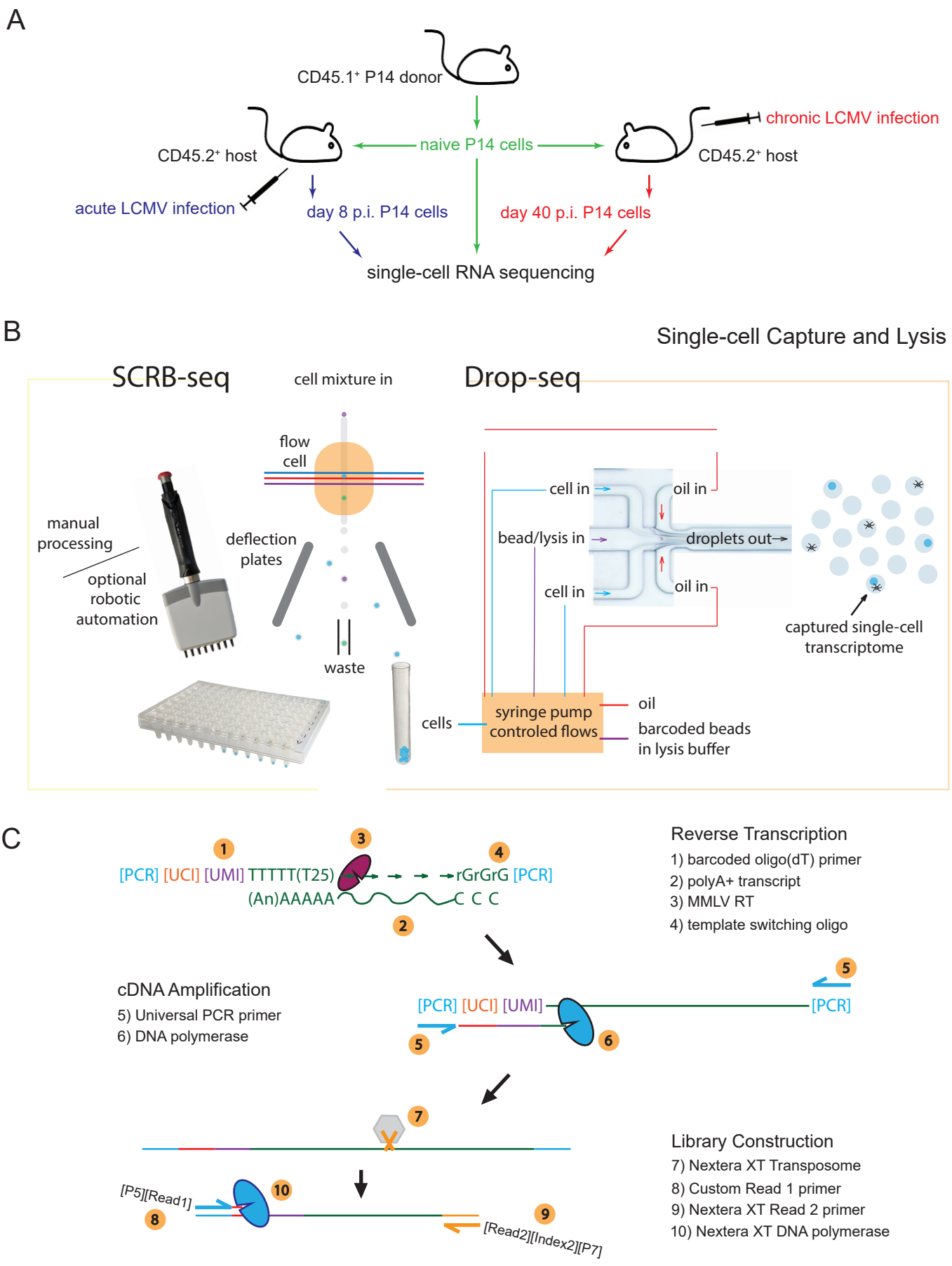
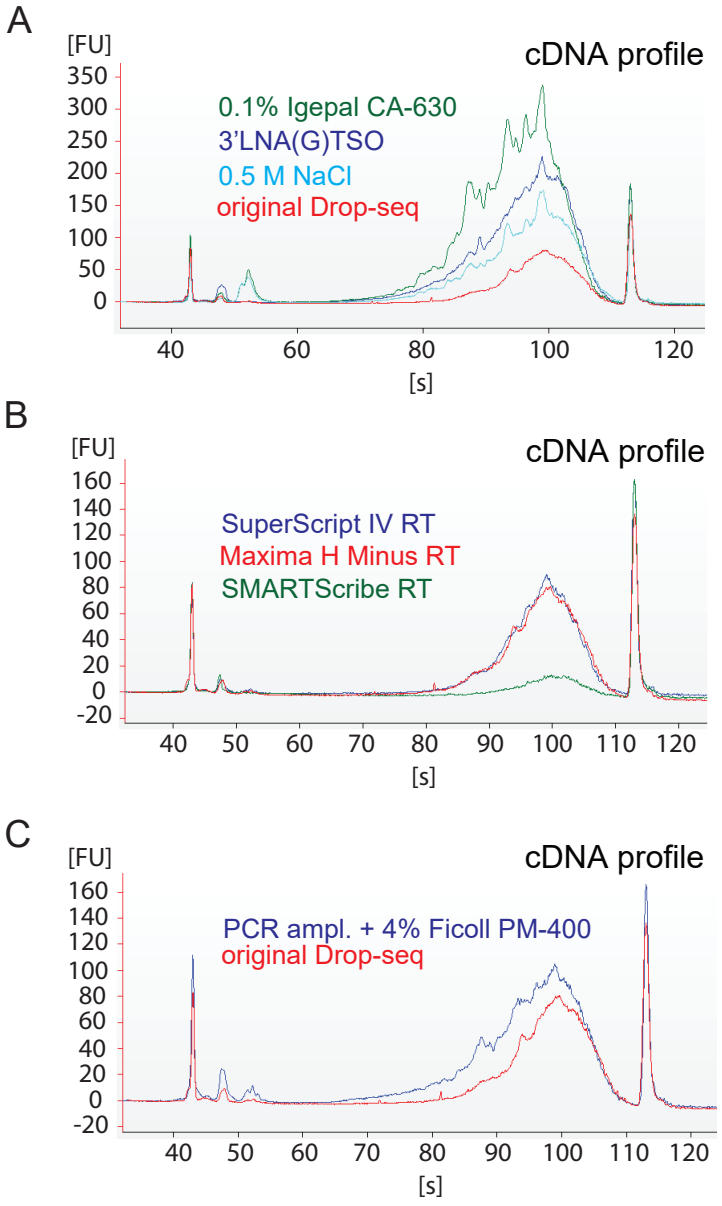
Supplementary Figure 1. Schematic protocol representation of SCRB-seq and Drop-seq.

