ezRAD Modifications to Illumina TruSeq DNA Kit Protocol

Modified from Ethan Ford’s TruSeq RNA Kit protocol

http://ethanomics.files.wordpress.com/2012/02/truseq_rna_kit_protocol_third2.pdf

Perform End Repair

1. Use 13.3 μl of End Repair Mix instead of 40 μl.
2. Add 53.3 μl of Ampure XP Beads instead of 160 μl.
3. Place on magnetic rack for 5 minutes instead of 15 minutes.
4. Add 10 μl Resuspension Buffer instead 17.5 μl.
5. Incubate at room temperature for 5 minutes instead of 2 minutes.
6. Transfer 9 μl of the supernatant to a new 0.2 ml PCR tube instead of 15 μl.

Adenylate 3’ Ends

1. Add 4.17 μl A-Tailing Mix to sample instead of 12.5 μl.

Ligate Adapters

1. Change recipe to : 0.83 μl DNA Ligase Mix, 0.83 μl Resuspension Buffer, 0.83 μl Adapter Index.
2. Add 1.67 μl Stop Ligase Mix instead of 5 μl.
3. Add 20 μl of AMPure XP beads instead of 42.5 μl.
4. Place on magnetic rack for 5 minutes instead of 2 minutes.
5. Add 27 μl Resuspension Buffer instead of 52.5 μl.
6. Place in magnetic rack for 5 minutes instead of 2 minutes.
7. Transfer 26 μl of the supernatant to a new 0.2 ml PCR tube instead of 50 μl.
8. Add 26 μl of well-mixed AMPure XP beads instead of 50 μl.
9. Place on magnetic rack for 5 minutes instead of 2 minutes.
10. Add 25 μl Resuspension Buffer instead of 22.5 μl.

11. Place in magnetic rack for 5 minutes instead of 2 minutes.

12. Transfer 23 μl of the supernatant to a new 0.2 ml PCR tube.

**Proceed directly to Enrich DNA Fragments**

1. Modify PCR mix as follows: 10 μl of ligated DNA, 1.67 μl PCR Primer Cocktail, 8.33 μl PCR Master Mix.


**Return to Purify Ligation Products**

1. Add 5 μl of 4X loading buffer to each sample and to ladder instead of 7 μl.