

## 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.
ATGL	WB	Cell Signaling	#2138	N/A
ATGL	ICC	Abcam	#220738	N/A
LAMP1	ICC	Developmental Studies Hybridoma Bank University of Iowa	H4A3	H4A3
Rab11	ICC	Pierce/ Thermo Scientific	71-5300	N/A
Rab18	ICC	Protein Tech group	11304-ap	N/A
Transferrin receptor	ICC	Thermo Scientific	13-6800	H68.4
ATG5	WB	Novus Biologicals	NB110-53818	N/A
P62	WB	Progen Biotechnik GmbH	GP62-C	N/A
PLIN2	ICC/WB	Progen	GP40	N/A
PLIN2	ICC	Abcam	ab108323	N/A
GAPDH	WB	Ambion	AM4300	N/A
LC3B	ICC/WB	Cell Signaling	#2775	N/A
TO-PRO 3 iodide 642/661	IHC	Invitrogen	T3605	N/A
GAPDH	WB	Epitope Biotech Inc.	L001	N/A
c-Myc	ICC	Clontech	631206	N/A
Myc-Tag	WB	Cell Signaling	#2772	N/A
Beclin1	WB	Cell Signaling	3738	N/A
4,6-Diamidinon-2-phenylindo (DAPI)	ICC	Roche	10236276001	
GFP	WB	Santa Cruz	sc-9996	B-2

Anti-guinea pig Alexa 488	ICC	Thermo Fisher	A11073	
Anti-mouse Alexa 488	ICC	Thermo Fisher	A11017	
Anti-rabbit Alexa 647	ICC	Thermo Fisher	A-31573	
Anti-mouse Alexa 594	ICC	Thermo Fisher	A-21203	
Anti-rabbit Alexa 488	ICC	Thermo Fisher	A11070	
Anti-mouse Alexa 568	ICC	Thermo Fisher	A11-004	
Anti-mouse POD	WB	Dianova	315-035-008	
Anti-rabbit POD	WB	Dianova	111-035-003	

## 1.2 Cell lines

Name	Citation	Supplier	Cat no.	Passage no.	Authentication test method
HeLa		ATCC	ATCC® CCL-2™	7-20	
HEK293T		SciCrunch	RRID:CVCL_0063	6-17	
McA-RH7777 (McArdle)		ATCC	ATCC® CRL-1601™	6-17	

## 1.3 Organisms

Name	Citation	Supplier	Strain	Sex	Age	Overall n number
NZO		DIfE (German Institute of Human Nutrition), Nuthetal, Germany	NZO/HIBomDif E	M	6/16 weeks	4/8
B6		Janvier Laboratories	C57BL/6JRI	M	6/16 weeks	4/80
DBA		Jackson Lab, Maine, USA	DBA/2J	M	6/16 weeks	4/16
129P2		DIfE	129P2/OlaHsd	M	6/16 weeks	4/8
C3H		Helmholtz Center, Munich, Germany	C3H/FeJ	M	6/16 weeks	4/11
(NZOxB6)N2		DIfE	NZO/HIBomDif E x C57BL/6JRI	M	16 weeks	311
(NZOxDBA)N2		DIfE	NZO/HIBomDif E x DBA	M	16 weeks	288
(NZOx129P2)N2		DDZ (German Diabetes Center),	NZO/HIBomDif E x 129P2	M	16 weeks	290

		Düsseldorf, Germany				
(NZOxC3H)N2		DDZ	NZO/HIBomDif E x C3H	M	16 weeks	329
RCS N/N N/B_N4/N5		DifE	NZO/HIBomDif E x C57BL/6JRI	M	12 weeks	64
RCS (NZO- background) F4.N10		DifE	NZO/HIBomDif E x C57BL/6JRI	M	7 or 12 weeks	107
RCS (NZO- background) F8.N9		DifE	NZO/HIBomDif E x C57BL/6JRI	M	7 or 12 weeks	33
RCS (B6- background) F2.N8		DifE	NZO/HIBomDif E x C57BL/6JRI	M	22 weeks	24

