

Table S2: Adapter and barcode sequences used to trim all *in vivo* samples and *in vitro* samples 'F22-1' and 'F22-2' (exponential growth phase).

```

>Illumina_D5_adapter_i5a
ATGATACGGCGACCACCGAGATCTACAC
>Illumina_D5_adapter_i5b
ACACTCTTTCCCTACACGACGCTCTTCCGATCT
>Illumina_D5_adapter_i7a
GATCGGAAGAGCACACGTCTGAACTCCAGTCAC
>Illumina_D5_adapter_i7b
ATCTCGTATGCCGTCTTCTGCTTG
>Truseq_Universal_Adapter
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT
>Truseq_Adapter_1a
GATCGGAAGAGCACACGTCTGAACTCCAGTCAC
>Truseq_Adapter_1b
ATCTCGTATGCCGTCTTCTGCTTG
>Illumina_D5_adapter_i5a Reversed:
GTGTAGATCTCGGTGGTCGCCGTATCAT
>Illumina_D5_adapter_i5b Reversed:
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT
>Illumina_D5_adapter_i7a Reversed:
GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>Illumina_D5_adapter_i7b Reversed:
CAAGCAGAAGACGGCATACGAGAT
>Truseq_Universal_Adapter Reversed:
AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT
>Truseq_Adapter_1a Reversed:
GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>Truseq_Adapter_1b Reversed:
CAAGCAGAAGACGGCATACGAGAT
>TruSeq_Universal_Adapter
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT
>O15-1_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG
>O15-2_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG
>O15-3_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG
>O19-1_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG
>O18-3_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG
>O18-4_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG
>O18-7_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG
>O18-8_with_barcode

```

GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG
>O20-1_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG
>O20-3B_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG
>O20-4_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG
>D4-2_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG
>F22-1_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG
>F22-2_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG
>J24-5_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCAGATCTCGTATGCCGTCTTCTGCTTG
>J24-6_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG
>J24-7_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG
>J24-8_with_barcode
GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG
>TruSeq_Universal_Adapter_RC
AGATCGGAAGAGCGTTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT
>O15-1_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATCGTGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O15-2_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATACATCGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O15-3_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATGCCTAAGTACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O19-1_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATTGGTCAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O18-3_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATCACTGTGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O18-4_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATATTGGCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O18-7_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATGATCTGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O18-8_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O20-1_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O20-3B_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>O20-4_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>D4-2_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC

```
>F22-1_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>F22-2_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>J24-5_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATCGTGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>J24-6_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATACATCGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>J24-7_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
>J24-8_with_barcode_RC
CAAGCAGAAGACGGCATAACGAGATTGGTCAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATC
```