

Appendix 1 to Polimanti R, Meda S, Pearlson G, et al. S100A10 identified in a genome-wide gene-by-cannabis dependence interaction analysis of risky sexual behaviors. *J Psychiatry Neurosci* 2017.

DOI: 10.1503/jpn.160189

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Supplemental Table 1: Details of the top findings in AAs and women.

Sample		AA	Women
rsID		rs72993629	rs12944716
Allele frequency		0.9011	0.3028
N		1906	1119
RSB	<i>Z score</i>	5.558	-5.442
	<i>P value</i>	2.733E-08	5.266E-08
	<i>Direction</i>	++++	----
STD	<i>Z score</i>	1.928	-2.366
	<i>P value</i>	0.05384	0.018
	<i>Direction</i>	-++	+---
HIV	<i>Z score</i>	1.802	-0.372
	<i>P value</i>	0.07148	0.7097
	<i>Direction</i>	-++	+++

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Supplemental Table 2: Details of S100A10 proximal transcriptional regulation related to rs72993629.

Histone marker	Location	Cell Line	Cell type	Data source
H3K4me1_(pAb-037-050)	chr1:151967585-151969389	PANC-1	pancreas:	wgEncodeSydhHistone
H3K27ac	chr1:151966474-151971349	PANC-1	pancreas:	wgEncodeSydhHistone
H3K4me1	chr1:151888293-151986990	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me1	chr1:151893373-151981015	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr1:151935812-151979079	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr1:151935741-151979189	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me3	chr1:151931845-151981953	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me3	chr1:151931485-151982994	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K9ac	chr1:151935848-151979239	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr1:151935915-151979102	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr1:151930944-151983999	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K36me3	chr1:151934329-151975706	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K36me3	chr1:151938872-151975448	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K79me2	chr1:151932126-151978540	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K79me2	chr1:151932122-151980476	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H4K20me1	chr1:151951463-151968981	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr1:151879380-152050316	CD20+_RO01794	blood:B-lymphocyte	wgEncodeBroadHistone
H4K20me1	chr1:151952690-151969383	CD20+_RO01794	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me1	chr1:151958186-151971589	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H4K20me1	chr1:151945274-151982554	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K4me2	chr1:151955230-151976092	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me3	chr1:151955768-151975710	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H4K20me1	chr1:151950573-151980707	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone

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Histone marker	Location	Cell Line	Cell type	Data source
H3K27ac	chr1:151948395-151976314	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K4me1	chr1:151956760-151976634	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K9ac	chr1:151954511-151976882	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K4me1	chr1:151861381-151986777	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me1	chr1:151928156-151981345	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K27ac	chr1:151934916-151980653	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K27ac	chr1:151959411-151969551	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me2	chr1:151930519-151983831	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me2	chr1:151959431-151970420	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K79me2	chr1:151945041-151975885	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K9ac	chr1:151959778-151968852	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H4K20me1	chr1:150746718-152235604	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me2	chr1:151937735-151977205	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K27ac	chr1:151935639-151980253	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K36me3	chr1:151943111-151973497	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K4me1	chr1:151933645-151981597	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr1:151954278-151979929	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K79me2	chr1:151949983-151979866	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K9ac	chr1:151959488-151976805	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr1:151943302-151977690	HSMM	muscle:Myoblast	wgEncodeBroadHistone
H3K4me1	chr1:151930155-151984720	HSMM	muscle:Myoblast	wgEncodeBroadHistone
H3K4me2	chr1:151956025-151968986	HSMM	muscle:Myoblast	wgEncodeBroadHistone
H3K9ac	chr1:151935804-151977025	HSMM	muscle:Myoblast	wgEncodeBroadHistone
H4K20me1	chr1:151942811-151986232	HSMM	muscle:Myoblast	wgEncodeBroadHistone
H3K4me1	chr1:151955530-151968771	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
H3K4me2	chr1:151935695-151977446	HSMMtube	muscle:Myotube	wgEncodeBroadHistone

