### RT

| 2nd strand       | CTACACGACGCTCTCCGATCTCTGTNNNNNNNNNNNNNGATTAGGACATTCTAGTCTCGTAC |
|------------------|---------------------------------------------------------------|
| reverse          | CAGACGTGTGCTCTCCGATCGCTAANNNNNNNNNNNNNNACATTCTAACTCGTGAAGTCGAAC |

### PCR amplification

| forward | CTACACGACGCTCTCCGATCTCAGACGTGTGCTCTTCCGATCT |
| reverse | CAGACGTGTGCTCTCCGATC                           |

### Sequencing adaptors

| index2       | CAAGCAAGAACGCCATACGAGATTACAGTGCGTGGAGTCAGACGTGTGCCTCTCCGATCT |
| index4       | CAAGCAAGAACGCCATACGAGATACATCGTGGAGTTCAGACGTGTGCTCTCTCCGATCT |
| index5       | CAAGCAAGAACGCCATACGAGATTACAGTGCGTGGAGTTCAGACGTGTGCTCTCTCCGATCT |
| index7       | CAAGCAAGAACGCCATACGAGATTACAGTGCGTGGAGTTCAGACGTGTGCTCTCTCCGATCT |
| universal    | AATGATACGGCGACCACCGAGATCTACACTCTTCTCCCTACACGACGCTCTCCGATCT |

**Supplementary Table 2 Primer sequences used for error rate determination.** N indicates random nucleotide, and the string of 15 Ns is the product barcode (UMI). Blue color indicates condition barcode. Green and yellow regions indicate complementary sequences for PCR amplification. Red regions indicate Illumina index.