:-:1.96:0.000000	-
Gm12878CytosolPamTssHmm	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878CytosolPamTssHmm	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878CytosolPamTssHmm	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878CytosolPamTssHmm	chr15	25587703	25587715	chr15:25587703:25587715:-:0.14:0.000007	-
Gm12878CytosolPamTssHmm	chr15	25588545	25588618	chr15:25588545:25588618:-:0.27:0.000001	-
Gm12878CytosolPamTssHmm	chr15	25590442	25590553	chr15:25590442:25590553:-:0.18:0.000198	-
Gm12878CytosolPamTssHmmV2	chr15	25565957	25566014	chr15:25565957:25566014:-:0.19:0.001873	-

Gm12878CytosolPamTssHmmV2	chr15	25568528	25568710	chr15:25568528:25568710:-:0.86:0.021117	-
Gm12878CytosolPamTssHmmV2	chr15	25572221	25572388	chr15:25572221:25572388:-:1.17:0.000243	-
Gm12878CytosolPamTssHmmV2	chr15	25579383	25579393	chr15:25579383:25579393:-:1.96:0.000000	-
Gm12878CytosolPamTssHmmV2	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878CytosolPamTssHmmV2	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878CytosolPamTssHmmV2	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878CytosolPamTssHmmV2	chr15	25587703	25587715	chr15:25587703:25587715:-:0.14:0.000007	-
Gm12878CytosolPamTssHmmV2	chr15	25588545	25588618	chr15:25588545:25588618:-:0.27:0.000001	-
Gm12878CytosolPamTssHmmV2	chr15	25590442	25590553	chr15:25590442:25590553:-:0.18:0.000198	-
Gm12878CytosolPapTssHmm	chr15	25550016	25550091	chr15:25550016:25550091:-:2.09:0.000006	-
Gm12878CytosolPapTssHmm	chr15	25579033	25579040	chr15:25579033:25579040:-:2.32:0.000000	-
Gm12878CytosolPapTssHmm	chr15	25579547	25579578	chr15:25579547:25579578:-:0.07:0.000002	-
Gm12878CytosolPapTssHmm	chr15	25579778	25579788	chr15:25579778:25579788:-:0.81:0.000001	-
Gm12878CytosolPapTssHmm	chr15	25581024	25581048	chr15:25581024:25581048:-:1.18:0.000146	-
Gm12878CytosolPapTssHmm	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878CytosolPapTssHmm	chr15	25583442	25583503	chr15:25583442:25583503:-:0.87:0.000084	-
Gm12878CytosolPapTssHmm	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878CytosolPapTssHmm	chr15	25583988	25583995	chr15:25583988:25583995:-:0.93:0.000001	-
Gm12878CytosolPapTssHmm	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878CytosolPapTssHmm	chr15	25584291	25584337	chr15:25584291:25584337:-:0.26:0.000030	-
Gm12878CytosolPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:2.89:0.000012	-
Gm12878CytosolPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:0.43:0.000103	-
Gm12878NucleolusTotalTssHmmV2	chr15	25564396	25564558	chr15:25564396:25564558:-:0.37:0.000042	-
Gm12878NucleolusTotalTssHmmV2	chr15	25565957	25566014	chr15:25565957:25566014:-:0.19:0.001873	-
Gm12878NucleolusTotalTssHmmV2	chr15	25568528	25568710	chr15:25568528:25568710:-:0.86:0.021117	-
Gm12878NucleolusTotalTssHmmV2	chr15	25572221	25572388	chr15:25572221:25572388:-:1.17:0.000243	-
Gm12878NucleolusTotalTssHmmV2	chr15	25577708	25577710	chr15:25577708:25577710:-:5.03:0.000219	-
Gm12878NucleolusTotalTssHmmV2	chr15	25578215	25578411	chr15:25578215:25578411:-:0.45:0.000023	-
Gm12878NucleolusTotalTssHmmV2	chr15	25578552	25578696	chr15:25578552:25578696:-:0.14:0.000271	-
Gm12878NucleolusTotalTssHmmV2	chr15	25579383	25579393	chr15:25579383:25579393:-:1.96:0.000000	-

Gm12878NucleolusTotalTssHmmV2	chr15	25579547	25579578	chr15:25579547:25579578:-:0.07:0.000002	-
Gm12878NucleolusTotalTssHmmV2	chr15	25579778	25579788	chr15:25579778:25579788:-:0.81:0.000001	-
Gm12878NucleolusTotalTssHmmV2	chr15	25581024	25581048	chr15:25581024:25581048:-:1.18:0.000146	-
Gm12878NucleolusTotalTssHmmV2	chr15	25582419	25582446	chr15:25582419:25582446:-:0.83:0.000225	-
Gm12878NucleolusTotalTssHmmV2	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878NucleolusTotalTssHmmV2	chr15	25582973	25582989	chr15:25582973:25582989:-:0.42:0.000000	-
Gm12878NucleolusTotalTssHmmV2	chr15	25583442	25583503	chr15:25583442:25583503:-:0.87:0.000084	-
Gm12878NucleolusTotalTssHmmV2	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878NucleolusTotalTssHmmV2	chr15	25583844	25583849	chr15:25583844:25583849:-:0.94:0.000003	-
Gm12878NucleolusTotalTssHmmV2	chr15	25583988	25583995	chr15:25583988:25583995:-:0.93:0.000001	-
Gm12878NucleolusTotalTssHmmV2	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878NucleolusTotalTssHmmV2	chr15	25584291	25584337	chr15:25584291:25584337:-:0.26:0.000030	-
Gm12878NucleolusTotalTssHmmV2	chr15	25585230	25585377	chr15:25585230:25585377:-:0.43:0.000103	-
Gm12878NucleolusTotalTssHmmV2	chr15	25587333	25587363	chr15:25587333:25587363:-:0.52:0.001743	-
Gm12878NucleolusTotalTssHmmV2	chr15	25588545	25588618	chr15:25588545:25588618:-:0.27:0.000001	-
Gm12878NucleolusTotalTssHmmV2	chr15	25588792	25588982	chr15:25588792:25588982:-:0.21:0.000025	-
Gm12878NucleolusTotalTssHmmV2	chr15	25589086	25589153	chr15:25589086:25589153:-:0.33:0.000000	-
Gm12878NucleolusTotalTssHmmV2	chr15	25590133	25590192	chr15:25590133:25590192:-:0.39:0.000001	-
Gm12878NucleolusTotalTssHmmV2	chr15	25590442	25590553	chr15:25590442:25590553:-:0.18:0.000198	-
Gm12878NucleusPamTssHmmV2	chr15	25577708	25577710	chr15:25577708:25577710:-:5.03:0.000219	-
Gm12878NucleusPapTssHmm	chr15	25550016	25550091	chr15:25550016:25550091:-:2.09:0.000006	-
Gm12878NucleusPapTssHmm	chr15	25564396	25564558	chr15:25564396:25564558:-:0.37:0.000042	-
Gm12878NucleusPapTssHmm	chr15	25565957	25566014	chr15:25565957:25566014:-:0.19:0.001873	-
Gm12878NucleusPapTssHmm	chr15	25572221	25572388	chr15:25572221:25572388:-:1.17:0.000243	-
Gm12878NucleusPapTssHmm	chr15	25578215	25578411	chr15:25578215:25578411:-:0.45:0.000023	-
Gm12878NucleusPapTssHmm	chr15	25579033	25579040	chr15:25579033:25579040:-:2.32:0.000000	-
Gm12878NucleusPapTssHmm	chr15	25579778	25579788	chr15:25579778:25579788:-:0.81:0.000001	-
Gm12878NucleusPapTssHmm	chr15	25582419	25582446	chr15:25582419:25582446:-:0.83:0.000225	-
Gm12878NucleusPapTssHmm	chr15	25582723	25582874	chr15:25582723:25582874:-:0.18:0.000003	-
Gm12878NucleusPapTssHmm	chr15	25582973	25582989	chr15:25582973:25582989:-:0.42:0.000000	-

Gm12878NucleusPapTssHmm	chr15	25583442	25583503	chr15:25583442:25583503:-:0.87:0.000084	-
Gm12878NucleusPapTssHmm	chr15	25583785	25583804	chr15:25583785:25583804:-:0.94:0.000031	-
Gm12878NucleusPapTssHmm	chr15	25583844	25583849	chr15:25583844:25583849:-:0.94:0.000003	-
Gm12878NucleusPapTssHmm	chr15	25583988	25583995	chr15:25583988:25583995:-:0.93:0.000001	-
Gm12878NucleusPapTssHmm	chr15	25584026	25584209	chr15:25584026:25584209:-:0.43:0.000000	-
Gm12878NucleusPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.26:0.000000	-
Gm12878NucleusPapTssHmm	chr15	25584291	25584337	chr15:25584291:25584337:-:0.26:0.000030	-
Gm12878NucleusPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:0.43:0.000103	-
Gm12878NucleusPapTssHmm	chr15	25588792	25588982	chr15:25588792:25588982:-:0.21:0.000025	-
H1hescCellPamTssHmmV2	chr15	25357693	25357880	chr15:25357693:25357880:-:0.18:0.000000	-
H1hescCellPamTssHmmV2	chr15	25359027	25359113	chr15:25359027:25359113:-:0.13:0.000003	-
H1hescCellPamTssHmmV2	chr15	25360669	25360811	chr15:25360669:25360811:-:0.07:0.003666	-
H1hescCellPamTssHmmV2	chr15	25364269	25364331	chr15:25364269:25364331:-:1.59:0.020926	-
H1hescCellPamTssHmmV2	chr15	25578920	25579118	chr15:25578920:25579118:-:0.34:0.000000	-
H1hescCellPamTssHmmV2	chr15	25579775	25579788	chr15:25579775:25579788:-:1.72:0.000001	-
H1hescCellPamTssHmmV2	chr15	25582421	25582574	chr15:25582421:25582574:-:0.08:0.000573	-
H1hescCellPamTssHmmV2	chr15	25582733	25582915	chr15:25582733:25582915:-:0.06:0.000000	-
H1hescCellPamTssHmmV2	chr15	25583783	25583804	chr15:25583783:25583804:-:0.69:0.000031	-
H1hescCellPamTssHmmV2	chr15	25584093	25584254	chr15:25584093:25584254:-:0.10:0.000000	-
H1hescCellPamTssHmmV2	chr15	25584317	25584362	chr15:25584317:25584362:-:0.10:0.000559	-
H1hescCellPamTssHmmV2	chr15	25585266	25585379	chr15:25585266:25585379:-:1.46:0.000044	-
H1hescCellPamTssHmmV2	chr15	25587822	25587907	chr15:25587822:25587907:-:0.31:0.010969	-
H1hescCellPamTssHmmV2	chr15	25590109	25590177	chr15:25590109:25590177:-:0.25:0.000005	-
H1hescCellPapTssHmm	chr15	25360669	25360811	chr15:25360669:25360811:-:0.07:0.003666	-
H1hescCellPapTssHmm	chr15	25362584	25362646	chr15:25362584:25362646:-:2.06:0.000887	-
H1hescCellPapTssHmm	chr15	25364269	25364331	chr15:25364269:25364331:-:1.59:0.020926	-
H1hescCellPapTssHmm	chr15	25578920	25579118	chr15:25578920:25579118:-:0.34:0.000000	-
H1hescCellPapTssHmm	chr15	25579517	25579573	chr15:25579517:25579573:-:0.80:0.000007	-
H1hescCellPapTssHmm	chr15	25579775	25579788	chr15:25579775:25579788:-:1.72:0.000001	-
H1hescCellPapTssHmm	chr15	25582421	25582574	chr15:25582421:25582574:-:0.08:0.000573	-

H1hesCellPapTssHmm	chr15	25582733	25582915	chr15:25582733:25582915:-:0.06:0.000000	-
H1hesCellPapTssHmm	chr15	25583392	25583504	chr15:25583392:25583504:-:0.04:0.000173	-
H1hesCellPapTssHmm	chr15	25583783	25583804	chr15:25583783:25583804:-:0.69:0.000031	-
H1hesCellPapTssHmm	chr15	25583844	25583863	chr15:25583844:25583863:-:0.37:0.000010	-
H1hesCellPapTssHmm	chr15	25583988	25583997	chr15:25583988:25583997:-:1.27:0.000002	-
H1hesCellPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.10:0.000000	-
H1hesCellPapTssHmm	chr15	25584317	25584362	chr15:25584317:25584362:-:0.10:0.000559	-
H1hesCellPapTssHmm	chr15	25585266	25585379	chr15:25585266:25585379:-:1.46:0.000044	-
H1hesCytosolPapTssHmm	chr15	25579034	25579040	chr15:25579034:25579040:-:0.000001	-
H1hesCytosolPapTssHmm	chr15	25584093	25584164	chr15:25584093:25584164:-:0.000000	-
H1hesCytosolPapTssHmm	chr15	25585282	25585379	chr15:25585282:25585379:-:0.000007	-
H1hesNucleusPapTssHmm	chr15	25360606	25360794	chr15:25360606:25360794:-:0.001135	-
H1hesNucleusPapTssHmm	chr15	25579031	25579039	chr15:25579031:25579039:-:0.000011	-
H1hesNucleusPapTssHmm	chr15	25582736	25582746	chr15:25582736:25582746:-:0.000004	-
H1hesNucleusPapTssHmm	chr15	25584095	25584207	chr15:25584095:25584207:-:0.000119	-
H1hesNucleusPapTssHmm	chr15	25585277	25585377	chr15:25585277:25585377:-:0.000081	-
HaoafCellPapTssHmm	chr15	25584095	25584109	chr15:25584095:25584109:-:0.000000	-
HaoecCellPapTssHmm	chr15	25583429	25583449	chr15:25583429:25583449:-:0.000000	-
HaoecCellPapTssHmm	chr15	25583788	25583794	chr15:25583788:25583794:-:0.000001	-
HaoecCellPapTssHmm	chr15	25584094	25584106	chr15:25584094:25584106:-:0.000000	-
HchCellPapTssHmm	chr15	25584094	25584106	chr15:25584094:25584106:-:0.000000	-
Helas3CellPapTssHmm	chr15	25565994	25566000	chr15:25565994:25566000:-:6.07:0.004237	-
Helas3CellPapTssHmm	chr15	25578212	25578412	chr15:25578212:25578412:-:0.20:0.000076	-
Helas3CellPapTssHmm	chr15	25578922	25579043	chr15:25578922:25579043:-:0.04:0.000000	-
Helas3CellPapTssHmm	chr15	25579517	25579577	chr15:25579517:25579577:-:1.03:0.000025	-
Helas3CellPapTssHmm	chr15	25579779	25579787	chr15:25579779:25579787:-:3.64:0.000000	-
Helas3CellPapTssHmm	chr15	25582742	25582778	chr15:25582742:25582778:-:0.03:0.000010	-
Helas3CellPapTssHmm	chr15	25583447	25583510	chr15:25583447:25583510:-:1.16:0.000203	-
Helas3CellPapTssHmm	chr15	25583788	25583797	chr15:25583788:25583797:-:0.14:0.000044	-
Helas3CellPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.10:0.000003	-

Helas3CellPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.41:0.000000	-
Helas3CellPapTssHmm	chr15	25584289	25584333	chr15:25584289:25584333:-:0.17:0.000052	-
Helas3CellPapTssHmm	chr15	25584403	25584405	chr15:25584403:25584405:-:4.49:0.000015	-
Helas3CellPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:1.40:0.000103	-
Helas3CytosolPamTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.41:0.000000	-
Helas3CytosolPamTssHmmV2	chr15	25584093	25584254	chr15:25584093:25584254:-:0.41:0.000000	-
Helas3CytosolPapTssHmm	chr15	25578922	25579043	chr15:25578922:25579043:-:0.04:0.000000	-
Helas3CytosolPapTssHmm	chr15	25579779	25579787	chr15:25579779:25579787:-:3.64:0.000000	-
Helas3CytosolPapTssHmm	chr15	25582419	25582444	chr15:25582419:25582444:-:2.53:0.000114	-
Helas3CytosolPapTssHmm	chr15	25582742	25582778	chr15:25582742:25582778:-:0.03:0.000010	-
Helas3CytosolPapTssHmm	chr15	25583788	25583797	chr15:25583788:25583797:-:0.14:0.000044	-
Helas3CytosolPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.10:0.000003	-
Helas3CytosolPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.41:0.000000	-
Helas3CytosolPapTssHmm	chr15	25584289	25584333	chr15:25584289:25584333:-:0.17:0.000052	-
Helas3CytosolPapTssHmm	chr15	25584403	25584405	chr15:25584403:25584405:-:4.49:0.000015	-
Helas3CytosolPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:1.40:0.000103	-
Helas3NucleusPamTssHmm	chr15	25585230	25585283	chr15:25585230:25585283:-:0.000001	-
Helas3NucleusPapTssHmm	chr15	25565994	25566000	chr15:25565994:25566000:-:6.07:0.004237	-
Helas3NucleusPapTssHmm	chr15	25578212	25578412	chr15:25578212:25578412:-:0.20:0.000076	-
Helas3NucleusPapTssHmm	chr15	25578922	25579043	chr15:25578922:25579043:-:0.04:0.000000	-
Helas3NucleusPapTssHmm	chr15	25579517	25579577	chr15:25579517:25579577:-:1.03:0.000025	-
Helas3NucleusPapTssHmm	chr15	25579779	25579787	chr15:25579779:25579787:-:3.64:0.000000	-
Helas3NucleusPapTssHmm	chr15	25582419	25582444	chr15:25582419:25582444:-:2.53:0.000114	-
Helas3NucleusPapTssHmm	chr15	25582742	25582778	chr15:25582742:25582778:-:0.03:0.000010	-
Helas3NucleusPapTssHmm	chr15	25583447	25583510	chr15:25583447:25583510:-:1.16:0.000203	-
Helas3NucleusPapTssHmm	chr15	25583788	25583797	chr15:25583788:25583797:-:0.14:0.000044	-
Helas3NucleusPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.10:0.000003	-
Helas3NucleusPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.41:0.000000	-
Helas3NucleusPapTssHmm	chr15	25584289	25584333	chr15:25584289:25584333:-:0.17:0.000052	-
Helas3NucleusPapTssHmm	chr15	25585024	25585029	chr15:25585024:25585029:-:1.31:0.000001	-

Helas3NucleusPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:1.40:0.000103	-
Hepg2CellPapTssHmmV2	chr15	25550013	25550062	chr15:25550013:25550062:-:1.51:0.000001	-
Hepg2CellPapTssHmmV2	chr15	25564379	25564496	chr15:25564379:25564496:-:0.80:0.000033	-
Hepg2CellPapTssHmmV2	chr15	25565981	25566020	chr15:25565981:25566020:-:1.07:0.002160	-
Hepg2CellPapTssHmmV2	chr15	25578945	25579040	chr15:25578945:25579040:-:0.47:0.000000	-
Hepg2CellPapTssHmmV2	chr15	25579778	25579814	chr15:25579778:25579814:-:0.56:0.000000	-
Hepg2CellPapTssHmmV2	chr15	25582412	25582446	chr15:25582412:25582446:-:0.30:0.000225	-
Hepg2CellPapTssHmmV2	chr15	25582732	25582747	chr15:25582732:25582747:-:0.26:0.000056	-
Hepg2CellPapTssHmmV2	chr15	25582912	25583044	chr15:25582912:25583044:-:0.24:0.000000	-
Hepg2CellPapTssHmmV2	chr15	25583411	25583499	chr15:25583411:25583499:-:0.28:0.000071	-
Hepg2CellPapTssHmmV2	chr15	25583651	25583663	chr15:25583651:25583663:-:0.95:0.000028	-
Hepg2CellPapTssHmmV2	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2CellPapTssHmmV2	chr15	25583844	25583865	chr15:25583844:25583865:-:0.04:0.000020	-
Hepg2CellPapTssHmmV2	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-
Hepg2CellPapTssHmmV2	chr15	25584061	25584068	chr15:25584061:25584068:-:0.12:0.000010	-
Hepg2CellPapTssHmmV2	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2CellPapTssHmmV2	chr15	25584246	25584253	chr15:25584246:25584253:-:1.42:0.000000	-
Hepg2CellPapTssHmmV2	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2CellPapTssHmmV2	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
Hepg2CytosolPamTssHmmV2	chr15	25571949	25571969	chr15:25571949:25571969:-:0.18:0.000713	-
Hepg2CytosolPamTssHmmV2	chr15	25573507	25573623	chr15:25573507:25573623:-:0.73:0.000005	-
Hepg2CytosolPamTssHmmV2	chr15	25579078	25579107	chr15:25579078:25579107:-:0.18:0.000005	-
Hepg2CytosolPamTssHmmV2	chr15	25579201	25579212	chr15:25579201:25579212:-:0.57:0.000013	-
Hepg2CytosolPamTssHmmV2	chr15	25579778	25579814	chr15:25579778:25579814:-:0.56:0.000000	-
Hepg2CytosolPamTssHmmV2	chr15	25582412	25582446	chr15:25582412:25582446:-:0.30:0.000225	-
Hepg2CytosolPamTssHmmV2	chr15	25583651	25583663	chr15:25583651:25583663:-:0.95:0.000028	-
Hepg2CytosolPamTssHmmV2	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2CytosolPamTssHmmV2	chr15	25583844	25583865	chr15:25583844:25583865:-:0.04:0.000020	-
Hepg2CytosolPamTssHmmV2	chr15	25583971	25583975	chr15:25583971:25583975:-:0.31:0.000000	-
Hepg2CytosolPamTssHmmV2	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-