## 1.4 Sequence based reagents

Name	Sequence	Supplier
WtEnh_fw	GAAGGACTGCTGCTTACTGTCTTGC	Eurofins Genomics
WtEnh_rv	GCAAGACAGTAAGCAGCAGTCCTTC	Eurofins Genomics
DelEnh_fw	GAAGGACTGTGCTTACTGTCTTGC	Eurofins Genomics
DelEnh_rv	GCAAGACAGTAAGCACAGTCCTTC	Eurofins Genomics
miR- <i>lfgga2</i>	UAACGACUCGGUGGAUAGAAA	Thermo Fisher
miR- <i>lfgga4</i>	CGGACAACUUGUCCAUUUCUU	Thermo Fisher
<i>Brwd3</i> -Forw	GTGAAACCTCCAAACGTGGT	Sigma Aldrich
<i>Brwd3</i> -Rev	GCGACTACATCCGGTTAATTG	Sigma Aldrich
<i>Dennd5b</i> -Forw	GAGGCAACCAAACTGTCAGA	Sigma Aldrich
<i>Dennd5b</i> -Rev	CCAACATGCGTTTTGTCTTC	Sigma Aldrich
<i>Fubp1</i> -Forw	AAAGTACCTCCCCAAAATGACTC	Sigma Aldrich
<i>Fubp1</i> -Rev	CTGGGACTTTGTATTCTTCTGTCA	Sigma Aldrich
<i>Hira</i> -Forw	TTGCAACTGGAGGACAAGG	Sigma Aldrich
<i>Hira</i> -Rev	GGCAAAGCATCTTGGGAATA	Sigma Aldrich
<i>Krit1</i> -Forw	GGGACTTCCTTTAGAAGTTGAGAA	Sigma Aldrich
<i>Krit1</i> -Rev	TTGCCAGTGTTATCAGTTTAGCA	Sigma Aldrich
<i>Lmbr1</i> -Forw	CAAGAGAAAATCCGATGAACAA	Sigma Aldrich
<i>Lmbr1</i> -Rev	GAAGGTGCTCAGAAACAACGA	Sigma Aldrich
<i>Mmgt1</i> -Forw	CCACTTGATAAATCTAGGCCATTT	Sigma Aldrich
<i>Mmgt1</i> -Rev	GGAGGAAATCAGAGGTGACTACTAA	Sigma Aldrich
<i>Stam</i> -Forw	TTGAGAAAGCAACTAGTGAGTTGAA	Sigma Aldrich
<i>Stam</i> -Rev	TGGAACGAAGACAATCTTTAGGTC	Sigma Aldrich
<i>Stat3</i> -Forw	GGACCGTCTGGAAACTGG	Sigma Aldrich
<i>Stat3</i> -Rev	TCGCCCTTGTAGGACACTTT	Sigma Aldrich
<i>Tob1</i> -Forw	ACTTTTGCTGCCACCAAGTT	Sigma Aldrich
<i>Tob1</i> -Rev	GAGCTACCTTGCTGCTACGG	Sigma Aldrich
<i>Xrn1</i> -Forw	AACAAGTCACGAGGCACATTT	Sigma Aldrich
<i>Xrn1</i> -Rev	TCGTTTCTTCTGGTGACAT	Sigma Aldrich
si- <i>lfgga2</i> sense	GGAAAUAGAUCAGGUAGAUUU	Horizon
si- <i>lfgga2</i> antisense	AUCUACCUAGAUCUAAUUCUU	Horizon
si-scrambled sense	AUGUAAUUGGCCUGUAAUAGUU	Horizon
si-scrambled antisense	CUAAUACAGGCCAAUACAUUU	Horizon

<i>Ifgga2</i>	Mm01621208	Thermo Fisher
<i>Ifgga4</i>	Mm02012670	Thermo Fisher
<i>Eef2</i>	Mm01171434	Thermo Fisher
<i>Actb-Forward</i>	GCCAACCGTGAAAAGATGAC	Sigma Aldrich
<i>Actb-Reverse</i>	TACGACCAGAGGCATACAG	Sigma Aldrich
<i>Actb-Probe</i>	[FAM] TTGAGACCTTCAACACCCCAGCCA[TAM]	Sigma Aldrich
<i>Ppia</i>	Mm02342429	Thermo Fisher
<i>IRGM</i>	Hs.PT.58.27597303	Integrated DNA Technologies (IDT)
<i>IRGC</i>	Hs01013699	Thermo Fisher
<i>HPRT</i>	Hs.PT.58v.45621572	Integrated DNA Technologies (IDT)

