

Materials List for:

A Three-dimensional Thymic Culture System to Generate Murine Induced Pluripotent Stem Cell-derived Tumor Antigen-Specific Thymic Emigrants

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Materials

Name	Company	Catalog Number	Comments
Chemicals, Peptides and Recombinant Proteins			
2-deoxyguanosine	Sigma-Aldrich	312693-72-4	
2-Mercaptoethanol (1000X)	Thermo Fisher Scientific	21985-023	
ACK Lysing Buffer	Gibco	A1049201	
Ascorbic acid	Sigma-Aldrich	A8960	
Blasticidin	Thermo Fisher Scientific	R21001	
FBS	Gemini	100-500	
Flt-3 ligand	R&D Systems	427-FL	
GlutaMAX (100X)	Thermo Fisher Scientific	35050-061	
hgp100	Genscript	282077-1, KVPRNQDWL	
Interleukin-2	R&D Systems	402-ML	
Interleukin-7	R&D Systems	407-ML	
MEM Non-Essential Amino Acids Solution	Gibco	11140050	
MEM powder	Gibco	61100061	
Monothioglycerol	Sigma-Aldrich	M-6145	
Nucleoprotein	Global Peptides	ASNENMETM	
Penicillin/streptomycin	Thermo Fisher Scientific	15140-122	
Phosphate buffered saline pH 7.4 (1x)	Thermo Fisher Scientific	10010-023	
Puromycin	Thermo Fisher Scientific	A1113803	
RPMI 1640	Gibco	11875093	
Sodium Pyruvate	Thermo Fisher Scientific	11360-070	
Stem Cell Factor (SCF)	R&D Systems	455-MC	
Stemfactor LIF, Mouse Recombinant	STEMGENT	03-0011-100	
Trypsin-EDTA (0.05%), phenol red	Thermo Fisher Scientific	25300-062	
Cell Culture Vessels and others			
10 cm dish	Corning, Inc.	353003	
12ML Syringe	Covidien Monoject	22-652-090	
6 well plate	Corning/Costar	3516	

Cell strainer 100um	Fisher Scientific	22-363-549	
Cell strainer 40um	Fisher Scientific	22-363-547	
Forceps	DUMONT	0108-5PO	
Lab soaker mat	Versi-Dry	Cat. EF2175CX 74018-00	
Membrane filters (0.8 µm, 47diam)	Whatman	WHA7408004 ALDRICH	
Perfecta3D Hanging Drop Plate	Sigma-Aldrich	HDP1096	
U Bottom 96 well plate	Corning/Costar	3799	
Experimental Cell lines			
CD3-iPSC	Vizcardo et al., Cell Report 2018	N/A	
MEF-iPSC	Vizcardo et al., Cell Report 2018	N/A	
Mouse Embryonic Fibroblasts (MEF)	ATCC	SCRC-1040; RRID:MGI:5007926	
OP9/N-DLL1	Riken Bioresource center	Cat# RCB2927; RRID:CVCL_B220	
Pmel-iPSC	Vizcardo et al., Cell Report 2018	N/A	
Experimental mouse models			
B6.SJL-Ptprc ^a Pepc ^b /BoyCrCrl	Charles River	Strain Code 564; RRID:IMSR_CRL:564	
C57BL/6N	NCI/Charles River	N/A	
Pmel-1 mice	Overwijk et al.	J Exp Med 198(4):569-80	
Antibodies			
Anti-aTCR	Biolegend	109202; RRID:AB_313425	
Anti-CD3	abcam	ab11089; RRID:AB_369097	
Anti-CD4	BD Biosciences	553730; RRID:AB_395014	
Anti-CD44	BD Biosciences	559250; RRID:AB_398661	
Anti-CD45.1	BD Biosciences	553775; RRID:AB_395043	
Anti-CD45.2	BD Biosciences	553772; RRID:AB_395041	
Anti-CD62L	BD Biosciences	560516; RRID:AB_1645257	
Anti-CD69	BD Biosciences	552879; RRID:AB_394508	
Anti-CD8a	BD Biosciences	557959; RRID:AB_396959	
Anti-CD8b	BD Biosciences	550798; RRID:AB_393887	
Anti-H-2Kb	BD Biosciences	553570; RRID:AB_394928	
Anti-IFN-g	BD Biosciences	557998; RRID:AB_396979	
Anti-IL-2	BD Biosciences	554428; RRID:AB_395386	
Anti-TCRb	Thermo Fisher Scientific	35-5961-81; RRID:AB_469741	
Anti-TCRVb13	BD Biosciences	553204; RRID:AB_394706	
Anti-TNFa	BD Biosciences	557644; RRID:AB_396761	