Hepg2CytosolPamTssHmmV2	chr15	25584043	25584047	chr15:25584043:25584047:-:0.12:0.000021	-
Hepg2CytosolPamTssHmmV2	chr15	25584061	25584068	chr15:25584061:25584068:-:0.12:0.000010	-
Hepg2CytosolPamTssHmmV2	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2CytosolPamTssHmmV2	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2CytosolPamTssHmmV2	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
Hepg2CytosolPamTssHmmV2	chr15	25588752	25588836	chr15:25588752:25588836:-:1.25:0.000003	-
Hepg2CytosolPapTssHmm	chr15	25578945	25579040	chr15:25578945:25579040:-:0.47:0.000000	-
Hepg2CytosolPapTssHmm	chr15	25579452	25579562	chr15:25579452:25579562:-:0.04:0.000002	-
Hepg2CytosolPapTssHmm	chr15	25582732	25582747	chr15:25582732:25582747:-:0.26:0.000056	-
Hepg2CytosolPapTssHmm	chr15	25582848	25582875	chr15:25582848:25582875:-:0.49:0.000002	-
Hepg2CytosolPapTssHmm	chr15	25582912	25583044	chr15:25582912:25583044:-:0.24:0.000000	-
Hepg2CytosolPapTssHmm	chr15	25583651	25583663	chr15:25583651:25583663:-:0.95:0.000028	-
Hepg2CytosolPapTssHmm	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2CytosolPapTssHmm	chr15	25583844	25583865	chr15:25583844:25583865:-:0.04:0.000020	-
Hepg2CytosolPapTssHmm	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-
Hepg2CytosolPapTssHmm	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2CytosolPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.42:0.000000	-
Hepg2CytosolPapTssHmm	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2CytosolPapTssHmm	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
Hepg2NucleolusTotalTssHmmV3	chr15	25550013	25550062	chr15:25550013:25550062:-:1.51:0.000001	-
Hepg2NucleolusTotalTssHmmV3	chr15	25562986	25563107	chr15:25562986:25563107:-:1.27:0.000004	-
Hepg2NucleolusTotalTssHmmV3	chr15	25565141	25565267	chr15:25565141:25565267:-:0.31:0.003204	-
Hepg2NucleolusTotalTssHmmV3	chr15	25565981	25566020	chr15:25565981:25566020:-:1.07:0.002160	-
Hepg2NucleolusTotalTssHmmV3	chr15	25566607	25566670	chr15:25566607:25566670:-:0.09:0.000691	-
Hepg2NucleolusTotalTssHmmV3	chr15	25567253	25567348	chr15:25567253:25567348:-:0.49:0.000245	-
Hepg2NucleolusTotalTssHmmV3	chr15	25567471	25567656	chr15:25567471:25567656:-:0.45:0.004144	-
Hepg2NucleolusTotalTssHmmV3	chr15	25568902	25569102	chr15:25568902:25569102:-:0.99:0.000294	-
Hepg2NucleolusTotalTssHmmV3	chr15	25570327	25570393	chr15:25570327:25570393:-:0.30:0.000021	-
Hepg2NucleolusTotalTssHmmV3	chr15	25572236	25572370	chr15:25572236:25572370:-:0.04:0.000762	-
Hepg2NucleolusTotalTssHmmV3	chr15	25573868	25573894	chr15:25573868:25573894:-:0.52:0.000107	-

Hepg2NucleolusTotalTssHmmV3	chr15	25577014	25577076	chr15:25577014:25577076:-:2.32:0.000009	-
Hepg2NucleolusTotalTssHmmV3	chr15	25578593	25578716	chr15:25578593:25578716:-:0.22:0.000022	-
Hepg2NucleolusTotalTssHmmV3	chr15	25578945	25579040	chr15:25578945:25579040:-:0.47:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579201	25579212	chr15:25579201:25579212:-:0.57:0.000013	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579357	25579387	chr15:25579357:25579387:-:0.04:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579452	25579562	chr15:25579452:25579562:-:0.04:0.000002	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579594	25579611	chr15:25579594:25579611:-:0.57:0.000009	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579651	25579666	chr15:25579651:25579666:-:0.87:0.000005	-
Hepg2NucleolusTotalTssHmmV3	chr15	25579778	25579814	chr15:25579778:25579814:-:0.56:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25580309	25580342	chr15:25580309:25580342:-:0.40:0.000620	-
Hepg2NucleolusTotalTssHmmV3	chr15	25581175	25581219	chr15:25581175:25581219:-:0.67:0.002829	-
Hepg2NucleolusTotalTssHmmV3	chr15	25582412	25582446	chr15:25582412:25582446:-:0.30:0.000225	-
Hepg2NucleolusTotalTssHmmV3	chr15	25582848	25582875	chr15:25582848:25582875:-:0.49:0.000002	-
Hepg2NucleolusTotalTssHmmV3	chr15	25582912	25583044	chr15:25582912:25583044:-:0.24:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25583411	25583499	chr15:25583411:25583499:-:0.28:0.000071	-
Hepg2NucleolusTotalTssHmmV3	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2NucleolusTotalTssHmmV3	chr15	25583844	25583865	chr15:25583844:25583865:-:0.04:0.000020	-
Hepg2NucleolusTotalTssHmmV3	chr15	25583971	25583975	chr15:25583971:25583975:-:0.31:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-
Hepg2NucleolusTotalTssHmmV3	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2NucleolusTotalTssHmmV3	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2NucleolusTotalTssHmmV3	chr15	25584909	25584914	chr15:25584909:25584914:-:1.09:0.000038	-
Hepg2NucleolusTotalTssHmmV3	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
Hepg2NucleolusTotalTssHmmV3	chr15	25587209	25587247	chr15:25587209:25587247:-:0.08:0.000624	-
Hepg2NucleolusTotalTssHmmV3	chr15	25587583	25587598	chr15:25587583:25587598:-:1.08:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25588453	25588491	chr15:25588453:25588491:-:0.58:0.000033	-
Hepg2NucleolusTotalTssHmmV3	chr15	25588605	25588626	chr15:25588605:25588626:-:1.22:0.000003	-
Hepg2NucleolusTotalTssHmmV3	chr15	25588752	25588836	chr15:25588752:25588836:-:1.25:0.000003	-
Hepg2NucleolusTotalTssHmmV3	chr15	25588901	25588995	chr15:25588901:25588995:-:0.01:0.000000	-
Hepg2NucleolusTotalTssHmmV3	chr15	25589060	25589088	chr15:25589060:25589088:-:0.61:0.000002	-

Hepg2NucleolusTotalTssHmmV3	chr15	25590126	25590234	chr15:25590126:25590234:-:0.68:0.000336	-
Hepg2NucleusPamTssHmmV2	chr15	25550013	25550062	chr15:25550013:25550062:-:1.51:0.000001	-
Hepg2NucleusPamTssHmmV2	chr15	25565141	25565267	chr15:25565141:25565267:-:0.31:0.003204	-
Hepg2NucleusPamTssHmmV2	chr15	25565981	25566020	chr15:25565981:25566020:-:1.07:0.002160	-
Hepg2NucleusPamTssHmmV2	chr15	25566607	25566670	chr15:25566607:25566670:-:0.09:0.000691	-
Hepg2NucleusPamTssHmmV2	chr15	25567471	25567656	chr15:25567471:25567656:-:0.45:0.004144	-
Hepg2NucleusPamTssHmmV2	chr15	25568902	25569102	chr15:25568902:25569102:-:0.99:0.000294	-
Hepg2NucleusPamTssHmmV2	chr15	25570327	25570393	chr15:25570327:25570393:-:0.30:0.000021	-
Hepg2NucleusPamTssHmmV2	chr15	25571949	25571969	chr15:25571949:25571969:-:0.18:0.000713	-
Hepg2NucleusPamTssHmmV2	chr15	25572162	25572181	chr15:25572162:25572181:-:0.97:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25572236	25572370	chr15:25572236:25572370:-:0.04:0.000762	-
Hepg2NucleusPamTssHmmV2	chr15	25573507	25573623	chr15:25573507:25573623:-:0.73:0.000005	-
Hepg2NucleusPamTssHmmV2	chr15	25573868	25573894	chr15:25573868:25573894:-:0.52:0.000107	-
Hepg2NucleusPamTssHmmV2	chr15	25577014	25577076	chr15:25577014:25577076:-:2.32:0.000009	-
Hepg2NucleusPamTssHmmV2	chr15	25578402	25578415	chr15:25578402:25578415:-:3.18:0.000078	-
Hepg2NucleusPamTssHmmV2	chr15	25578593	25578716	chr15:25578593:25578716:-:0.22:0.000022	-
Hepg2NucleusPamTssHmmV2	chr15	25578945	25579040	chr15:25578945:25579040:-:0.47:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25579078	25579107	chr15:25579078:25579107:-:0.18:0.000005	-
Hepg2NucleusPamTssHmmV2	chr15	25579201	25579212	chr15:25579201:25579212:-:0.57:0.000013	-
Hepg2NucleusPamTssHmmV2	chr15	25579357	25579387	chr15:25579357:25579387:-:0.04:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25579452	25579562	chr15:25579452:25579562:-:0.04:0.000002	-
Hepg2NucleusPamTssHmmV2	chr15	25579594	25579611	chr15:25579594:25579611:-:0.57:0.000009	-
Hepg2NucleusPamTssHmmV2	chr15	25579651	25579666	chr15:25579651:25579666:-:0.87:0.000005	-
Hepg2NucleusPamTssHmmV2	chr15	25579778	25579814	chr15:25579778:25579814:-:0.56:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25580309	25580342	chr15:25580309:25580342:-:0.40:0.000620	-
Hepg2NucleusPamTssHmmV2	chr15	25581175	25581219	chr15:25581175:25581219:-:0.67:0.002829	-
Hepg2NucleusPamTssHmmV2	chr15	25582412	25582446	chr15:25582412:25582446:-:0.30:0.000225	-
Hepg2NucleusPamTssHmmV2	chr15	25582732	25582747	chr15:25582732:25582747:-:0.26:0.000056	-
Hepg2NucleusPamTssHmmV2	chr15	25582912	25583044	chr15:25582912:25583044:-:0.24:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25583411	25583499	chr15:25583411:25583499:-:0.28:0.000071	-

Hepg2NucleusPamTssHmmV2	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2NucleusPamTssHmmV2	chr15	25583844	25583865	chr15:25583844:25583865:-:0.04:0.000020	-
Hepg2NucleusPamTssHmmV2	chr15	25583971	25583975	chr15:25583971:25583975:-:0.31:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-
Hepg2NucleusPamTssHmmV2	chr15	25584043	25584047	chr15:25584043:25584047:-:0.12:0.000021	-
Hepg2NucleusPamTssHmmV2	chr15	25584061	25584068	chr15:25584061:25584068:-:0.12:0.000010	-
Hepg2NucleusPamTssHmmV2	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2NucleusPamTssHmmV2	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2NucleusPamTssHmmV2	chr15	25584909	25584914	chr15:25584909:25584914:-:1.09:0.000038	-
Hepg2NucleusPamTssHmmV2	chr15	25585023	25585028	chr15:25585023:25585028:-:2.09:0.000001	-
Hepg2NucleusPamTssHmmV2	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
Hepg2NucleusPamTssHmmV2	chr15	25587209	25587247	chr15:25587209:25587247:-:0.08:0.000624	-
Hepg2NucleusPamTssHmmV2	chr15	25587583	25587598	chr15:25587583:25587598:-:1.08:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25588453	25588491	chr15:25588453:25588491:-:0.58:0.000033	-
Hepg2NucleusPamTssHmmV2	chr15	25588605	25588626	chr15:25588605:25588626:-:1.22:0.000003	-
Hepg2NucleusPamTssHmmV2	chr15	25588752	25588836	chr15:25588752:25588836:-:1.25:0.000003	-
Hepg2NucleusPamTssHmmV2	chr15	25588901	25588995	chr15:25588901:25588995:-:0.01:0.000000	-
Hepg2NucleusPamTssHmmV2	chr15	25589060	25589088	chr15:25589060:25589088:-:0.61:0.000002	-
Hepg2NucleusPamTssHmmV2	chr15	25590126	25590234	chr15:25590126:25590234:-:0.68:0.000336	-
Hepg2NucleusPapTssHmm	chr15	25562986	25563107	chr15:25562986:25563107:-:1.27:0.000004	-
Hepg2NucleusPapTssHmm	chr15	25564379	25564496	chr15:25564379:25564496:-:0.80:0.000033	-
Hepg2NucleusPapTssHmm	chr15	25565141	25565267	chr15:25565141:25565267:-:0.31:0.003204	-
Hepg2NucleusPapTssHmm	chr15	25565981	25566020	chr15:25565981:25566020:-:1.07:0.002160	-
Hepg2NucleusPapTssHmm	chr15	25567253	25567348	chr15:25567253:25567348:-:0.49:0.000245	-
Hepg2NucleusPapTssHmm	chr15	25567471	25567656	chr15:25567471:25567656:-:0.45:0.004144	-
Hepg2NucleusPapTssHmm	chr15	25572236	25572370	chr15:25572236:25572370:-:0.04:0.000762	-
Hepg2NucleusPapTssHmm	chr15	25573868	25573894	chr15:25573868:25573894:-:0.52:0.000107	-
Hepg2NucleusPapTssHmm	chr15	25578402	25578415	chr15:25578402:25578415:-:3.18:0.000078	-
Hepg2NucleusPapTssHmm	chr15	25578593	25578716	chr15:25578593:25578716:-:0.22:0.000022	-
Hepg2NucleusPapTssHmm	chr15	25578945	25579040	chr15:25578945:25579040:-:0.47:0.000000	-

Hepg2NucleusPapTssHmm	chr15	25579452	25579562	chr15:25579452:25579562:-:0.04:0.000002	-
Hepg2NucleusPapTssHmm	chr15	25579778	25579814	chr15:25579778:25579814:-:0.56:0.000000	-
Hepg2NucleusPapTssHmm	chr15	25581175	25581219	chr15:25581175:25581219:-:0.67:0.002829	-
Hepg2NucleusPapTssHmm	chr15	25582732	25582747	chr15:25582732:25582747:-:0.26:0.000056	-
Hepg2NucleusPapTssHmm	chr15	25582912	25583044	chr15:25582912:25583044:-:0.24:0.000000	-
Hepg2NucleusPapTssHmm	chr15	25583411	25583499	chr15:25583411:25583499:-:0.28:0.000071	-
Hepg2NucleusPapTssHmm	chr15	25583784	25583804	chr15:25583784:25583804:-:1.50:0.000031	-
Hepg2NucleusPapTssHmm	chr15	25583985	25583999	chr15:25583985:25583999:-:0.91:0.000003	-
Hepg2NucleusPapTssHmm	chr15	25584094	25584223	chr15:25584094:25584223:-:0.53:0.000001	-
Hepg2NucleusPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.42:0.000000	-
Hepg2NucleusPapTssHmm	chr15	25584318	25584380	chr15:25584318:25584380:-:0.35:0.000553	-
Hepg2NucleusPapTssHmm	chr15	25584909	25584914	chr15:25584909:25584914:-:1.09:0.000038	-
Hepg2NucleusPapTssHmm	chr15	25585023	25585028	chr15:25585023:25585028:-:2.09:0.000001	-
Hepg2NucleusPapTssHmm	chr15	25585227	25585379	chr15:25585227:25585379:-:0.38:0.000044	-
HmepcCellPapTssHmm	chr15	25582515	25582547	chr15:25582515:25582547:-:0.000002	-
HmepcCellPapTssHmm	chr15	25584096	25584106	chr15:25584096:25584106:-:0.000001	-
HmscatCellPapTssHmm	chr15	25583790	25583803	chr15:25583790:25583803:-:0.000000	-
HmscatCellPapTssHmm	chr15	25584097	25584111	chr15:25584097:25584111:-:0.000000	-
HmscucCellPapTssHmm	chr15	25414365	25414388	chr15:25414365:25414388:-:0.000000	-
HmscucCellPapTssHmm	chr15	25507641	25507649	chr15:25507641:25507649:-:0.000000	-
HmscucCellPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
HmscucCellPapTssHmm	chr15	25579036	25579039	chr15:25579036:25579039:-:0.000000	-
HmscucCellPapTssHmm	chr15	25583790	25583793	chr15:25583790:25583793:-:0.000000	-
HmscucCellPapTssHmm	chr15	25583870	25583874	chr15:25583870:25583874:-:0.000000	-
HmscucCellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
HmscucCellPapTssHmm	chr15	25584160	25584163	chr15:25584160:25584163:-:0.000003	-
HmscucCellPapTssHmm	chr15	25584186	25584192	chr15:25584186:25584192:-:0.000113	-
HmscucCellPapTssHmm	chr15	25584247	25584251	chr15:25584247:25584251:-:0.000006	-
HmscucCellPapTssHmm	chr15	25585267	25585374	chr15:25585267:25585374:-:0.000000	-
HobCellPapTssHmm	chr15	25414365	25414561	chr15:25414365:25414561:-:0.000002	-

HobCellPapTssHmm	chr15	25507643	25507649	chr15:25507643:25507649:-:0.000000	-
HobCellPapTssHmm	chr15	25583760	25583797	chr15:25583760:25583797:-:0.000000	-
HobCellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
HobCellPapTssHmm	chr15	25584246	25584250	chr15:25584246:25584250:-:0.000002	-
HobCellPapTssHmm	chr15	25585281	25585423	chr15:25585281:25585423:-:0.000000	-
HpcplCellPapTssHmm	chr15	25507641	25507649	chr15:25507641:25507649:-:0.000000	-
HpcplCellPapTssHmm	chr15	25582421	25582534	chr15:25582421:25582534:-:0.000089	-
HpcplCellPapTssHmm	chr15	25583790	25583804	chr15:25583790:25583804:-:0.000000	-
HpcplCellPapTssHmm	chr15	25584095	25584107	chr15:25584095:25584107:-:0.000000	-
HpcplCellPapTssHmm	chr15	25584300	25584354	chr15:25584300:25584354:-:0.000000	-
HsavecCellPapTssHmm	chr15	25414365	25414386	chr15:25414365:25414386:-:0.000001	-
HsavecCellPapTssHmm	chr15	25507643	25507648	chr15:25507643:25507648:-:0.000000	-
HsavecCellPapTssHmm	chr15	25584094	25584253	chr15:25584094:25584253:-:0.000054	-
HsavecCellPapTssHmm	chr15	25585268	25585375	chr15:25585268:25585375:-:0.000000	-
HuvecCellPapTssHmm	chr15	25451856	25451861	chr15:25451856:25451861:-:5.84:0.582246	-
HuvecCellPapTssHmm	chr15	25550013	25550061	chr15:25550013:25550061:-:2.02:0.000001	-
HuvecCellPapTssHmm	chr15	25563021	25563142	chr15:25563021:25563142:-:0.88:0.000001	-
HuvecCellPapTssHmm	chr15	25564385	25564496	chr15:25564385:25564496:-:2.16:0.000033	-
HuvecCellPapTssHmm	chr15	25565992	25566000	chr15:25565992:25566000:-:4.51:0.004237	-
HuvecCellPapTssHmm	chr15	25578922	25579040	chr15:25578922:25579040:-:0.71:0.000000	-
HuvecCellPapTssHmm	chr15	25579552	25579672	chr15:25579552:25579672:-:0.19:0.000068	-
HuvecCellPapTssHmm	chr15	25579777	25579809	chr15:25579777:25579809:-:0.31:0.000001	-
HuvecCellPapTssHmm	chr15	25581046	25581048	chr15:25581046:25581048:-:4.77:0.000146	-
HuvecCellPapTssHmm	chr15	25582418	25582452	chr15:25582418:25582452:-:0.17:0.000113	-
HuvecCellPapTssHmm	chr15	25582722	25582746	chr15:25582722:25582746:-:0.27:0.000032	-
HuvecCellPapTssHmm	chr15	25582808	25582876	chr15:25582808:25582876:-:0.04:0.000003	-
HuvecCellPapTssHmm	chr15	25583446	25583511	chr15:25583446:25583511:-:1.16:0.000076	-
HuvecCellPapTssHmm	chr15	25583786	25583804	chr15:25583786:25583804:-:0.34:0.000031	-
HuvecCellPapTssHmm	chr15	25583985	25583993	chr15:25583985:25583993:-:0.37:0.000001	-
HuvecCellPapTssHmm	chr15	25584093	25584224	chr15:25584093:25584224:-:0.22:0.000000	-

HuvecCellPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.29:0.000000	-
HuvecCellPapTssHmm	chr15	25584291	25584408	chr15:25584291:25584408:-:0.01:0.000004	-
HuvecCellPapTssHmm	chr15	25584905	25584927	chr15:25584905:25584927:-:0.28:0.000274	-
HuvecCellPapTssHmm	chr15	25585260	25585379	chr15:25585260:25585379:-:0.10:0.000044	-
HuvecCytosolPamTssHmmV2	chr15	25414365	25414554	chr15:25414365:25414554:-:0.57:0.862001	-
HuvecCytosolPamTssHmmV2	chr15	25550013	25550061	chr15:25550013:25550061:-:2.02:0.000001	-
HuvecCytosolPamTssHmmV2	chr15	25572272	25572402	chr15:25572272:25572402:-:1.77:0.015561	-
HuvecCytosolPamTssHmmV2	chr15	25578284	25578418	chr15:25578284:25578418:-:0.63:0.000040	-
HuvecCytosolPamTssHmmV2	chr15	25578922	25579040	chr15:25578922:25579040:-:0.71:0.000000	-
HuvecCytosolPamTssHmmV2	chr15	25581270	25581279	chr15:25581270:25581279:-:2.77:0.000978	-
HuvecCytosolPamTssHmmV2	chr15	25582418	25582452	chr15:25582418:25582452:-:0.17:0.000113	-
HuvecCytosolPamTssHmmV2	chr15	25582722	25582746	chr15:25582722:25582746:-:0.27:0.000032	-
HuvecCytosolPamTssHmmV2	chr15	25582808	25582876	chr15:25582808:25582876:-:0.04:0.000003	-
HuvecCytosolPamTssHmmV2	chr15	25582971	25583041	chr15:25582971:25583041:-:0.45:0.000000	-
HuvecCytosolPamTssHmmV2	chr15	25583186	25583199	chr15:25583186:25583199:-:0.37:0.000039	-
HuvecCytosolPamTssHmmV2	chr15	25583446	25583511	chr15:25583446:25583511:-:1.16:0.000076	-
HuvecCytosolPamTssHmmV2	chr15	25583653	25583662	chr15:25583653:25583662:-:0.57:0.000086	-
HuvecCytosolPamTssHmmV2	chr15	25583786	25583804	chr15:25583786:25583804:-:0.34:0.000031	-
HuvecCytosolPamTssHmmV2	chr15	25583847	25583870	chr15:25583847:25583870:-:0.34:0.000024	-
HuvecCytosolPamTssHmmV2	chr15	25583969	25583977	chr15:25583969:25583977:-:0.02:0.000000	-
HuvecCytosolPamTssHmmV2	chr15	25583985	25583993	chr15:25583985:25583993:-:0.37:0.000001	-
HuvecCytosolPamTssHmmV2	chr15	25584093	25584224	chr15:25584093:25584224:-:0.22:0.000000	-
HuvecCytosolPamTssHmmV2	chr15	25584246	25584253	chr15:25584246:25584253:-:1.29:0.000000	-
HuvecCytosolPamTssHmmV2	chr15	25584291	25584408	chr15:25584291:25584408:-:0.01:0.000004	-
HuvecCytosolPamTssHmmV2	chr15	25585260	25585379	chr15:25585260:25585379:-:0.10:0.000044	-
HuvecCytosolPapTssHmm	chr15	25414365	25414554	chr15:25414365:25414554:-:0.57:0.862001	-
HuvecCytosolPapTssHmm	chr15	25451856	25451861	chr15:25451856:25451861:-:5.84:0.582246	-
HuvecCytosolPapTssHmm	chr15	25550013	25550061	chr15:25550013:25550061:-:2.02:0.000001	-
HuvecCytosolPapTssHmm	chr15	25578922	25579040	chr15:25578922:25579040:-:0.71:0.000000	-
HuvecCytosolPapTssHmm	chr15	25579552	25579672	chr15:25579552:25579672:-:0.19:0.000068	-

HuvecCytosolPapTssHmm	chr15	25579777	25579809	chr15:25579777:25579809:-:0.31:0.000001	-
HuvecCytosolPapTssHmm	chr15	25581046	25581048	chr15:25581046:25581048:-:4.77:0.000146	-
HuvecCytosolPapTssHmm	chr15	25582418	25582452	chr15:25582418:25582452:-:0.17:0.000113	-
HuvecCytosolPapTssHmm	chr15	25582722	25582746	chr15:25582722:25582746:-:0.27:0.000032	-
HuvecCytosolPapTssHmm	chr15	25582808	25582876	chr15:25582808:25582876:-:0.04:0.000003	-
HuvecCytosolPapTssHmm	chr15	25582971	25583041	chr15:25582971:25583041:-:0.45:0.000000	-
HuvecCytosolPapTssHmm	chr15	25583186	25583199	chr15:25583186:25583199:-:0.37:0.000039	-
HuvecCytosolPapTssHmm	chr15	25583387	25583396	chr15:25583387:25583396:-:0.62:0.000029	-
HuvecCytosolPapTssHmm	chr15	25583446	25583511	chr15:25583446:25583511:-:1.16:0.000076	-
HuvecCytosolPapTssHmm	chr15	25583653	25583662	chr15:25583653:25583662:-:0.57:0.000086	-
HuvecCytosolPapTssHmm	chr15	25583786	25583804	chr15:25583786:25583804:-:0.34:0.000031	-
HuvecCytosolPapTssHmm	chr15	25583847	25583870	chr15:25583847:25583870:-:0.34:0.000024	-
HuvecCytosolPapTssHmm	chr15	25583883	25583888	chr15:25583883:25583888:-:1.08:0.000021	-
HuvecCytosolPapTssHmm	chr15	25583969	25583977	chr15:25583969:25583977:-:0.02:0.000000	-
HuvecCytosolPapTssHmm	chr15	25583985	25583993	chr15:25583985:25583993:-:0.37:0.000001	-
HuvecCytosolPapTssHmm	chr15	25584055	25584059	chr15:25584055:25584059:-:0.22:0.000004	-
HuvecCytosolPapTssHmm	chr15	25584093	25584224	chr15:25584093:25584224:-:0.22:0.000000	-
HuvecCytosolPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.29:0.000000	-
HuvecCytosolPapTssHmm	chr15	25584291	25584408	chr15:25584291:25584408:-:0.01:0.000004	-
HuvecCytosolPapTssHmm	chr15	25585260	25585379	chr15:25585260:25585379:-:0.10:0.000044	-
HuvecNucleusPapTssHmm	chr15	25550013	25550061	chr15:25550013:25550061:-:2.02:0.000001	-
HuvecNucleusPapTssHmm	chr15	25563021	25563142	chr15:25563021:25563142:-:0.88:0.000001	-
HuvecNucleusPapTssHmm	chr15	25564385	25564496	chr15:25564385:25564496:-:2.16:0.000033	-
HuvecNucleusPapTssHmm	chr15	25565222	25565265	chr15:25565222:25565265:-:1.19:0.004544	-
HuvecNucleusPapTssHmm	chr15	25565992	25566000	chr15:25565992:25566000:-:4.51:0.004237	-
HuvecNucleusPapTssHmm	chr15	25566273	25566318	chr15:25566273:25566318:-:0.81:0.000055	-
HuvecNucleusPapTssHmm	chr15	25572272	25572402	chr15:25572272:25572402:-:1.77:0.015561	-
HuvecNucleusPapTssHmm	chr15	25577820	25577882	chr15:25577820:25577882:-:0.53:0.000095	-
HuvecNucleusPapTssHmm	chr15	25578284	25578418	chr15:25578284:25578418:-:0.63:0.000040	-
HuvecNucleusPapTssHmm	chr15	25578922	25579040	chr15:25578922:25579040:-:0.71:0.000000	-

HuvecNucleusPapTssHmm	chr15	25579552	25579672	chr15:25579552:25579672:-:0.19:0.000068	-
HuvecNucleusPapTssHmm	chr15	25579777	25579809	chr15:25579777:25579809:-:0.31:0.000001	-
HuvecNucleusPapTssHmm	chr15	25581046	25581048	chr15:25581046:25581048:-:4.77:0.000146	-
HuvecNucleusPapTssHmm	chr15	25581270	25581279	chr15:25581270:25581279:-:2.77:0.000978	-
HuvecNucleusPapTssHmm	chr15	25582418	25582452	chr15:25582418:25582452:-:0.17:0.000113	-
HuvecNucleusPapTssHmm	chr15	25582722	25582746	chr15:25582722:25582746:-:0.27:0.000032	-
HuvecNucleusPapTssHmm	chr15	25582808	25582876	chr15:25582808:25582876:-:0.04:0.000003	-
HuvecNucleusPapTssHmm	chr15	25582971	25583041	chr15:25582971:25583041:-:0.45:0.000000	-
HuvecNucleusPapTssHmm	chr15	25583186	25583199	chr15:25583186:25583199:-:0.37:0.000039	-
HuvecNucleusPapTssHmm	chr15	25583387	25583396	chr15:25583387:25583396:-:0.62:0.000029	-
HuvecNucleusPapTssHmm	chr15	25583446	25583511	chr15:25583446:25583511:-:1.16:0.000076	-
HuvecNucleusPapTssHmm	chr15	25583786	25583804	chr15:25583786:25583804:-:0.34:0.000031	-
HuvecNucleusPapTssHmm	chr15	25583847	25583870	chr15:25583847:25583870:-:0.34:0.000024	-
HuvecNucleusPapTssHmm	chr15	25583883	25583888	chr15:25583883:25583888:-:1.08:0.000021	-
HuvecNucleusPapTssHmm	chr15	25583969	25583977	chr15:25583969:25583977:-:0.02:0.000000	-
HuvecNucleusPapTssHmm	chr15	25583985	25583993	chr15:25583985:25583993:-:0.37:0.000001	-
HuvecNucleusPapTssHmm	chr15	25584055	25584059	chr15:25584055:25584059:-:0.22:0.000004	-
HuvecNucleusPapTssHmm	chr15	25584093	25584224	chr15:25584093:25584224:-:0.22:0.000000	-
HuvecNucleusPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:1.29:0.000000	-
HuvecNucleusPapTssHmm	chr15	25584291	25584408	chr15:25584291:25584408:-:0.01:0.000004	-
HuvecNucleusPapTssHmm	chr15	25584905	25584927	chr15:25584905:25584927:-:0.28:0.000274	-
HuvecNucleusPapTssHmm	chr15	25585023	25585026	chr15:25585023:25585026:-:1.98:0.000000	-
HuvecNucleusPapTssHmm	chr15	25585260	25585379	chr15:25585260:25585379:-:0.10:0.000044	-
HvmfCellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
HvmfCellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
HvmfCellPapTssHmm	chr15	25584201	25584209	chr15:25584201:25584209:-:0.001657	-
HvmfCellPapTssHmm	chr15	25584246	25584251	chr15:25584246:25584251:-:0.000001	-
HvmfCellPapTssHmm	chr15	25584317	25584333	chr15:25584317:25584333:-:0.000000	-
HvmfCellPapTssHmm	chr15	25585267	25585381	chr15:25585267:25585381:-:0.000000	-
HwpCellPapTssHmm	chr15	25414365	25414562	chr15:25414365:25414562:-:0.000003	-

HwpCellPapTssHmm	chr15	25507641	25507649	chr15:25507641:25507649:-:0.000000	-
HwpCellPapTssHmm	chr15	25583787	25583802	chr15:25583787:25583802:-:0.000000	-
HwpCellPapTssHmm	chr15	25584104	25584107	chr15:25584104:25584107:-:0.000000	-
HwpCellPapTssHmm	chr15	25584201	25584206	chr15:25584201:25584206:-:0.000001	-
HwpCellPapTssHmm	chr15	25584247	25584256	chr15:25584247:25584256:-:0.000000	-
HwpCellPapTssHmm	chr15	25585284	25585367	chr15:25585284:25585367:-:0.000000	-
Imr90CellPapTssHmm	chr15	25356946	25357012	chr15:25356946:25357012:-:0.000010	-
Imr90CellPapTssHmm	chr15	25360605	25360630	chr15:25360605:25360630:-:0.031079	-
Imr90CellPapTssHmm	chr15	25360791	25360802	chr15:25360791:25360802:-:0.000031	-
Imr90CellPapTssHmm	chr15	25364642	25364841	chr15:25364642:25364841:-:0.000006	-
Imr90CellPapTssHmm	chr15	25414366	25414560	chr15:25414366:25414560:-:0.000046	-
Imr90CellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
Imr90CellPapTssHmm	chr15	25550015	25550019	chr15:25550015:25550019:-:0.000000	-
Imr90CellPapTssHmm	chr15	25579035	25579042	chr15:25579035:25579042:-:0.000000	-
Imr90CellPapTssHmm	chr15	25579775	25579785	chr15:25579775:25579785:-:0.000017	-
Imr90CellPapTssHmm	chr15	25581046	25581050	chr15:25581046:25581050:-:0.000013	-
Imr90CellPapTssHmm	chr15	25581272	25581282	chr15:25581272:25581282:-:0.000036	-
Imr90CellPapTssHmm	chr15	25582421	25582423	chr15:25582421:25582423:-:0.000009	-
Imr90CellPapTssHmm	chr15	25582739	25582746	chr15:25582739:25582746:-:0.000000	-
Imr90CellPapTssHmm	chr15	25583446	25583449	chr15:25583446:25583449:-:0.000010	-
Imr90CellPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.000084	-
Imr90CellPapTssHmm	chr15	25583885	25583888	chr15:25583885:25583888:-:0.000000	-
Imr90CellPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.000000	-
Imr90CellPapTssHmm	chr15	25584317	25584320	chr15:25584317:25584320:-:0.000000	-
Imr90CellPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:0.000006	-
Imr90CellPapTssHmm	chr15	25585278	25585378	chr15:25585278:25585378:-:0.000039	-
Imr90CytosolPapTssHmm	chr15	25356946	25357012	chr15:25356946:25357012:-:0.000010	-
Imr90CytosolPapTssHmm	chr15	25360605	25360630	chr15:25360605:25360630:-:0.031079	-
Imr90CytosolPapTssHmm	chr15	25364642	25364841	chr15:25364642:25364841:-:0.000006	-
Imr90CytosolPapTssHmm	chr15	25365423	25365442	chr15:25365423:25365442:-:0.000031	-

Imr90CytosolPapTssHmm	chr15	25414366	25414560	chr15:25414366:25414560:-:0.000046	-
Imr90CytosolPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25550015	25550019	chr15:25550015:25550019:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25579035	25579042	chr15:25579035:25579042:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25579775	25579785	chr15:25579775:25579785:-:0.000017	-
Imr90CytosolPapTssHmm	chr15	25581046	25581050	chr15:25581046:25581050:-:0.000013	-
Imr90CytosolPapTssHmm	chr15	25582421	25582423	chr15:25582421:25582423:-:0.000009	-
Imr90CytosolPapTssHmm	chr15	25582739	25582746	chr15:25582739:25582746:-:0.000000	-
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Imr90CytosolPapTssHmm	chr15	25583491	25583500	chr15:25583491:25583500:-:0.000085	-
Imr90CytosolPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.000084	-
Imr90CytosolPapTssHmm	chr15	25583885	25583888	chr15:25583885:25583888:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25584317	25584320	chr15:25584317:25584320:-:0.000000	-
Imr90CytosolPapTssHmm	chr15	25584352	25584354	chr15:25584352:25584354:-:0.000003	-
Imr90CytosolPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:0.000006	-
Imr90CytosolPapTssHmm	chr15	25585278	25585378	chr15:25585278:25585378:-:0.000039	-
Imr90NucleusPapTssHmm	chr15	25360605	25360630	chr15:25360605:25360630:-:0.031079	-
Imr90NucleusPapTssHmm	chr15	25360791	25360802	chr15:25360791:25360802:-:0.000031	-
Imr90NucleusPapTssHmm	chr15	25364642	25364841	chr15:25364642:25364841:-:0.000006	-
Imr90NucleusPapTssHmm	chr15	25365423	25365442	chr15:25365423:25365442:-:0.000031	-
Imr90NucleusPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25550015	25550019	chr15:25550015:25550019:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25564391	25564463	chr15:25564391:25564463:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25572333	25572529	chr15:25572333:25572529:-:0.000126	-
Imr90NucleusPapTssHmm	chr15	25578404	25578414	chr15:25578404:25578414:-:0.015756	-
Imr90NucleusPapTssHmm	chr15	25579035	25579042	chr15:25579035:25579042:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25579775	25579785	chr15:25579775:25579785:-:0.000017	-
Imr90NucleusPapTssHmm	chr15	25581046	25581050	chr15:25581046:25581050:-:0.000013	-
Imr90NucleusPapTssHmm	chr15	25581272	25581282	chr15:25581272:25581282:-:0.000036	-

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Imr90NucleusPapTssHmm	chr15	25582739	25582746	chr15:25582739:25582746:-:0.000000	-
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Imr90NucleusPapTssHmm	chr15	25583491	25583500	chr15:25583491:25583500:-:0.000085	-
Imr90NucleusPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.000084	-
Imr90NucleusPapTssHmm	chr15	25584093	25584254	chr15:25584093:25584254:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25584317	25584320	chr15:25584317:25584320:-:0.000000	-
Imr90NucleusPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:0.000006	-
Imr90NucleusPapTssHmm	chr15	25585023	25585025	chr15:25585023:25585025:-:0.000008	-
Imr90NucleusPapTssHmm	chr15	25585278	25585378	chr15:25585278:25585378:-:0.000039	-
Imr90NucleusPapTssHmm	chr15	25589215	25589245	chr15:25589215:25589245:-:0.000001	-
K562CellPapTssHmm	chr15	25565824	25566020	chr15:25565824:25566020:-:1.05:0.002160	-
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K562CellPapTssHmm	chr15	25579098	25579143	chr15:25579098:25579143:-:0.43:0.000045	-
K562CellPapTssHmm	chr15	25579508	25579522	chr15:25579508:25579522:-:0.03:0.000003	-
K562CellPapTssHmm	chr15	25579557	25579670	chr15:25579557:25579670:-:0.35:0.000040	-
K562CellPapTssHmm	chr15	25579777	25579787	chr15:25579777:25579787:-:0.92:0.000000	-
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K562CellPapTssHmm	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562CellPapTssHmm	chr15	25582573	25582595	chr15:25582573:25582595:-:0.14:0.000504	-
K562CellPapTssHmm	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562CellPapTssHmm	chr15	25582912	25582922	chr15:25582912:25582922:-:0.35:0.000001	-
K562CellPapTssHmm	chr15	25582973	25582982	chr15:25582973:25582982:-:0.03:0.000000	-
K562CellPapTssHmm	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562CellPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562CellPapTssHmm	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562CellPapTssHmm	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562CellPapTssHmm	chr15	25584162	25584165	chr15:25584162:25584165:-:0.43:0.000000	-
K562CellPapTssHmm	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
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K562ChromatinTotalTssHmmV3	chr15	25572283	25572463	chr15:25572283:25572463:-:0.38:0.090045	-
K562ChromatinTotalTssHmmV3	chr15	25575265	25575417	chr15:25575265:25575417:-:1.23:0.000067	-
K562ChromatinTotalTssHmmV3	chr15	25577585	25577751	chr15:25577585:25577751:-:0.60:0.000215	-
K562ChromatinTotalTssHmmV3	chr15	25578225	25578423	chr15:25578225:25578423:-:0.01:0.000131	-
K562ChromatinTotalTssHmmV3	chr15	25578917	25579040	chr15:25578917:25579040:-:0.52:0.000000	-
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K562ChromatinTotalTssHmmV3	chr15	25580733	25580816	chr15:25580733:25580816:-:0.28:0.000002	-
K562ChromatinTotalTssHmmV3	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562ChromatinTotalTssHmmV3	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562ChromatinTotalTssHmmV3	chr15	25582143	25582158	chr15:25582143:25582158:-:1.01:0.000364	-
K562ChromatinTotalTssHmmV3	chr15	25582628	25582650	chr15:25582628:25582650:-:0.19:0.000001	-
K562ChromatinTotalTssHmmV3	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
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K562ChromatinTotalTssHmmV3	chr15	25582912	25582922	chr15:25582912:25582922:-:0.35:0.000001	-
K562ChromatinTotalTssHmmV3	chr15	25582973	25582982	chr15:25582973:25582982:-:0.03:0.000000	-
K562ChromatinTotalTssHmmV3	chr15	25583004	25583027	chr15:25583004:25583027:-:0.11:0.000000	-
K562ChromatinTotalTssHmmV3	chr15	25583041	25583050	chr15:25583041:25583050:-:0.61:0.000000	-
K562ChromatinTotalTssHmmV3	chr15	25583207	25583275	chr15:25583207:25583275:-:0.24:0.000053	-
K562ChromatinTotalTssHmmV3	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562ChromatinTotalTssHmmV3	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562ChromatinTotalTssHmmV3	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562ChromatinTotalTssHmmV3	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562ChromatinTotalTssHmmV3	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562ChromatinTotalTssHmmV3	chr15	25584148	25584153	chr15:25584148:25584153:-:0.43:0.000000	-
K562ChromatinTotalTssHmmV3	chr15	25584246	25584257	chr15:25584246:25584257:-:0.10:0.000000	-
K562ChromatinTotalTssHmmV3	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562ChromatinTotalTssHmmV3	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
K562ChromatinTotalTssHmmV3	chr15	25587609	25587616	chr15:25587609:25587616:-:2.84:0.000000	-

