**sRNAseq oligo sequences**

Adaptors etc. as used in Alberti et al., 2018. Note the changes in 3’ adaptors (barcodes):

Please resuspend adaptors to a concentration of 100 uM upon PAGE purification

**Linkers**

Solexa 3’ linker original (25+2):

5’- /5rApp/NNNNAGATCGGAAGAGCACACGTCT/3ddC/-3

Green = RT-primer sequence

Barcoded sRBC-3’-adaptors (32 + 2)

5’- /5rApp/NNNNNNXXXXXAGATCGGAAGAGCACACGTCT/3ddC/-3

Changes: 2 extra random N’s + 5 X barcode sequence = Yellow -> for list of barcodes see last page

Solexa 5’ linker:

5’-ACACUCUUUCCCUACACGACGCUCUUCCGAUCUNNNN-3’

Blue = 5’ linker sequence

**SR RT-primer**

5′-AGACGTGTGCTCTTCCGATCT -3′

Green = RT-primer sequence:

**PCR primers**

Solexa fwd:

5′- AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT -3′

Blue = 5’ linker sequence

TrueSeq rev:

5’-CAAGCAGAAGACGGCATACGAGATCGTGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT – 3’

yellow = PCR barcode, for barcode list see last page

**Product sequences**

Standard 3’-adaptor

RNA

5’-ACACUCUUUCCCUACACGACGCUCUUCCGAUCUNNNN-(X)18-30-NNNNAGATCGGAAGAGCACACGTCT/3ddC/-3

DNA

5’-AATGATACGGCGACCACCGAGATCTACACUCUUUCCCUACACGACGCUCUUCCGAUCUNNNN-(X)18-30-NNNNAGATCGGAAGAGCACACGTCTGAACTCCAGTCACYYYYYYATCTCGTATGCCGTCTTCTGCTTG/3ddC/-3

sRBC 3’-adaptor

RNA

5’-ACACUCUUUCCCUACACGACGCUCUUCCGAUCUNNNN-(X)18-30-NNNNNNXXXXXAGATCGGAAGAGCACACGTCT/3ddC/-3

DNA

5’-AATGATACGGCGACCACCGAGATCTACACUCUUUCCCUACACGACGCUCUUCCGAUCUNNNN-(X)18-30-NNNNNNXXXXXAGATCGGAAGAGCACACGTCTGAACTCCAGTCACYYYYYYATCTCGTATGCCGTCTTCTGCTTG/3ddC/-3

**Barcodes for 3’ adaptors**

The 3’ adaptor barcodes (sRBC1 – sRBC48) have minimum 2MM distance to each other

sRBC-1 CAGTG

sRBC-2 AGCAA

sRBC-3 GGTAT

sRBC-4 TACCA

sRBC-5 GTCAG

sRBC-6 TGACT

sRBC-7 CGTTC

sRBC-8 ATGGA

sRBC-9 GAACG

sRBC-10 ACGAG

sRBC-11 CTGAT

sRBC-12 TCCAT

sRBC-13 AGAGC

sRBC-14 GTGTC

sRBC-15 TGTGA

sRBC-16 CTCTA

sRBC-17 ACTGT

sRBC-18 TAGGT

sRBC-19 ATCCT

sRBC-20 CAAGA

sRBC-21 GAGAA

sRBC-22 TGCTG

sRBC-23 GGATA

sRBC-24 TGGAC

sRBC-25 GATGC

sRBC-26 AACGG

sRBC-27 GCTTG

sRBC-28 CACAC

sRBC-29 CGAAG

sRBC-30 ACCTC

sRBC-31 GTAGT

sRBC-32 AGGTT

sRBC-33 CCATT

sRBC-34 GTTCA

sRBC-35 CTACC

sRBC-36 TTCGC

sRBC-37 GACTT

sRBC-38 TCAGG

sRBC-39 GCAAC

sRBC-40 TCTCC

sRBC-41 CATCT

sRBC-42 ACACA

sRBC-43 TCGTA

sRBC-44 AGTCG

sRBC-45 AAGCC

sRBC-46 CTTGG

sRBC-47 TTGCG

sRBC-48 CCTAA

**TrueSeq barcodes for PCR amplification**

TrueSeq Index adapter sequences are six bases as underlined. Actual primer sequences are reverse complement of the sequences listed below, 6 barcode nts in yellow

Index Adapter 1 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 2 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 3 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 4 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 5 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 6 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 7 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 8 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 9 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 10 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 11 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 12 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 13 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 14 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCCGTATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 15 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 16 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACCCGTCCCGATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 18 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 19 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGAAACGATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 20 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGGCCTTATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 21 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTTCGGAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 22 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 23 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 25 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG

Index Adapter 27 5′ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATTCCTTTATCTCGTATGCCGTCTTCTGCTTG