

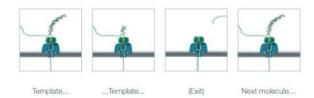
B



\mathbf{C}

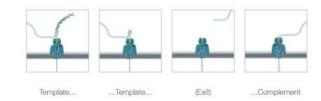
Translocation - 1D

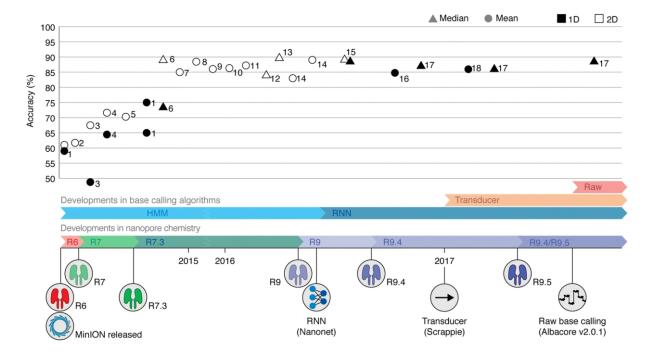
The template and the complement strands are sequenced as individual strands.

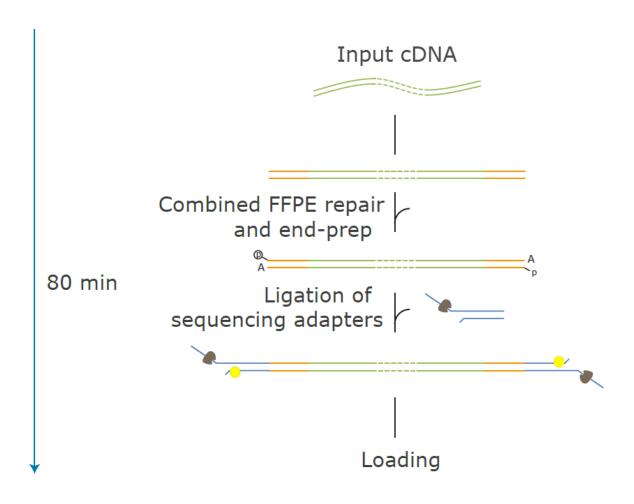


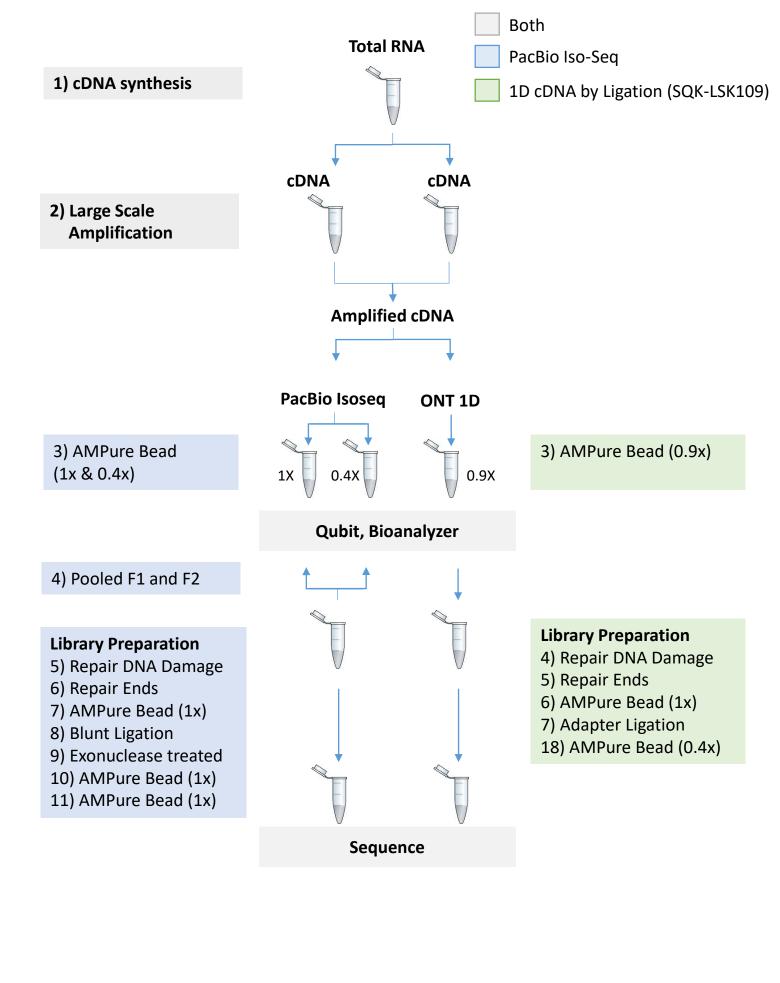
Translocation - 1D²

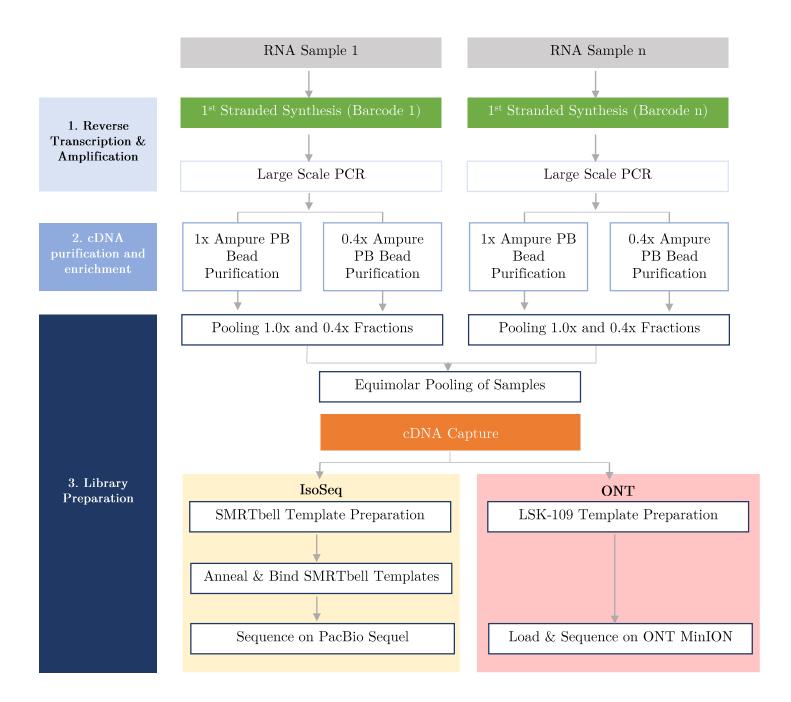
1D² library preparation deploys special adapters that increase the probability that the complement strand will immediately follow the template strand. This method of sequencing when used with 1D² analysis produces a higher accuracy read.





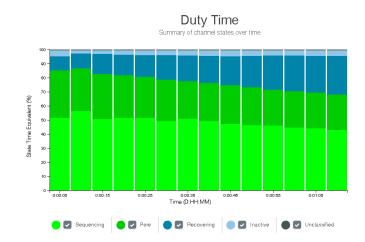




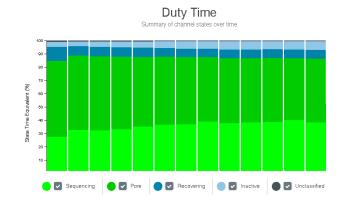


A Good Quality Library

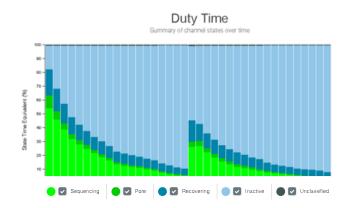
