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JAX-Sen: Library construction using KAPA RNA HyperPrep Kit for Bulk RNAseq

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We use this protocol and it's working

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Abstract

This protocol describes the methods and procedures used to construct and sequence libraries fro bulk RNAseq using KAPA RNA HyperPrep Kit with RiboErase (HMR) from Roche for library construction and NovaSeq X Plus from Illumina.

Procedure

- 1 The input parameters process workflow and library construction for the KAPA RNA HyperPrep Kit for Illumina platforms is mentioned below:
<https://rochesequencingstore.com/wp-content/uploads/2017/10/KAPA-RNA-HyperPrep-Kit-1.pdf>

Indexes used are IDT for Illumina – TruSeq DNA UD Indexes v2 (96 Indexes, 96 Samples) #20040870
https://www.illumina.com/content/dam/illumina-marketing/documents/products/datasheets/datasheet_truseq_dna_pcr_free_sample_prep.pdf
- 2 The NovaSeq X Plus from Illumina is used for sequencing. Sequencing on this instrument is on a patterned flow cell with two color chemistry (green and blue). Sequencing is on a 10B Flow Cell with 8 lanes and can currently be done in 100 cycles, 200 cycles or 300 cycles. Note that each cycle kit comes with 38 cycles to account for index reads. Each lane yields 1250M reads.