

Table S1 Thirteen unique m6A-SNPs showed eQTL signaling with 21 unique genes.

rs	Gene	Study ID	Paper Title	PMID
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
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rs1061259	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1881193	KANSL1	Gibbs2010	Abundant quantitative trait loci exist for DNA methyl	20485568
rs1881193	KANSL1	Gibbs2010	Abundant quantitative trait loci exist for DNA methyl	20485568
rs1881193	KANSL1	Gibbs2010	Abundant quantitative trait loci exist for DNA methyl	20485568
rs1881193	KANSL1	Westra2013	Systematic identification of trans eQTLs as putative c	24013639
rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
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rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1152582	SYNE2	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs1152582	SYNE2	Lappalainen2013	Transcriptome and genome sequencing uncovers fur	24037378
rs3211105	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3211105	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3211105	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
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rs3211105	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs3211105	JMJD1C	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	SMIM8	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	SMIM8	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	SMIM8	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	SMIM8	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
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rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	SMIM8	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
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rs383692	C6orf162	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs383692	C6orf162	Lappalainen2013	Transcriptome and genome sequencing uncovers fur	24037378
rs383692	SMIM8	Lappalainen2013	Transcriptome and genome sequencing uncovers fur	24037378
rs4707358	GJB7	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs4707358	GJB7	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
rs4707358	GJB7	GTEEx2015_v6	The Genotype-Tissue Expression (GTEEx) pilot analysis	25954001
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rs4707358	GJB7	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
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rs4707358	GJB7	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs4707358	GJB7	Lappalainen2013	Transcriptome and genome sequencing uncovers fur	24037378
rs4707358	GJB7	Westra2013	Systematic identification of trans eQTLs as putative c	24013639
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3812132	ZNF292	Lappalainen2013	Transcriptome and genome sequencing uncovers fur	24037378
rs7729926	KIF20A	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs7729926	KIF20A	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs7729926	KIF20A	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs7729926	KIF20A	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs7729926	KIF20A	Westra2013	Systematic identification of trans eQTLs as putative c	24013639
rs774854	PHLDB2	Westra2013	Systematic identification of trans eQTLs as putative c	24013639
rs13390491	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs13390491	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs2163009	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs2163009	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs2163009	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs2163009	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs4894029	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs4894029	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs4894029	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs4894029	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3813250	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
rs3813250	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001

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rs3813250	TTN	GTEEx2015_v6	The Genotype-Tissue Expression (GTEx) pilot analysis	25954001
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Tissue	Correlated gene	p-value	cieQTL
Adipose_Subcutaneous	MRPL35P2	1.06E-06	FALSE
Artery_Tibial	MRPL35P2	1.40E-06	FALSE
Cells_Transformed_fibroblasts	JMJD1C-AS1	2.34E-05	FALSE
Cells_Transformed_fibroblasts	MRPL35P2	3.34E-05	FALSE
Cells_Transformed_fibroblasts	REEP3	9.57E-06	FALSE
Muscle_Skeletal	MRPL35P2	4.03E-07	FALSE
Nerve_Tibial	MRPL35P2	4.37E-07	FALSE
Skin_Sun_Exposed_Lower_leg	MRPL35P2	2.92E-07	FALSE
Testis	JMJD1C	1.51E-05	TRUE
Testis	JMJD1C-AS1	1.55E-10	FALSE
Thyroid	NRBF2	1.04E-05	FALSE
Cerebellum	MAPK8IP1	2.56E-10	FALSE
Cerebellum	MAPT	1.06E-09	FALSE
FrontalCortex	LRRC37A	6.56E-13	FALSE
Whole_Blood	KANSL1	3.44E-33	TRUE
Adipose_Subcutaneous	MTHFD1	3.51E-07	FALSE
Artery_Aorta	MTHFD1	5.24E-06	FALSE
Artery_Tibial	MTHFD1	1.47E-09	FALSE
Heart_Left_Ventricle	SYNE2	3.37E-08	TRUE
Nerve_Tibial	MTHFD1	9.74E-11	FALSE
Skin_Sun_Exposed_Lower_leg	ESR2	2.05E-30	FALSE
Skin_Sun_Exposed_Lower_leg	MTHFD1	1.14E-07	FALSE
Thyroid	MTHFD1	2.25E-08	FALSE
Whole_Blood	ESR2	9.70E-08	FALSE
Lymphoblastoid_EUR_genelevel	ESR2	2.57E-14	FALSE
Artery_Tibial	MRPL35P2	2.18E-08	FALSE
Muscle_Skeletal	MRPL35P2	2.88E-07	FALSE
Nerve_Tibial	MRPL35P2	3.39E-08	FALSE
Skin_Sun_Exposed_Lower_leg	MRPL35P2	5.52E-06	FALSE
Testis	JMJD1C	3.63E-06	TRUE