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Histone marker	Location	Cell Line	Cell type	Data source
H4K20me1	chr1:151943382-151980195	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
H3K4me1	chr1:151957764-151968762	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
H3K9me1	chr1:151935232-151971519	K562	blood:Leukemia cell	wgEncodeBroadHistone
H4K20me1	chr1:151935814-151975285	K562	blood:Leukemia cell	wgEncodeBroadHistone
H3K4me1	chr1:151930138-151984136	Monocytes- CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
H3K4me2	chr1:151935329-151977976	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me2	chr1:151956381-151968971	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K9ac	chr1:151959500-151968983	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K27ac	chr1:151958073-151969048	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me1	chr1:151934270-151981527	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me1	chr1:151955959-151969135	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me3	chr1:151955721-151971886	NH-A	brain:astrocyte	wgEncodeBroadHistone
H4K20me1	chr1:151948135-151969789	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me1	chr1:151929570-151983931	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K27ac	chr1:151936381-151979068	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K27ac	chr1:151951542-151969094	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K4me2	chr1:151951571-151970579	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K4me3	chr1:151935401-151983677	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K4me3	chr1:151959740-151968878	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K9ac	chr1:151959671-151969039	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H4K20me1	chr1:151935889-151974701	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K27ac	chr1:151955922-151975772	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H3K4me1	chr1:151929484-151981607	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H3K4me2	chr1:151929777-151984609	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H3K4me3	chr1:151955698-151979056	NHEK	skin:keratinocyte	wgEncodeBroadHistone

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Histone marker	Location	Cell Line	Cell type	Data source
H3K9ac	chr1:151952901-151979390	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H3K9me1	chr1:151929128-151983286	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H4K20me1	chr1:151943713-151973264	NHEK	skin:keratinocyte	wgEncodeBroadHistone
H3K27ac	chr1:151943493-151978112	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H3K27ac	chr1:151959597-151969102	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H3K4me1	chr1:151931098-151983526	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H3K4me2	chr1:151959643-151969234	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H3K9ac	chr1:151951547-151977343	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H4K20me1	chr1:151861840-152231576	NHLF	lung:Fibroblast	wgEncodeBroadHistone
H3K4me3	chr1:151943444-151976898	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H4K20me1	chr1:151948047-151969979	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K27ac	chr1:151938856-151980916	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K27ac	chr1:151959502-151968976	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K4me1	chr1:151934006-151984095	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K4me1	chr1:151956472-151970741	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K4me1	chr1:151960007-151968740	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
H3K4me2	chr1:151959931-151968820	Osteobl	bone:Osteoblast	wgEncodeBroadHistone

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Supplemental Table 3: Details of proximal transcriptional regulation of *S100A11* related to rs72993629.

Distal block	Cell Line	Cell type	Data source
chr1:151958520..151979218-chr1:151992734..152014750,97	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr1:151961745..151973594-chr1:152015769..152025096,31	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet

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Supplemental Table 4: Details of *CTLC* proximal transcriptional regulation related to rs12944716.

