

Multiplexed Analysis of Retinal Gene Expression and Chromatin Accessibility using scRNA-Seq and scATAC-Seq

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Citation

Weir, K., Leavey, P., Santiago, C., Blackshaw, S. Multiplexed Analysis of Retinal Gene Expression and Chromatin Accessibility using scRNA-Seq and scATAC-Seq. *J. Vis. Exp.* (), e62239, doi:10.3791/62239 (2021).

Date Published

March 12, 2021

DOI

10.3791/62239

URL

jove.com/video/62239

Materials

Name	Company	Catalog Number	Comments
10 µL, 200 µL, 1000 µL pipette filter tips			
10% Tween 20	Bio-Rad	1662404	
100 µM Barcode Solution	Request from Gartner lab	https://docs.google.com/forms/d/1bAzXFEvDEJse_cMvSUe_yDaPrJpAau4IPx8m5pauj3w/viewform?ts=5c47a897&edit_requested=true	
100% Ethanol	Millipore Sigma	E7023-500ML	
100% Methanol	Millipore Sigma	322415-100ML	
10x Chip Holder	10x Genomics	1000195	
10x Chromium controller & Accessory Kit	10x Genomics	PN-120263	
15mL Centrifuge Tube	Quality Biological	P886-229411	
40 µm FlowMi Cell Strainer	Bel-Art	H13680-0040	
50 µM Anchor Solution	Sigma or request from Gartner lab	https://docs.google.com/forms/d/1bAzXFEvDEJse_cMvSUe_yDaPrJpAau4IPx8m5pauj3w/viewform?ts=5c47a897&edit_requested=true	
50 µM Co-Anchor Solution	Sigma or request from Gartner lab	https://docs.google.com/forms/d/1bAzXFEvDEJse_cMvSUe_yDaPrJpAau4IPx8m5pauj3w/viewform?ts=5c47a897&edit_requested=true	
5200 Fragment Analyzer system	Agilent	M5310AA	
70 µm FlowMi cell strainer	Bel-Art	H13680-0070	
Allegra X-12R Centrifuge	VWR	BK392302	

Bovine Serum Albumin	Sigma-Aldrich	A9647	
Chromium Next GEM Chip G	10x Genomics	PN-1000120	
Chromium Next GEM Chip H	10x Genomics	PN-1000161	
Chromium Next Gem Single Cell ATAC Reagent Kit v1.1	10x Genomics	PN-1000175	
Chromium Single Cell 3' GEM, Library & Gel Bead Kit v3.1	10x Genomics	PN-1000121	
Digitonin	Fisher Scientific	BN2006	
Dissection microscope	Leica		
DNA LoBind Tubes, 1.5 mL	Eppendorf	22431021	
Dry Ice			
EVA Foam Ice Pan	Tequipment	04393-54	
FA 12-Capillary Array Short, 33 cm	Agilent	A2300-1250-3355	
Fisherbrand Isotemp Water Bath	Fisher Scientific	15-460-20Q	
Forma CO2 Water Jacketed Incubator	ThermoFisher Scientific	3110	
Glycerol 50% Aqueous solution	Ricca Chemical Company	3290-32	
Hausser Scientific Bright-Line Counting Chamber	Fisher Scientific	02-671-51B	
Illumina NextSeq or NovaSeq	Illumina		
Kapa Hifi Hotstart ReadyMix	HiFi	7958927001	
Low TE Buffer	Quality Biological	351-324-721	
Magnesium Chloride Solution 1 M	Sigma-Aldrich	M1028	
Magnetic Separator Rack for 1.5 mL tubes	Millipore Sigma	20-400	
Magnetic Separator Rack for 200 µL tubes	10x Genomics	NC1469069	
MULTI-seq Primer	Sigma or IDT	See sequence list	
MyFuge Mini Centrifuge	Benchmark Scientific	C1008	
Nonidet P40 Substitute	Sigma-Aldrich	74385	
Nuclease-free water	Fisher Scientific	AM9937	
P2, P10, P20, P200, P1000 micropipettes	Eppendorf		
Papain Dissociation System	Worthington Biochemical Corporation	LK003150	
PBS pH 7.4 (1X)	Fisher Scientific	10010-023	
Qiagen Buffer EB	Qiagen	19086	
Refridgerated Centrifuge 5424 R	Eppendorf	2231000655	
RNase-free Disposable Pellet Pestles	Fisher Scientific	12-141-368	
RNasin Plus RNase Inhibitor	Promega	N2615	
RPI primer	Sigma or IDT	See sequence list	
Single Index Kit N, Set A	10x Genomics	PN-1000212	
Single Index Kit T Set A	10x Genomics	PN-1000213	
Sodium Chloride Solution 5 M	Sigma-Aldrich	59222C	
SPRiselect Reagent Kit	Beckman Coulter	B23318	
Standard Disposable Transfer Pipettes	Fisher Scientific	13-711-7M	
TempAssure PCR 8-tube strip	USA Scientific	1402-4700	
Trizma Hydrochloride Solution, pH 7.4	Sigma-Aldrich	T2194	
Trypan Blue Solution, 0.4% (w/v)	Corning	25-900-CI	

Universal I5 primer	Sigma or IDT	See sequence list	
Veriti Thermal Cycler	Applied Biosystems	4375786	
Vortex Mixer	VWR	10153-838	