

Materials List for:

Single-cell Transcriptomic Analyses of Mouse Pancreatic Endocrine Cells

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Materials

Name	Company	Catalog Number	Comments
Collagenase P	Roche	11213873001	
Trypsin-EDTA (0.25 %), phenol red	Thermo Fisher Scientific	25200114	
Fetal bovine serum (FBS)	Hyclone	SH30071.03	
Dumont #4 Forceps	Roboz	RS-4904	
Dumont #5 Forceps	Roboz	RS-5058	
30 G BD Needle 1/2" Length	BD	305106	
Stereo Microscope	Zeiss	Stemi DV4	
Stereo Fluorescence microscope	Zeiss	Stereo Lumar V12	
Centrifuge	Eppendorf	5810R	
Centrifuge	Eppendorf	5424R	
Polystyrene Round-Bottom Tube with Cell-Strainer Cap	BD-Falcon	352235	
96-Well PCR Microplate	Axygen	PCR-96-C	
Silicone Sealing Mat	Axygen	AM-96-PCR-RD	
Thin Well PCR Tube	Extragene	P-02X8-CF	
Cell sorter	BD Biosciences	BD FACSAria	
Capillary pipette	Sutter	B100-58-10	
RNaseZap	Ambion	AM9780	
ERCC RNA Spike-In Mix	Life Technologies	4456740	
Distilled water	Gibco	10977	
Triton X-100	Sigma-Aldrich	T9284	
dNTP mix	New England Biolabs	N0447	
Recombinant RNase Inhibitor	Takara	2313	
Superscript II reverse transcriptase	Invitrogen	18064-014	
First-strand buffer (5x)	Invitrogen	18064-014	
DTT	Invitrogen	18064-014	
Betaine	Sigma-Aldrich	107-43-7	
MgCl ₂	Sigma-Aldrich	7786-30-3	
Nuclease-free water	Invitrogen	AM9932	
KAPA HiFi HotStart ReadyMix (2x)	KAPA Biosystems	KK2601	
VAHTS DNA Clean Beads XP beads	Vazyme	N411-03	
Qubit dsDNA HS Assay Kit	Invitrogen	Q32854	

AceQ qPCR SYBR Green Master Mix	Vazyme	Q121-02	
TruePrep DNA Library Prep Kit V2 for Illumina	Vazyme	TD502	Include 5x TTBL, 5x TTE, 5x TS, 5x TAB, TAE
TruePrep Index Kit V3 for Illumina	Vazyme	TD203	Include 16 N6XX and 24 N8XX
High Sensitivity NGS Fragment Analysis Kit	Advanced Analytical Technologies	DNF-474	
1x HBSS without Ca ²⁺ and Mg ²⁺			138 mM NaCl; 5.34 mM KCl 4.17 mM NaHCO ₃ ; 0.34 mM Na ₂ HPO ₄ 0.44 mM KH ₂ PO ₄
Isolation buffer			1 × HBSS containing 10 mM HEPES, 1 mM MgCl ₂ , 5 mM Glucose, pH 7.4
FACS buffer			1 × HBSS containing 15 mM HEPES, 5.6 mM Glucose, 1% FBS, pH 7.4
NaCl	Sigma-Aldrich	S5886	
KCl	Sigma-Aldrich	P9541	
NaHCO ₃	Sigma-Aldrich	S6297	
Na ₂ HPO ₄	Sigma-Aldrich	S5136	
KH ₂ PO ₄	Sigma-Aldrich	P5655	
D-(+)-Glucose	Sigma-Aldrich	G5767	
HEPES	Sigma-Aldrich	H4034	
MgCl ₂	Sigma-Aldrich	M2393	
Oligo-dT ₃₀ VN primer			5'-AAGCAGTGGTATCAA CGCAGAGTACT ₃₀ VN-3'
TSO			5'-AAGCAGTGGTATCAAC GCAGAGTACATrGrG+G-3'
ISPCR primers			5'-AAGCAGTGGTAT CAACGCAGAGT-3'
<i>Gapdh</i> Forward primer			5'-ATGGTGAAGGTC GGTGTGAAC-3'
<i>Gapdh</i> Reverse primer			5'-GCCTTGACT GTGCCGTTGAAT-3'
<i>Ins2</i> Forward primer			5'-TGGCTTCTTC TACACACCCA-3'
<i>Ins2</i> Reverse primer			5'-TCTAGTTGCA GTAGTTCTCCA-3'