B Channel Blocking



C Low Pore Occupancy



D Flow Cell Failure



- 1) cDNA synthesis with barcode
- 2) Large Scale **Amplification**

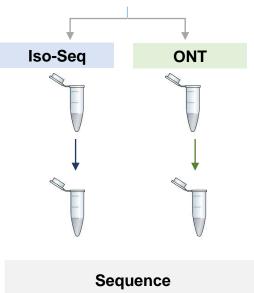
3) Pooling - AMPure Bead (1x & 0.4x)

RNA Sample 1 cDNA cDNA cDNA Amplified cDNA Qubit, Bioanalyzer Equimolar Pooling of Samples Captured DNA Iso-Seq ONT

4) Target Capture

SMRTbell Template **Library Preparation**

- 5) Repair DNA Damage
- 6) Repair Ends
- 7) AMPure Bead (1x)
- 8) Blunt Ligation
- 9) Exonuclease treated
- 10) AMPure Bead (1x)
- 11) AMPure Bead (1x)
- 12) Anneal and Bind SMRTbell templates



SQK LSK-109 Template Library Preparation

RNA Sample n

Amplified cDNA

cDNA

- 5) Repair DNA Damage
- 6) Repair Ends
- 7) AMPure Bead (1x)
- 8) Adapter Ligation
- 9) AMPure Bead (0.4x)