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K562CytosolPamTssHmmV2	chr15	25583543	25583563	chr15:25583543:25583563:-:0.51:0.000035	-
K562CytosolPamTssHmmV2	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562CytosolPamTssHmmV2	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562CytosolPamTssHmmV2	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562CytosolPamTssHmmV2	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
K562CytosolPamTssHmmV2	chr15	25584246	25584257	chr15:25584246:25584257:-:0.10:0.000000	-
K562CytosolPamTssHmmV2	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562CytosolPamTssHmmV2	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
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K562CytosolPapTssHmm	chr15	25579557	25579670	chr15:25579557:25579670:-:0.35:0.000040	-
K562CytosolPapTssHmm	chr15	25579777	25579787	chr15:25579777:25579787:-:0.92:0.000000	-
K562CytosolPapTssHmm	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562CytosolPapTssHmm	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562CytosolPapTssHmm	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562CytosolPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562CytosolPapTssHmm	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562CytosolPapTssHmm	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562CytosolPapTssHmm	chr15	25584162	25584165	chr15:25584162:25584165:-:0.43:0.000000	-
K562CytosolPapTssHmm	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
K562CytosolPapTssHmm	chr15	25584246	25584257	chr15:25584246:25584257:-:0.10:0.000000	-
K562CytosolPapTssHmm	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562CytosolPapTssHmm	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
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K562NucleolusTotalTssHmmV3	chr15	25572283	25572463	chr15:25572283:25572463:-:0.38:0.090045	-
K562NucleolusTotalTssHmmV3	chr15	25574795	25574981	chr15:25574795:25574981:-:0.11:0.000194	-
K562NucleolusTotalTssHmmV3	chr15	25575265	25575417	chr15:25575265:25575417:-:1.23:0.000067	-
K562NucleolusTotalTssHmmV3	chr15	25577585	25577751	chr15:25577585:25577751:-:0.60:0.000215	-
K562NucleolusTotalTssHmmV3	chr15	25578225	25578423	chr15:25578225:25578423:-:0.01:0.000131	-

K562NucleolusTotalTssHmmV3	chr15	25578917	25579040	chr15:25578917:25579040:-:0.52:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25579557	25579670	chr15:25579557:25579670:-:0.35:0.000040	-
K562NucleolusTotalTssHmmV3	chr15	25580319	25580349	chr15:25580319:25580349:-:0.02:0.000460	-
K562NucleolusTotalTssHmmV3	chr15	25580733	25580816	chr15:25580733:25580816:-:0.28:0.000002	-
K562NucleolusTotalTssHmmV3	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562NucleolusTotalTssHmmV3	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562NucleolusTotalTssHmmV3	chr15	25582143	25582158	chr15:25582143:25582158:-:1.01:0.000364	-
K562NucleolusTotalTssHmmV3	chr15	25582573	25582595	chr15:25582573:25582595:-:0.14:0.000504	-
K562NucleolusTotalTssHmmV3	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562NucleolusTotalTssHmmV3	chr15	25582865	25582873	chr15:25582865:25582873:-:0.71:0.000001	-
K562NucleolusTotalTssHmmV3	chr15	25582912	25582922	chr15:25582912:25582922:-:0.35:0.000001	-
K562NucleolusTotalTssHmmV3	chr15	25582973	25582982	chr15:25582973:25582982:-:0.03:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25583004	25583027	chr15:25583004:25583027:-:0.11:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25583041	25583050	chr15:25583041:25583050:-:0.61:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25583207	25583275	chr15:25583207:25583275:-:0.24:0.000053	-
K562NucleolusTotalTssHmmV3	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562NucleolusTotalTssHmmV3	chr15	25583543	25583563	chr15:25583543:25583563:-:0.51:0.000035	-
K562NucleolusTotalTssHmmV3	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562NucleolusTotalTssHmmV3	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562NucleolusTotalTssHmmV3	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562NucleolusTotalTssHmmV3	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562NucleolusTotalTssHmmV3	chr15	25584148	25584153	chr15:25584148:25584153:-:0.43:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562NucleolusTotalTssHmmV3	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
K562NucleolusTotalTssHmmV3	chr15	25587609	25587616	chr15:25587609:25587616:-:2.84:0.000000	-
K562NucleolusTotalTssHmmV3	chr15	25588241	25588313	chr15:25588241:25588313:-:0.12:0.000038	-
K562NucleoplasmTotalTssHmmV3	chr15	25572283	25572463	chr15:25572283:25572463:-:0.38:0.090045	-
K562NucleoplasmTotalTssHmmV3	chr15	25574795	25574981	chr15:25574795:25574981:-:0.11:0.000194	-
K562NucleoplasmTotalTssHmmV3	chr15	25575265	25575417	chr15:25575265:25575417:-:1.23:0.000067	-
K562NucleoplasmTotalTssHmmV3	chr15	25577585	25577751	chr15:25577585:25577751:-:0.60:0.000215	-

K562NucleoplasmTotalTssHmmV3	chr15	25578225	25578423	chr15:25578225:25578423:-:0.01:0.000131	-
K562NucleoplasmTotalTssHmmV3	chr15	25579098	25579143	chr15:25579098:25579143:-:0.43:0.000045	-
K562NucleoplasmTotalTssHmmV3	chr15	25580733	25580816	chr15:25580733:25580816:-:0.28:0.000002	-
K562NucleoplasmTotalTssHmmV3	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562NucleoplasmTotalTssHmmV3	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562NucleoplasmTotalTssHmmV3	chr15	25582143	25582158	chr15:25582143:25582158:-:1.01:0.000364	-
K562NucleoplasmTotalTssHmmV3	chr15	25582573	25582595	chr15:25582573:25582595:-:0.14:0.000504	-
K562NucleoplasmTotalTssHmmV3	chr15	25582628	25582650	chr15:25582628:25582650:-:0.19:0.000001	-
K562NucleoplasmTotalTssHmmV3	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562NucleoplasmTotalTssHmmV3	chr15	25582865	25582873	chr15:25582865:25582873:-:0.71:0.000001	-
K562NucleoplasmTotalTssHmmV3	chr15	25583041	25583050	chr15:25583041:25583050:-:0.61:0.000000	-
K562NucleoplasmTotalTssHmmV3	chr15	25583207	25583275	chr15:25583207:25583275:-:0.24:0.000053	-
K562NucleoplasmTotalTssHmmV3	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562NucleoplasmTotalTssHmmV3	chr15	25583543	25583563	chr15:25583543:25583563:-:0.51:0.000035	-
K562NucleoplasmTotalTssHmmV3	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562NucleoplasmTotalTssHmmV3	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562NucleoplasmTotalTssHmmV3	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562NucleoplasmTotalTssHmmV3	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562NucleoplasmTotalTssHmmV3	chr15	25584162	25584165	chr15:25584162:25584165:-:0.43:0.000000	-
K562NucleoplasmTotalTssHmmV3	chr15	25584246	25584257	chr15:25584246:25584257:-:0.10:0.000000	-
K562NucleoplasmTotalTssHmmV3	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562NucleoplasmTotalTssHmmV3	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
K562NucleoplasmTotalTssHmmV3	chr15	25587609	25587616	chr15:25587609:25587616:-:2.84:0.000000	-
K562NucleoplasmTotalTssHmmV3	chr15	25588241	25588313	chr15:25588241:25588313:-:0.12:0.000038	-
K562NucleusPamTssHmmV2	chr15	25572283	25572463	chr15:25572283:25572463:-:0.38:0.090045	-
K562NucleusPamTssHmmV2	chr15	25574795	25574981	chr15:25574795:25574981:-:0.11:0.000194	-
K562NucleusPamTssHmmV2	chr15	25578225	25578423	chr15:25578225:25578423:-:0.01:0.000131	-
K562NucleusPamTssHmmV2	chr15	25578917	25579040	chr15:25578917:25579040:-:0.52:0.000000	-
K562NucleusPamTssHmmV2	chr15	25579098	25579143	chr15:25579098:25579143:-:0.43:0.000045	-
K562NucleusPamTssHmmV2	chr15	25579557	25579670	chr15:25579557:25579670:-:0.35:0.000040	-

K562NucleusPamTssHmmV2	chr15	25580319	25580349	chr15:25580319:25580349:-:0.02:0.000460	-
K562NucleusPamTssHmmV2	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562NucleusPamTssHmmV2	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562NucleusPamTssHmmV2	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562NucleusPamTssHmmV2	chr15	25584162	25584165	chr15:25584162:25584165:-:0.43:0.000000	-
K562NucleusPamTssHmmV2	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
K562NucleusPamTssHmmV2	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562NucleusPamTssHmmV2	chr15	25587609	25587616	chr15:25587609:25587616:-:2.84:0.000000	-
K562NucleusPamTssHmmV2	chr15	25587931	25587960	chr15:25587931:25587960:-:0.14:0.017878	-
K562NucleusPamTssHmmV2	chr15	25588241	25588313	chr15:25588241:25588313:-:0.12:0.000038	-
K562NucleusPapTssHmm	chr15	25565824	25566020	chr15:25565824:25566020:-:1.05:0.002160	-
K562NucleusPapTssHmm	chr15	25578225	25578423	chr15:25578225:25578423:-:0.01:0.000131	-
K562NucleusPapTssHmm	chr15	25578917	25579040	chr15:25578917:25579040:-:0.52:0.000000	-
K562NucleusPapTssHmm	chr15	25579098	25579143	chr15:25579098:25579143:-:0.43:0.000045	-
K562NucleusPapTssHmm	chr15	25579508	25579522	chr15:25579508:25579522:-:0.03:0.000003	-
K562NucleusPapTssHmm	chr15	25579557	25579670	chr15:25579557:25579670:-:0.35:0.000040	-
K562NucleusPapTssHmm	chr15	25579777	25579787	chr15:25579777:25579787:-:0.92:0.000000	-
K562NucleusPapTssHmm	chr15	25580319	25580349	chr15:25580319:25580349:-:0.02:0.000460	-
K562NucleusPapTssHmm	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562NucleusPapTssHmm	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562NucleusPapTssHmm	chr15	25582143	25582158	chr15:25582143:25582158:-:1.01:0.000364	-
K562NucleusPapTssHmm	chr15	25582419	25582426	chr15:25582419:25582426:-:0.93:0.000008	-
K562NucleusPapTssHmm	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562NucleusPapTssHmm	chr15	25583004	25583027	chr15:25583004:25583027:-:0.11:0.000000	-
K562NucleusPapTssHmm	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562NucleusPapTssHmm	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562NucleusPapTssHmm	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562NucleusPapTssHmm	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562NucleusPapTssHmm	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562NucleusPapTssHmm	chr15	25584162	25584165	chr15:25584162:25584165:-:0.43:0.000000	-

K562NucleusPapTssHmm	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
K562NucleusPapTssHmm	chr15	25584246	25584257	chr15:25584246:25584257:-:0.10:0.000000	-
K562NucleusPapTssHmm	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562NucleusPapTssHmm	chr15	25584403	25584406	chr15:25584403:25584406:-:0.10:0.000012	-
K562NucleusPapTssHmm	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
K562PolysomePamTssHmmV2	chr15	25565824	25566020	chr15:25565824:25566020:-:1.05:0.002160	-
K562PolysomePamTssHmmV2	chr15	25572283	25572463	chr15:25572283:25572463:-:0.38:0.090045	-
K562PolysomePamTssHmmV2	chr15	25575265	25575417	chr15:25575265:25575417:-:1.23:0.000067	-
K562PolysomePamTssHmmV2	chr15	25577585	25577751	chr15:25577585:25577751:-:0.60:0.000215	-
K562PolysomePamTssHmmV2	chr15	25580733	25580816	chr15:25580733:25580816:-:0.28:0.000002	-
K562PolysomePamTssHmmV2	chr15	25581040	25581190	chr15:25581040:25581190:-:0.02:0.004859	-
K562PolysomePamTssHmmV2	chr15	25581670	25581810	chr15:25581670:25581810:-:0.02:0.000048	-
K562PolysomePamTssHmmV2	chr15	25582143	25582158	chr15:25582143:25582158:-:1.01:0.000364	-
K562PolysomePamTssHmmV2	chr15	25582573	25582595	chr15:25582573:25582595:-:0.14:0.000504	-
K562PolysomePamTssHmmV2	chr15	25582628	25582650	chr15:25582628:25582650:-:0.19:0.000001	-
K562PolysomePamTssHmmV2	chr15	25582730	25582783	chr15:25582730:25582783:-:0.03:0.000027	-
K562PolysomePamTssHmmV2	chr15	25582865	25582873	chr15:25582865:25582873:-:0.71:0.000001	-
K562PolysomePamTssHmmV2	chr15	25582973	25582982	chr15:25582973:25582982:-:0.03:0.000000	-
K562PolysomePamTssHmmV2	chr15	25583041	25583050	chr15:25583041:25583050:-:0.61:0.000000	-
K562PolysomePamTssHmmV2	chr15	25583207	25583275	chr15:25583207:25583275:-:0.24:0.000053	-
K562PolysomePamTssHmmV2	chr15	25583354	25583515	chr15:25583354:25583515:-:0.12:0.000045	-
K562PolysomePamTssHmmV2	chr15	25583543	25583563	chr15:25583543:25583563:-:0.51:0.000035	-
K562PolysomePamTssHmmV2	chr15	25583650	25583696	chr15:25583650:25583696:-:0.06:0.000894	-
K562PolysomePamTssHmmV2	chr15	25583787	25583804	chr15:25583787:25583804:-:0.01:0.000031	-
K562PolysomePamTssHmmV2	chr15	25583843	25583888	chr15:25583843:25583888:-:0.01:0.000021	-
K562PolysomePamTssHmmV2	chr15	25583985	25584108	chr15:25583985:25584108:-:0.45:0.000031	-
K562PolysomePamTssHmmV2	chr15	25584201	25584208	chr15:25584201:25584208:-:0.43:0.000000	-
K562PolysomePamTssHmmV2	chr15	25584291	25584348	chr15:25584291:25584348:-:0.10:0.000108	-
K562PolysomePamTssHmmV2	chr15	25585276	25585385	chr15:25585276:25585385:-:1.98:0.000084	-
Mcf7CellPapTssHmm	chr15	25579035	25579042	chr15:25579035:25579042:-:4.22:0.000000	-

Mcf7CellPapTssHmm	chr15	25579517	25579670	chr15:25579517:25579670:-:0.30:0.000040	-
Mcf7CellPapTssHmm	chr15	25582420	25582575	chr15:25582420:25582575:-:0.03:0.000470	-
Mcf7CellPapTssHmm	chr15	25582733	25582746	chr15:25582733:25582746:-:1.00:0.000032	-
Mcf7CellPapTssHmm	chr15	25582970	25583049	chr15:25582970:25583049:-:0.73:0.000000	-
Mcf7CellPapTssHmm	chr15	25583397	25583565	chr15:25583397:25583565:-:0.01:0.000008	-
Mcf7CellPapTssHmm	chr15	25583788	25583804	chr15:25583788:25583804:-:1.32:0.000031	-
Mcf7CellPapTssHmm	chr15	25583985	25583993	chr15:25583985:25583993:-:1.36:0.000001	-
Mcf7CellPapTssHmm	chr15	25584093	25584211	chr15:25584093:25584211:-:0.53:0.000000	-
Mcf7CellPapTssHmm	chr15	25584318	25584362	chr15:25584318:25584362:-:0.87:0.000559	-
Mcf7CellPapTssHmm	chr15	25585277	25585378	chr15:25585277:25585378:-:1.66:0.000062	-
Mcf7CytosolPapTssHmm	chr15	25414365	25414564	chr15:25414365:25414564:-:0.000006	-
Mcf7CytosolPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25550016	25550065	chr15:25550016:25550065:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25579014	25579045	chr15:25579014:25579045:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25582421	25582424	chr15:25582421:25582424:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25582740	25582774	chr15:25582740:25582774:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25583785	25583795	chr15:25583785:25583795:-:0.000013	-
Mcf7CytosolPapTssHmm	chr15	25583986	25583993	chr15:25583986:25583993:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25584094	25584211	chr15:25584094:25584211:-:0.000301	-
Mcf7CytosolPapTssHmm	chr15	25584247	25584256	chr15:25584247:25584256:-:0.000000	-
Mcf7CytosolPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:0.000011	-
Mcf7NucleusPapTssHmm	chr15	25550016	25550065	chr15:25550016:25550065:-:0.000000	-
Mcf7NucleusPapTssHmm	chr15	25550322	25550333	chr15:25550322:25550333:-:0.000000	-
Mcf7NucleusPapTssHmm	chr15	25578404	25578447	chr15:25578404:25578447:-:0.000023	-
Mcf7NucleusPapTssHmm	chr15	25579014	25579045	chr15:25579014:25579045:-:0.000000	-
Mcf7NucleusPapTssHmm	chr15	25582421	25582424	chr15:25582421:25582424:-:0.000000	-
Mcf7NucleusPapTssHmm	chr15	25582740	25582774	chr15:25582740:25582774:-:0.000000	-
Mcf7NucleusPapTssHmm	chr15	25583785	25583795	chr15:25583785:25583795:-:0.000013	-
Mcf7NucleusPapTssHmm	chr15	25584094	25584211	chr15:25584094:25584211:-:0.000301	-
Mcf7NucleusPapTssHmm	chr15	25584247	25584256	chr15:25584247:25584256:-:0.000000	-

