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 We use this protocol and it's working

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Oxford Nanopore sequencing and library construction

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In 1 collection

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ABSTRACT

This is a protocol for Oxford Nanopore sequencing and library construction, which was used in the humpback puffer genome sequence.

1 ONT Library preparation and Quality Control

- 1.1** After obtaining the qualified DNA, the large size fraction was selected by automated gel electrophoresis (BluePippin).
- 1.2** Next, the DNA was treated with the end-repair/dA tailing module.
- 1.3** After purification, adapter ligation was performed using ligation sequencing kit (LSK109, Oxford Nanopore Technologies).
- 1.4** Finally, DNA library was quantified by Qubit.

Library construction process

2 DNA Sequencing

- 2.1 A certain concentration and volume of DNA library was loaded onto a flow cell- PromethION cell R9.4.1, which was then transferred to Nanopore PromethION sequencer for real-time single molecule sequencing.

Nanopore single molecule real-time sequencing