	Location	Cell Line	Cell type	Data source	
Open Chromatin	chr17:57695922-57696020	MCF-7	breast:adenocarcinoma	wgEncodeOpenChromFaire	
	chr17:57694521-57696177	MCF-7	breast:adenocarcinoma	wgEncodeOpenChromFaire	
	chr17:57695960-57696110	CD4+_Naive_Wb11970640	blood:	wgEncodeUwDgf	
	chr17:57695960-57696110	Th2	blood:T-lymphocyte	wgEncodeUwDgf	
	chr17:57695980-57696130	Treg_Wb78495824	blood:T-lymphocyte	wgEncodeUwDgf	
	chr17:57695880-57696030	HBVP	blood vessel:Pericyte	wgEncodeUwDnase	
	chr17:57695960-57696110	Treg_Wb78495824	blood:T-lymphocyte	wgEncodeUwDnase	
	chr17:57695980-57696130	Treg_Wb83319432	blood:T-lymphocyte	wgEncodeUwDnase	
TFBS	Transcription factor	Location	Cell Line	Cell type	Data source
	Pol2-4H8	chr17:57695400-57698828	GM12878	blood:B-lymphocyte	wgEncodeHaibTfbs
	Pol2-4H8	chr17:57695897-57697639	GM12891	blood:lymphoblastoid cell; B-cell	wgEncodeHaibTfbs
	Pol2	chr17:57695978-57697584	GM12891	blood:lymphoblastoid cell; B-cell	wgEncodeHaibTfbs
	Pol2-4H8	chr17:57695846-57697946	GM12892	blood:lymphoblastoid cell; B-cell	wgEncodeHaibTfbs
	Pol2	chr17:57695941-57697574	GM12892	blood:lymphoblastoid cell; B-cell	wgEncodeHaibTfbs
	HEY1	chr17:57695383-57697532	HepG2	liver:carcinoma	wgEncodeHaibTfbs
	Pol2-4H8	chr17:57695853-57696192	HepG2	liver:carcinoma	wgEncodeHaibTfbs
	Pol2	chr17:57695817-57698030	HUVEC	blood vessel:Endothelial Cell	wgEncodeHaibTfbs
	HEY1	chr17:57695896-57697613	K562	blood:Leukemia cell	wgEncodeHaibTfbs
	Pol2-4H8	chr17:57695503-57698623	K562	blood:Leukemia cell	wgEncodeHaibTfbs
	Pol2	chr17:57695912-57698556	K562	blood:Leukemia cell	wgEncodeHaibTfbs
PML_(SC-71910)	chr17:57695943-57697995	MCF-7	breast:adenocarcinoma	wgEncodeHaibTfbs	

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Sin3Ak-20	chr17:57695411-57698856	MCF-7	breast:adenocarcinoma	wgEncodeHaibTfbs
SRF	chr17:57695368-57697996	MCF-7	breast:adenocarcinoma	wgEncodeHaibTfbs
TAF1	chr17:57695913-57697972	MCF-7	breast:adenocarcinoma	wgEncodeHaibTfbs
Pol2-4H8	chr17:57695935-57696153	SK-N-SH	brain:Neuroblastoma	wgEncodeHaibTfbs
Pol2-4H8	chr17:57695429-57697652	U87	brain:Glioblastoma	wgEncodeHaibTfbs
Pol2	chr17:57695886-57696166	GM12878	blood:B-lymphocyte	wgEncodeOpenChromChip
Pol2	chr17:57695417-57698515	HepG2	liver:carcinoma	wgEncodeOpenChromChip
Pol2	chr17:57695489-57698612	K562	blood:Leukemia cell	wgEncodeOpenChromChip
Pol2	chr17:57695487-57698594	MCF-7	breast:adenocarcinoma	wgEncodeOpenChromChip
Pol2	chr17:57695577-57698689	ProgFib	skin:Fibroblast	wgEncodeOpenChromChip
NFKB	chr17:57695950-57697896	GM10847	blood:lymphoblastoid cell	wgEncodeSydhTfbs
CHD1_(A301-218A)	chr17:57695912-57697906	GM12878	blood:B-lymphocyte	wgEncodeSydhTfbs
Pol2	chr17:57695483-57698626	GM12878	blood:B-lymphocyte	wgEncodeSydhTfbs
Pol2	chr17:57695975-57698299	GM12878	blood:B-lymphocyte	wgEncodeSydhTfbs
Pol2(phosphoS2)	chr17:57695460-57698774	GM12878	blood:B-lymphocyte	wgEncodeSydhTfbs
NFKB	chr17:57695982-57697948	GM12891	blood:lymphoblastoid cell; B-cell	wgEncodeSydhTfbs
Pol2	chr17:57695497-57698702	GM12891	blood:lymphoblastoid cell; B-cell	wgEncodeSydhTfbs
Pol2	chr17:57695948-57698034	GM12892	blood:lymphoblastoid cell; B-cell	wgEncodeSydhTfbs
Pol2	chr17:57695661-57698117	GM15510	blood:lymphoblastoid cell	wgEncodeSydhTfbs
NFKB	chr17:57695992-57697527	GM18505	blood:lymphoblastoid cell	wgEncodeSydhTfbs
Pol2	chr17:57695642-57698457	GM18505	blood:lymphoblastoid cell	wgEncodeSydhTfbs
Pol2	chr17:57695766-57698068	GM18526	blood:lymphoblastoid cell	wgEncodeSydhTfbs
Pol2	chr17:57695643-57698241	GM18951	blood:lymphoblastoid cell	wgEncodeSydhTfbs
Pol2	chr17:57695928-57698301	GM19099	blood:lymphoblastoid cell	wgEncodeSydhTfbs
HCFC1_(NB100-68209)	chr17:57695912-57698646	Hela-S3	cervix:carcinoma	wgEncodeSydhTfbs
Pol2	chr17:57695698-57697995	Hela-S3	cervix:carcinoma	wgEncodeSydhTfbs

