

Journal of Hepatology

CTAT methods

Tables for a “Complete, Transparent, Accurate and Timely account” (CTAT) are now mandatory for all revised submissions. The aim is to enhance the reproducibility of methods.

- Only include the parts relevant to your study
- Refer to the CTAT in the main text as ‘Supplementary CTAT Table’
- Do not add subheadings
- Add as many rows as needed to include all information
- Only include one item per row

If the CTAT form is not relevant to your study, please outline the reasons why:

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1.1 Antibodies

Name	Citation	Supplier	Cat no.	Clone no.
rabbit polyclonal anti-myeloperoxidase	PMID: 23415223	Invitrogen	Cat #PA5-16672	
rabbit monoclonal anti-F4/80	PMID: 30123064	Invitrogen	MA5-16363	SP115
polyclonal guinea pig anti-insulin	PMID: 29432124	Abcam	ab7842	
polyclonal rabbit anti-glucagon	PMID: 28566287	Cell Signaling Technology	2760	
Alexa-Fluor-488-conjugated goat anti-rabbit IgG	PMID: 28256511	Molecular Probes	A-11008	
Alexa-Fluor-594-conjugated goat anti-rabbit IgG	PMID: 31819047	Fisher Scientific	A32740	
Alexa- Fluor-488-conjugated rabbit anti-guinea pig IgG		Invitrogen	A18883	
Rabbit anti-phospho-Akt (Ser473)	PMID: 30413718	Cell Signaling Technology	9018	
Rabbit anti-Akt	PMID: 29578538	Cell Signaling Technology	2938	

Rabbit anti-alpha-Actinin antibody	PMID: 21490960	Santac Cruz Biotech	sc-7454-R	
HRP-conjugated anti-rabbit IgG secondary antibody	PMID: 31819055	Cell Signaling Technology	7074	

1.2 Cell lines

Name	Citation	Supplier	Cat no.	Passage no.	Authentication test method
N.A.					

1.3 Organisms

Name	Citation	Supplier	Strain	Sex	Age	Overall n number
TghPNPLA3-I148I		Cyagen	C57BL/6	Male	6-8 weeks	13
TghPNPLA3-I148M		Cyagen	C57BL/6	Male	6-8 weeks	14
the non-transgenic controls		Cyagen	C57BL/6	Male	6-8 weeks	13

1.4 Sequence based reagents

Name	Sequence	Supplier
mUCP-1	forward primer (5'-3') GGATTGGCCTCTACGACTCA reverse primer (5'-3') TAAGCCGGCTGAGATCTTGT	Integrated DNA Technologies
mPGC-1 α	forward primer (5'-3') CGCTAGCAAGTTTGCCTCAT reverse primer (5'-3') TGAAGTGGTGTAGCGACCAA	Integrated DNA Technologies
mPPAR gamma	forward primer (5'-3') CGGGTGGGACTTTTCTGCTAATACA reverse primer (5'-3') TTCGCCAAGGTGCTCCAGAAG	Integrated DNA Technologies
mCidea	forward primer (5'-3') TGCTCTTCTGTATCGCCCAGT	Integrated DNA Technologies

mNrf1	reverse primer (5'-3') GCCGTGTTAAGGAATCTGCTG forward primer (5'-3') CAACAGGGAAGAAACGGAAA reverse primer (5'-3') GTGGCTCTGAGTTTCCGAAG	Integrated DNA Technologies
mCox8b	forward primer (5'-3') GCGAAGTTCACAGTGGTTCC reverse primer (5'-3') GGAACCATGAAGCCAACGAC	Integrated DNA Technologies
mCox7a1	forward primer (5'-3') AGCGTCATGGTCAGTCTGT reverse primer (5'-3') AACCGTGTGGCAGAGA	Integrated DNA Technologies
mFdft1	forward primer (5'-3') ATGGAGTTCGTCAAGTGTCTAGG reverse primer (5'-3') CGTGCCGTATGTCCCCATC	Integrated DNA Technologies
mMylip	forward primer (5'-3') ATGCTGTGCTATGTGACGAGG reverse primer (5'-3') TCGATGATCCCTAGACGCCTG	Integrated DNA Technologies
mSqle	forward primer (5'-3') ATAAGAAATGCGGGGATGTCAC reverse primer (5'-3') ATATCCGAGAAGGCAGCGAAC	Integrated DNA Technologies
mHMGCS1	forward primer (5'-3') AACTGGTGCAGAAATCTCTAGC reverse primer (5'-3') GGTTGAATAGCTCAGAACTAGCC	Integrated DNA Technologies
mNsdhl	forward primer (5'-3') TCATGGTGAATCAAAGCGAGG reverse primer (5'-3') CCGGGGTTATCAAAGCCTTG	Integrated DNA Technologies
mSc5d	forward primer (5'-3') TCTCAGTGCCGCCGATTACTA reverse primer (5'-3') CTTGACAGTGAACACGATCTCA	Integrated DNA Technologies
mLss	forward primer (5'-3') TCGTGGGGGACCCTATAAAAC reverse primer (5'-3') CGTCCTCCGCTTGATAATAAGTC	Integrated DNA Technologies

