

Materials List for:

Detection of Intracellular Gene Expression in Live Cells of Murine, Human and Porcine Origin Using Fluorescence-labeled Nanoparticles

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Materials

Name	Company	Catalog Number	Comments
DMEM/Ham's F12 medium with stable glutamine	Biochrome GmbH	FG4815	
Fetal calf serum	Life Technologies	SV30160.03	
Penicillin/Streptomycin (100x)	Millipore	A2213	
Sodium pyruvate (100x)	Life Technologies	11360-039	
DMEM high glucose with stable glutamine	Biochrome GmbH	FG0435	
Mitomycin C	Roche	10 107 409 001	prevents cell division of MEFs
MEM non-essential amino acids (100x)	Life Technologies	11140-050	
b-Mercaptoethanol	Sigma	M3148	
Leukemia inhibitory factor (10 ⁷ U/ml)	Millipore	ESG1107	growth factor for murine ES and iPS cells, prevents differentiation
0.25% Trypsin/EDTA (1x)	Life Technologies	25200-056	detaches adherent cell cultures
Knockout serum	Invitrogen	10828-028	supplement for human and porcine iPS cell culture
bFGF	Peptotech	100-18B	growth factor for human and porcine iPS cells
Collagenase IV	Worthington	LS004188	dissociation of pig iPS cells
Matrigel	Corning	354277	effective surface for feeder-free culture of human iPS cells, referred to as basement preparation membrane in the manuscript
E8 medium	Stem Cell Technologies	05940	defined medium for feeder-free culture of human iPS cells on Matrigel
EDTA 0.5 M	Invitrogen	15575-038	
SmartFlare Probes	EMD Millipore Corporation	customized item	detection of intracellular gene expression in live cells, referred to as nanoparticles in the manuscript
Fluorescence microscope	Zeiss	Axiovert 200M	
HeraCell 150i CO ₂ Incubator	Thermo Scientific	51026282	
Gelatine (from porcine skin)	Sigma	G6144	enhances attachment of MEFs to surface

Propidium iodide (1 mg/ml)	Sigma	P4864	labels dead cells in flow cytometric analyses
BD FACS Aria IIIu	Becton Dickinson	A4544	referred to as device 1 in Figure 4
Navios	Beckman Coulter	775213	referred to as device 2 in Figure 4
FloJo vX 10.0.7r2	Treestar		software for analysis of flow cytometry data