(**A**) Schematic representation of the P14 experimental system. The green, blue and red colour denote naïve P14 T cells, P14 T cells recovered at day 8 post LCMV Armstrong infection and P14 T cells recovered at day 40 post LCMV clone-13 infection respectively. (**B**) Illustrates the difference in the single-cell capturing strategy of SCRB-seq versus Drop-seq. (**C**) Representation of the common chemistry downstream of single-cell capturing.



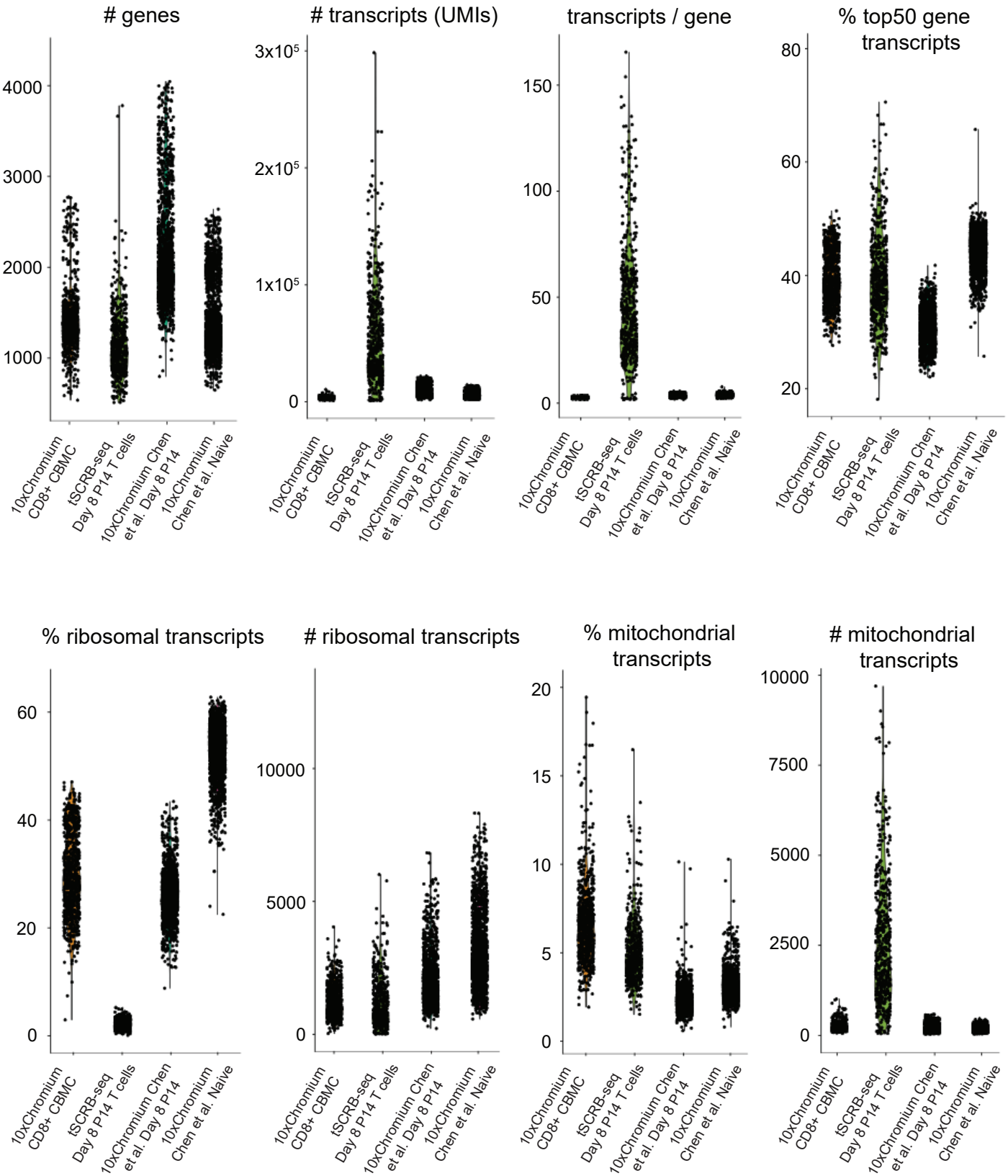
Supplementary Figure 2. Comparison of the cDNA yield among different Drop-seq optimizations.

(**A-C**) Bioanalyzer electropherograms comparing the amplified cDNA yield of Drop-seq between the original protocol and various optimizations.



