**ILLUMINA WGS ADAPTERS**

PE1-nonBC

5 TCCCTacacgac**gctcttccgatc**\*t 3

5 P-**GATCGGAAGAGC**GTCGTGTAGGGA 3

PE2-nonBC

5 Gttcagacgtgt**gctcttccgatc\*T 3**

5 P-**GATCGGAAGAGC**ACACGTCTGAAC 3

GENERIC pe1-BC

5 TCCCTacacgacgctcttccgatctXXX(X)\*T 3

5 P-(X)XXXA**GATCGGAAGAGC**GTCGTGTAGGGA

**BARCODED ADAPTERS**

pe1-BC1

5 TCCCTacacgacgctcttccgatct**gcaGAC**\*t 3

5 P-**GTCTGC**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC2

5 TCCCTacacgacgctcttccgatct**atca**\*t 3

5 P-**tgat**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC3

5 TCCCTacacgacgctcttccgatct**tag**\*t

5 P-**cta**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC4

5 TCCCTacacgacgctcttccgatct**cgtca**\*t 3

5 P-**tgacg**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC5

5 TCCCTacacgacgctcttccgatct**ctag**\*t 3

5 P-**ctag**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC6

5 TCCCTacacgacgctcttccgatct**gatacA**\*t 3

5 P-**tgtatc**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC7

5 TCCCTacacgacgctcttccgatct**agc**\*t 3

5 P-**gct**AGATCGGAAGAGCGTCGTGTAGGGA

pe1-BC8

5 TCCCTacacgacgctcttccgatct**tcgcg**\*t 3

5 P-**cgcga**AGATCGGAAGAGCGTCGTGTAGGGA

**BARCODES SEQUENCES**

1 gcaGAC\*t

2 atca\*t

3 tag\*t

4 cgtca\*t

5 ctag\*t

6 gatacA\*t

7 agc\*t

8 tcgcg\*t

group 1-4, 5-8 are base-balanced in the first 3 bases

**- for 4 samples, use first 4 barcodes on read**

**- for 6 samples, use first 6 barcodes on read one**

**- for 8 samples, use all 8 barcodes on read one**

**- for more samples, use a combination of barcodes on read 1 + indexes**

**PCR PRIMERS**

PCR-F

5 AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTT 3

PCR-R

5 CAAGCAGAAGACGGCATACGAGAT-NNNNNN-GTGACTGGAGTTCAGACGTGTGCTCTT 3

(OPTIONAL FOR dsn treatment)

PCR-dsn-F

5 TCCCTACACGACGCTCTT 3

PCR-DSN-R

5 GTTCAGACGTGTGCTCTT 3

**INDEXED PCR PRIMERS**

PCR-R-INDEX1

5 CAAGCAGAAGACGGCATACGAGAT- cgtgat -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX2

5 CAAGCAGAAGACGGCATACGAGAT- acatcg -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX3

5 CAAGCAGAAGACGGCATACGAGAT- gcctaa -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index4

5 CAAGCAGAAGACGGCATACGAGAT- tggtca -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index5

5 CAAGCAGAAGACGGCATACGAGAT- CACtgt\* -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index6

5 CAAGCAGAAGACGGCATACGAGAT- attGGC$ -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX7

5 CAAGCAGAAGACGGCATACGAGAT- gatctg -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX8

5 CAAGCAGAAGACGGCATACGAGAT- tcaagt -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX9

5 CAAGCAGAAGACGGCATACGAGAT- ctgatc -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX10

5 CAAGCAGAAGACGGCATACGAGAT- aagcta -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX11

5 CAAGCAGAAGACGGCATACGAGAT- ctagcc -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX12

5 CAAGCAGAAGACGGCATACGAGAT- tacAAg# -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX13

5 CAAGCAGAAGACGGCATACGAGAT- TTgact -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX14

5 CAAGCAGAAGACGGCATACGAGAT- ggaact -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX15

5 CAAGCAGAAGACGGCATACGAGAT- tgacat -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index16

5 CAAGCAGAAGACGGCATACGAGAT- ggacgg -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index17

5 CAAGCAGAAGACGGCATACGAGAT- gcggac -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-index18

5 CAAGCAGAAGACGGCATACGAGAT- tttcac -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX19

5 CAAGCAGAAGACGGCATACGAGAT- ggcctc -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX20

5 CAAGCAGAAGACGGCATACGAGAT- cgaaac -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX21

5 CAAGCAGAAGACGGCATACGAGAT- cgtacg -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX22

5 CAAGCAGAAGACGGCATACGAGAT- ccactc -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX23

5 CAAGCAGAAGACGGCATACGAGAT- atcagt -GTGACTGGAGTTCAGACGTGTGCTCTT 3

PCR-R-INDEX24

5 CAAGCAGAAGACGGCATACGAGAT- aggaat -GTGACTGGAGTTCAGACGTGTGCTCTT 3

**qPCR primers**

QPCR-LIB-F

5 AATGATACGGCGACCACCGA 3

QPCR-LIB-R

5 CAAGCAGAAGACGGCATACGA 3

INDEX SEQUENCES

**1 ATCACG**

**2 CGATGT**

**3 TTAGGC**

**4 TGACCA**

**5 ACAGTG**

**6 GCCAAT**

**7 CAGATC**

**8 ACTTGA**

**9 GATCAG**

**10 TAGCTT**

**11 GGCTAG**

**12 CTTGTA**

**13 agtcaa**

**14 agttcc**

**15 atgtca**

**16 ccgtcc**

**17 gtccgc**

**18 gtgaaa**

**19 gaggcc**

**20 gtttcg**

**21 cgtacg**

**22 gagtgg**

**23 actgat**

**24 attcct**

**The indices are almost completely identical to the illumina truseq ones (although their numbering is partially different), with the exception of barcodes 11 and 19, which are slightly different from their illumina counterpart.**