## 1.5 Biological samples

Description	Source	Identifier
Liver	Human	Koliaki et al., 2015

## 1.6 Deposited data

Name of repository	Identifier	Link
Gene expression omnibus (GEO)	GSE146721_ GSE146724	

## 1.7 Software

Software name	Manufacturer	Version
Graphpad Prism	GraphPad Software Inc., La Jolla, CA	8
Roche Light Cycler 480 system	Roche	
Leica Application Suite X	Leica Microsystems	
FUSION-SL4	Peqlab Biotechnology	
BLOCK-iT™ RNAi Designer	Invitrogen	
R/qtl		1.40-8
R	R Foundation for Statistical Computing	3.X
Assay Design Center	Roche Diagnostics	
MaxQuant	Cox and Mann, Nat. Biotechnol., 26 (2008), pp. 1367-1372	1.5.1.6
La Theta	Hitachi-Aloka	V3.20

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

BafilomycinA	Tocris	1334
Leupeptin	Sigma Aldrich	L2884
NH <sub>4</sub> Cl	Merck	101145
pEGFP-N	Clontech	#6085-1
IFGGA2-GFP	Sino Biological	MG5A7579-ACG
IFGGA2-Myc	Self-made ; pcDNA3.1(-)A-Vector from Invitrogen (V795-20)	

pcDNA3.1(-)A	Invitrogen	V795-20
ATGL-His	Provided by R- Zechner	
pds-AAV-LP1-GFP-mut (AAV-Control)	Provided by A. M. Davidoff	
pCMV5 HA FoxO1	Addgene	12142
pcDNA6.2-GW/EmGFP-miR	Invitrogen	K4936-00
pCMV-Myc-C	Clontech	635689
IRGM-Myc	Origene	RC227287
AAV-miR-lfgga2	Vigene	
AAV-miR-lfgga4	Vigene	
Viomer Red	BIONTECH	VR-01LB
Lipofectamine2000	Invitrogen	11668019
Oleic acid	Sigma Aldrich	O1383
Taurocholic acid sodium salt hydrate	Sigma Aldrich	T4009
Oleic acid	Sigma Aldrich	O1008
Bovine serum albumin (BSA), fatty acid free	Sigma Aldrich	A8806
GFP-Trap	Chromotek	gta-20
Myc-Trap	Chromotek	yta-20
Bodipy 493/503	Invitrogen	D3922
HFD 45% kcal fat	Research Diets	D12451

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

EMSA: Tom Haltenhof/Florian Heyd [haltenhof@zedat.fu-berlin.de](mailto:haltenhof@zedat.fu-berlin.de)/ [florian.heyd@fu-berlin.de](mailto:florian.heyd@fu-berlin.de), Takustr. 6, 14195 Berlin, +49 30 838 56919  
 Proteomics: Natalie Krahmer, Ingolstädter Landstraße 1, 85764 Neuherberg, [natalie.krahmer@helmholtz-muenchen.de](mailto:natalie.krahmer@helmholtz-muenchen.de), +49 89 3187 43359  
 Linkage/Haplogroup analysis: Markus Jähnert, [markus.jaehnert@dife.de](mailto:markus.jaehnert@dife.de), Arthur-Scheunert-Allee 114-116, 14558 Nuthetal, +49 33200 882372  
 Linkage/Haplogroup analysis/ Identification of putative regulatory SNPs/Indels in transcription factor binding sites: Pascal Gottmann, [pascal.gottmann@dife.de](mailto:pascal.gottmann@dife.de), Arthur-Scheunert-Allee 114-116, 14558 Nuthetal, +49 33200 882544  
 Quantification of hepatic lipids by liquid chromatography – mass spectrometry (LC-MS): Fabian Schumacher, [fabian.schumacher@uni-potsdam.de](mailto:fabian.schumacher@uni-potsdam.de), Arthur-Scheunert-Allee 114-116, 14558 Nuthetal, +49 33200 885507  
 Remaining Methods: Kristin Schwerbel, [kristin.schwerbel@dife.de](mailto:kristin.schwerbel@dife.de), Arthur-Scheunert-Allee 114-116, 14558 Nuthetal, +49 33200 882388

## 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