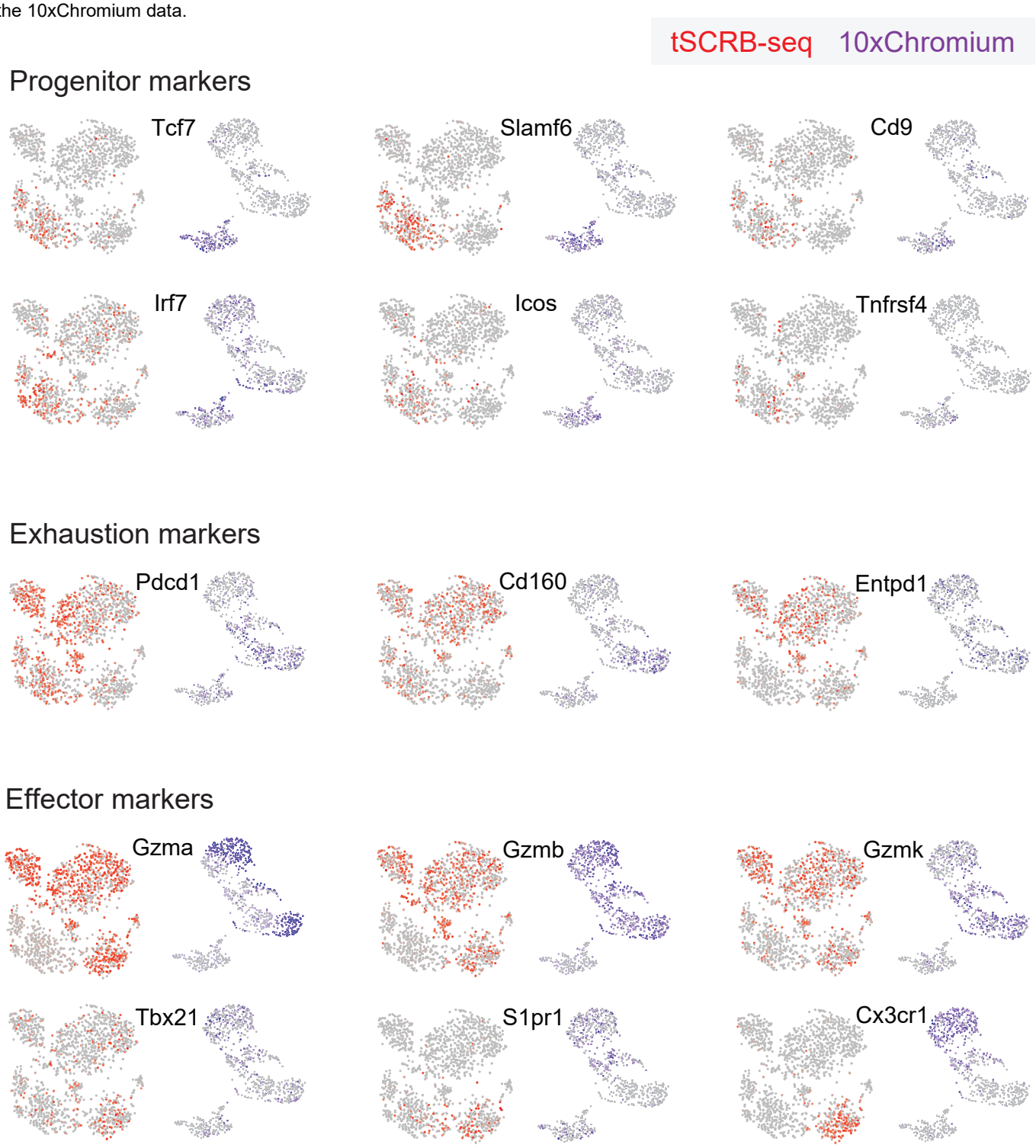
Supplementary Figure 3. Technical characteristics of libraries generated with tSCRB-seq and 10xGenomics Chromium from different cell types and states.

Comparative analysis of major technical parameters among a library generated with tSCBR-seq (P14 T cells recovered at day 8 post LCMV Armstrong infection) and published libraries generated with 10xGenomics Chromium (naïve or recovered at day 8 post LCMV Armstrong P14 T cells[22] and cord blood mononuclear cells available on the manufacturer's website).

