Adapter Sequences

Barcode adapter

A sequence   barcode

```
5'-ACACTCTTTCCCTACACGACGCTCTTCCGATCTctccTGCA-3'
3'-TGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGAgagg-5'
```

PstI sticky-end

Common adapter

B sequence

```
5'-GATCGGAAGAGCGGTTCAGCAGGAATGCCGAG-3'
3'-ACGTCTAGCCTTCTCGCCAAGTCGTCCTTACGGCTC-5'
```

PstI sticky-end

Digest/Ligation Product

PstI   PstI

```
5'-..NNNNNCTGCA|GNNNNN..NNNNNCTGCA|GNNNNN..-3'
3'-..NNNNNG|ACGTCNNNNN..NNNNNG|ACGTCNNNNN..-5'
```

Digest with PstI

A   B

```
5'-ACACT..GATCTctccTGCA-3'        5'-GNNNNN..NNNNNCTGCA-3'        5'-GATCG..CCGAG-3'
3'-TGTGA..CTAGAgagg-5'     ←→     3'-ACGTCNNNNN..NNNNNG-5'   ←→   3'-ACGTCTAGC..GGCTC-5'
```

Barcode adapter   Common adapter

Ligation

A   B

```
5'-ACACT..GATCTctccTGCAGNNNNN..NNNNNCTGCAGATCG..CCGAG-3'
3'-TGTGA..CTAGAgaggACGTCNNNNN..NNNNNGACGTCTAGC..GGCTC-5'
```