mDhcr7	forward primer (5'-3') AGGCTGGATCTCAAGGACAAT reverse primer (5'-3') GCCAGACTAGCATGGCCTG	Integrated DNA Technologies
mCyp51	forward primer (5'-3') GACAGGAGGCAACTTGCTTTC reverse primer (5'-3') GTGGACTTTTCGCTCCAGC	Integrated DNA Technologies
mSoat2	forward primer (5'-3') ACAAGACAGACCTCTTCCCTC reverse primer (5'-3') ATGGTTCGGAAATGTTGCACC	Integrated DNA Technologies
mTm7sf2	forward primer (5'-3') GTCGCGGCTTTACTGATCCT reverse primer (5'-3') CAGGCAGATAGGCCGGTAG	Integrated DNA Technologies
mHsd17b7	forward primer (5'-3') ACGGGCCAAAAGGTACATAATC reverse primer (5'-3') CCAGCATGAGGACTCGGAT	Integrated DNA Technologies
mldlr	forward primer (5'-3') TGA CTCAGACGAACAAGGCTG reverse primer (5'-3') ATCTAGGCAATCTCGGTCTCC	Integrated DNA Technologies
mAbca1	forward primer (5'-3') GCTTGTTGGCCTCAGTTAAGG reverse primer (5'-3') GTAGCTCAGGCGTACAGAGAT	Integrated DNA Technologies
mABCG1	forward primer (5'-3') CTTTCCTACTCTGTACCCGAGG reverse primer (5'-3') CGGGGCATTCCATTGATAAGG	Integrated DNA Technologies
mPpia	forward primer (5'-3') CACCGTGTTCTTCGACATCA reverse primer (5'-3') CAGTGCTCAGAGCTCGAAAGT	Integrated DNA Technologies
mGapdh	forward primer (5'-3') AGGTCGGTGTGAACGGATTTG reverse primer (5'-3') GGGGTCGTTGATGGCAACA	Integrated DNA Technologies

1.5 Biological samples

Description	Source	Identifier
Tissues sample from mice	Transgenic mice	

1.6 Deposited data

Name of repository	Identifier	Link
N.A.		

1.7 Software

Software name	Manufacturer	Version
R	R Development Core Team	3.5.0
SAIGE	Zhou W et al.	0.29
PLINK	Shaun Purcell	1.9
R package: MendelianRandomization	Yavorska OO et al.	0.4.1
R package: MRPRESSO	Verbanck M et al.	1.0
R package: RadialMR	Bowden J et al.	0.4
ImageJ	National Institutes of Health and the Laboratory for Optical and Computational Instrumentation	1.51k
GraphPad Prism	GraphPad Software	6.00
G*Power	Faul F et al.	3.1

1.8 Other (e.g. drugs, proteins, vectors etc.)

Regular chow diet	ENVIGO	Teklad Diets 2018SX
High-sucrose diet	Research Diets	D17070603
HFFC diet	Research Diets	D18021203
Glucose	Sigma	G8270
Insulin	Lilly	U-100
Mouse ultrasensitive insulin ELISA kit	ALPCO	80-INSMSU-E10
Total Cholesterol (Cholesterol E)	Wako	999-02601
L-Type Triglyceride M	Wako	994-02891 (Color A) 990-02991 (Color B)
Direct Red 80	Sigma-Aldrich	365548
Fast Green FCF	Fisher Scientific	F99-10
Permout™ mounting medium	Fisher Scientific	SP15-100
VECTASHIELD® antifade mounting media with DAPI	Vector Laboratories	H-1800
ECL Western Blotting Substrate	Fisher Scientific	32106
TRI Reagent	Sigma-Aldrich	93289-100ML
High-Capacity cDNA Reverse Transcription Kit	Fisher Scientific	43-688-14
SYBR Green PCR Master Mix	Fisher Scientific	A25777

1.9 Please provide the details of the corresponding methods author for the manuscript:

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2.0 Please confirm for randomised controlled trials all versions of the clinical protocol are included in the submission. These will be published online as supplementary information.

N.A.