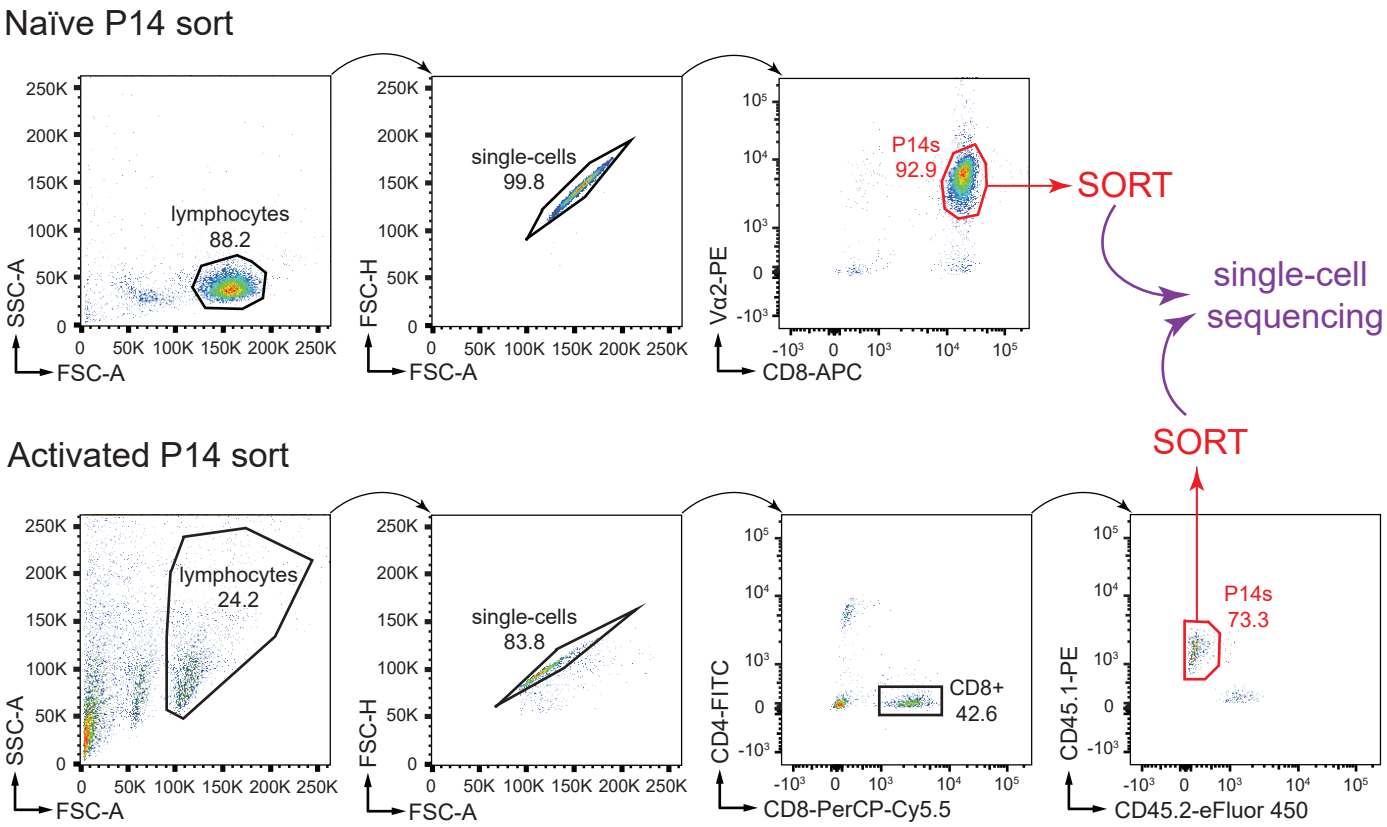


Supplementary Figure 4. The higher dynamic range of gene expression detected with tSCBR-seq results in improved compartment-resolved expression of key immune genes in chronic infection.

Comparative analysis of single-cell P14 T-cell transcriptomes generated with tSCRB-seq[12] or 10xChromium[13] and recovered from established LCMV clone-13 infections (on day 40 and day 30 respectively). Each circle represents a single-cell. The plots represent the expression of key for CD8 T cell differentiation and function immune genes and regulatory receptors depicted over tSNE. The expression level is illustrate using the red scale in plots based on the tSCBR-seq data and violet scale in plots using the 10xChromium data.



Supplementary Figure 5. Single-cell sort gating strategy.



