

Materials List for:**Model of Ischemic Heart Disease and Video-Based Comparison of Cardiomyocyte Contraction Using hiPSC-Derived Cardiomyocytes**Yun Liu^{*1}, Yin Liang^{*1}, Mengxue Wang^{*1}, Chen Wang¹, Heng Wei², Keiji Naruse¹, Ken Takahashi¹¹Department of Cardiovascular Physiology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University²Institute of Laboratory Animals, Graduate School of Medicine, Kyoto University^{*} These authors contributed equallyCorrespondence to: Ken Takahashi at takah-k2@okayama-u.ac.jpURL: <https://www.jove.com/video/61104>

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Materials

Name	Company	Catalog Number	Comments
Actin staining reagent (ActinRed 555 ReadyProbes Reagent)	Thermo Fisher Scientific, Waltham, MA, USA	R37112	
Anti cardiac troponin T antibody	Thermo Fisher Scientific, Waltham, MA, USA	MA5-12960	
Cardiomyocyte maintenance medium (PSC Cardiomyocyte Differentiation Kit)	Thermo Fisher Scientific, Waltham, MA, USA	A2921201	
Cell dissociation enzymes (TrypLE Select)	Thermo Fisher Scientific, Waltham, MA, USA	12563011	
Differentiation medium A (PSC Cardiomyocyte Differentiation Kit)	Thermo Fisher Scientific, Waltham, MA, USA	A2921201	
Differentiation medium B (PSC Cardiomyocyte Differentiation Kit)	Thermo Fisher Scientific, Waltham, MA, USA	A2921201	
FACS Aria III system	BD Biosciences, San Jose, CA, USA		
Fluorescent microscope	KEYENCE, Osaka, Japan	BZ-X710	
Goat anti-mouse Alexa Fluor 488 secondary antibody	Thermo Fisher Scientific, Waltham, MA, USA	A28175	
Human iPS cells	RIKEN, Tsukuba, Japan	201B7	
Hypoxic incubator	SANYO, Osaka, Japan	MCO-175M	
iPSC growth medium (Essential 8 Medium)	Thermo Fisher Scientific, Waltham, MA, USA	A1517001	
iPSC maintenance medium (StemFit AK02N)	Ajinomoto, Tokyo, Japan	RCAK02N	
Laminin (iMatrix-511)	Nippi, Tokyo, Japan	iMatrix-511	
MTT assay kit (MTT Cell Proliferation Assay Kit)	Cayman Chemical Company, Ann Arbor, MI, USA	10009365	
Nucleus staining reagent (NucBlue Fixed Cell ReadyProbes Reagent)	Thermo Fisher Scientific, Waltham, MA, USA	R37606	
Triton X-100	Nacalai Tesque, Kyoto, Japan	35501-02	