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Pol2(phosphoS2)	chr17:57695968-57697612	Hela-S3	cervix:carcinoma	wgEncodeSydhTfbs
Pol2	chr17:57695210-57698680	HepG2	liver:carcinoma	wgEncodeSydhTfbs
Pol2(phosphoS2)	chr17:57695597-57697598	HepG2	liver:carcinoma	wgEncodeSydhTfbs
Pol2	chr17:57695622-57697550	HUVEC	blood vessel:Endothelial Cell	wgEncodeSydhTfbs
CHD1_(NB100-60411)	chr17:57695068-57698024	IMR90	lung:Fibroblast	wgEncodeSydhTfbs
MAZ_(ab85725)	chr17:57695712-57698910	IMR90	lung:Fibroblast	wgEncodeSydhTfbs
Pol2	chr17:57695241-57698589	IMR90	lung:Fibroblast	wgEncodeSydhTfbs
MAZ_(ab85725)	chr17:57695344-57696030	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2	chr17:57695569-57697970	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2	chr17:57695569-57697528	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2	chr17:57695578-57697512	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2	chr17:57695607-57698594	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2(phosphoS2)	chr17:57695591-57697480	K562	blood:Leukemia cell	wgEncodeSydhTfbs
TBLR1_(ab24550)	chr17:57695944-57696135	K562	blood:Leukemia cell	wgEncodeSydhTfbs
Znf143_(16618-1-AP)	chr17:57695929-57696067	K562	blood:Leukemia cell	wgEncodeSydhTfbs
ZNF384_(HPA004051)	chr17:57695986-57696118	K562	blood:Leukemia cell	wgEncodeSydhTfbs
c-Myc	chr17:57695966-57697480	NB4	blood:Leukemia cell	wgEncodeSydhTfbs
Pol2	chr17:57695580-57697876	PBDE	blood:erythroblast	wgEncodeSydhTfbs
Pol2	chr17:57695971-57698294	Raji	blood:B-lymphocyte	wgEncodeSydhTfbs
eGFP-GATA2	chr17:57695462-57697495	K562	blood:Leukemia cell	wgEncodeUchicagoTfbs
eGFP-JunD	chr17:57694507-57697651	K562	blood:Leukemia cell	wgEncodeUchicagoTfbs

Histone marked region	Histone marker	Location	Cell Line	Cell type	Data source
	H3K27ac	chr17:57695669-57697892	HCT-116	colon:colorectal carcinoma	wgEncodeSydhHistone
	H3K4me3B	chr17:57695985-57698791	K562	blood:Leukemia cell	wgEncodeSydhHistone

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H3K9acB	chr17:57695977-57698564	K562	blood:Leukemia cell	wgEncodeSydhHistone
H3K4me3B	chr17:57695191-57699316	NT2-D1	testis:	wgEncodeSydhHistone
H3K9acB	chr17:57695202-57698771	NT2-D1	testis:	wgEncodeSydhHistone
H3K4me3B	chr17:57695592-57699873	PANC-1	pancreas:	wgEncodeSydhHistone
H3K27ac	chr17:57695316-57697874	PANC-1	pancreas:	wgEncodeSydhHistone
H3K4me3B	chr17:57695814-57698691	PBMC	blood:Mononuclear Cell	wgEncodeSydhHistone
H3K4me3	chr17:57695960-57696090	H7-hESC	embryonic stem cell:embryonic stem cell	wgEncodeUwHistone
H3K4me3	chr17:57695960-57696110	H7-hESC	embryonic stem cell:embryonic stem cell	wgEncodeUwHistone
H3K4me3	chr17:57695940-57696090	H7-hESC	embryonic stem cell:embryonic stem cell	wgEncodeUwHistone
H3K4me3	chr17:57695980-57696090	HPF	lung:Fibroblast	wgEncodeUwHistone
H3K4me3	chr17:57695960-57696110	MCF-7	breast:adenocarcinoma	wgEncodeUwHistone
H3K4me3	chr17:57695960-57696090	RPTEC	kidney:Epithelial Cell	wgEncodeUwHistone
H3K4me3	chr17:57695940-57696050	SK-N-MC	brain:Neuroepithelioma cell	wgEncodeUwHistone
H3K4me1	chr17:57689137-57946733	A549	lung:Epithelial Cell	wgEncodeBroadHistone