Supplementary Table 1. Fraction of cell positive for selected key immune genes among methods.

Analysis of libraries generated with tDrop-seq and tSCRB-seq from P14 T-cells recovered at day 8 post-acute LCMV Armstrong infection, compared to a published 10xChromium dataset with matching experimental setup[22]. Comparison of the fraction of cell detected to express key immune genes among methods.

P14 cells recovered on day 8 from acute infection			
GENE	tDROP-seq	tSCRB-seq	10xChromium
Gzma	87%	95%	42%
Gzmb	81%	89%	90%
Prf1	55%	64%	11%
Fasl	12%	10%	21%
Klrg1	67%	56%	55%
Id2	80%	76%	95%
Tbx21	38%	56%	47%
Klf2	72%	85%	43%
Klf3	46%	70%	54%
S1pr1	38%	41%	58%
S1pr4	40%	53%	92%
S1pr5	37%	42%	21%
Tcf7	10%	9%	24%
Slamf6	14%	12%	45%
Il7r	9%	6%	10%
Eomes	23%	6%	22%
Id3	0%	1%	5%
Bcl2	7%	9%	29%
Mki67	61%	31%	13%
Ezh2	35%	38%	29%
Cumulative detection	41%	42%	40%

Supplementary Table 2. Number of transcripts per cell of selected key immune genes detected by each method.

Comparative analysis of the number of transcripts per cell of key immune genes detected by tDrop-seq, tSCBR-seq and 10xGenomics Chromium[22] in P14 T cells recovered on day 8 post LCMV Armstrong infection. All sequencing data are down-sampled to 40 000 mapped reads per cell. Source data are provided as a Source Data file. The abbreviations are as follows: md. transcripts, median number of transcripts captured per cell; SD, standard deviation

P14 CD8 T cells recovered onday 8 post LCMV Armstrong infection						
	tDrop-seq		tSCRB-seq		10xChrom	
	md. # transcripts	SD	md. # transcripts	SD	md. # transcripts	SD
Gzma	7.0	17.5	180.0	405.1	4.0	34.7
Gzmb	3.0	3.7	62.0	115.0	9.0	11.9
Prf1	1.0	1.3	35.0	70.7	2.0	1.4
Fasl	1.0	0.7	23.0	46.3	1.0	0.5
Klrg1	2.0	2.3	22.0	34.8	2.0	2.1
Id2	4.0	4.0	35.5	72.8	11.0	10.0
Tbx21	1.0	0.6	20.0	32.9	1.0	1.0
Klf2	1.0	1.1	27.0	74.3	1.0	1.0
Klf3	2.0	1.8	28.5	43.8	1.0	1.2
S1pr1	1.0	0.9	14.0	24.2	1.0	1.1
S1pr4	1.0	0.9	13.0	18.5	3.0	2.8
S1pr5	1.5	1.3	26.0	55.6	1.0	1.0
Tcf7	2.0	0.8	12.5	28.5	1.0	1.9
Slamf6	2.0	1.0	23.5	46.7	1.0	1.8
Il7r	1.0	1.3	25.0	49.0	1.0	1.0
Eomes	1.0	1.5	6.5	42.6	1.0	0.8
Id3	1.0	0.0	9.0	37.5	1.0	1.8
Bcl2	2.0	0.6	12.0	20.3	1.0	1.6
Mki67	2.0	6.4	28.0	208.5	2.0	2.1
Ezh2	2.0	1.4	44.0	76.2	1.0	1.6

*All sequencing data were down-sampled to 40 000 mapped reads/cell.

Supplementary Table 3. Primer sequences.