Mcf7NucleusPapTssHmm	chr15	25585230	25585377	chr15:25585230:25585377:-:0.000011	-
Mcf7NucleusPapTssHmm	chr15	25590681	25590708	chr15:25590681:25590708:-:0.000000	-
Monocd14CellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000005	-
Monocd14CellPapTssHmm	chr15	25582419	25582446	chr15:25582419:25582446:-:0.000001	-
Monocd14CellPapTssHmm	chr15	25583788	25583794	chr15:25583788:25583794:-:0.000298	-
Monocd14CellPapTssHmm	chr15	25584094	25584253	chr15:25584094:25584253:-:0.005615	-
Monocd14CellPapTssHmm	chr15	25585276	25585378	chr15:25585276:25585378:-:0.000253	-
NhdfCellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000000	-
NhdfCellPapTssHmm	chr15	25582421	25582450	chr15:25582421:25582450:-:0.000000	-
NhdfCellPapTssHmm	chr15	25584095	25584209	chr15:25584095:25584209:-:0.000000	-
NhdfCellPapTssHmm	chr15	25585282	25585381	chr15:25585282:25585381:-:0.000000	-
NhekCellPapTssHmm	chr15	25564475	25564611	chr15:25564475:25564611:-:0.64:0.000005	-
NhekCellPapTssHmm	chr15	25565913	25566020	chr15:25565913:25566020:-:0.68:0.002160	-
NhekCellPapTssHmm	chr15	25578210	25578320	chr15:25578210:25578320:-:0.61:0.000466	-
NhekCellPapTssHmm	chr15	25578912	25579039	chr15:25578912:25579039:-:0.18:0.000000	-
NhekCellPapTssHmm	chr15	25582722	25582746	chr15:25582722:25582746:-:0.48:0.000032	-
NhekCellPapTssHmm	chr15	25583445	25583508	chr15:25583445:25583508:-:0.40:0.000051	-
NhekCellPapTssHmm	chr15	25583783	25583804	chr15:25583783:25583804:-:1.10:0.000031	-
NhekCellPapTssHmm	chr15	25583985	25584000	chr15:25583985:25584000:-:0.53:0.000010	-
NhekCellPapTssHmm	chr15	25584094	25584214	chr15:25584094:25584214:-:0.61:0.000001	-
NhekCellPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:0.77:0.000000	-
NhekCellPapTssHmm	chr15	25584289	25584295	chr15:25584289:25584295:-:0.03:0.000000	-
NhekCellPapTssHmm	chr15	25584314	25584354	chr15:25584314:25584354:-:0.11:0.000240	-
NhekCellPapTssHmm	chr15	25585265	25585377	chr15:25585265:25585377:-:0.65:0.000103	-
NhekCytosolPamTssHmmV2	chr15	25550012	25550017	chr15:25550012:25550017:-:7.02:0.000001	-
NhekCytosolPamTssHmmV2	chr15	25565913	25566020	chr15:25565913:25566020:-:0.68:0.002160	-
NhekCytosolPamTssHmmV2	chr15	25578912	25579039	chr15:25578912:25579039:-:0.18:0.000000	-
NhekCytosolPamTssHmmV2	chr15	25582913	25583035	chr15:25582913:25583035:-:0.08:0.000000	-
NhekCytosolPamTssHmmV2	chr15	25583445	25583508	chr15:25583445:25583508:-:0.40:0.000051	-
NhekCytosolPamTssHmmV2	chr15	25583783	25583804	chr15:25583783:25583804:-:1.10:0.000031	-

NhekCytosolPamTssHmmV2	chr15	25583985	25584000	chr15:25583985:25584000:-:0.53:0.000010	-
NhekCytosolPamTssHmmV2	chr15	25584055	25584062	chr15:25584055:25584062:-:0.16:0.000092	-
NhekCytosolPamTssHmmV2	chr15	25584094	25584214	chr15:25584094:25584214:-:0.61:0.000001	-
NhekCytosolPamTssHmmV2	chr15	25584222	25584224	chr15:25584222:25584224:-:1.61:0.000000	-
NhekCytosolPamTssHmmV2	chr15	25584314	25584354	chr15:25584314:25584354:-:0.11:0.000240	-
NhekCytosolPamTssHmmV2	chr15	25584395	25584410	chr15:25584395:25584410:-:0.14:0.000015	-
NhekCytosolPamTssHmmV2	chr15	25585265	25585377	chr15:25585265:25585377:-:0.65:0.000103	-
NhekCytosolPapTssHmm	chr15	25578912	25579039	chr15:25578912:25579039:-:0.18:0.000000	-
NhekCytosolPapTssHmm	chr15	25579777	25579791	chr15:25579777:25579791:-:2.81:0.000001	-
NhekCytosolPapTssHmm	chr15	25581271	25581280	chr15:25581271:25581280:-:2.75:0.002498	-
NhekCytosolPapTssHmm	chr15	25582722	25582746	chr15:25582722:25582746:-:0.48:0.000032	-
NhekCytosolPapTssHmm	chr15	25582913	25583035	chr15:25582913:25583035:-:0.08:0.000000	-
NhekCytosolPapTssHmm	chr15	25583445	25583508	chr15:25583445:25583508:-:0.40:0.000051	-
NhekCytosolPapTssHmm	chr15	25583783	25583804	chr15:25583783:25583804:-:1.10:0.000031	-
NhekCytosolPapTssHmm	chr15	25583985	25584000	chr15:25583985:25584000:-:0.53:0.000010	-
NhekCytosolPapTssHmm	chr15	25584055	25584062	chr15:25584055:25584062:-:0.16:0.000092	-
NhekCytosolPapTssHmm	chr15	25584094	25584214	chr15:25584094:25584214:-:0.61:0.000001	-
NhekCytosolPapTssHmm	chr15	25584246	25584253	chr15:25584246:25584253:-:0.77:0.000000	-
NhekCytosolPapTssHmm	chr15	25584289	25584295	chr15:25584289:25584295:-:0.03:0.000000	-
NhekCytosolPapTssHmm	chr15	25584314	25584354	chr15:25584314:25584354:-:0.11:0.000240	-
NhekCytosolPapTssHmm	chr15	25584395	25584410	chr15:25584395:25584410:-:0.14:0.000015	-
NhekCytosolPapTssHmm	chr15	25585265	25585377	chr15:25585265:25585377:-:0.65:0.000103	-
NhekNucleusPamTssHmmV2	chr15	25550012	25550017	chr15:25550012:25550017:-:7.02:0.000001	-
NhekNucleusPamTssHmmV2	chr15	25562964	25563104	chr15:25562964:25563104:-:1.10:0.000001	-
NhekNucleusPamTssHmmV2	chr15	25564475	25564611	chr15:25564475:25564611:-:0.64:0.000005	-
NhekNucleusPamTssHmmV2	chr15	25565913	25566020	chr15:25565913:25566020:-:0.68:0.002160	-
NhekNucleusPamTssHmmV2	chr15	25566216	25566347	chr15:25566216:25566347:-:0.16:0.000045	-
NhekNucleusPamTssHmmV2	chr15	25566594	25566662	chr15:25566594:25566662:-:1.03:0.000709	-
NhekNucleusPamTssHmmV2	chr15	25567896	25567945	chr15:25567896:25567945:-:1.31:0.001122	-
NhekNucleusPamTssHmmV2	chr15	25569062	25569257	chr15:25569062:25569257:-:0.42:0.001396	-

NhekNucleusPamTssHmmV2	chr15	25572226	25572354	chr15:25572226:25572354:-:0.22:0.000107	-
NhekNucleusPamTssHmmV2	chr15	25578030	25578056	chr15:25578030:25578056:-:0.59:0.000016	-
NhekNucleusPamTssHmmV2	chr15	25578210	25578320	chr15:25578210:25578320:-:0.61:0.000466	-
NhekNucleusPamTssHmmV2	chr15	25578399	25578429	chr15:25578399:25578429:-:0.54:0.000149	-
NhekNucleusPamTssHmmV2	chr15	25578912	25579039	chr15:25578912:25579039:-:0.18:0.000000	-
NhekNucleusPamTssHmmV2	chr15	25579777	25579791	chr15:25579777:25579791:-:2.81:0.000001	-
NhekNucleusPamTssHmmV2	chr15	25581271	25581280	chr15:25581271:25581280:-:2.75:0.002498	-
NhekNucleusPamTssHmmV2	chr15	25582419	25582454	chr15:25582419:25582454:-:0.82:0.000097	-
NhekNucleusPamTssHmmV2	chr15	25582722	25582746	chr15:25582722:25582746:-:0.48:0.000032	-
NhekNucleusPamTssHmmV2	chr15	25582913	25583035	chr15:25582913:25583035:-:0.08:0.000000	-
NhekNucleusPamTssHmmV2	chr15	25583445	25583508	chr15:25583445:25583508:-:0.40:0.000051	-
NhekNucleusPamTssHmmV2	chr15	25583783	25583804	chr15:25583783:25583804:-:1.10:0.000031	-
NhekNucleusPamTssHmmV2	chr15	25583971	25583977	chr15:25583971:25583977:-:0.05:0.000000	-
NhekNucleusPamTssHmmV2	chr15	25583985	25584000	chr15:25583985:25584000:-:0.53:0.000010	-
NhekNucleusPamTssHmmV2	chr15	25584055	25584062	chr15:25584055:25584062:-:0.16:0.000092	-
NhekNucleusPamTssHmmV2	chr15	25584094	25584214	chr15:25584094:25584214:-:0.61:0.000001	-
NhekNucleusPamTssHmmV2	chr15	25584222	25584224	chr15:25584222:25584224:-:1.61:0.000000	-
NhekNucleusPamTssHmmV2	chr15	25584289	25584295	chr15:25584289:25584295:-:0.03:0.000000	-
NhekNucleusPamTssHmmV2	chr15	25584314	25584354	chr15:25584314:25584354:-:0.11:0.000240	-
NhekNucleusPamTssHmmV2	chr15	25584395	25584410	chr15:25584395:25584410:-:0.14:0.000015	-
NhekNucleusPamTssHmmV2	chr15	25585265	25585377	chr15:25585265:25585377:-:0.65:0.000103	-
NhekNucleusPamTssHmmV2	chr15	25588545	25588579	chr15:25588545:25588579:-:0.03:0.000001	-
NhekNucleusPamTssHmmV2	chr15	25588725	25588796	chr15:25588725:25588796:-:0.65:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25550012	25550017	chr15:25550012:25550017:-:7.02:0.000001	-
NhekNucleusPapTssHmmV2	chr15	25562964	25563104	chr15:25562964:25563104:-:1.10:0.000001	-
NhekNucleusPapTssHmmV2	chr15	25564475	25564611	chr15:25564475:25564611:-:0.64:0.000005	-
NhekNucleusPapTssHmmV2	chr15	25565913	25566020	chr15:25565913:25566020:-:0.68:0.002160	-
NhekNucleusPapTssHmmV2	chr15	25566216	25566347	chr15:25566216:25566347:-:0.16:0.000045	-
NhekNucleusPapTssHmmV2	chr15	25566594	25566662	chr15:25566594:25566662:-:1.03:0.000709	-
NhekNucleusPapTssHmmV2	chr15	25569062	25569257	chr15:25569062:25569257:-:0.42:0.001396	-

NhekNucleusPapTssHmmV2	chr15	25572226	25572354	chr15:25572226:25572354:-:0.22:0.000107	-
NhekNucleusPapTssHmmV2	chr15	25578030	25578056	chr15:25578030:25578056:-:0.59:0.000016	-
NhekNucleusPapTssHmmV2	chr15	25578210	25578320	chr15:25578210:25578320:-:0.61:0.000466	-
NhekNucleusPapTssHmmV2	chr15	25578399	25578429	chr15:25578399:25578429:-:0.54:0.000149	-
NhekNucleusPapTssHmmV2	chr15	25578912	25579039	chr15:25578912:25579039:-:0.18:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25579777	25579791	chr15:25579777:25579791:-:2.81:0.000001	-
NhekNucleusPapTssHmmV2	chr15	25581271	25581280	chr15:25581271:25581280:-:2.75:0.002498	-
NhekNucleusPapTssHmmV2	chr15	25582419	25582454	chr15:25582419:25582454:-:0.82:0.000097	-
NhekNucleusPapTssHmmV2	chr15	25582722	25582746	chr15:25582722:25582746:-:0.48:0.000032	-
NhekNucleusPapTssHmmV2	chr15	25582913	25583035	chr15:25582913:25583035:-:0.08:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25583445	25583508	chr15:25583445:25583508:-:0.40:0.000051	-
NhekNucleusPapTssHmmV2	chr15	25583783	25583804	chr15:25583783:25583804:-:1.10:0.000031	-
NhekNucleusPapTssHmmV2	chr15	25583971	25583977	chr15:25583971:25583977:-:0.05:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25583985	25584000	chr15:25583985:25584000:-:0.53:0.000010	-
NhekNucleusPapTssHmmV2	chr15	25584055	25584062	chr15:25584055:25584062:-:0.16:0.000092	-
NhekNucleusPapTssHmmV2	chr15	25584094	25584214	chr15:25584094:25584214:-:0.61:0.000001	-
NhekNucleusPapTssHmmV2	chr15	25584222	25584224	chr15:25584222:25584224:-:1.61:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25584246	25584253	chr15:25584246:25584253:-:0.77:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25584289	25584295	chr15:25584289:25584295:-:0.03:0.000000	-
NhekNucleusPapTssHmmV2	chr15	25584314	25584354	chr15:25584314:25584354:-:0.11:0.000240	-
NhekNucleusPapTssHmmV2	chr15	25584395	25584410	chr15:25584395:25584410:-:0.14:0.000015	-
NhekNucleusPapTssHmmV2	chr15	25585265	25585377	chr15:25585265:25585377:-:0.65:0.000103	-
NhekNucleusPapTssHmmV2	chr15	25588725	25588796	chr15:25588725:25588796:-:0.65:0.000000	-
NhekNucleusPapTssHmmV3	chr15	25582419	25582443	chr15:25582419:25582443:-:0.000577	-
NhekNucleusPapTssHmmV3	chr15	25582735	25582745	chr15:25582735:25582745:-:0.000012	-
NhekNucleusPapTssHmmV3	chr15	25583784	25583794	chr15:25583784:25583794:-:0.000667	-
NhekNucleusPapTssHmmV3	chr15	25583985	25583993	chr15:25583985:25583993:-:0.000060	-
NhekNucleusPapTssHmmV3	chr15	25584094	25584096	chr15:25584094:25584096:-:0.000000	-
NhekNucleusPapTssHmmV3	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
NhekNucleusPapTssHmmV3	chr15	25584160	25584163	chr15:25584160:25584163:-:0.000000	-

NhekNucleusPapTssHmmV3	chr15	25584201	25584203	chr15:25584201:25584203:-:0.000000	-
NhekNucleusPapTssHmmV3	chr15	25584316	25584320	chr15:25584316:25584320:-:0.000000	-
NhekNucleusPapTssHmmV3	chr15	25585276	25585377	chr15:25585276:25585377:-:0.000005	-
Nhemfm2CellPapTssHmm	chr15	25414366	25414438	chr15:25414366:25414438:-:0.000359	-
Nhemfm2CellPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000098	-
Nhemfm2CellPapTssHmm	chr15	25582421	25582424	chr15:25582421:25582424:-:0.000018	-
Nhemfm2CellPapTssHmm	chr15	25583988	25583994	chr15:25583988:25583994:-:0.000001	-
Nhemfm2CellPapTssHmm	chr15	25584105	25584109	chr15:25584105:25584109:-:0.000001	-
Nhemfm2CellPapTssHmm	chr15	25584161	25584165	chr15:25584161:25584165:-:0.000000	-
Nhemfm2CellPapTssHmm	chr15	25585282	25585288	chr15:25585282:25585288:-:0.000041	-
Nhemm2CellPapTssHmm	chr15	25550016	25550059	chr15:25550016:25550059:-:0.000000	-
Nhemm2CellPapTssHmm	chr15	25582421	25582424	chr15:25582421:25582424:-:0.000055	-
Nhemm2CellPapTssHmm	chr15	25582740	25582745	chr15:25582740:25582745:-:0.000000	-
Nhemm2CellPapTssHmm	chr15	25583790	25583792	chr15:25583790:25583792:-:0.000019	-
Nhemm2CellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000110	-
Nhemm2CellPapTssHmm	chr15	25584162	25584164	chr15:25584162:25584164:-:0.000027	-
Nhemm2CellPapTssHmm	chr15	25584316	25584319	chr15:25584316:25584319:-:0.000010	-
Nhemm2CellPapTssHmm	chr15	25584404	25584408	chr15:25584404:25584408:-:0.000016	-
Nhemm2CellPapTssHmm	chr15	25585276	25585377	chr15:25585276:25585377:-:0.000095	-
SkmcCellPapTssHmm	chr15	25414366	25414564	chr15:25414366:25414564:-:0.000008	-
SkmcCellPapTssHmm	chr15	25507641	25507649	chr15:25507641:25507649:-:0.000000	-
SkmcCellPapTssHmm	chr15	25579030	25579118	chr15:25579030:25579118:-:0.000000	-
SkmcCellPapTssHmm	chr15	25583790	25583795	chr15:25583790:25583795:-:0.000000	-
SkmcCellPapTssHmm	chr15	25584104	25584106	chr15:25584104:25584106:-:0.000000	-
SkmcCellPapTssHmm	chr15	25584201	25584212	chr15:25584201:25584212:-:0.000287	-
SkmcCellPapTssHmm	chr15	25584249	25584251	chr15:25584249:25584251:-:0.000000	-
SkmcCellPapTssHmm	chr15	25584314	25584320	chr15:25584314:25584320:-:0.000000	-
SkmcCellPapTssHmm	chr15	25585276	25585383	chr15:25585276:25585383:-:0.000000	-
SknshCellPapTssHmm	chr15	25414365	25414564	chr15:25414365:25414564:-:0.000016	-
SknshCellPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000001	-

SknshCellPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
SknshCellPapTssHmm	chr15	25578407	25578414	chr15:25578407:25578414:-:0.000518	-
SknshCellPapTssHmm	chr15	25579029	25579044	chr15:25579029:25579044:-:0.000000	-
SknshCellPapTssHmm	chr15	25579514	25579521	chr15:25579514:25579521:-:0.000000	-
SknshCellPapTssHmm	chr15	25579572	25579577	chr15:25579572:25579577:-:0.000000	-
SknshCellPapTssHmm	chr15	25579777	25579785	chr15:25579777:25579785:-:0.000000	-
SknshCellPapTssHmm	chr15	25580264	25580345	chr15:25580264:25580345:-:0.000186	-
SknshCellPapTssHmm	chr15	25581271	25581283	chr15:25581271:25581283:-:0.000639	-
SknshCellPapTssHmm	chr15	25582420	25582426	chr15:25582420:25582426:-:0.000003	-
SknshCellPapTssHmm	chr15	25582442	25582445	chr15:25582442:25582445:-:0.000031	-
SknshCellPapTssHmm	chr15	25582539	25582541	chr15:25582539:25582541:-:0.000002	-
SknshCellPapTssHmm	chr15	25582739	25582747	chr15:25582739:25582747:-:0.000000	-
SknshCellPapTssHmm	chr15	25582973	25582979	chr15:25582973:25582979:-:0.000000	-
SknshCellPapTssHmm	chr15	25583005	25583010	chr15:25583005:25583010:-:0.000000	-
SknshCellPapTssHmm	chr15	25583231	25583235	chr15:25583231:25583235:-:0.000002	-
SknshCellPapTssHmm	chr15	25583414	25583422	chr15:25583414:25583422:-:0.000000	-
SknshCellPapTssHmm	chr15	25583446	25583452	chr15:25583446:25583452:-:0.000000	-
SknshCellPapTssHmm	chr15	25583492	25583499	chr15:25583492:25583499:-:0.000000	-
SknshCellPapTssHmm	chr15	25583790	25583794	chr15:25583790:25583794:-:0.000001	-
SknshCellPapTssHmm	chr15	25583870	25583873	chr15:25583870:25583873:-:0.000001	-
SknshCellPapTssHmm	chr15	25583885	25583888	chr15:25583885:25583888:-:0.000000	-
SknshCellPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.000001	-
SknshCellPapTssHmm	chr15	25584093	25584209	chr15:25584093:25584209:-:0.000015	-
SknshCellPapTssHmm	chr15	25584247	25584254	chr15:25584247:25584254:-:0.000002	-
SknshCellPapTssHmm	chr15	25584291	25584294	chr15:25584291:25584294:-:0.000003	-
SknshCellPapTssHmm	chr15	25584318	25584320	chr15:25584318:25584320:-:0.000067	-
SknshCellPapTssHmm	chr15	25584332	25584334	chr15:25584332:25584334:-:0.000095	-
SknshCellPapTssHmm	chr15	25584403	25584408	chr15:25584403:25584408:-:0.000000	-
SknshCellPapTssHmm	chr15	25585276	25585378	chr15:25585276:25585378:-:0.000002	-
SknshCytosolPapTssHmm	chr15	25414365	25414564	chr15:25414365:25414564:-:0.000016	-

SknshCytosolPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000001	-
SknshCytosolPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25579029	25579044	chr15:25579029:25579044:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25579572	25579577	chr15:25579572:25579577:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25580264	25580345	chr15:25580264:25580345:-:0.000186	-
SknshCytosolPapTssHmm	chr15	25582420	25582426	chr15:25582420:25582426:-:0.000003	-
SknshCytosolPapTssHmm	chr15	25582442	25582445	chr15:25582442:25582445:-:0.000031	-
SknshCytosolPapTssHmm	chr15	25582539	25582541	chr15:25582539:25582541:-:0.000002	-
SknshCytosolPapTssHmm	chr15	25582739	25582747	chr15:25582739:25582747:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25582973	25582979	chr15:25582973:25582979:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25583231	25583235	chr15:25583231:25583235:-:0.000002	-
SknshCytosolPapTssHmm	chr15	25583446	25583452	chr15:25583446:25583452:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25583492	25583499	chr15:25583492:25583499:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25583790	25583794	chr15:25583790:25583794:-:0.000001	-
SknshCytosolPapTssHmm	chr15	25583870	25583873	chr15:25583870:25583873:-:0.000001	-
SknshCytosolPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.000001	-
SknshCytosolPapTssHmm	chr15	25584093	25584209	chr15:25584093:25584209:-:0.000015	-
SknshCytosolPapTssHmm	chr15	25584247	25584254	chr15:25584247:25584254:-:0.000002	-
SknshCytosolPapTssHmm	chr15	25584291	25584294	chr15:25584291:25584294:-:0.000003	-
SknshCytosolPapTssHmm	chr15	25584318	25584320	chr15:25584318:25584320:-:0.000067	-
SknshCytosolPapTssHmm	chr15	25584403	25584408	chr15:25584403:25584408:-:0.000000	-
SknshCytosolPapTssHmm	chr15	25585276	25585378	chr15:25585276:25585378:-:0.000002	-
SknshNucleusPapTssHmm	chr15	25364300	25364320	chr15:25364300:25364320:-:0.000085	-
SknshNucleusPapTssHmm	chr15	25414365	25414564	chr15:25414365:25414564:-:0.000016	-
SknshNucleusPapTssHmm	chr15	25507642	25507649	chr15:25507642:25507649:-:0.000001	-
SknshNucleusPapTssHmm	chr15	25550015	25550018	chr15:25550015:25550018:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25563024	25563103	chr15:25563024:25563103:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25578211	25578222	chr15:25578211:25578222:-:0.000001	-
SknshNucleusPapTssHmm	chr15	25578407	25578414	chr15:25578407:25578414:-:0.000518	-
SknshNucleusPapTssHmm	chr15	25578921	25578925	chr15:25578921:25578925:-:0.000000	-

SknshNucleusPapTssHmm	chr15	25579029	25579044	chr15:25579029:25579044:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25579514	25579521	chr15:25579514:25579521:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25579572	25579577	chr15:25579572:25579577:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25579777	25579785	chr15:25579777:25579785:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25580264	25580345	chr15:25580264:25580345:-:0.000186	-
SknshNucleusPapTssHmm	chr15	25581271	25581283	chr15:25581271:25581283:-:0.000639	-
SknshNucleusPapTssHmm	chr15	25582420	25582426	chr15:25582420:25582426:-:0.000003	-
SknshNucleusPapTssHmm	chr15	25582442	25582445	chr15:25582442:25582445:-:0.000031	-
SknshNucleusPapTssHmm	chr15	25582739	25582747	chr15:25582739:25582747:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583005	25583010	chr15:25583005:25583010:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583414	25583422	chr15:25583414:25583422:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583446	25583452	chr15:25583446:25583452:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583492	25583499	chr15:25583492:25583499:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583790	25583794	chr15:25583790:25583794:-:0.000001	-
SknshNucleusPapTssHmm	chr15	25583885	25583888	chr15:25583885:25583888:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25583986	25583999	chr15:25583986:25583999:-:0.000001	-
SknshNucleusPapTssHmm	chr15	25584093	25584209	chr15:25584093:25584209:-:0.000015	-
SknshNucleusPapTssHmm	chr15	25584247	25584254	chr15:25584247:25584254:-:0.000002	-
SknshNucleusPapTssHmm	chr15	25584291	25584294	chr15:25584291:25584294:-:0.000003	-
SknshNucleusPapTssHmm	chr15	25584318	25584320	chr15:25584318:25584320:-:0.000067	-
SknshNucleusPapTssHmm	chr15	25584332	25584334	chr15:25584332:25584334:-:0.000095	-
SknshNucleusPapTssHmm	chr15	25584403	25584408	chr15:25584403:25584408:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25585276	25585378	chr15:25585276:25585378:-:0.000002	-
SknshNucleusPapTssHmm	chr15	25587933	25587973	chr15:25587933:25587973:-:0.002661	-
SknshNucleusPapTssHmm	chr15	25588612	25588617	chr15:25588612:25588617:-:0.000000	-
SknshNucleusPapTssHmm	chr15	25590127	25590178	chr15:25590127:25590178:-:0.000003	-
SknshraCellPapTssHmm	chr15	25583447	25583503	chr15:25583447:25583503:-:1.41:0.000084	-
SknshraCellPapTssHmm	chr15	25583788	25583889	chr15:25583788:25583889:-:0.16:0.000015	-
SknshraCellPapTssHmm	chr15	25584094	25584253	chr15:25584094:25584253:-:0.67:0.000000	-
SknshraCellPapTssHmm	chr15	25584318	25584334	chr15:25584318:25584334:-:1.06:0.000041	-

SknshraCellPapTssHmm	chr15	25585024	25585026	chr15:25585024:25585026:-:4.57:0.000000	-
SknshraCellPapTssHmm	chr15	25585277	25585377	chr15:25585277:25585377:-:0.64:0.000103	-



FirstChoice® Human Total RNA Survey Panel

Table S4. General information of the total RNA samples used in this study.

Store at -70°C .
Do not store in a frost-free freezer.

Catalog #:	AM6000
Amount:	10 μg each pool
Source:	See page 3+
Absorbance _{260/280} :	1.7–2.1
Concentration:	1 mg/mL
Storage Conditions:	Store at or below -70°C . Avoid multiple freeze-thaw cycles. Aliquots of the product may be stored short-term at -20°C . <i>Do not store in a frost-free freezer.</i>
Storage Buffer:	THE RNA Storage Solution (1 mM Sodium Citrate, pH 6.4; Cat #AM7000)

USER INFORMATION

Product Description: Ambion's FirstChoice® Human Total RNA Survey Panel consists of 10 μg pools of total RNA from 20 different normal, human tissues. Each pool is comprised of RNA from at least 3 tissue donors and includes documentation on each donor in the form of age, sex, race, cause of death, or diagnoses.

FirstChoice® Human Tissue Total RNA is prepared from tissues that have been frozen or stored in RNA/ater® Tissue Collection: RNA Stabilization Solution (Cat #AM7020) until processing. RNA is isolated using a modified version of Ambion's ToTALLY RNA™ Kit (Cat #AM1910). The purified RNA undergoes a stringent DNase treatment. It has been precisely quantified and is provided at 1 mg/mL in THE RNA Storage Solution (Cat #AM7000). The integrity of the RNA is verified by capillary electrophoresis using the Agilent® 2100 bioanalyzer.

FirstChoice Tissue Total RNA provides the researcher with access to RNA isolated from tissue that might otherwise be unavailable or difficult to work with due to small sample size or high RNase content. In addition, the RNA may serve as a positive control when a particular mRNA is known to be expressed in this tissue. FirstChoice Total RNAs are ready for use in RT-PCR, Northern analysis, ribonuclease protection assays, S1 nuclease assays, cDNA synthesis, and in vitro translation. FirstChoice Tissue Total RNA is certified to contain small RNAs (miRNA, siRNA, and snRNA).

Handling Instructions: RNA is very sensitive to degradation by exogenous ribonucleases introduced during handling. Wear gloves when handling this product. Use RNase-free reagents, tubes, and barrier pipette tips.

Thawing Instructions

Thaw just to completion at 37°C , vortex for a few seconds when fully thawed, and place on ice. Aliquot the RNA, if necessary, to minimize freeze-thaw cycles (≤ 5).

Tissue Procurement: Ambion is committed to the highest ethical standards for tissue procurement.

- Ambion is committed to maintaining the highest level of ethical standards with regard to all tissue that is used in the preparation of RNA and RNA-derived products.
- Ambion certifies that all of our human-derived materials have been prepared from tissue obtained with consent from a fully informed donor or a member of the donor's family.
- Ambion further guarantees that all human tissue received has been procured following our internal guidelines and policies.

Note: No known test method can offer absolute assurance that products derived from human biological materials will not transmit infectious diseases. Employ appropriate universal precautions when using human-derived materials [1].

Reference: 1. Grizzle WE and Polt SS (1998) Guidelines to avoid personnel contamination by infective agents in research laboratories that use human tissues. *J Tissue Culture Methods*. 11:191–199.

CERTIFICATE OF ANALYSIS

Product: FirstChoice® Human Total RNA Survey Panel
Catalog #: AM6000
Lot #: 1107091
Nonspecific Endonuclease Activity: Meets or exceeds specification when a sample is incubated with 300 ng supercoiled plasmid DNA and analyzed by agarose gel electrophoresis.
Result: PASS
Exonuclease Activity: Meets or exceeds specification when a sample is incubated with labeled double-stranded DNA and analyzed by PAGE.
Result: PASS
Functional Testing:
Accelerated Stability Testing
RNA integrity is checked on an Agilent® bioanalyzer before and after a 14–18 hr incubation at 37°C.
Result: PASS
DNA Contamination
Real-time PCR using a TBP (Tata Box Binding Protein) TaqMan® probe is performed.
Result: PASS



Michael Zwick
Manager, Quality Assurance

OTHER INFORMATION

Material Safety Data Sheets: Material Safety Data Sheets (MSDSs) can be printed or downloaded from product-specific links on our website at the following address: www.ambion.com/techlib/msds. Alternatively, e-mail your request to MSDS_Inquiry_CCRM@appliedbiosystems.com. Specify the catalog or part number(s) of the product(s), and we will e-mail the associated MSDSs unless you specify a preference for fax delivery. For customers without access to the internet or fax, our technical service department can fulfill MSDS requests placed by telephone or postal mail. (Requests for postal delivery require 1–2 weeks for processing.)

Warranty and Liability: *For research use only. Not for use in diagnostic procedures.*
Applied Biosystems is committed to delivering superior product quality and performance, supported by industry-leading global service and technical support teams. Warranty information for the accompanying consumable product is available at www.ambion.com/info/warranty in "Limited Warranty for Consumables," which is subject to the exclusions, conditions, exceptions, and limitations set forth under the caption "EXCLUSIONS, CONDITIONS, EXCEPTIONS, AND LIMITATIONS" in the full warranty statement. Please contact Applied Biosystems if you have any questions about our warranties or would like information about post-warranty support.

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HUMAN TOTAL RNA SURVEY PANEL DONOR INFORMATION

Adipose

Donor Information:	Race: Gender: Age:	Hispanic Male 60	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Fall - Intracranial Bleed
Donor Information:	Race: Gender: Age:	caucasian Male 85	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV cardiac arrest
Donor Information:	Race: Gender: Age:	Caucasian Male 59	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV Motor Vehicle Accident

Bladder

Donor Information:	Race: Gender: Age:	Caucasian Male 86	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cardiopulmonary Arrest
Donor Information:	Race: Gender: Age:	Caucasian Male 79	Negative Serology Results: C.O.D. / Other:	HIV1/2, HBV, HCV Cardiac arrest
Donor Information:	Race: Gender: Age:	Caucasian Male 96	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Unknown

Brain

Donor Information:	Race: Gender: Age:	Caucasian Female 59	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Congestive Heart Failure
Donor Information:	Race: Gender: Age:	Caucasian Male 23	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cardiac Arrest
Donor Information:	Race: Gender: Age:	Caucasian Female 85	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV Pneumonia

Cervix

Donor Information:	Race: Gender: Age:	Caucasian Female 49	Negative Serology Results: C.O.D. / Other:	HIV1/2, HBV, HCV Intracranial Hemorrhage
Donor Information:	Race: Gender: Age:	Caucasian Female 42	Negative Serology Results: C.O.D. / Other:	HIV, HBV N/A - hysterectomy
Donor Information:	Race: Gender: Age:	African-American Female 49	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV N/A - hysterectomy

Colon

Donor Information:	Race: Gender: Age:	Caucasian Male 62	Negative Serology Results: C.O.D. / Other:	HIV I, HIV II, HBV, HCV Head Trauma
Donor Information:	Race: Gender: Age:	n/a Female 75	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Congestive Heart Failure

Donor Information:	Race: Gender: Age:	Caucasian Male 71	Negative Serology Results: C.O.D. / Other:	HIV I, II, HBV, HCV Alzheimers
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Esophagus

Donor Information:	Race: Gender: Age:	Caucasian Female 85	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Chronic obstructive pulmonary disease
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Donor Information:	Race: Gender: Age:	Caucasian Female 75	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cardiac arrest
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Donor Information:	Race: Gender: Age:	Caucasian Male 74	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cardiac arrest
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Heart

Donor Information:	Race: Gender: Age:	Caucasian Female 73	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV, RPR Heart related-MI
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Donor Information:	Race: Gender: Age:	Caucasian Female 70	Negative Serology Results: C.O.D. / Other:	HIV I, HIV II, HBV, HCV Alzheimers
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Donor Information:	Race: Gender: Age:	Caucasian Male 74	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Stroke
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Kidney

Donor Information:	Race: Gender: Age:	African American Female 63	Negative Serology Results: C.O.D. / Other:	HIV I, HIV II, HBV, HCV Intracranial Bleed
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Donor Information:	Race: Gender: Age:	Caucasian Male 64	Negative Serology Results: C.O.D. / Other:	HIV I, HIV II, HBV, HCV Intracranial bleed
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Donor Information:	Race: Gender: Age:	Hispanic Female 62	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Intracranial bleed
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Liver

Donor Information:	Race: Gender: Age:	Unknown Male 69	Negative Serology Results: C.O.D. / Other:	HIV I, II, HBV, HCV Intracranial Hemorrhage
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Donor Information:	Race: Gender: Age:	Caucasian Male 64	Negative Serology Results: C.O.D. / Other:	HIV 1, HIV 2, HBV, HCV Intracranial Hemorrhage
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Donor Information:	Race: Gender: Age:	Unknown Female 25	Negative Serology Results: C.O.D. / Other:	HIV, HBV, HCV Motor Vehicle Accident
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Lung

Donor Information:	Race: Gender: Age:	Caucasian Female 94	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cardiac Arrest
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Donor Information:	Race: Gender:	Caucasian Male	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Head Trauma
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Age: 47
Donor Information: Race: Caucasian
Gender: Male
Age: 77
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Renal Failure

Ovary

Donor Information: Race: African American
Gender: Female
Age: 47
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Intracranial hemorrhage

Donor Information: Race: Caucasian
Gender: Female
Age: 86
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Congestive Heart Failure

Donor Information: Race: Caucasian
Gender: Female
Age: 92
Negative Serology Results: HIV I/II, HCV
C.O.D. / Other: Congestive Heart Failure

Placenta

Donor Information: Race: African American
Gender: Female
Age: 21
Negative Serology Results: N/A
C.O.D. / Other: Collected at birth

Donor Information: Race: Caucasian
Gender: Female
Age: N/A
Negative Serology Results: N/A
C.O.D. / Other: Child birth

Donor Information: Race: Caucasian
Gender: Female
Age: 33
Negative Serology Results: N/A
C.O.D. / Other: Child birth

Prostate

Donor Information: Race: Caucasian
Gender: Male
Age: 72
Negative Serology Results: HIV I/II, HCV, HBV
C.O.D. / Other: Unknown

Donor Information: Race: Caucasian
Gender: Male
Age: 57
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Cerebral Vascular Accident

Donor Information: Race: Caucasian
Gender: Male
Age: 79
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Alzheimer's disease

Skeletal Muscle

Donor Information: Race: Caucasian
Gender: Male
Age: 60
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Cerebral vascular accident

Donor Information: Race: Caucasian
Gender: Female
Age: 55
Negative Serology Results: HIV I, II, HBV, HCV
C.O.D. / Other: Uterine Cancer

Donor Information: Race: Caucasian
Gender: Female
Age: 49
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Intracranial hemorrhage

Small Intestine

Donor Information: Race: Caucasian
Gender: Female
Age: 40
Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Hemorrhagic stroke

Donor Information:	Race: Gender: Age:	Caucasian Male 15	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Anoxia
Donor Information:	Race: Gender: Age:	Caucasian Male 85	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Intracranial hemorrhage

Spleen

Donor Information:	Race: Gender: Age:	Caucasian Male 70	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Anoxia
Donor Information:	Race: Gender: Age:	Caucasian Male 50	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cerebral vascular accident
Donor Information:	Race: Gender: Age:	African American Male 39	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Motor vehicle accident

Testes

Donor Information:	Race: Gender: Age:	Caucasian Male 36	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV Deep Veined Thrombosis
Donor Information:	Race: Gender: Age:	Caucasian Male 57	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV Intracranial Bleeding
Donor Information:	Race: Gender: Age:	Caucasian Male 34	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV Head Trauma

Thymus

Donor Information:	Race: Gender: Age:	Unknown Male 10 months	Negative Serology Results: C.O.D. / Other:	HIV I/II, HCV N/A - surgical procurement
Donor Information:	Race: Gender: Age:	Unknown Male 6 months	Negative Serology Results: C.O.D. / Other:	HIV I, II, HBV, HCV Surgery
Donor Information:	Race: Gender: Age:	Unknown Male 6 months	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV N/A--surgical procurement

Thyroid

Donor Information:	Race: Gender: Age:	Caucasian Female 38	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV ICH
Donor Information:	Race: Gender: Age:	Caucasian Female 60	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Cerebral vascular accident
Donor Information:	Race: Gender: Age:	Caucasian Female 68	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Gall bladder cancer

Trachea

Donor Information:	Race: Gender: Age:	Caucasian Female 78	Negative Serology Results: C.O.D. / Other:	HIV I/II, HBV, HCV Congestive heart failure
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Donor Information:

Race: Caucasian
Gender: Male
Age: 59

Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Aspiration

Donor Information:

Race: Caucasian
Gender: Male
Age: 59

Negative Serology Results: HIV I/II, HBV, HCV
C.O.D. / Other: Lung cancer

Table S5. qPCR data analyses for Figures 2 and 3

SNORD64	Ruler Mean Cq	Ruler StDev Cq	SNORD64 Mean Cq	SNORD64 StDev Cq	SNORD64 ΔCq	SNORD64 2^{ΔCq}
Adipose	20.25	0.10	23.054582	0.307123996	-2.80	0.143608495
Bladder	19.91	0.09	22.70260767	0.063757062	-2.79	0.144651544
Brain	19.48	0.05	18.98988133	0.243782265	0.49	1.407569353
Cervex	20.30	0.04	22.58648933	0.054829017	-2.29	0.204873666
Colon	20.07	0.08	23.18119533	0.059277453	-3.11	0.115479025
Esophagus	20.34	0.13	23.84348533	0.092714396	-3.50	0.088456943
Heart	20.50	0.12	21.51018133	0.126672967	-1.01	0.497757523
Kidney	20.37	0.07	22.06369733	0.163073479	-1.69	0.309932629
Liver	19.97	0.05	24.65144167	0.130773978	-4.68	0.039067988
Lung	19.99	0.07	23.289068	0.092509188	-3.29	0.101942364
Ovary	19.70	0.10	20.232985	0.04736916	-0.53	0.692157556
Placenta	19.40	0.07	25.15985833	0.081082302	-5.76	0.018479387
Prostate	20.10	0.09	22.363168	0.112861529	-2.26	0.208135939
Skeletal Mus	19.98	0.11	21.547954	0.144862142	-1.56	0.338217058
Small Intesti	19.92	0.09	23.21274467	0.057879459	-3.30	0.101832266
Spleen	19.44	0.11	22.81798033	0.030152828	-3.38	0.096371305
Testis	19.86	0.18	22.68354	0.157210759	-2.83	0.140978166
Thymus	19.18	0.11	21.49162733	0.158055178	-2.32	0.200768926
Thyroid	19.00	0.22	19.78155333	0.182734991	-0.78	0.582574762
Trachea	19.98	0.14	23.13872533	0.233538126	-3.16	0.1116218

