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Feb 20, 2022

Radioactive Labeling with T4 PNK 3' phosphatase minus (M0236) V.2

New England Biolabs¹¹New England Biolabs

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dx.doi.org/10.17504/protocols.io.bd23i8gn**New England Biolabs (NEB)**Tech. support phone: **+1(800)632-7799** email: **info@neb.com****New England Biolabs**
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Radioactive Labeling with T4 Polynucleotide Kinase 3' phosphatase minus.

DOI

dx.doi.org/10.17504/protocols.io.bd23i8gn<https://www.neb.com/protocols/2012/08/24/radioactive-labeling-with-t4-pnk-or-t4-pnk-3-phosphatase-minus>New England Biolabs 2022. Radioactive Labeling with T4 PNK 3' phosphatase minus (M0236). **protocols.io**<https://dx.doi.org/10.17504/protocols.io.bd23i8gn>

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T4PNK Reaction Buffer, radiolabeling, Radioactive , Labeling, T4, PNK, T4 Polynucleotide Kinase

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MATERIALS

[T4 Polynucleotide Kinase \(3' phosphatase minus\) - 200 units](#) **New England****Biolabs Catalog #M0236S**

Please refer to the Safety Data Sheets (SDS) for health and environmental hazard.

1 

Set-up the following reaction:

A	B
Component	Amount
DNA	Up to 50 pmol of 5' termini
T4 PNK Reaction Buffer (10X)	5 µl
ATP (10 mM)	50 pmol of [γ - 32 P] ATP
T4 PNK	2 µl (20 units)
Nuclease-free Water	up to 50 µl

Note: [33 P] ATP may be substituted for [32 P] ATP.

2 

Incubate at \uparrow **37 °C** for \odot **00:30:00**.

3 

Heat inactivate by incubating at \uparrow **65 °C** for \odot **00:20:00**.