

Materials List for:

# Identification of MyoD Interactome Using Tandem Affinity Purification Coupled to Mass Spectrometry

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URL: <https://www.jove.com/video/53924>

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## Materials

Name	Company	Catalog Number	Comments
<b>Cell lines</b>			
HeLa-S3	ATCC	CCL-2.2	
C2C12	ATCC	CRL-1772	
<b>Equipment</b>			
Spinner	Corning	778531	
Homogenizer: Dounce homogenizer	Wheaton	432-1273 and 432-1271	
Agitating device for spinners	Bellco	778531	
Sonicator	Diagenode	UCD 200	
Hemocytometer	Marienfeld Superior	640610	
Low-binding tubes	Sorenson	27210	
Empty spin column	Bio-Rad	7326204	
<b>Reagents</b>			
SDS-polyacrylamide 4-12% gel	Life technologies	NP0336BOX	
4x loading buffer	Life technologies	NP0007	
10x reducing agent	Life technologies	NP0004	
Silver staining kit	Life technologies	A8592	
Centrifugal filter units, 10K	Millipore	UFC501024	
Protein G agarose beads	Sigma-Aldrich	P4691	
Protein A/G Resin	Thermo Scientific	53132	
Flag resin (anti-Flag M2-agarose affinity gel)	Sigma-Aldrich	A2220	
HA resin (monoclonal Anti-HA agarose)	Sigma-Aldrich	A2095	
MNase	Sigma-Aldrich	N3755	
Flag free peptide (DYKDDDDK)	Ansynth Service BV	Custom synthesis	Resuspend up to 4 mg/ml in 50 mM Tris-HCl, pH 7.8
HA free peptide (YPYDVPDYA)	Ansynth Service BV	Custom synthesis	Resuspend up to 4 mg/ml in 50 mM Tris-HCl, pH 7.8
Bicinchoninic acid based protein assay kit : BCA kit	Thermo Scientific	23225	
Protease inhibitors	Sigma-Aldrich	S8830	
Luminol-based enhanced chemiluminescence (ECL) HRP substrate	Life technologies	34075	
BSA	Sigma-Aldrich	A9647	

Sheared salmon sperm DNA (Deoxyribonucleic acid sodium salt from salmon testes)	Sigma-Aldrich	D1626	
Spermine tetrahydrochloride	Sigma-Aldrich	S1141	
Spermidine	Sigma-Aldrich	S0266	
Glycerol	Sigma-Aldrich	G5516	
PBS	Sigma-Aldrich	D8537	
MOPS running buffer	Life technologies	NP0001	
DMEM (high glucose)	Sigma-Aldrich	D0822	Pre-warm at 37 °C before use
Trypsin-EDTA (0.05% phenol red)	Life technologies	25300-054	
Serum	GE healthcare life sciences	PAA A15-102	Each lot of serum has to be first tested for your cells.
Penicillin and Streptomycin	Life technologies	15140-122	
Trypan Blue Solution, 0.4%	Life technologies	15250-061	
Water (sterile-filtered)	Sigma-Aldrich	W3500	
<b>Antibodies</b>			
HA from rat (12CA5)	Roche	11583816001	
Flag	Sigma-Aldrich	A8592	
MyoD	Santa Cruz	sc-32758	To use for western blotting
MyoD	Santa Cruz	SC-760	To use for immunoprecipitation and western blotting
CBFbeta	Santa Cruz	FL-182	
HP1alpha	Euromedex	2HP2G9	
HP1beta	Euromedex	1MOD1A9AS	
HP1gamma	Euromedex	2MOD1GC	
Suv39h1	Cell Signaling Technology	8729	
BAF47	BD Biosciences	612111	
Myf5	Santa Cruz	SC-302	
Tubulin	Sigma-Aldrich	T9026	
Actin	Sigma-Aldrich	A5441	
IgG Mouse	Santa Cruz	SC-2025	
IgG Rabbit	Santa Cruz	SC-2027	
Goat anti-rat -HRP	Sigma-Aldrich	A9037	
Goat anti-rabbit -HRP	Sigma-Aldrich	A6154	
Goat anti-mouse -HRP	Sigma-Aldrich	A4416	