Tissue	Correlated gene	p-value	cieQTL
Testis	JMJD1C-AS1	2.63E-11	FALSE
Thyroid	NRBF2	7.98E-07	FALSE
Adipose_Subcutaneous	C6orf163	1.68E-09	FALSE
Adipose_Subcutaneous	SMIM8	4.51E-06	TRUE
Adipose_Visceral_Omentum	C6orf163	7.74E-08	FALSE
Adipose_Visceral_Omentum	SMIM8	8.06E-06	TRUE
Artery_Tibial	C6orf163	1.38E-05	FALSE
Breast_Mammary_Tissue	C6orf163	3.27E-10	FALSE
Cells_EBV-transformed_lymphocytes	C6orf163	1.30E-07	FALSE
Cells_Transformed_fibroblasts	C6orf163	3.07E-11	FALSE
Cells_Transformed_fibroblasts	SMIM8	1.03E-14	TRUE
Colon_Sigmoid	C6orf163	3.53E-06	FALSE
Colon_Transverse	SMIM8	2.62E-06	TRUE
Esophagus_Mucosa	C6orf163	6.15E-06	FALSE
Esophagus_Muscularis	C6orf163	2.29E-06	FALSE
Lung	C6orf163	2.20E-09	FALSE
Muscle_Skeletal	C6orf163	3.24E-06	FALSE
Nerve_Tibial	C6orf163	5.02E-08	FALSE
Nerve_Tibial	SMIM8	7.71E-12	TRUE
Nerve_Tibial	ZNF292	1.31E-06	FALSE
Skin_Sun_Exposed_Lower_leg	C6orf163	2.04E-06	FALSE
Skin_Sun_Exposed_Lower_leg	SMIM8	5.69E-08	TRUE
Stomach	C6orf163	9.39E-06	FALSE
Thyroid	C6orf163	5.69E-09	FALSE
Vagina	C6orf163	3.50E-08	FALSE
Lymphoblastoid_EUR_genelevel	C6orf163	2.81E-08	FALSE
Lymphoblastoid_EUR_genelevel	SMIM8	1.24E-11	TRUE
Brain_Cortex	SMIM8	4.25E-10	FALSE
Brain_Frontal_Cortex_BA9	SMIM8	1.02E-07	FALSE
Cells_Transformed_fibroblasts	C6orf163	2.33E-06	FALSE
Cells_Transformed_fibroblasts	SMIM8	2.44E-05	FALSE

Tissue	Correlated gene	p-value	cieQTL
Muscle_Skeletal	C6orf163	4.47E-07	FALSE
Nerve_Tibial	ZNF292	7.17E-08	FALSE
Whole_Blood	ZNF292	2.52E-06	FALSE
Lymphoblastoid_EUR_genelevel	SLC35A1	3.78E-11	FALSE
Whole_Blood	RARS2	1.46E-05	FALSE
Brain_Cortex	SMIM8	8.35E-10	FALSE
Brain_Frontal_Cortex_BA9	SMIM8	2.06E-08	FALSE
Cells_Transformed_fibroblasts	C6orf163	1.79E-06	FALSE
Cells_Transformed_fibroblasts	SMIM8	1.02E-05	FALSE
Muscle_Skeletal	C6orf163	6.35E-07	FALSE
Nerve_Tibial	ZNF292	7.70E-08	TRUE
Whole_Blood	ZNF292	2.37E-06	TRUE
Lymphoblastoid_EUR_genelevel	SLC35A1	3.85E-11	FALSE
Lung	GFRA3	4.27E-07	FALSE
Pituitary	GFRA3	1.39E-08	FALSE
Testis	CDC23	1.26E-05	FALSE
Testis	GFRA3	1.13E-06	FALSE
Whole_Blood	CDC23	1.86E-06	FALSE
Whole_Blood	ABHD10	1.68E-23	FALSE
Artery_Aorta	FKBP7	1.57E-06	FALSE
Cells_Transformed_fibroblasts	FKBP7	4.18E-11	FALSE
Adipose_Subcutaneous	FKBP7	2.78E-07	FALSE
Artery_Aorta	FKBP7	2.46E-07	FALSE
Cells_Transformed_fibroblasts	FKBP7	4.56E-08	FALSE
Nerve_Tibial	FKBP7	4.33E-06	FALSE
Adipose_Subcutaneous	FKBP7	4.64E-07	FALSE
Artery_Aorta	FKBP7	1.88E-06	FALSE
Cells_Transformed_fibroblasts	FKBP7	1.24E-07	FALSE
Nerve_Tibial	FKBP7	1.29E-05	FALSE
Adipose_Subcutaneous	FKBP7	1.01E-07	FALSE
Artery_Aorta	FKBP7	3.85E-07	FALSE

Tissue	Correlated gene	p-value	cieQTL
Cells_Transformed_fibroblasts	FKBP7	2.12E-08	FALSE
Nerve_Tibial	FKBP7	9.39E-06	FALSE