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H3K4me1	chr17:57688626-57946619	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr17:57694087-57702566	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr17:57693918-57702531	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me3	chr17:57694218-57702177	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me3	chr17:57694111-57702503	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K9ac	chr17:57694089-57701722	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr17:57694308-57701325	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K27ac	chr17:57694441-57701358	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K36me3	chr17:57605990-58813581	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K36me3	chr17:57672168-58044430	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K79me2	chr17:57599718-58082227	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K79me2	chr17:57686005-57942189	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H4K20me1	chr17:57689726-57807525	A549	lung:Epithelial Cell	wgEncodeBroadHistone
H3K4me2	chr17:57694665-57702278	CD20+	blood:B-lymphocyte	wgEncodeBroadHistone

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H3K27ac	chr17:57685814-57799023	CD20+_RO01794	blood:B-lymphocyte	wgEncodeBroadHistone
H4K20me1	chr17:57690202-57818258	CD20+_RO01794	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me1	chr17:57690388-57709743	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K4me1	chr17:57694267-57696327	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K4me2	chr17:57694262-57704486	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K4me3	chr17:57694565-57701709	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K9ac	chr17:57694409-57700360	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K27ac	chr17:57694345-57699891	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K36me3	chr17:57670022-57791916	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K79me2	chr17:57686827-57815942	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H4K20me1	chr17:57689491-57810632	Dnd41	blood:T-lymphocyte; Leukemia	wgEncodeBroadHistone
H3K4me1	chr17:57685859-57730488	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me3	chr17:57694056-57706958	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K27ac	chr17:57694436-57701679	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone

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H3K36me3	chr17:57671157-57802298	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me1	chr17:57689311-57730300	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me2	chr17:57694008-57706505	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K4me3	chr17:57694366-57706678	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K79me2	chr17:57685979-57815651	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K9ac	chr17:57694689-57701618	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H4K20me1	chr17:57692058-57734185	GM12878	blood:B-lymphocyte	wgEncodeBroadHistone
H3K27ac	chr17:57694856-57698811	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K4me2	chr17:57694500-57701204	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K4me3	chr17:57694712-57700135	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K79me2	chr17:57688075-57735811	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K9ac	chr17:57694993-57699597	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H4K20me1	chr17:57690635-57799449	H1-hESC	embryonic stem cell:embryonic stem cell	wgEncodeBroadHistone
H3K4me1	chr17:57694091-57696730	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone

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H3K27ac	chr17:57694969-57699437	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K36me3	chr17:57670640-58044406	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me2	chr17:57694372-57704491	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me3	chr17:57694794-57701038	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K79me2	chr17:57686802-57817458	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K9ac	chr17:57694945-57699783	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H4K20me1	chr17:57694190-57730586	Hela-S3	cervix:carcinoma	wgEncodeBroadHistone
H3K4me1	chr17:57694358-57696030	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K27ac	chr17:57694212-57699757	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K36me3	chr17:57670795-57927597	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K4me2	chr17:57694201-57704554	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K4me3	chr17:57694577-57702146	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K79me2	chr17:57686022-57818836	HepG2	liver:carcinoma	wgEncodeBroadHistone
H3K9ac	chr17:57694449-57702311	HepG2	liver:carcinoma	wgEncodeBroadHistone

