CEL-Seq2-style primers were used (Hashimshony et al. 2016) to prime RT reaction on mRNA from single cells, containing an Illumina 5' adapter as used in the illumina TruSeq small RNA kit.

The Illumina 3' adapter from the small RNA kit was reverse transcribed during library prep using a random hexameter primer as described in the CEL-seq2 paper, after which the Illumina small RNA kit RT primer was used for cDNA synthesis from the amplified RNA. During PCR, Illumina small RNA TruSeq PCR index primers were used to multiplex libraries into the same sequencing run.

To demultiplex the CEL barcodes after sequencing, read 1 should be parsed in the following manner:

The first 6 basepairs are random basepairs of the Unique Molecular Identifier (UMI). The next 8 basepairs are the Cel-Seq2 cell barcodes (see list below). The rest of read 1 consists of polyT and is not used. Read two is then mapped to the reference genome of choice.

1	**CGTCTAAT**
2	AGACTCGT
3	GCACGTCA
4	TCAACGAC
5	ATTTAGCG
6	ATACAGAC
7	TGCGTAGG
8	TGGAGCTC
9	TGAATACC
10	TCTCACAC
11	TACTGGTA
12	ACGATAGG
13	GATGTCGA
14	TTACGGGT
15	CACAGCAT
16	CTTTGACA
17	CCTTCAAG
18	GAGTCCTG
19	CACACTGA
20	GTTACAGG
21	GGACCTTT
22	TTCCGTTC

23	ACTGTTTG
24	AAGTGGCT
25	CTGTACAA
26	CGCAAAGT
27	GTGCATGA
28	GTCATTAG
29	AGCTCCTT
30	TCACCCGA
31	GTTGCCAC
32	TGTACCAA
33	AACGAGGT
34	AGCCACCA
35	GGTAATCA
36	CCAGTCCA
37	ACCTCAGC
38	GGTGGACT
39	GACAAACC
40	TAACTCCG
41	ACACCGTG
42	GTAGAACG
43	GGATTGAC
44	ACGTATCC
45	TTCGGAAA
46	AGTTGTGT
47	AAGCACAT
48	CTGTCATT
49	GTCCTATA
50	CTACGCTG
51	GGGATTGT
52	TGATGTAG
53	TTCGCTGT
54	GAAGACTT
55	TCTGGGCA

56	CAACTAGA
57	CCATGGGA
58	ATGCGACG
59	GAGGGTAG
60	CGGGTGAA
61	GCCATCTT
62	GCATAATC
63	TCTATGGT
64	AGGACTTA
65	CGTGATTC
66	ACTAGCGA
67	GTAACTCC
68	CGGAAGTG
69	CCGAGTAC
70	GACGCAAT
71	ACCTGGAG
72	CATGGGTT
73	ATTCCTAG
74	AATCATGC
75	GCTTCCCT
76	AGGTAAAG
77	CCACAACT
78	ACAGGCAT
79	TTTGTGTC
80	TGAGCATA
81	TTAGACGC
82	CGCTTGCT
83	AGTCTGCC
84	CATAGTCG
85	TCTTGCTG
86	GGGACAAC
87	ATATTCCC
88	TGTTAAGC

89	TACGCCTC
90	CACTTATC
91	ACCGCTAA
92	TAAGGTCC
93	GAAAGGTG
94	ACGTTGTA
95	GCAGAGAA
96	GCATTTGG
97	TAGTGTGC
98	TACAAGGG
99	GGACTACT
100	TCCCTAGA
101	ATGAGCAG
102	TACTGCTG
103	CTGACTGT
104	CAGCGATT
105	GTTCGCTA
106	CATCTCAC
107	TCTGCCTA
108	CTGGCTAA
109	GATTGCTC
110	GGGTTATG
111	CTTCGTAC
112	GAAACTGC
113	TACCAGAC
114	TTGCAACC
115	TTAGGACG
116	TATCCACG
117	TCTAGAGG
118	CAGATCGT
119	ATGTGCGT
120	AAGTCTCG
121	CTAGCAAC

122	TTCCTACC
123	TCCTAGCT
124	GGTTCTGA
125	ACGTACTG
126	GTGAACTC
127	GGCGATTT
128	AATCGGCA
129	GCGTATAG
130	CCGATTCT
131	CTATAGGC
132	CTTGTGCA
133	CAGTGACA
134	ACGCTCTT
135	ATAGGAGC
136	GTTCTGCT
137	TAGACGCT
138	CGTATCAG
139	TTGTTCCG
140	TAGGTCAC
141	ATACACGG
142	CGAGAATG
143	CGCTATAG
144	GTATCGCT
145	CGGTGTTT
146	CAAGGTGT
147	AGAACCAC
148	AAGCTGCA
149	ACGGATGT
150	AGTGGGAT
151	AGGGACAA
152	GTGTAACC
153	CAAGAGAC
154	GTCCGTAA

155	TGGTTGTC
156	AGGCATCT
157	GTCTACCT
158	GTTCAGTG
159	GCCACAAA
160	GAGAACGA
161	GCTGTAAC
162	TCAGCTTG
163	TTCCCTCA
164	TCGACTCA
165	GTGATGTC
166	ATCGGTTG
167	CCATTTCC
168	CTGAAGGA
169	GAGTCTGT
170	TCGCCATT
171	CGGTAATC
172	CCTGACAA
173	AAGACAGC
174	TGCGGTAT
175	TATCTCGC
176	TTCACGTG
177	CCCCTATT
178	TATCCTGC
179	CCTTCGTA
180	CAAAGTGG
181	GTCTCACA
182	CAGATACC
183	CCTACACA
184	AGCAGAAC
185	TTTGAGGG
186	AAACAGGC
187	TGATCCTC

