

Materials List for:

Single-cell Gene Expression Using Multiplex RT-qPCR to Characterize Heterogeneity of Rare Lymphoid Populations

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Materials

Name	Company	Catalog Number	Comments
Cells Direct One Step qRT-PCR kit	Applied Biosystems	11753100	Primer probe detection kit. Contains 2x reaction mix, SSIII Platinum enzyme.
Low TE EDTA Buffer	Affymetrix	75793 100ML	
96-well plates	ThermoFisher Scientific	AB 1100	96-well plates adapted for cell sorting and thermocycling
Cover film	Dominique Dutscher	106570	aluminium cover film; avoid contamination and evaporation
Actb	ThermoFisher Scientific	Mm00607939_s1	20x primer
Aes	ThermoFisher Scientific	Mm01148854_s1	20x primer
Ahr	ThermoFisher Scientific	Mm00478932_s1	20x primer
Bcl2	ThermoFisher Scientific	Mm00477631_s1	20x primer
c-myc	ThermoFisher Scientific	Mm00487804_s1	20x primer
Cbfb	ThermoFisher Scientific	Mm01251026_s1	20x primer
Cd27	ThermoFisher Scientific	Mm01185212_s1	20x primer
Cd49a	ThermoFisher Scientific	Mm01306375_s1	20x primer
CD49b	ThermoFisher Scientific	Mm00434371_s1	20x primer
Cxcr5	ThermoFisher Scientific	Mm00432086_s1	20x primer
Cxcr6	ThermoFisher Scientific	Mm02620517_s1	20x primer
Eomes	ThermoFisher Scientific	Mm01351985_s1	20x primer
Ets1	ThermoFisher Scientific	Mm01175819_s1	20x primer
Foxo1	ThermoFisher Scientific	Mm00490672_s1	20x primer
Gapdh	ThermoFisher Scientific	Mm03302249_s1	20x primer
Gata3	ThermoFisher Scientific	Mm00484683_s1	20x primer
Gm-csf	ThermoFisher Scientific	Mm01136644_s1	20x primer
Hes1	ThermoFisher Scientific	Mm01342805_s1	20x primer
Hprt	ThermoFisher Scientific	Mm00446968_s1	20x primer
Id2	ThermoFisher Scientific	Mm01293217_s1	20x primer
Il-12rb2	ThermoFisher Scientific	Mm00711781_s1	20x primer
Il-18r1	ThermoFisher Scientific	Mm00515178_s1	20x primer
Il-1rl1	ThermoFisher Scientific	Mm00434237_s1	20x primer
Il-22	ThermoFisher Scientific	Mm001226722_s1	20x primer
Il-23r	ThermoFisher Scientific	Mm00519943_s1	20x primer
Il-2ra	ThermoFisher Scientific	Mm01340213_s1	20x primer

Il-2rb	ThermoFisher Scientific	Mm01195267_s1	20x primer
IL-7r	ThermoFisher Scientific	Mm00434295_s1	20x primer
Klr5	ThermoFisher Scientific	Mm04207528_s1	20x primer
Lef1	ThermoFisher Scientific	Mm00550265_s1	20x primer
Ncr1	ThermoFisher Scientific	Mm01337324_s1	20x primer
Nfil3	ThermoFisher Scientific	Mm01339838_s1	20x primer
Notch1	ThermoFisher Scientific	Mm00435249_s1	20x primer
Notch2	ThermoFisher Scientific	Mm00803069_s1	20x primer
Rora	ThermoFisher Scientific	Mm01173766_s1	20x primer
Rorc	ThermoFisher Scientific	Mm01261022_s1	20x primer
Runx3	ThermoFisher Scientific	Mm00490666_s1	20x primer
Tbx21	ThermoFisher Scientific	Mm01299453_s1	20x primer
Tcf3	ThermoFisher Scientific	Mm01175588_s1	20x primer
Tcf7	ThermoFisher Scientific	Mm00493445_s1	20x primer
Tle1	ThermoFisher Scientific	Mm00495643_s1	20x primer
Tle3	ThermoFisher Scientific	Mm00437097_s1	20x primer
Tsc22d3	ThermoFisher Scientific	Mm01306210_s1	20x primer
Tnfrsf11a	ThermoFisher Scientific	Mm00437132_s1	20x primer
Tox	ThermoFisher Scientific	Mm00455231_s1	20x primer
Zbtb16	ThermoFisher Scientific	Mm01176868_s1	20x primer
Zbtb7b	ThermoFisher Scientific	Mm00784709_s1	20x primer
qPCR Master mix	Applied BioSystems	P/N 4304437	
2x Assay Loading Reagent	Fluidigm	P/N 85000736	Specific density medium to load assays in multiplex RT-qPCR microfluidic chip.
2x Sample Loading Reagent	Fluidigm	P/N 85000735	Specific density medium to load samples in multiplex RT-qPCR microfluidic chip.
48.48 multiplex RT qPCR microfluidic chip	Fluidigm	BMK-M-48.48	48.48 Dynamic Array IFC for Gene Expression;chip for single cell multiplex RT-qPCR reaction
48.48 multiplex RT qPCR microfluidic chip controller	Fluidigm	89000020	48.48 IFC Controller; control the chip internal fluidic system, load samples and assays in reaction chambers
multiplex RT qPCR microfluidic thermocycler	Fluidigm	GE48.48	48.48 Dynamic Array IFC thermocycler
96-well plates	ThermoFisher Scientific	AB 1100	96-well plates adapted for cell sorting and thermocycling
C57Bl/6 mice	Janvier	C57Bl/6 miceJ@RJ	
10 ml syringe	BD Biosciences	309639	
PBS	Life Technologies	14040174	
HBSS	Life Technologies	24020133	
RPMI	Life Technologies	61870044	
FCS	CVFSVF000U	Eurobio Abcys	Standard fetal calf serum
Potter tube	N/A		
15 ml tube	Corning	352097	
1.5 ml tube	Sigma-Aldrich	T9661-1000EA	
FACS machine	N/A		

centrifuge	Thermofisher Scientific	75004538	
1,000 µl tips	Fisher Scientific	10313272	
P1000	Gilson	F123602	
Percoll	Dominique Dutscher	17-0891-01	
Facs tube	Falcon	352235	
anti-CD8 Biotin mouse antibody	Sony	1103520	lineage antibody
anti-CD19 Biotin mouse antibody	Sony	1177520	lineage antibody
anti-TCRab Biotin mouse antibody	BioLegend	109204	lineage antibody
anti-TCRgd Biotin mouse antibody	BD Biosciences	553176	lineage antibody
anti-Ter119 Biotin mouse antibody	BD Biosciences	553672	lineage antibody
anti-Gr1 Biotin mouse antibody	BD Biosciences	553125	lineage antibody
anti-CD45.2 PerCPCy5.5 mouse antibody	BioLegend	109828	
anti-IL7ra PeCy7 mouse antibody	ebioSciences	25-1271-82	
anti-CD3 BV510 mouse antibody	BD Biosciences	563024	
anti-CD4 BV786 mouse antibody	BD Biosciences	563727	
anti-NKp46 PE mouse antibody	ebioSciences	12-3351-82	
Streptavidin	Sony	2626025	
Propidium Iodide	Sigma-Aldrich	P4864-10ML	
Electronic pipette	Eppendorf	4986000017	
Combitips 0.1 ml	Eppendorf	30089405	
Multichannel pipette	Rainin	L8-10XLS+	
Accudrop	BD Biosciences	345249	verification beads for FACS