



Adapter ligation with AMII @

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1 Works for me dx.doi.org/10.17504/protocols.io.bdp9i5r6

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ABSTRACT

This is a subprotocol for performing adapter ligation with AMII

EXTERNAL LINK

http://lab.loman.net/protocols/

ATTACHMENTS

One-pot native barcoding protocol (1).pdf

SAFETY WARNINGS

See SDS (Safety Data Sheet) for safety warnings and hazards.

1 Set up the following AMII adapter ligation reaction:

Component	Volume
End-repaired amplicon pools	⊒ 30 μl
NEBNext Quick Ligation Reaction Buffer (5X)	⊒ 10 μl
Adapter Mix (AMII)	⊒ 5 μl
Quick T4 DNA Ligase	⊒ 5 μl
Total	⊒ 50 μl



There will be some variation in clean-up efficiencies but expect to carry around 80% through a clean-up.

2 Incubate at room temperature for **© 00:20:00**

Citation: Josh Quick (04/09/2020). Adapter ligation with AMII. https://dx.doi.org/10.17504/protocols.io.bdp9i5r6

Add 50 µI (1:1) of SPRI beads to the sample tube and mix gently by either flicking or pipetting.	
	Vortex SPRI beads thoroughly before use to ensure they are well resuspended, the solution should be a homogenous brown colour.
4	Pulse centrifuge to collect all liquid at the bottom of the tube.
6	Incubate for © 00:05:00 at room temperature. Place on magnetic rack and incubate for © 00:02:00 or until the beads have pelleted and the supernatant is completely clear.
7	Carefully remove and discard the supernatant, being careful not to touch the bead pellet.
8	Add 250 µl SFB and resuspend beads completely by pipette mixing.
	SFB will remove excess adapter without damaging the adapter-protein complexes. Do not use 70% ethanol as in early clean-ups.
9	Pulse centrifuge to collect all liquid at the bottom of the tube.
10	Remove supernatant and discard.
11	Repeat steps 14-16 to perform a second SFB wash.
12	Pulse centrifuge and remove any residual SFB.
	You do not need to allow to air dry with SFB washes.
13	Add 15 μl EB and resuspend beads by pipette mixing.
14	Incubate at room temperature for & 00:02:00.
15	Place on magnetic rack.
16	Transfer final library to a new 1.5mL Eppendorf tube.

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