

Materials List for:

# Detection of RNA-binding Proteins by *In Vitro* RNA Pull-down in Adipocyte Culture

Qianfan Bai<sup>\*1</sup>, Zhiqiang Bai<sup>\*1</sup>, Shaohai Xu<sup>3</sup>, Lei Sun<sup>1,2</sup>

<sup>1</sup>Cardiovascular and Metabolic Disorders Program, Duke-NUS Medical School

<sup>2</sup>Institute of Molecular and Cell Biology, Singapore

<sup>3</sup>Division of Bioengineering, School of Chemical & Biomedical Engineering, Nanyang Technological University

\*These authors contributed equally

Correspondence to: Lei Sun at [sun.lei@duke-nus.edu.sg](mailto:sun.lei@duke-nus.edu.sg)

URL: <https://www.jove.com/video/54207>

DOI: [doi:10.3791/54207](https://doi.org/10.3791/54207)

## Materials

Name	Company	Catalog Number	Comments
<b>Major materials used in this study.</b>			
MEGAscript kit	Ambion		
Biotin-14-CTP	Invitrogen		
NucAway spin columns	Ambion		
Dynabeads M-280 Streptavidin	Invitrogen		
HuR (3A2) mouse monoclonal antibody (sc-5261)	Santa Cruz Biotechnology		
Goat anti-mouse IgG-HRP(sc-2005)	Santa Cruz Biotechnology		
Hypure Molecular Biology Grade Water (nuclease-free)	HyClone		
Phosphate Buffer Saline (1×PBS)	HyClone		
RNase inhibitor	Bioline		
Protease inhibitor	Sigma		
Pfu Turbo DNA polymerase	Agilent Technologies		
TRIsure	Bioline		
<b>Name Company Catalog Number Comments</b>			
<b>Major equipment used in this study.</b>			
Sorvall Legend Micro 21R centrifuge	Thermo Scientific		
Sorvall Legend X1R centrifuge	Thermo Scientific		
Bio-Rad T100 thermal cycler	Bio-Rad		
Nanodrop 2000	Thermo Scientific		
BOECO rotator Multi Bio RS-24	BOECO, Germany		
Protein gel electrophoresis and blotting apparatus	Bio-Rad		
DynaMag-2 magnet	Life Technologies		