

Materials List for:

Directed Differentiation of Induced Pluripotent Stem Cells towards T Lymphocytes

Fengyang Lei¹, Rizwanul Haque¹, Xiaofang Xiong¹, Jianxun Song¹

¹Department of Microbiology and Immunology, Pennsylvania State University College of Medicine

Correspondence to: Jianxun Song at jus35@psu.edu

URL: <https://www.jove.com/video/3986>

DOI: [doi:10.3791/3986](https://doi.org/10.3791/3986)

Materials

Name	Company	Catalog Number	Comments
C57BL/6J mice	Jackson Laboratory	000664	
B6.129S7-Rag1 ^{tm1Mom} /J	Jackson Laboratory	002216	
Anti-CD3 (2C11) antibody	BD Biosciences	553058	
Anti-CD28 (37.51) antibody	BD Biosciences	553295	
Anti-CD3 (17A2) antibody	BioLegend	100202	
Anti-CD4 (GK1.5) antibody	BioLegend	100417	
Anti-CD8 (53-6.7) antibody	BioLegend	100714	
Anti-CD25 (3C7) antibody	BioLegend	101912	
Anti-CD44 (1M7) antibody	BioLegend	103012	
Anti-CD117 (2B8) antibody	BioLegend	105812	
Anti-TCR-β (H57597) antibody	BioLegend	109220	
Anti-IL-2 (JES6-5H4) antibody	BioLegend	503810	
Anti-IFN-γ (XMG1.2) antibody	BioLegend	505822	
DMEM	Invitrogen	ABCD1234	
α-MEM	Invitrogen	A10490-01	
FBS	Hyclone	SH3007.01	
Brefeldin A	Sigma-Aldrich	B7651	
Polybrene	Sigma-Aldrich	107689	
GeneJammer	Integrated Sciences	204130	
RNA kit	Qiagen	74104	
DNA kit	Qiagen	69504	
CD8 Isolation Kit	Miltenyi Biotec	130-095-236	
ACK lysis buffer	Lonza Inc.	10-548E	
mFit-3L	PeptoTech Inc	250-31L	
mIL-7	PeptoTech Inc	217-17	
Gelatin	Sigma-Aldrich	G9391	
FITC-anti-OVA antibody	Rockland Immunochemicals	200-4233	
Permeabilization buffer	Biolegend	421002	
BSA	Sigma-Aldrich	A7906	
Formaldehyde	Sigma-Aldrich	F8775	
0.4 μm filter	EMD Millipore		
Moflo Cell Sorter	Dako		
Calibur Flow Cytometer	BD Biosciences		
LSR II Flow Cytometer	BD Biosciences		

Mouse restrainer	Braintree Scientific, Inc.		
------------------	----------------------------	--	--