

Materials List for

A Guide to Examining Intramuscular Fat Formation and its Cellular Origin in Skeletal Muscle

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Materials

Name	Company	Catalog Number	Comments
16% PFA (Pack of 12, 10 mL bottles)	Electron Microscopy Sciences	15710	
2.0 mL Microcentrifuge Tubes	Fisher Scientific	05-408-138	microcentrifuge tubes for snapfreezing/bead beating
2-Methylbutane (4 L)	Fisher Chemical	O3551-4	isopentane
Absolute Ethanol (200 proof)	ThermoFisher Scientific	BP2818100	
AffiniPure Fab fragment donkey anti-mouse	Jackson ImmunoResearch	715-007-003	mouse-on-mouse blocking
Alexa Fluor 488 donkey anti-chicken secondary antibody	Jackson ImmunoResearch	703-545-155	
Alexa Fluor 488 donkey anti-mouse secondary antibody	Invitrogen	A21202	
Alexa Fluor 488 donkey anti-rabbit secondary antibody	Invitrogen	A21206	
Alexa Fluor 568 donkey anti-goat secondary antibody	Invitrogen	A11057	
Alexa Fluor 568 donkey anti-rabbit secondary antibody	Invitrogen	A11037	
Alexa Fluor 568 Phalloidin antibody	Invitrogen	A12380	Dissolved in 1.5 mL methanol (~66 μ M working solution)
BioLite 24-well Multidishes	ThermoFisher Scientific	930186	24 well plate for PFA tissue incubation
Biometra TOne	analytikjena	8462070301	Thermal cycler
Chicken anti-GFP antibody	Aves Labs	GFP-1020	
Chloroform/isoamyl alcohol 24:1(v/v) for molecular biology, DNase, RNase, and Protease free	ThermoFisher Scientific	AC327155000	
Corn oil	Sigma Aldrich	C8267	
DAPI stain	Invitrogen	D1306	150 μ M working solution in dH ₂ O
Donkey Serum (100 mL)	Millipore Sigma	5058837	for blocking solution
Dumont #5 Forceps	Fine Science Tools	11251-20	sharp-tipped tweezers
Fine Scissors Straight 9 cm	Fine Science Tools	14060-09	

Fluoromount-G	SouthernBiotech	0100-01	mounting medium
Glycerol, 99.5%, for molecular biology (500 mL)	Acros Organics	327255000	
Goat anti-PDGFR α antibody	R&D	AF1062	
Hybridization Oven	VWR	230301V	for Tamoxifen incubation
ImmEdge Hydrophobic Barrier PAP Pen	Vector Laboratories	H-4000	hydrophobic pen
Insulin Syringe with Micro-Fine IV needle (28 G)	BD	329461	
Insulin Syringe with Slip Tip, 1 mL	BD	329654	Insulin syringe without needle, for oral gavaging
iScript cDNA Synthesis Kit	Bio-Rad	1708890	
Isoflurane	Patterson Veterinary	78938441	
Leica DMI8 inverted microscope	Leica		microscope used for widefield IF and confocal imaging
Micro Slides	VWR	48311-703	positively charged microscope slides
mouse anti-MYOD antibody	Invitrogen	MA1-41017	
mouse anti-PAX7 antibody (supernatant)	DSHB	AB 428528	
MX35 Premier+ Microtome blades	ThermoFisher Scientific	3052835	microtome blades
NanoDrop 2000 Spectrophotometer	ThermoFisher Scientific	ND2000	spectrophotometer for RNA yield
Play-Doh	Hasbro		modeling compound
PowerUp SYBR Green Master Mix	ThermoFisher Scientific	A25742	green dye PCR master mix
Puralube Vet Ointment	Puralube	17033-211-38	vet ophthalmic ointment
QuantStudio 6 Flex Real-Time 384-well PCR System	Applied Biosystems	4485694	qPCR machine
Rabbit anti-perilipin antibody	Cell Signaling Technology	9349S	
Red-Rotor Shaker	Hoefer Scientific	PR70-115V	shaker for IF staining
Richard-Allan Scientific Slip-Rite Cover Glass	ThermoFisher Scientific	152460	coverslips
RNeasy Mini Kit	QIAGEN	74106	contains mini spin columns
Safe-Lock Tubes 1.5 ml, natural	Eppendorf	22363204	
Sample Tubes RB (2 mL)	QIAGEN	990381	
Sodium azide	Alfa Aesar	14314	
Stainless Steel Beads, 2.8 mm	Precellys	KT03961-1-101.BK	small beads
Stainless Steel Beads, 5 mm	QIAGEN	69989	medium beads
Stainless Steel Beads, 7 mm	QIAGEN	69990	large beads
Stainless Steel Disposable Scalpels	Miltex	327-4102	scalpel
Stainless steel feeding tube, 20 G x 38 mm, straight	Instech Laboratories	FTSS-20S-3	gavage needle
Tamoxifen	Toronto Research Chemicals	T006000	
Tissue Plus O.C.T. Compound	Fisher HealthCare	4585	embedding medium
TissueLyser LT	QIAGEN	85600	bead beater
TissueLyser LT Adapter, 12-Tube	QIAGEN	69980	
Tissue-Tek Cryomold	Sakura	4566	specimen molds
Triton X-100	Alfa Aesar	A16046	
TRIZol Reagent	ThermoFisher Scientific	15596026	guanidium thiocyanate
Tween20 (500 mL)	Fisher BioReagents	BP337-500	
VWR Micro Slides - Superfrost Plus	VWR	48311703	
Wheaton Coplin staining jars	Millipore Sigma	S6016	Coplin jar