

Materials List for

# An Adipocyte Cell Culture Model to Study the Impact of Protein and Micro-RNA Modulation on Adipocyte Function

Jennifer Jager<sup>1</sup>, Mélanie Gaudfrin<sup>1</sup>, Jérôme Gilleron<sup>1</sup>, Mireille Cormont<sup>1</sup>, Jean-François Tanti<sup>1</sup>

<sup>1</sup>Université Côte d'Azur, Inserm, C3M, Team Cellular and Molecular Pathophysiology of Obesity and Diabetes, Nice, France

## Corresponding Author

Jennifer Jager

jennifer.jager@unice.fr

## Citation

Jager, J., Gaudfrin, M., Gilleron, J., Cormont, M., Tanti, J.F. An Adipocyte Cell Culture Model to Study the Impact of Protein and Micro-RNA Modulation on Adipocyte Function. *J. Vis. Exp.* (171), e61925, doi:10.3791/61925 (2021).

## Date Published

May 4, 2021

## DOI

10.3791/61925

## URL

jove.com/video/61925

## Materials

Name	Company	Catalog Number	Comments
12 well Tissue Culture Plate	Dutscher	353043	
2.5% Trypsin (10x)	Gibco	15090-046	diluted to 5x with D-PBS
2-Propanol	Sigma	I9516	
3-Isobutyl-1-methylxanthine	Sigma-Aldrich	D5879	
Accell Non-targeting Pool	Horizon Discovery	D-001910-10-05	
Bovine Serum Albumin (BSA)	Sigma	A7030	
Collagen type I from calf skin	Sigma-Aldrich	C8919	
Dexamethasone	Sigma-Aldrich	D1756	
D-PBS	Gibco	14190144	
Dulbecco's Modified Eagles's Medium (DMEM)	Gibco	41965062	4.5 g/L D-Glucose; L-Glutamine; no Pyruvate
Ethanol	Sigma	51976	
FAM-labeled Negative Control si-RNA	Invitrogen	AM4620	
Fetal Bovine Serum	Gibco	10270-106	
Free Glycerol Reagent	Sigma-Aldrich	F6428	
Glycerol Standard Solution	Sigma-Aldrich	G7793	
HSP90 antibody	Santa Cruz	sc-131119	Dilution : 0.5 µg/mL
Improved Minimal Essential Medium (Opti-MEM)	Gibco	31985-047	
Insulin, Human Recombinant	Gibco	12585-014	
miRIDIAN micro-RNA mimics	Horizon Discovery		
miRNeasy Mini Kit	Qiagen	217004	
miScript II RT Kit	Qiagen	218161	
miScript Primer Assays Hs_RNU6-2_11	Qiagen	MS00033740	

miScript Primer Assays Mm_miR-34a_1	Qiagen	MS00001428	
miScript SYBR Green PCR Kit	Qiagen	219073	
Newborn Calf Serum	Gibco	16010-159	
Oil Red O	Sigma	O0625	
ON-TARGETplus Mouse Plin1 si- RNA SMARTpool	Horizon Discovery	L-056623-01-0005	
Penicillin and Streptomycin	Gibco	15140-122	
Perilipin-1 antibody	Cell Signaling	3470	Dilution : 1/1000
Petri dish 100 mm x 20 mm	Dutscher	353003	
PKB antibody	Cell Signaling	9272	Dilution : 1/1000
PKB Phospho Thr308 antibody	Cell Signaling	9275	Dilution : 1/1000
Rosiglitazone	Sigma-Aldrich	R2408	
Transfection reagent (INTERFERin)	Polyplus	409-10	
$\alpha$ -tubulin antibody	Sigma aldrich	T6199	Dilution : 0.5 $\mu$ g/mL
Vamp2 antibody	R&D Systems	MAB5136	Dilution : 0.1 $\mu$ g/mL