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	H4K20me1	chr17:57604172-57881762	HepG2	liver:carcinoma	wgEncodeBroadHistone
	H3K27ac	chr17:57693969-57700004	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K36me3	chr17:57672970-57789858	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K4me2	chr17:57693810-57702410	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K4me3	chr17:57694250-57702001	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K79me2	chr17:57687441-57817353	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K9ac	chr17:57694505-57700158	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H4K20me1	chr17:57690200-57801790	HMEC	breast:Epithelial Cell	wgEncodeBroadHistone
	H3K27ac	chr17:57694975-57699367	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K36me3	chr17:57671296-57797702	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K4me2	chr17:57694290-57702370	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K4me3	chr17:57694958-57700619	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K79me2	chr17:57687452-57817845	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K9ac	chr17:57694636-57700434	HSMM	muscle:Myoblast	wgEncodeBroadHistone

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	H4K20me1	chr17:57689756-57806770	HSMM	muscle:Myoblast	wgEncodeBroadHistone
	H3K27ac	chr17:57694705-57699347	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K4me1	chr17:57693879-57696325	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K4me2	chr17:57694513-57702339	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K4me3	chr17:57694768-57701000	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K79me2	chr17:57687398-57817855	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K9ac	chr17:57694766-57700066	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H4K20me1	chr17:57688717-57816224	HSMMtube	muscle:Myotube	wgEncodeBroadHistone
	H3K27ac	chr17:57694615-57699651	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K36me3	chr17:57671405-57792010	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K4me1	chr17:57694164-57696807	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K4me2	chr17:57694268-57702359	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K4me3	chr17:57694512-57702053	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K79me2	chr17:57685879-57887038	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone

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	H3K9ac	chr17:57694599-57700265	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K9me1	chr17:57623774-57940609	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H4K20me1	chr17:57689590-57746710	HUVEC	blood vessel:Endothelial Cell	wgEncodeBroadHistone
	H3K27ac	chr17:57692891-57702035	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K36me3	chr17:57672774-57928346	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K4me1	chr17:57684168-57726206	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K4me2	chr17:57692985-57704341	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K4me3	chr17:57684418-57713653	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K79me2	chr17:57689895-57814087	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K9ac	chr17:57689041-57708460	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K9me1	chr17:57690198-57734737	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H4K20me1	chr17:57689322-57795982	K562	blood:Leukemia cell	wgEncodeBroadHistone
	H3K4me2	chr17:57694508-57702201	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
	H3K4me3	chr17:57694568-57701688	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone

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H3K9ac	chr17:57695391-57698950	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
H3K27ac	chr17:57694711-57702479	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
H3K79me2	chr17:57687256-57934429	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
H4K20me1	chr17:57690111-57834605	Monocytes-CD14+_RO01746	blood:Mononuclear Cell	wgEncodeBroadHistone
H3K4me2	chr17:57694206-57706212	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K9ac	chr17:57694522-57701509	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K27ac	chr17:57694666-57699744	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K36me3	chr17:57671831-57799452	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me1	chr17:57688980-57768249	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me3	chr17:57694585-57702044	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K79me2	chr17:57687013-57893098	NH-A	brain:astrocyte	wgEncodeBroadHistone
H4K20me1	chr17:57688867-57815497	NH-A	brain:astrocyte	wgEncodeBroadHistone
H3K4me1	chr17:57693641-57696461	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
H3K27ac	chr17:57694263-57701258	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone

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	H3K36me3	chr17:57671052-57792571	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H3K4me2	chr17:57694178-57706216	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H3K4me3	chr17:57694499-57702097	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H3K79me2	chr17:57687147-57816519	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H3K9ac	chr17:57694703-57701658	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H4K20me1	chr17:57689611-57795579	NHDF-Ad	bronchial:Fibroblast	wgEncodeBroadHistone
	H3K27ac	chr17:57694246-57699845	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K36me3	chr17:57674537-57791878	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K4me1	chr17:57693866-57696536	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K4me2	chr17:57693768-57702487	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K4me3	chr17:57694583-57701774	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K9ac	chr17:57694616-57700144	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H3K9me1	chr17:57691438-57755143	NHEK	skin:keratinocyte	wgEncodeBroadHistone
	H4K20me1	chr17:57690130-57806077	NHEK	skin:keratinocyte	wgEncodeBroadHistone

