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# Radioactive Labeling with T4 PNK (M0201) V.2

New England Biolabs<sup>1</sup><sup>1</sup>New England Biolabs

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[dx.doi.org/10.17504/protocols.io.bgtzjwp6](https://dx.doi.org/10.17504/protocols.io.bgtzjwp6)**New England Biolabs (NEB)**Tech. support phone: +1(800)632-7799 email: [info@neb.com](mailto:info@neb.com)

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Radioactive Labeling with T4 Polynucleotide Kinase.

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**protocols.io**<https://dx.doi.org/10.17504/protocols.io.bgtzjwp6>

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radioactivity, T4PNK Reaction Buffer, labeling radioactivity, radiolabeling

protocol ,

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37465

MATERIALS

[T4 Polynucleotide Kinase - 500 units](#) New England

Biolabs Catalog #M0201S

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 [ $\gamma$ - $^{32}$ 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 .