

Materials List for:

# Quantitative Analysis of Protein Expression to Study Lineage Specification in Mouse Preimplantation Embryos

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## Materials

Name	Company	Catalog Number	Comments
<b>Embryo collection</b>			
Blunt probe for plug checking	Roboz	RS-9580	
Forceps	Roboz	RS-4978	
Surgery scissors	Roboz	RS-5910	
Glass Pasteur pipettes	Fisher	13-678-20C	
Pre-assembled aspirator tube & mouthpiece	Sigma	A5177	
Longer rubber tubing	Fisher	14-178-2AA	
M2	Millipore	MR-015-D	
FHM	Millipore	MR-024-D	
Acid Tyrode's solution	Millipore	MR-004-D	
Penicillin/Streptomycin	Gibco	15140	
Bovine Serum Albumin	Sigma	A9647	
4-well plates	Nunc/Thermo-Fisher	12-566-300	
<b>Immunofluorescence</b>			
96-well U-bottom plates	Fisher	14-245-73	
Triton X-100	Sigma	T8787	
Glycine	Sigma	G7403	
Horse serum	Sigma	H0146	
<b>Primary antibodies</b>			<b>Concentration</b>
CDX2	Biogenex	AM392-5M	1:200
GATA6	R&D	AF1700	1:100
GATA4	Santa Cruz	sc-9053	1:100, 10 min fixation
GATA4	Santa Cruz	sc-1237	1:100, O/N fixation
SOX17	R&D	AF1924	1:100
Nanog	ReproCELL	RCAB0002P-F	1:500
OCT4	Santa Cruz	sc-5279	1:100, 10 min to O/N fixation
DAB2	BD	BD-610464	1:200
Secondary antibodies	Life Technologies	Various	1:500
Hoechst 33342	Life Technologies	H3570	
<b>Imaging</b>			
35 mm glass-bottom dishes	MatTek	P35G-1.5-14-C	
<b>Segmentation</b>			
Computer running 64-bit Windows OS		n/a	Verify minimal system requirements at <a href="http://kallab-">http://kallab-</a>

			tools.org and in Lou et al., (2014) Stem Cell Reports
MATLAB (software)	Mathworks	n/a	
MINS (software)	Free	n/a	<a href="http://katlab-tools.org">http://katlab-tools.org</a>