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	H3K27ac	chr17:57685998-57766800	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K36me3	chr17:57674482-57789544	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K4me1	chr17:57686341-57767420	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K4me2	chr17:57690427-57731361	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K4me2	chr17:57693750-57706235	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K4me3	chr17:57694507-57702219	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K79me2	chr17:57686746-57817511	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K9ac	chr17:57694727-57699803	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H4K20me1	chr17:57689517-57753357	NHLF	lung:Fibroblast	wgEncodeBroadHistone
	H3K4me3	chr17:57694582-57701968	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
	H3K79me2	chr17:57687405-57892764	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
	H4K20me1	chr17:57688958-57814136	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
	H3K27ac	chr17:57694182-57701997	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
	H3K36me3	chr17:57670457-57790738	Osteobl	bone:Osteoblast	wgEncodeBroadHistone

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	H3K4me1	chr17:57695114-57696458	Osteobl	bone:Osteoblast	wgEncodeBroadHistone
	H3K4me2	chr17:57693908-57706008	Osteobl	bone:Osteoblast	wgEncodeBroadHistone

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Supplemental Table 5: Details of proximal transcriptional regulation related to rs12944716.

Distal block	Cell Line	Cell type	Data source
chr16:81040821..81041447-chr17:57695991..57696987,2	HCT-116	colon:colorectal carcinoma	wgEncodeGisChiaPet
chr11:3861858..3862766-chr17:57695960..57696673,2	Hela-S3	cervix:carcinoma	wgEncodeGisChiaPet
chr17:56736472..56738073-chr17:57694088..57697643,3	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57602720..57606607-chr17:57695297..57699680,6	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57640909..57646017-chr17:57693714..57700095,12	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57677442..57680889-chr17:57693427..57698267,6	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57694051..57698847-chr17:57783076..57786818,9	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57695211..57696932-chr17:57777503..57780116,2	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:56736472..56738047-chr17:57694088..57696888,2	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57603811..57608730-chr17:57694197..57700014,10	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57639997..57644892-chr17:57692672..57699617,13	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57693271..57696713-chr17:57722142..57725910,3	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:57695000..57699727-chr17:57782040..57787490,13	K562	blood:Leukemia cell	wgEncodeGisChiaPet
chr17:56707912..56709979-chr17:57694019..57696713,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57229999..57232833-chr17:57695105..57697071,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57641319..57647260-chr17:57694113..57702160,19	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57693530..57699823-chr17:57914678..57919030,10	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695148..57699608-chr17:57744792..57752246,10	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695500..57699459-chr17:57781824..57786560,11	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695684..57699669-chr17:57919469..57924916,7	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr1:45284666..45286674-chr17:57694293..57696347,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet

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Distal block	Cell Line	Cell type	Data source
chr10:74032590..74034337-chr17:57695275..57697702,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr10:79792498..79794169-chr17:57695074..57697921,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695495..57698369-chr6:32936651..32938878,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695760..57698174-chr7:128094723..128097065,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695787..57697752-chr9:130741404..130743508,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:56708500..56710594-chr17:57695506..57697809,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:56736360..56738037-chr17:57695006..57697105,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57231602..57234910-chr17:57694938..57698551,3	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57637903..57647891-chr17:57694563..57698841,20	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57694384..57697472-chr17:57762294..57766263,4	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695154..57697682-chr17:57969742..57971925,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695156..57700171-chr17:57781876..57786883,20	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695234..57697769-chr17:58154098..58158485,3	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695306..57699469-chr17:57921659..57926651,5	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695650..57700395-chr17:57913777..57916758,6	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet
chr17:57695939..57697735-chr17:57918144..57920618,2	MCF-7	breast:adenocarcinoma	wgEncodeGisChiaPet

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DOI: 10.1503/jpn.160189

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Supplemental Figure 1: Gene expression distribution (RPKM, Reads Per Kilobase Million) across human tissues of *TMOD2*.



