

Materials List for:

Modeling Myotonic Dystrophy 1 in C2C12 Myoblast Cells

Rui Liang^{*1}, Wei Dong^{*1,3}, Xiaopeng Shen¹, Xiaoping Peng^{1,3}, Angie G. Aceves^{1,2}, Yu Liu¹

¹Department of Biology and Biochemistry, University of Houston

²Department of Economics, University of Houston

³Department of Cardiology, The First Affiliated Hospital of Nanchang University

*These authors contributed equally

Correspondence to: Yu Liu at yliu51@central.uh.edu

URL: <https://www.jove.com/video/54078>

DOI: [doi:10.3791/54078](https://doi.org/10.3791/54078)

Materials

Name	Company	Catalog Number	Comments
DMEM, high glucose	Life Technologies	11965-084	for culture medium
Fetal Bovine Serum - Premium	Atlanta Biologicals	S11150	for culture medium
Penicillin-Streptomycin-Glutamine (100x)	Life Technologies	10378-016	for culture medium
Insulin from bovine pancreas	Sigma Aldrich	I6634-100MG	for differentiation medium
equine serum	Atlanta Biologicals	S12150	for differentiation medium
FuGENE HD Transfection Reagent	Promega	E2311	for transfection
G418 sulfate	Gold Biotechnology	G-418-10	for drug resistant selection
Puromycin dihydrochloride	Sigma Aldrich	sc-108071	for drug resistant selection
NuPAGE Novex 4 - 12% Bis-Tris Protein Gels, 1.0 mm, 15 well	Life Technologies	NP0323BOX	for western blot
NuPAGE Transfer Buffer (20x)	Life Technologies	NP00061	for western blot
NuPAGE MES SDS Running Buffer (20x)	Life Technologies	NP0002	for western blot
Amersham Protran Supported 0.2 NC, 300 mm x 4 m	GE healthcare life science	10600015	for western blot
MF 20	Developmental Hybridoma Bank	MF 20	primary Ab for immunostaining
Goat anti-Mouse IgG (H+L) Secondary Antibody, Texas Red-X conjugate	Thermo Fisher Scientific	T-862	secondary Ab for immunostaining
One step qRT-PCR MasterMix	AnaSpec	05-QPRT-032X	for qRT-PCR
TriPure Isolation Reagent	Roche	11667165001	for RNA isolation
CUG-BP1 Antibody (3B1)	santa cruz	sc-20003	primary Ab western blot
Actin Antibody	santa cruz	sc-1615	goat polyclonal IgG for loading control
293T Ecopack	Clontech	631507	cells for retrovirus preparation
pMSCV-puro	Clontech	634401	empty retroviral vector for retrovirus preparation
pMSCV-Celf1Flag-puro	house-constructed	not available	retroviral vector encoding Celf1Flag, used in retrovirus preparation
psPAX2	gift from Didier Trono	not available	for lentivirus preparation
pMD2.G	gift from Didier Trono	not available	for lentivirus preparation
GFP-CUG5	gift from M.S. Mahadevan	not available	details in reference 10
GFP- CUG200	gift from M.S. Mahadevan	not available	details in reference 10
Triton X-100	Sigma Aldrich	X100	for immunostaining

paraformaldehyde	Sigma Aldrich	P6148	for immunostaining
TWEEN 20	Sigma Aldrich	P9416	for immunostaining
DAPI	Sigma Aldrich	D9542	for immunostaining