

Materials List for:

Direct Lineage Reprogramming of Adult Mouse Fibroblast to Erythroid Progenitors

Melissa Ilsley¹, Sandra Capellera-Garcia¹, Kishori Dhulipala¹, Alban Johansson¹, Johan Flygare¹

¹Department of Molecular Medicine and Gene Therapy, Lund University

Correspondence to: Johan Flygare at johan.flygare@med.lu.se

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Materials

Name	Company	Catalog Number	Comments
DMEM without sodium pyruvate	GE Life Sciences	SH30022.01	Culturing media for PhGP cells
DMEM with sodium pyruvate	GE Life Sciences	SH30243.01	Culturing media for tail tip fibroblasts
StemSpan Serum Free Expansion Media (SFEM)	Stem Cell Technologies	9650	Reprogramming media
Fetal Bovine Serum HyClone	GE Life Sciences	SH30071.03HI	Growth factor
Penicillin/Streptomycin HyClone (100x)	Ge Life Sciences	SV30010	Antibiotic
Non-Essential Amino Acids (100x)	Thermo Fisher	11140050	SNL media is supplemented with this
Trypsin HyClone (1x)	GE Life Sciences	SH30042.01	Cell dissociation agent
Murine Stem Cell Factor (mSCF)	Peprtech	250-03	Added to reprogramming media
Recombinant Murine Il-3	Peprtech	213-13	Added to reprogramming media
human recombinant erythropoietin (hrEPO)	Peprtech	100-64	Added to reprogramming media
Dexamethasone	Sigma	50-02-2	Added to reprogramming media
Gelatin from porcine skin	Sigma	9000-70-8	Dissovled in dH2O and used for coating plates. Ensure sterility before use.
Blasticidin S hydrochloride	Sigma	3/9/3513	Selection antibiotic. Affects both pro- and eukaryotic cells
Dulbecco's Phosphate Buffered Saline (DPBS)	Ge Life Sciences	SH30850.03	Used for washing steps
Polybrene	Merck	TR-1003-G	Infection / Transfection Reagent
FuGENE HD Transfection Reagent	Promega	E2311	Transfection Reagent for PhGP cell line
Millex-GP Syringe Filter Unit 0.22 µm	Merck	SLGP033RS	Used for filtering virus supernatant
BD Emerald Hypodermic Syringe	Becton Dickinson	SKU: 307736	Used for filtering virus supernatant
100 mm Culture Dish	Corning	430167	Cell culture
6-well plate	Falcon	10799541	Cell culture
Jeweler Forceps #5	Sklar	66-7642	Used for handling small tail fragments
Sklarlite Iris Scissors	Sklar	23-1149	Used for cutting the tail into small pieces
Lineage Cell Depletion Kit, mouse	Miltenyi Biotec	130-090-858	For depletion of hematopoietic cells in fibroblast cultures
CD117 MicroBeads, mouse	Miltenyi Biotec	130-091-224	For depletion of hematopoietic cells in fibroblast cultures

PheonixGP cells	ATCC	CRL-3215	retroviral packaging cell line
EcoPAC vector (pCL-Eco)	Novus Biologicals	NBP2-29540	retroviral helper vector containing gag and pol genes
pMX-Gata1	Cloned in-lab		
pMX-Tal1	Cloned in-lab		
pMX-Lmo2	Cloned in-lab		
pMX-cMyc	Cloned in-lab		
CellSens Standard 1.6 software			Cytospin analysis software