SNORD116	Ruler Mean Cq	Ruler StDev Cq	SNORD116 Mean Cq	SNORD116 StDev Cq	SNORD116 ΔCq	SNORD116 2^{ΔCq}
Adipose	20.25	0.10	20.089271	0.907864361	0.17	1.121573368
Bladder	19.91	0.09	19.064489	0.199467612	0.85	1.80096768
Brain	19.48	0.05	16.41409833	0.173811322	3.07	8.391850681
Cervex	20.30	0.04	19.14205867	0.051089206	1.16	2.230298989
Colon	20.07	0.08	19.66393967	0.226317956	0.40	1.322216483
Esophagus	20.34	0.13	19.90734933	0.360554848	0.44	1.35402577
Heart	20.50	0.12	18.731496	0.292876903	1.77	3.415745198
Kidney	20.37	0.07	19.047473	0.309686876	1.33	2.507502062
Liver	19.97	0.05	20.80258	0.089744279	-0.83	0.562916345
Lung	19.99	0.07	18.83555367	0.138571223	1.16	2.23355218
Ovary	19.70	0.10	17.54498067	0.033648299	2.16	4.460411192
Placenta	19.40	0.07	20.92168067	0.095850664	-1.52	0.348743537
Prostate	20.10	0.09	18.19235933	0.061413966	1.91	3.748742336
Skeletal Mus	19.98	0.11	18.93389767	0.059095604	1.05	2.07064131
Small Intesti	19.92	0.09	20.47052233	0.400152573	-0.55	0.681359922
Spleen	19.44	0.11	19.623311	0.055023849	-0.18	0.882346228
Testis	19.86	0.18	18.365521	0.156346579	1.49	2.811933843
Thymus	19.18	0.11	18.008961	0.019771798	1.17	2.244313523
Thyroid	19.00	0.22	15.89837	0.081526735	3.10	8.596196375

Trachea	19.98	0.14	19.802136	0.168125957	0.17	1.12761928
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SNORD115	Ruler	Ruler	SNORD115	SNORD115	SNORD115	SNORD115
	Mean Cq	StDev Cq	Mean Cq	StDev Cq	ΔCq	2^{ΔCq}
Adipose	20.25	0.10	27.599195	0.2171232	-7.34	0.006153401
Bladder	19.91	0.09	25.712524	0.0785456	-5.80	0.017957591
Brain	19.48	0.05	17.354382	0.1015871	2.13	4.373249548
Cervex	20.30	0.04	28.421859	0.1111631	-8.12	0.003588103
Colon	20.07	0.08	26.43362	0.0452215	-6.37	0.012117851
Esophagus	20.34	0.13	26.739799	0.1948678	-6.40	0.011881045
Heart	20.50	0.12	25.613941	0.0743113	-5.11	0.028950974
Kidney	20.37	0.07	24.279352	0.1370962	-3.91	0.066725031
Liver	19.97	0.05	24.523884	0.0974269	-4.55	0.04267953
Lung	19.99	0.07	27.273714	0.126964	-7.28	0.006439569
Ovary	19.70	0.10	25.296464	0.0775472	-5.59	0.02069884
Placenta	19.40	0.07	27.586252	0.2816256	-8.18	0.003437718
Prostate	20.10	0.09	24.952844	0.0999745	-4.85	0.034576173
Skeletal Mus	19.98	0.11	23.811312	0.2427325	-3.83	0.070446068
Small Intesti	19.92	0.09	26.914929	0.1827407	-7.00	0.007823786
Spleen	19.44	0.11	29.008224	0.4447212	-9.57	0.001319772
Testis	19.86	0.18	25.654508	0.1767391	-5.80	0.01798048
Thymus	19.18	0.11	25.122706	0.3948621	-5.95	0.016204402
Thyroid	19.00	0.22	22.450982	0.1779614	-3.45	0.09157427
Trachea	19.98	0.14	27.897315	0.0490945	-7.92	0.004123546

SNORD107	Ruler	Ruler	SNORD107	SNORD107	SNORD107	SNORD107
	Mean Cq	StDev Cq	Mean Cq	StDev Cq	ΔCq	2^{ΔCq}
Adipose	20.25	0.10	22.39596667	0.188726731	-2.14	0.226695606
Bladder	19.91	0.09	21.807165	0.129540227	-1.89	0.26907799
Brain	19.48	0.05	18.11424	0.125057996	1.37	2.582641404
Cervex	20.30	0.04	21.67076433	0.08212645	-1.37	0.386497627
Colon	20.07	0.08	22.43426167	0.120651263	-2.37	0.193799453
Esophagus	20.34	0.13	23.19503967	0.084670884	-2.85	0.138654358
Heart	20.50	0.12	21.068572	0.108165291	-0.56	0.676013686
Kidney	20.37	0.07	21.505664	0.121706219	-1.13	0.456301685
Liver	19.97	0.05	23.78540433	0.102934928	-3.81	0.071207258
Lung	19.99	0.07	22.19984567	0.075612216	-2.20	0.216891882
Ovary	19.70	0.10	19.710469	0.12640152	-0.01	0.994255388
Placenta	19.40	0.07	23.52244	0.068773877	-4.12	0.057490965
Prostate	20.10	0.09	21.335502	0.071578315	-1.24	0.424331593
Skeletal Mus	19.98	0.11	20.88880933	0.167863643	-0.90	0.534094153
Small Intesti	19.92	0.09	22.70993067	0.180211815	-2.79	0.144293744
Spleen	19.44	0.11	21.70956267	0.066077467	-2.27	0.207785244
Testis	19.86	0.18	21.27503567	0.327725212	-1.42	0.374243194
Thymus	19.18	0.11	20.549134	0.11651013	-1.37	0.385847117

Thyroid	19.00	0.22	19.07578767	0.419046509	-0.07	0.950185288
Trachea	19.98	0.14	22.34149367	0.345549103	-2.37	0.193972278

SNORD108	Ruler Mean Cq	Ruler StDev Cq	SNORD108 Mean Cq	SNORD108 StDev Cq	SNORD108 ΔCq	SNORD108 $2^{\Delta Cq}$
Adipose	20.25	0.10	24.29762633	0.048908143	-4.04	0.060671747
Bladder	19.91	0.09	23.869776	0.085571621	-3.96	0.064412535
Brain	19.48	0.05	19.72995	0.074904517	-0.25	0.842727051
Cervex	20.30	0.04	23.49896233	0.057724767	-3.20	0.108843975
Colon	20.07	0.08	24.241175	0.090989579	-4.17	0.055388223
Esophagus	20.34	0.13	25.446088	0.09510874	-5.10	0.029127315
Heart	20.50	0.12	22.54840933	0.208151009	-2.04	0.242370669
Kidney	20.37	0.07	23.25384767	0.142003125	-2.88	0.135830203
Liver	19.97	0.05	26.466148	0.034826225	-6.49	0.011105548
Lung	19.99	0.07	24.68101433	0.089569575	-4.69	0.038845177
Ovary	19.70	0.10	21.42378833	0.061308938	-1.72	0.303205756
Placenta	19.40	0.07	27.486042	0.007301585	-8.08	0.003684992
Prostate	20.10	0.09	23.489472	0.092010604	-3.39	0.095344531
Skeletal Mus	19.98	0.11	23.03994033	0.131576534	-3.06	0.120243849
Small Intesti	19.92	0.09	24.60575533	0.052644955	-4.69	0.038774608
Spleen	19.44	0.11	24.39160367	0.162357417	-4.95	0.032377247
Testis	19.86	0.18	24.55030167	0.347787979	-4.69	0.038654548
Thymus	19.18	0.11	23.453066	0.094615587	-4.28	0.051551894
Thyroid	19.00	0.22	21.21131633	0.171802514	-2.21	0.216247013
Trachea	19.98	0.14	24.38578567	0.093832607	-4.41	0.047026911

SNORD109A/B	Ruler Mean Cq	Ruler StDev Cq	SNORD109A/B Mean Cq	SNORD109A/B StDev Cq	SNORD109A/B ΔCq	SNORD109A/B $2^{\Delta Cq}$
Adipose	20.25	0.10	25.26813567	0.365546767	-5.01	0.030962362
Bladder	19.91	0.09	25.491142	0.285781508	-5.58	0.02093585
Brain	19.48	0.05	20.91862733	0.174238781	-1.44	0.369708472
Cervex	20.30	0.04	24.725541	0.146382178	-4.43	0.046512258
Colon	20.07	0.08	25.56718333	0.293460564	-5.50	0.022092718
Esophagus	20.34	0.13	26.473137	0.313427194	-6.13	0.014293148
Heart	20.50	0.12	24.260638	0.153640211	-3.76	0.073968681
Kidney	20.37	0.07	23.55286367	0.138053076	-3.18	0.110403684
Liver	19.97	0.05	27.11684567	0.008481241	-7.14	0.007073926
Lung	19.99	0.07	25.90293567	0.085069885	-5.91	0.01665337
Ovary	19.70	0.10	22.827558	0.139242495	-3.13	0.11459368
Placenta	19.40	0.07	27.573669	0.202296064	-8.17	0.003467833
Prostate	20.10	0.09	24.14871933	0.07020856	-4.05	0.060372973
Skeletal Mus	19.98	0.11	24.080273	0.38451372	-4.10	0.058464404
Small Intesti	19.92	0.09	25.80585067	0.379279837	-5.89	0.016876513
Spleen	19.44	0.11	25.50166533	0.243386756	-6.06	0.014999544
Testis	19.86	0.18	23.91136233	0.063101222	-4.05	0.06019224

Thymus	19.18	0.11	24.361135	0.122357234	-5.19	0.027471895
Thyroid	19.00	0.22	21.808688	0.40953048	-2.81	0.142929978
Trachea	19.98	0.14	25.40289633	0.190297975	-5.43	0.023236228

SCARNA5	Ruler Mean Cq	Ruler StDev Cq	SCARNA5 Mean Cq	SCARNA5 StDev Cq	SCARNA5 ΔCq	SCARNA5 $2^{\Delta Cq}$
Adipose	20.25	0.10	22.846253	0.095062712	-2.59	0.165917964
Bladder	19.91	0.09	22.048065	0.146083856	-2.13	0.227698437
Brain	19.48	0.05	21.88383567	0.081648955	-2.40	0.189366321
Cervex	20.30	0.04	22.728872	0.007384987	-2.43	0.185619965
Colon	20.07	0.08	22.68901333	0.142634158	-2.62	0.162429405
Esophagus	20.34	0.13	22.93072067	0.15693564	-2.59	0.166533447
Heart	20.50	0.12	23.754596	0.184298906	-3.25	0.105046526
Kidney	20.37	0.07	22.91395433	0.120164023	-2.54	0.171915264
Liver	19.97	0.05	21.77231767	0.040797471	-1.80	0.287424466
Lung	19.99	0.07	22.243755	0.068476861	-2.25	0.210390086
Ovary	19.70	0.10	21.99824933	0.094522382	-2.30	0.203613913
Placenta	19.40	0.07	22.23867667	0.080380531	-2.84	0.139975126
Prostate	20.10	0.09	22.21217967	0.307579701	-2.11	0.231099547
Skeletal Mus	19.98	0.11	21.93487933	0.46839436	-1.95	0.258654105
Small Intesti	19.92	0.09	22.30869767	0.11790371	-2.39	0.19055953
Spleen	19.44	0.11	21.57698333	0.083448603	-2.13	0.227784967
Testis	19.86	0.18	22.467764	0.211583287	-2.61	0.163721949
Thymus	19.18	0.11	21.118985	0.111924905	-1.94	0.25993994
Thyroid	19.00	0.22	20.562079	0.18221981	-1.56	0.3391486
Trachea	19.98	0.14	22.09436867	0.252983526	-2.12	0.230213985

qPCR data set 2- used to generate data presented in Figures 4 and 5

SNORD116	Ruler Mean Cq	Ruler StDev Cq	SNORD116 Mean Cq	SNORD116 StDev Cq	SNORD116 ΔCq	SNORD116 $2^{\Delta Cq}$
Adipose	16.08	0.04	18.93666667	0.030550505	-2.85	0.138471838
Bladder	15.49	0.03	16.26333333	0.025166115	-0.77	0.585299183
Brain	15.45	0.02	14.64	0.01	0.81	1.747674937
Cervex	16.12	0.01	16.53	0.01	-0.41	0.75302824
Colon	15.09	0.03	17.51666667	0.011547005	-2.42	0.186542286
Esophagus	15.73	0.03	17.87	0.03	-2.14	0.227656607
Heart	16.33	0.07	17.21333333	0.028867513	-0.88	0.543172321
Kidney	15.61	0.01	15.87666667	0.051316014	-0.27	0.831406653
Liver	16.11	0.02	18.53333333	0.056862407	-2.42	0.186960056
Lung	16.17	0.03	17.79333333	0.02081666	-1.63	0.323667155
Ovary	15.65	0.02	15.79	0.017320508	-0.14	0.906456815
Placenta	14.65	0.01	18.82	0	-4.17	0.055588579
Prostate	15.51	0.04	16.39333333	0.073711148	-0.89	0.54128743
Skeletal Mus	16.67	0.03	17.57	0.02	-0.90	0.536918068
Small Intesti	15.73	0.01	18.25	0.036055513	-2.52	0.174069701
Spleen	16.03	0.03	17.52666667	0.023094011	-1.50	0.353155213

Testis	15.43	0.04	15.85666667	0.02081666	-0.42	0.745775612
Thymus	15.54	0.01	16.95666667	0.025166115	-1.42	0.373370045
Thyroid	15.90	0.03	13.86	0.026457513	2.04	4.120266061
Trachea	15.94	0.02	17.52	0.04	-1.58	0.333804316

IPW116	Ruler Mean Cq	Ruler StDev Cq	IPW116 Mean Cq	IPW116 StDev Cq	IPW116 ΔCq	IPW116 $2^{\Delta Cq}$
Adipose	16.08	0.04	29.26	0.320468407	-13.18	0.000108076
Bladder	15.49	0.03	26.95	0.06244998	-11.46	0.000355116
Brain	15.45	0.02	25.59333333	0.064291005	-10.15	0.000881412
Cervex	16.12	0.01	26.89333333	0.058594653	-10.77	0.000571659
Colon	15.09	0.03	27.15333333	0.152752523	-12.06	0.000234343
Esophagus	15.73	0.03	28.09333333	0.147422296	-12.36	0.000190437
Heart	16.33	0.07	26.51666667	0.032145503	-10.18	0.000859716
Kidney	15.61	0.01	26.57333333	0.035118846	-10.96	0.000500952
Liver	16.11	0.02	29.73333333	0.289194283	-13.62	7.94718E-05
Lung	16.17	0.03	28.53	0.06244998	-12.36	0.000189688
Ovary	15.65	0.02	26.64666667	0.080208063	-11.00	0.000488838
Placenta	14.65	0.01	30.14	0.337786915	-15.49	2.17433E-05
Prostate	15.51	0.04	27.23	0.19078784	-11.72	0.000295983
Skeletal Mus	16.67	0.03	26.81666667	0.134288247	-10.14	0.000883861
Small Intesti	15.73	0.01	27.80666667	0.045092498	-12.08	0.000231143
Spleen	16.03	0.03	27.93	0.144222051	-11.90	0.000260766
Testis	15.43	0.04	25.67333333	0.030550505	-10.24	0.000826984
Thymus	15.54	0.01	27.82333333	0.096090235	-12.29	0.000199962
Thyroid	15.90	0.03	24.18333333	0.005773503	-8.28	0.003215824
Trachea	15.94	0.02	27.6	0.115325626	-11.66	0.000308397

SNORD115	Ruler Mean Cq	Ruler StDev Cq	SNORD115 Mean Cq	SNORD115 StDev Cq	SNORD115 ΔCq	SNORD115 $2^{\Delta Cq}$
Adipose	16.08	0.04	26.183333	0.0404145	-10.10	0.000911795
Bladder	15.49	0.03	21.99	0.07	-6.50	0.011052982
Brain	15.45	0.02	14.646667	0.0057735	0.80	1.739617595
Cervex	16.12	0.01	23.846667	0.0251661	-7.73	0.004723622
Colon	15.09	0.03	22.696667	0.011547	-7.60	0.00514567
Esophagus	15.73	0.03	22.416667	0.085049	-6.68	0.009740858
Heart	16.33	0.07	22.476667	0.0152753	-6.14	0.014142182
Kidney	15.61	0.01	19.943333	0.0321455	-4.33	0.049616354
Liver	16.11	0.02	20.686667	0.0550757	-4.57	0.042027243
Lung	16.17	0.03	24.213333	0.0208167	-8.05	0.00377995
Ovary	15.65	0.02	22.13	0.0608276	-6.48	0.011189661
Placenta	14.65	0.01	25.223333	0.0416333	-10.57	0.000656735
Prostate	15.51	0.04	21.733333	0.0472582	-6.23	0.013363732
Skeletal Mus	16.67	0.03	20.916667	0.011547	-4.24	0.052778977
Small Intesti	15.73	0.01	23.47	0.043589	-7.74	0.00467032

Spleen	16.03	0.03	25.19	0.0458258	-9.16	0.001742097
Testis	15.43	0.04	21.046667	0.0351188	-5.61	0.020429724
Thymus	15.54	0.01	22.74	0.0458258	-7.20	0.006779266
Thyroid	15.90	0.03	19.47	0.0264575	-3.57	0.084362023
Trachea	15.94	0.02	23.796667	0.0305505	-7.86	0.004305534

IPW115_1	Ruler Mean Cq	Ruler StDev Cq	IPW115_1 Mean Cq	IPW115_1 StDev Cq	IPW115_1 DCq	IPW115_1 2 ^{ΔCq}
Adipose	16.08	0.04	31.40333333	0.133166562	-15.32	2.44636E-05
Bladder	15.49	0.03	30.81	0.675055553	-15.32	2.44565E-05
Brain	15.45	0.02	24.85666667	0.011547005	-9.41	0.001468715
Cervex	16.12	0.01	30.81	0.562938718	-14.69	3.78532E-05
Colon	15.09	0.03	29.93333333	0.315013227	-14.84	3.41184E-05
Esophagus	15.73	0.03	30.79666667	0.155670592	-15.06	2.92392E-05
Heart	16.33	0.07	29.90666667	0.190875177	-13.57	8.20094E-05
Kidney	15.61	0.01	30.14	0.238117618	-14.53	4.22788E-05
Liver	16.11	0.02	31.84333333	0.22898326	-15.73	1.84094E-05
Lung	16.17	0.03	31.25666667	0.065064071	-15.09	2.8657E-05
Ovary	15.65	0.02	30.55333333	0.34122329	-14.91	3.25942E-05
Placenta	14.65	0.01	31.55333333	0.092915732	-16.90	8.16339E-06
Prostate	15.51	0.04	30.29666667	0.162583312	-14.79	3.53271E-05
Skeletal Mus	16.67	0.03	30.78666667	0.220302822	-14.11	5.64021E-05
Small Intesti	15.73	0.01	30.15	0.384317577	-14.42	4.55477E-05
Spleen	16.03	0.03	30.93666667	0.098657657	-14.91	3.24454E-05
Testis	15.43	0.04	29.58333333	0.205264058	-14.15	5.50136E-05
Thymus	15.54	0.01	31.07	0.28	-15.53	2.1067E-05
Thyroid	15.90	0.03	28.7	0.045825757	-12.80	0.000140488
Trachea	15.94	0.02	30.92	0.276224546	-14.98	3.08809E-05

IPW115_2	Ruler Mean Cq	Ruler StDev Cq	IPW115_2 Mean Cq	IPW115_2 StDev Cq	IPW115_2 ΔCq	IPW115_2 2 ^{ΔCq}
Adipose	16.08	0.04	35.62333333	0.691688755	-19.54	1.31273E-06
Bladder	15.49	0.03	32.38	0.147309199	-16.89	8.23717E-06
Brain	15.45	0.02	26.67333333	0.066583281	-11.23	0.000416933
Cervex	16.12	0.01	34.04333333	0.447362642	-17.92	4.02506E-06
Colon	15.09	0.03	33.1	0.355105618	-18.01	3.7995E-06
Esophagus	15.73	0.03	33.50666667	0.550121199	-17.77	4.46863E-06
Heart	16.33	0.07	31.37	0.196977156	-15.04	2.97411E-05
Kidney	15.61	0.01	32.04333333	0.185022521	-16.43	1.13022E-05
Liver	16.11	0.02	33.94666667	0.309246396	-17.83	4.28423E-06
Lung	16.17	0.03	35.34	0.466690476	-19.17	1.69054E-06
Ovary	15.65	0.02	33.98	0.708731261	-18.33	3.03118E-06
Placenta	14.65	0.01	36.63666667	0.794124256	-21.99	2.40788E-07
Prostate	15.51	0.04	32.62666667	0.295352896	-17.12	7.02599E-06
Skeletal Mus	16.67	0.03	32.41666667	0.315647483	-15.74	1.82228E-05

