

Supplementary Material for

Massively Parallel Single-Cell RNA-Seq for Marker-Free Decomposition of Tissues into Cell Types

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This PDF file includes:

Materials and Methods Figs. S1 to S17 Tables S7 to S9 Full Reference List

Other Supplementary Material for this manuscript includes the following: (available at www.sciencemag.org/content/343/6172/776/suppl/DC1)

Tables S1 to S6 as separate Excel files

Supplementary Tables

Table S7. Primers used during MARS-seq library construction

Primer name	Sequence and modifications
barcoded	CGATTGAGGCCGGTAATACGACTCACTATAGGGGCGACGTGT
RT primer	GCTCTTCCGATCTXXXXXXNNNNTTTTTTTTTTTTTTTTTT,
	where XXXXXX is the cell barcode and NNNN is the RMT
ligation adapter	AGATCGGAAGAGCGTCGTGTAG, modified with a phosphate group
	at 5' and a C3 spacer (blocker) at the 3'
Second	TCTAGCCTTCTCGCAGCACATC
RT primer	
P5_Rd1	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACAC
PCR forward	GACGCTCTTCCGATCT
P7_Rd2	CAAGCAGAAGACGGCATACGAGATGTGACTGGAGTTCAGAC
PCR reverse	GTGTGCTCTTCCGATCT

Table S8. Indexed ligation adapters for 384-well plates

Primer name	Sequence and modifications
lig_NNNX4_ix1	/5Phos/GACTNNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix2	/5Phos/CATGNNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix3	/5Phos/CCAANNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix4	/5Phos/CTGTNNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix5	/5Phos/GTAGNNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix6	/5Phos/TGATNNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix7	/5Phos/ATCANNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/
lig_NNNX4_ix8	/5Phos/TAGANNNAGATCGGAAGAGCGTCGTGTAG/3SpC3/

Table S9. RT-preamplification primers

Primer name	Sequence
CD37-F	CTGTCTCCTGGGCCTGTATT
CD37-R	CACCAATTCCTGCACCCTTC
NKg7-F	GTTCTGTCTTGCATCCCAGC
NKg7-R	CTGGCTCCATCTCATACTGGT
Ly6A-F	AATTACCTGCCCCTACCCTG
Ly6A-R	GCAGATGGGTAAGCAAAGATTG
Ccl4-F	TGTGCTCCAGGGTTCTCAG
Ccl4-R	AATCCATCACAAAGCTTCTGTG