188	GAGAAGAG
189	CGTAATCG
190	CGAATGCA
191	TGAAAGCG
192	CGTAGAAG
193	CCAGAAAG
194	CTTACGAC
195	CCGCATTT
196	ACGATCCT
197	AGGATGGA
198	TCGGTTGA
199	TCTGTGAG
200	ACCACGAT
201	GGCTCTAT
202	TACTGCAC
203	CATGTCAC
204	AAGGAGCA
205	AACCGCTT
206	CAACCATG
207	AGAACAGG
208	TAAGCCGT
209	GATGCTCT
210	CTAGTTCC
211	GATCACCT
212	GATCGAAG
213	GCTTCTTC
214	TGGTGAGT
215	CACTATCC
216	GTAATCCG
217	CAGATAGC
218	CCGTCTAA
219	TACCTGTC
220	TATTCGGG

221	GTTGGTGA
222	TAGCTACC
223	GACTTGAG
224	TTCAGCGT
225	ACAGAAGC
226	ACGCGTAA
227	CATAGCTC
228	ACCCATCT
229	GCAATCGA
230	TCCAATCG
231	TTCTCGGA
232	TATGACCC
233	TTCAGACC
234	GAGAGAGA
235	ATGCTCTG
236	TGACCAAG
237	GAGCAAAC
238	GTCGATCT
239	CTCTTTGC
240	AAGGTCAG
241	ATGCCTCA
242	TCCGAACA
243	CTGCGAAA
244	TGGGTTTC
245	CAGTCCAT
246	CGACTTAC
247	TCGGAATC
248	CAGCTTTG
249	TGGTAGCT
250	TTATCCGG
251	GCATCAGT
252	CAATACGC
253	TAGGGGAA

254	GCTTTGGA
255	TCAGCACT
256	TGCGTGAT
257	GTAGTGAG
258	GTGGTGTA
259	TCATGAGG
260	TCCAGCTA
261	GGATGATG
262	AGCACTCT
263	AAGCGAGT
264	TGATCTCC
265	ACAGAGCT
266	ATAGCTGC
267	TGATTCGC
268	ATCGTGCA
269	AGTCAGGA
270	TTTTCGCC
271	AGGAGACT
272	GTTCCGAT
273	TCGCGATA
274	GGACGAAT
275	TCGACAAG
276	GAACAGCA
277	GTCCAAAG
278	CTGCTTCT
279	ACCCTACA
280	TCGTCCTT
281	GCTAATGG
282	GGAGTACA
283	CGGTACTT
284	AACACGCA
285	GCAAGAAG
286	CATGCACA

287	GTTCTTGC
288	AGCGAACT
289	GTGTTCAG
290	TCTCGTCT
291	TACGGTGA
292	GATGTACC
293	TACCACGA
294	TCTGGTTC
295	CCTCTCAA
296	GTATGCAC
297	GGAGCTAA
298	ACCCCATT
299	AGTTCTCG
300	ACCAAGGA
301	GTGCGTAT
302	AGTACGTG
303	AGAGGTGA
304	GGGAAGAT
305	CCAACGTT
306	GGGGATTT
307	GGCAACAA
308	CAGTCAGA
309	CGAAAGCT
310	AATGGTGG
311	TGGCACAA
312	ATGGGCTT
313	TGATCGGT
314	CTGATCAC
315	CTCGTACT
316	CTACCGTA
317	TTGTCCAC
318	ATTGGACC
319	TGAAAGGC

320	ACATGTGC
321	CGATCCTA
322	ATGGCACT
323	TAGAGGGT
324	GTATCGTC
325	CACCATGT
326	TAGGAACG
327	TGATGCCA
328	GAGTTGGT
329	TGAGAGAG
330	CCTGTAGA
331	GGTGTTAG
332	GTCTTACC
333	AGACAACC
334	TGGCTTCA
335	AGCTTCAC
336	CAGTGTCA
337	GTTATGCC
338	CGAACTGT
339	GATCCTGA
340	CCAGATGA
341	AACCTGCT
342	TATGGAGC
343	CACTCACT
344	GGGTAAGA
345	CAAACGAG
346	AAAGGCTG
347	ACAAGGCA
348	AGTTTCGG
349	ACCAGTTC
350	AATAGGGC
351	AACCCAAC
352	CGCATAAC

353	GTGCTAGT
354	GGTGACTA
355	GGTTAGTG
356	CGAAGCAA
357	CCGAGATT
358	CTCTGCTA
359	TAGTTGCG
360	AGGCTAAC
361	ACAAACCG
362	ATCGACGA
363	CTCATGTC
364	CCCTAGTA
365	CCTTTGAC
366	TGTGGCTT
367	GCGATATC
368	ACGAACAC
369	TTGATGGC
370	AACATGGG
371	CTTAGCCT
372	AAAGCGGA
373	CAATGGTC
374	AACCGGAA
375	AACTCTGG
376	TTAGGCAG
377	CGTCGTTT
378	CCTGCTAT
379	CAGAGAAG
380	GATTGTCC
381	CACCTCTA
382	AGTTGGAC
383	AGTGCAGA
384	CTCTGTCT