Small Intesti	15.73	0.01	33.60666667	0.849490043	-17.88	4.14864E-06
Spleen	16.03	0.03	35.79333333	0.264070698	-19.77	1.11983E-06
Testis	15.43	0.04	31.07666667	0.06350853	-15.64	1.95403E-05
Thymus	15.54	0.01	35.12	0.513906606	-19.58	1.27184E-06
Thyroid	15.90	0.03	30.80666667	0.141891978	-14.90	3.2619E-05
Trachea	15.94	0.02	34.83	0.976882797	-18.89	2.05429E-06

IPWAS_1	Ruler Mean Cq	Ruler StDev Cq	IPWAS_1 Mean Cq	IPWAS_1 StDev Cq	IPWAS_1 ΔCq	IPWAS_1 $2^{\Delta Cq}$
Adipose	16.08	0.04	30.585	0.190918831	-14.50	4.31384E-05
Bladder	15.49	0.03	30.01	0.430929229	-14.52	4.25813E-05
Brain	15.45	0.02	28.98	0.09539392	-13.53	8.42734E-05
Cervex	16.12	0.01	29.59	0.442379927	-13.47	8.81779E-05
Colon	15.09	0.03	31.74666667	0.861935806	-16.65	9.70779E-06
Esophagus	15.73	0.03	33.89	0.777817459	-18.16	3.42594E-06
Heart	16.33	0.07	33.09333333	0.611582646	-16.76	9.00702E-06
Kidney	15.61	0.01	34.33333333	1.50838766	-18.72	2.31102E-06
Liver	16.11	0.02	31.66333333	0.6755985	-15.55	2.08557E-05
Lung	16.17	0.03	31.36333333	0.440605644	-15.20	2.66147E-05
Ovary	15.65	0.02	31.60333333	1.122512064	-15.96	1.5742E-05
Placenta	14.65	0.01	31.47	0.39661064	-16.82	8.64881E-06
Prostate	15.51	0.04	32.54666667	1.188668723	-17.04	7.4266E-06
Skeletal Mus	16.67	0.03	34.68333333	1.279863274	-18.01	3.78688E-06
Small Intesti	15.73	0.01	33.05333333	0.848528137	-17.33	6.08802E-06
Spleen	16.03	0.03	32.23	0.262106848	-16.20	1.3238E-05
Testis	15.43	0.04	33.16666667	1.002014637	-17.73	4.58964E-06
Thymus	15.54	0.01	32.11333333	0.723417814	-16.58	1.02218E-05
Thyroid	15.90	0.03	30.92666667	0.488091521	-15.02	3.00156E-05
Trachea	15.94	0.02	30.03333333	0.645083974	-14.10	5.70957E-05

IPWAS_2	Ruler Mean Cq	Ruler StDev Cq	IPWAS_2 Mean Cq	IPWAS_2 StDev Cq	IPWAS_2 ΔCq	IPWAS_2 $2^{\Delta Cq}$
Adipose	16.08	0.04	31.35	0.212837967	-15.27	2.53849E-05
Bladder	15.49	0.03	31.47	0.22	-15.98	1.5478E-05
Brain	15.45	0.02	29.34666667	0.275378527	-13.90	6.53601E-05
Cervex	16.12	0.01	30.27	0.09539392	-14.15	5.50376E-05
Colon	15.09	0.03	29.34666667	0.127410099	-14.25	5.1238E-05
Esophagus	15.73	0.03	32.09333333	0.396274316	-16.36	1.19023E-05
Heart	16.33	0.07	31.17333333	0.420990895	-14.84	3.40847E-05
Kidney	15.61	0.01	30.74	0.364965752	-15.13	2.78936E-05
Liver	16.11	0.02	31.76333333	0.335608899	-15.65	1.94591E-05
Lung	16.17	0.03	31.54666667	0.272274371	-15.38	2.34387E-05
Ovary	15.65	0.02	30.71666667	0.162583312	-15.07	2.91053E-05
Placenta	14.65	0.01	30.40333333	0.193993127	-15.75	1.81157E-05
Prostate	15.51	0.04	31.24	0.230651252	-15.73	1.83711E-05

Skeletal Mus	16.67	0.03	32.73	0.469361268	-16.06	1.46654E-05
Small Intesti	15.73	0.01	29.88333333	0.133166562	-14.16	5.4795E-05
Spleen	16.03	0.03	30.79333333	0.092915732	-14.77	3.58345E-05
Testis	15.43	0.04	29.44	0.137477271	-14.01	6.07599E-05
Thymus	15.54	0.01	30.38666667	0.150443788	-14.85	3.38304E-05
Thyroid	15.90	0.03	30.47333333	0.436501241	-14.57	4.10973E-05
Trachea	15.94	0.02	30.54666667	0.101159939	-14.61	4.00013E-05

UBE3A_1	Ruler Mean Cq	Ruler StDev Cq	UBE3A_1 Mean Cq	UBE3A_1 StDev Cq	UBE3A_1 ΔCq	UBE3A_1 $2^{\Delta Cq}$
Adipose	16.08	0.04	26.77	0.026457513	-10.69	0.000607146
Bladder	15.49	0.03	25.79333333	0.090737717	-10.30	0.000791703
Brain	15.45	0.02	25.7	0.01	-10.25	0.000818595
Cervex	16.12	0.01	25.06333333	0.04163332	-8.94	0.00203246
Colon	15.09	0.03	26.21	0.13453624	-11.12	0.000450633
Esophagus	15.73	0.03	26.63666667	0.047258156	-10.90	0.000522698
Heart	16.33	0.07	26.15	0.05	-9.82	0.001108493
Kidney	15.61	0.01	26.50333333	0.032145503	-10.89	0.000525858
Liver	16.11	0.02	26.76333333	0.061101009	-10.65	0.00062269
Lung	16.17	0.03	26.85333333	0.112398102	-10.69	0.000606411
Ovary	15.65	0.02	26.34	0.121655251	-10.69	0.000604617
Placenta	14.65	0.01	26.67333333	0.025166115	-12.02	0.000240379
Prostate	15.51	0.04	26.85	0.03	-11.34	0.000385175
Skeletal Mus	16.67	0.03	26.1	0.04	-9.43	0.00145252
Small Intesti	15.73	0.01	26.07333333	0.073711148	-10.35	0.000768538
Spleen	16.03	0.03	26.57	0.085440037	-10.54	0.000669347
Testis	15.43	0.04	25.47666667	0.005773503	-10.04	0.000947763
Thymus	15.54	0.01	26.21333333	0.180092569	-10.68	0.000610387
Thyroid	15.90	0.03	25.59666667	0.04163332	-9.69	0.001207359
Trachea	15.94	0.02	27	0.060827625	-11.06	0.000467442

UBE3A_2	Ruler Mean Cq	Ruler StDev Cq	UBE3A_2 Mean Cq	UBE3A_2 StDev Cq	UBE3A_2 ΔCq	UBE3A_2 $2^{\Delta Cq}$
Adipose	16.08	0.04	24.3	0.14525839	-8.22	0.003363855
Bladder	15.49	0.03	24.03666667	0.317227573	-8.55	0.002675293
Brain	15.45	0.02	23.76666667	0.115470054	-8.32	0.003126513
Cervex	16.12	0.01	24.19	0.274043792	-8.07	0.003723244
Colon	15.09	0.03	23.94333333	0.142243922	-8.85	0.002168492
Esophagus	15.73	0.03	24.65666667	0.300887576	-8.92	0.002062006
Heart	16.33	0.07	24.04666667	0.124230968	-7.71	0.004763206
Kidney	15.61	0.01	24.51333333	0.250266525	-8.90	0.002088901
Liver	16.11	0.02	24.31	0.098488578	-8.20	0.003410349
Lung	16.17	0.03	24.82	0.23430749	-8.65	0.00248234
Ovary	15.65	0.02	23.89333333	0.127410099	-8.25	0.003296103
Placenta	14.65	0.01	24.27	0.310483494	-9.62	0.001271663

Prostate	15.51	0.04	24.14	0.125299641	-8.63	0.002520281
Skeletal Mus	16.67	0.03	24.52333333	0.332014056	-7.85	0.004332575
Small Intesti	15.73	0.01	23.72666667	0.184481255	-8.00	0.003909149
Spleen	16.03	0.03	24.39666667	0.519839719	-8.37	0.003019184
Testis	15.43	0.04	23.22666667	0.21825062	-7.79	0.004508345
Thymus	15.54	0.01	24.34333333	0.275922694	-8.81	0.002231163
Thyroid	15.90	0.03	23.27333333	0.05033223	-7.37	0.00604268
Trachea	15.94	0.02	24.45666667	0.333216646	-8.52	0.002724879

7SL RNA	Ruler Mean Cq	Ruler StDev Cq	7SL RNA Mean Cq	7SL RNA StDev Cq	7SL RNA ΔCq	7SL RNA $2^{\Delta Cq}$
Adipose	16.08	0.04	12.41	0.065574385	3.67	12.7668541
Bladder	15.49	0.03	12.27666667	0.025166115	3.21	9.278636627
Brain	15.45	0.02	11.95	0.026457513	3.50	11.27798069
Cervex	16.12	0.01	13.07	0.017320508	3.05	8.286574671
Colon	15.09	0.03	12.20666667	0.056862407	2.89	7.400253063
Esophagus	15.73	0.03	12.57333333	0.037859389	3.16	8.948202476
Heart	16.33	0.07	12.79	0.017320508	3.54	11.65449998
Kidney	15.61	0.01	12.76666667	0.032145503	2.84	7.178220285
Liver	16.11	0.02	12.19333333	0.02081666	3.92	15.14533908
Lung	16.17	0.03	13.38	0.060827625	2.79	6.896747791
Ovary	15.65	0.02	12.82666667	0.015275252	2.82	7.069673201
Placenta	14.65	0.01	11.50666667	0.015275252	3.14	8.841343657
Prostate	15.51	0.04	11.98666667	0.055075705	3.52	11.48065825
Skeletal Mus	16.67	0.03	13.51666667	0.015275252	3.16	8.914211512
Small Intesti	15.73	0.01	12.78666667	0.011547005	2.94	7.67980853
Spleen	16.03	0.03	13.08	0.036055513	2.95	7.700974196
Testis	15.43	0.04	12.52	0.02	2.91	7.534335055
Thymus	15.54	0.01	13.61666667	0.005773503	1.92	3.780764774
Thyroid	15.90	0.03	13.08	0.052915026	2.82	7.075036057
Trachea	15.94	0.02	12.48	0	3.46	10.98204266

U6 snRNA	Ruler Mean Cq	Ruler StDev Cq	U6 snRNA Mean Cq	U6 snRNA StDev Cq	U6 snRNA ΔCq	U6 snRNA $2^{\Delta Cq}$
Adipose	16.08	0.04	14.97333333	0.005773503	1.11	2.159949876
Bladder	15.49	0.03	14.30666667	0.032145503	1.18	2.271921262
Brain	15.45	0.02	13.61333333	0.015275252	1.83	3.560558457
Cervex	16.12	0.01	14.57	0	1.55	2.929746571
Colon	15.09	0.03	13.51666667	0.023094011	1.58	2.984676575
Esophagus	15.73	0.03	14.09666667	0.035118846	1.64	3.112911514
Heart	16.33	0.07	15.21	0.087177979	1.12	2.177715067
Kidney	15.61	0.01	13.56	0	2.05	4.141900407
Liver	16.11	0.02	14.85333333	0.005773503	1.26	2.396289102
Lung	16.17	0.03	14.59333333	0.015275252	1.57	2.974367427
Ovary	15.65	0.02	13.76666667	0.025166115	1.88	3.684946126

Placenta	14.65	0.01	13.75	0	0.90	1.867272271
Prostate	15.51	0.04	15.08666667	0.015275252	0.42	1.338979114
Skeletal Mus	16.67	0.03	14.97333333	0.023094011	1.70	3.247749872
Small Intesti	15.73	0.01	13.93333333	0.011547005	1.79	3.46872069
Spleen	16.03	0.03	13.96666667	0.011547005	2.06	4.16516687
Testis	15.43	0.04	13.36666667	0.089628864	2.07	4.189602949
Thymus	15.54	0.01	12.58666667	0.005773503	2.95	7.720413357
Thyroid	15.90	0.03	13.7	0.02	2.20	4.603520275
Trachea	15.94	0.02	14.32	0.036055513	1.62	3.067523753

U5 snRNA	Ruler Mean Cq	Ruler StDev Cq	U5 snRNA Mean Cq	U5 snRNA StDev Cq	U5 snRNA ΔCq	U5 snRNA $2^{\Delta Cq}$
Adipose	16.08	0.04	22.393333	0.0550757	-6.31	0.012612498
Bladder	15.49	0.03	21.163333	0.023094	-5.67	0.019603379
Brain	15.45	0.02	22.65	0.0173205	-7.20	0.006779699
Cervex	16.12	0.01	22	0	-5.88	0.016989367
Colon	15.09	0.03	20.843333	0.0208167	-5.75	0.018593059
Esophagus	15.73	0.03	21.98	0.02	-6.25	0.013183993
Heart	16.33	0.07	22.396667	0.0929157	-6.06	0.014948541
Kidney	15.61	0.01	21.973333	0.0057735	-6.36	0.012148816
Liver	16.11	0.02	23.103333	0.0251661	-6.99	0.007871215
Lung	16.17	0.03	21.636667	0.0208167	-5.47	0.022549661
Ovary	15.65	0.02	21.7	0.03	-6.05	0.015075088
Placenta	14.65	0.01	19.876667	0.011547	-5.23	0.026723738
Prostate	15.51	0.04	20.623333	0.0351188	-5.12	0.028845034
Skeletal Mus	16.67	0.03	22.9	0.0458258	-6.23	0.01334806
Small Intesti	15.73	0.01	21.836667	0.011547	-6.11	0.014488684
Spleen	16.03	0.03	22.526667	0.0472582	-6.50	0.0110361
Testis	15.43	0.04	21.966667	0.0152753	-6.53	0.010797293
Thymus	15.54	0.01	21.876667	0.023094	-6.34	0.01233309
Thyroid	15.90	0.03	22.443333	0.0057735	-6.54	0.010741983
Trachea	15.94	0.02	22.65	0.03	-6.71	0.009532528

Table S6. Compliance of qPCR experiments with the MIQE guidelines

ITEM TO CHECK	IMPORTANCE	CHECKLIST
EXPERIMENTAL DESIGN		
Definition of experimental and control groups	E	Yes (see manuscript for details)
Number within each group	E	Yes (see manuscript for details)
Assay carried out by core lab or investigator's lab?	D	Yes (see manuscript for details)
Acknowledgement of authors' contributions	D	No
SAMPLE		
Description	E	Yes (see manuscript for details)
Volume/mass of sample processed	D	Not applicable
Microdissection or macrodissection	E	Not applicable
Processing procedure	E	Not applicable
If frozen - how and how quickly?	E	Not applicable
If fixed - with what, how quickly?	E	Not applicable
Sample storage conditions and duration (especially for FFPE samples)	E	All RNA samples were stored at -80°C
NUCLEIC ACID EXTRACTION		
Procedure and/or instrumentation	E	Not applicable (Commercial)
Name of kit and details of any modifications	E	Yes (see manuscript for details)
Source of additional reagents used	D	Not applicable
Details of DNase or RNase treatment	E	Not applicable (Commercial)
Contamination assessment (DNA or RNA)	E	Yes (see manuscript for details)
Nucleic acid quantification	E	Yes (see manuscript for details)
Instrument and method	E	Yes (see manuscript for details)
Purity (A260/A280)	D	Yes (see manuscript for details)
Yield	D	Not applicable (Commercial)
RNA integrity method/instrument	E	Yes (see manuscript for details)
RIN/RQI or Cq of 3' and 5' transcripts	E	Not applicable (Commercial)
Electrophoresis traces	D	No
Inhibition testing (Cq dilutions, spike or other)	E	No (MIQE guidelines state that for screening studies these specifications are not required)
REVERSE TRANSCRIPTION		
Complete reaction conditions	E	Yes (see manuscript for details)
Amount of RNA and reaction volume	E	Yes (see manuscript for details)
Priming oligonucleotide (if using GSP) and concentration	E	No (Manufacturer does not provide stem-loop RT primer sequences)
Reverse transcriptase and concentration	E	Yes (see manuscript for details)
Temperature and time	E	Yes (see manuscript for details)
Manufacturer of reagents and catalogue numbers	D	Yes (see manuscript for details)
Cqs with and without RT	D*	No (see comment on DNase treatment)
Storage conditions of cDNA	D	cDNA was stored at -20°C
qPCR TARGET INFORMATION		
If multiplex, efficiency and LOD of each assay.	E	No (MIQE guidelines state that for screening studies these specifications are not required)
Sequence accession number	E	Yes (see manuscript for details)
Location of amplicon	D	No (primer sequence information given)
Amplicon length	E	Yes (see manuscript for details)
<i>In silico</i> specificity screen (BLAST, etc)	E	Yes (see manuscript for details)
Pseudogenes, retropseudogenes or other homologs?	D	No (MIQE guidelines state that for screening studies these specifications are not required)
Sequence alignment	D	No (MIQE guidelines state that for screening studies these specifications are not required)
Secondary structure analysis of amplicon	D	No (MIQE guidelines state that for screening studies these specifications are not required)

ITEM TO CHECK	IMPORTANCE	CHECKLIST
EXPERIMENTAL DESIGN		
Definition of experimental and control groups	E	Yes (see manuscript for details)
Number within each group	E	Yes (see manuscript for details)
Assay carried out by core lab or investigator's lab?	D	Yes (see manuscript for details)
Acknowledgement of authors' contributions	D	No
SAMPLE		
Description	E	Yes (see manuscript for details)
Volume/mass of sample processed	D	Not applicable
Microdissection or macrodissection	E	Not applicable
Processing procedure	E	Not applicable
If frozen - how and how quickly?	E	Not applicable
If fixed - with what, how quickly?	E	Not applicable
Sample storage conditions and duration (especially for FFPE samples)	E	All RNA samples were stored at -80°C
NUCLEIC ACID EXTRACTION		
Procedure and/or instrumentation	E	Not applicable (Commercial)
Name of kit and details of any modifications	E	Yes (see manuscript for details)
Source of additional reagents used	D	Not applicable
Details of DNase or RNase treatment	E	Not applicable (Commercial)
Contamination assessment (DNA or RNA)	E	Yes (see manuscript for details)
Nucleic acid quantification	E	Yes (see manuscript for details)
Instrument and method	E	Yes (see manuscript for details)
Purity (A260/A280)	D	Yes (see manuscript for details)
Yield	D	Not applicable (Commercial)
RNA integrity method/instrument	E	Yes (see manuscript for details)
RIN/RQI or Cq of 3' and 5' transcripts	E	Not applicable (Commercial)
Electrophoresis traces	D	No
Inhibition testing (Cq dilutions, spike or other)	E	No (MIQE guidelines state that for screening studies these specifications are not required)
REVERSE TRANSCRIPTION		
Complete reaction conditions	E	Yes (see manuscript for details)
Amount of RNA and reaction volume	E	Yes (see manuscript for details)
Priming oligonucleotide (if using GSP) and concentration	E	No (Manufacturer does not provide stem-loop RT primer sequences)
Reverse transcriptase and concentration	E	Yes (see manuscript for details)
Temperature and time	E	Yes (see manuscript for details)
Manufacturer of reagents and catalogue numbers	D	Yes (see manuscript for details)
Cqs with and without RT	D*	No (see comment on DNase treatment)
Storage conditions of cDNA	D	cDNA was stored at -20°C
qPCR TARGET INFORMATION		
If multiplex, efficiency and LOD of each assay.	E	No (MIQE guidelines state that for screening studies these specifications are not required)
Sequence accession number	E	Yes (see manuscript for details)
Location of amplicon	D	No (primer sequence information given)
Amplicon length	E	Yes (see manuscript for details)
<i>In silico</i> specificity screen (BLAST, etc)	E	Yes (see manuscript for details)
Pseudogenes, retropseudogenes or other homologs?	D	No (MIQE guidelines state that for screening studies these specifications are not required)
Sequence alignment	D	No (MIQE guidelines state that for screening studies these specifications are not required)
Secondary structure analysis of amplicon	D	No (MIQE guidelines state that for screening studies these specifications are not required)