Primer	Primer full name	Primer sequence	Producer	Purity	Note
DS-BEADS	ChemGenes Barcoded Oligo dT primer ON Beads	5'–Bead–Linker--TTTTTTTAAGCAGTGGTATCAAC GCAGAGTACJJJJJJJJJJJJNNNNNNNN TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT--3'	ChemGenes Corporation	-	J denotes a nucleic acid part of the cellular barcode, which is identical in all primers attached to one bead; N denotes a random nucleic acid part of the unique molecular identifier, which is a unique sequence in each primar attached to one bead.
DS-TSO	Drop-seq Template Switching Oligo	AAGCAGTGGTATCAACGCAGAGTGAATrGrGrG	Eurogentec	HPLC	rG denotes a riboguanine
DS-TSO-LNA	Drop-seq Template Switching Oligo with Locked Nucleic Acid	AAGCAGTGGTATCAACGCAGAGTGAATrGrG+G	Eurogentec	HPLC	rG denotes a riboguanine; +G denotes a locked nucleic acid guanine
DS-SMART PCR	Drop-seq SMART PCR Primer	AAGCAGTGGTATCAACGCAGAGT	Integrated DNA Technologies	HPLC	
DS-P5	Drop-seq N5 primer	AATGATACGGCGACCACCGAGATCTACACGCCTGTCCGC GGAAGCAGTGGTATCAACGCAGAGT*A*C	Integrated DNA Technologies	HPLC	* denotes a phosphorothioate bond
DS-CR1	Drop-seq Custrom Read 1 Primer	GCCTGTCCGCGGAAGCAGTGGTATCAACGCAGAGTAC	Integrated DNA Technologies	HPLC	
SCRB-dT plate v1	tSCRB Barcoded Oligo-dT Primer Plate v1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTJ(6)N(10)T(30)VN	Integrated DNA Technologies	Ultramer Plate; Standard desalting	/5Biosg/ denotes a 5' biotin; J denotes a nucleic acid part of the cellular barcode; N denotes a random nucleic acid part of the unique molecular identifier; V denotes A or C or G
SCRB-dT plate v2	tSCRB Barcoded Oligo-dT Primer Plate v2 and v3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTJ(7)N(9)T(30)VN	Integrated DNA Technologies	Ultramer Plate; Standard desalting	/5Biosg/ denotes a 5' biotin; J denotes a nucleic acid part of the cellular barcode; N denotes a random nucleic acid part of the unique molecular identifier; V denotes A or C or G
SCRB-TSO	tSCRB-seq Template Switching Oligo	iC-iG-iCACACTCTTTCCCTACACGACGCrGrGrG	Eurogentec	HPLC	iC denotes a iso-dC; iG denotes a iso-dG; rG denotes a riboguanine
SCRB-TSO-LNA	SCRB-seq Template Switching Oligo with Locked Nucleic Acid	iC-iG-iCACACTCTTTCCCTACACGACGCrGrG+G	Eurogentec	HPLC	iC denotes a iso-dC; iG denotes a iso-dG; rG denotes a riboguanine; +G denotes a locked nucleic acid guanine
SCRB-SMART-PCR	SCRB-seq SMART PCR Primer	/5Biosg/ACACTCTTTCCCTACACGACGC	Integrated DNA Technologies	HPLC	/5Biosg/ denotes a 5' biotin
SMART-P5	SCRB-seq N5 primer	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGC TCTTCCG*A*T*C*T*	Integrated DNA Technologies	HPLC	* denotes a phosphorothioate bond
SCRB-CR1	SCRB-seq Custrom Read 1 Primer	TCTTTCCCTACACGACGCTCTTCCGATCT	Integrated DNA Technologies	HPLC	

Supplementary Table 4. tSCRB Barcoded Oligo-dT Primer Plate v1

/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTJ(6)N(10)T(30)VN

/5Biosg/ denotes a 5’ biotin; J denotes a nucleic acid part of the cellular barcode; N denotes a random nucleic acid part of the unique molecular identifier; V denotes A or C or G; IDT Ultramer Plate; Standard desalting

A1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAACGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACACGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACCAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACCGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACTGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGCCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGTCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAATCGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACAAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACAGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACAGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCTCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCTTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGATGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGCTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGTCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTACGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTCCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTGCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTGTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGACGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAGTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGCAGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGCCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGCGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGCTACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGCTGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGCTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTGCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTTCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATAGGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATCCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATCCTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATCGTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGCTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATTCCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATTGCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAACACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAGTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACAACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACTTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAGATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAGGTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAGTGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATCGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCAAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCAGTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCATTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCCATANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCGAAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCGTTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGAAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGAATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGAGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGATCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGCTAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGGATANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTAGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTTGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTAACGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTACAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTACGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTAGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTATGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTCATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTCGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTCTGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGTCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTTACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTTCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN

Supplementary Table 5. tSCRB Barcoded Oligo-dT Primer Plate v2

/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTJ(7)N(9)T(30)VN

/5Biosg/ denotes a 5’ biotin; J denotes a nucleic acid part of the cellular barcode; N denotes a random nucleic acid part of the unique molecular identifier; V denotes A or C or G; IDT Ultramer Plate; Standard desalting

A1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGCTTTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATCTGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCTGCTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTGTTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACACTGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGACGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGCACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACAAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTATGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAGCTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGGGTGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAATGCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAAGCGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCCATATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGCATGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCGGACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGATCCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGGTATANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACAGGCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTAATGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGCTTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGGCAAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGAGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATACACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTAACGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACAGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAAGAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGATTTCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCACAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAACCTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTGGATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAGGGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTGGCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGAAGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTACATCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATCGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGGATCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAGTCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGAGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTAAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCCGAAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTTGTGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTATCCGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTTCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATAGCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTCAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTACCGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTTCTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCATTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCCTCTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGACACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATAGCCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTTCGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAGTAACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCGATAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGAAGCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCCGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAGACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGGGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACGGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTACGCCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACCATGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGAGGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCTGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGATTCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTTTGCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCACACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTTTGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCAACTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCAATCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACGCTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACGATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACTCGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGCTACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTGCAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTGTAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGTAGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTTGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTAGGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTGAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGCTCCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGCATGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTGTTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGGAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCTTCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGGTACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAAAGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGCAACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCGGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCCCTAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAACGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN

Supplementary Table 6. tSCRB Barcoded Oligo-dT Primer Plate v3

/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTJ(7)N(9)T(30)VN

/5Biosg/ denotes a 5’ biotin; J denotes a nucleic acid part of the cellular barcode; N denotes a random nucleic acid part of the unique molecular identifier; V denotes A or C or G; IDT Ultramer Plate; Standard desalting

A1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACTTGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATCTGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCTGCTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTGTTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACACTGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGACGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGCACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACAAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTATGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAGCTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
A12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTAAGGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAATGCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAAGCGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCCATATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGCATGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCGGACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGATCCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGGTATANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACAGGCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTAATGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGCTTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGGCAAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
B12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTGAGACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATACACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTAACGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACAGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAAGAGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGATTTCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCACAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAACCTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTGGATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAGGGAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTGGCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
C12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGAAGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTACATCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCGTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATCGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGGATCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAGTCATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATGAGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTAAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCCGAAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTTGTGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTATCCGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTTCACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
D12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCATAGCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTCAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCTACCGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTTCTGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACCATTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCCTCTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGACACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTATAGCCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTTCGCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAGTAACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCGATAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGAAGCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
E12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTGGTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAGACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGGGATNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAACGGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTACGCCTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACCATGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGAGGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCTGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGATTCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTTTGCGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCACACANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCCTTTGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
F12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACTACGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCAACTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGCAATCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGTGTTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCACGCTANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACGATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGACTCGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGCTACTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTGCAANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGTGTAGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGTAGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTTGGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
G12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTAGGAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H1	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTGAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H2	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGCTCCANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H3	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGCATGANNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H4	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTGTTCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H5	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGGAAGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H6	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCTTCCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H7	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGGTACCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H8	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAAAGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H9	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTACGCAACNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H10	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTAGTCGGTNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H11	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGTTATCNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN
H12	/5Biosg/ACACTCTTTCCCTACACGACGCTCTTCCGATCTCAAACGGNNNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTVN