

## Example seqspec 10x Genomics v3

```
!Assay
seqspec_version: 0.0.0
assay: 10xRNAv3
sequencer: Illumina
name: 10x-RNA-v3
doi: https://doi.org/10.1038/ncomms14049
publication_date: null
description: 10xv3 single-cell RNA-seq
modalities:
- rna
lib_struct: https://teichlab.github.io/scg_lib_structs/methods_html/10xChromium3.html
assay_spec:
- !Region
  region_id: rna
  region_type: rna
  name: rna
  sequence_type: joined
  sequence: AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTNNNNNNNNNN
NNNNNNNNNNNNNNNNXAGATCGGAAGAGCACACGTCTGAACTCCAGTCACNNNNNNNNATCTCGTATGCCGTCTTCT
GCTTG
  min_len: 134
  max_len: 231
  onlist: null
  regions:
  - !Region
    region_id: illumina_p5
    region_type: illumina_p5
    name: Illumina P5
    sequence_type: fixed
    sequence: AATGATACGGCGACCACCGAGATCTACAC
    min_len: 29
    max_len: 29
    onlist: null
    regions: null
    parent_id: rna
  - !Region
    region_id: truseq_read1
    region_type: truseq_read1
    name: Truseq Read 1
    sequence_type: fixed
    sequence: TCTTTCCCTACACGACGCTCTTCCGATCT
    min_len: 10
    max_len: 10
```



```

max_len: 98
onlist: null
regions:
- !Region
  region_id: cdna
  region_type: cdna
  name: cdna
  sequence_type: random
  sequence: X
  min_len: 1
  max_len: 98
  onlist: null
  regions: null
  parent_id: R2.fastq.gz
parent_id: rna
- !Region
  prder: 4
  region_id: truseq_read2
  region_type: truseq_read2
  name: Truseq Read 2
  sequence_type: fixed
  sequence: AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC
  min_len: 34
  max_len: 34
  onlist: null
  regions: null
  parent_id: rna
- !Region
  region_id: I1.fastq.gz
  region_type: fastq
  name: Index Read 2
  sequence_type: joined
  sequence: NNNNNNNN
  min_len: 8
  max_len: 8
  onlist: null
  regions:
  - !Region
    region_id: index7
    region_type: index7
    name: Truseq Read 2
    sequence_type: onlist
    sequence: NNNNNNNN
    min_len: 8
    max_len: 8
    onlist: !Onlist

```

```
    filename: index7_onlist.txt
    md5: null
    location: local
    regions: null
    parent_id: I1.fastq.gz
parent_id: rna
- !Region
  region_id: illumina_p7
  region_type: illumina_p7
  name: Illumina P7
  sequence_type: fixed
  sequence: ATCTCGTATGCCGTCTTCTGCTTG
  min_len: 24
  max_len: 24
  onlist: null
  regions: null
  parent_id: rna
parent_id: null
```