

# SQK-MAP006 protocol for library preparation for Nanopore sequencing

Benjamin Istace, Anne Friedrich, Léo d'Agata, Sébastien Faye, Emilie Payen, Odette Beluche, Claudia Caradec, Sabrina Davidas, Corinne Cruaud, Gianni Liti, Arnaud Lemainque, Stefan Engelen, Patrick Wincker, Joseph Schacherer, Jean-Marc Aury

## Abstract

This protocol describes the library preparation for Nanopore sequencing according to the SQK-MAP006 protocol.

It accompanies the *GigaScience* publication:

Benjamin Istace, et al. (2017) De novo assembly and population genomic survey of natural yeast isolates with the Oxford Nanopore MinION sequencer. *GigaScience*...

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## Protocol

### DNA fragmentation

#### Step 1.

Fragment DNA (2µg for a 8Kb or 6 to 10µg for a 20Kb size) by using Covaris gTube

### DNA repair

#### Step 2.

Perform FFPE treatment (NEBNext® FFPE DNA Repair Mix) of fragmented DNA

### Clean Up

#### Step 3.

The DNA repair reaction was cleaned up with Agencourt AMPure XP beads (1x)

### End Repair

#### Step 4.

DNA fragments were End-repaired by using NEBNext® End Repair Module

### dA-tailing

**Step 5.**

DNA fragments were dA-tailed by using the NEBNext® dA-Tailing Module

Clean Up

**Step 6.**

The End-Prep reaction was cleaned up with AMPure beads (1x)

Adaptors ligation

**Step 7.**

Nanopore adaptors were ligated to the dA-tailed DNA fragment by using NEB Blunt/TA Ligase Master Mix

Clean Up

**Step 8.**

The ligation reaction was cleaned up with MyOne C1-beads (1x)