

Related products

Product	Amount	Cat. no.
Anza™ T4 DNA Ligase Master Mix	50 reactions	IVGN210-4
Anza™ Alkaline Phosphatase Kit	500 reactions	IVGN220-4
Anza™ T4 PNK Kit	50 reactions	IVGN230-4
Anza™ DNA Blunting Kit	100 reactions	IVGN240-4
PureLink™ PCR Purification Kit	50 preps	K3100-01
One Shot™ TOP10 Chemically Competent <i>E. Coli</i>	20 reactions	C4040-03
One Shot™ INV110 Chemically Competent <i>E. Coli</i>	20 reactions	C7171-03

To order additional Anza™ Restriction Enzymes and Anza™ Modifying Cloning Enzymes, go to thermofisher.com/Anza

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S C I E N T I F I C

Anza™ DNA End Repair Kit

Cat. No.	Size	Lot no.	Exp. Date
IVGN250-4	20 reactions		

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Product description

The Invitrogen™ Anza™ DNA End Repair Kit is used to convert DNA with cohesive ends to blunt ended 5'-phosphorylated DNA for blunt end ligation.

The Anza™ DNA End Repair Mix contains T4 DNA polymerase, Klenow Fragment, and T4 PNK.

The Anza™ 10X End Repair Buffer contains ATP and dNTPs to facilitate the activity of the enzyme mix.

Components	Amount
Anza™ DNA End Repair Mix	20 µL
Anza™ 10X End Repair Buffer	100 µL

Storage

Store at -20°C.

For research use only. Not for use in diagnostic procedures.

General guidelines

- PCR products require clean up prior to performing the end repair protocol.
- DNA digested with Anza™ Restriction Enzymes can be used directly in the protocol following heat inactivation.

DNA end repair protocol

Use this protocol to convert DNA with 3' and 5' overhangs to blunt-ended DNA for use in cloning.

1. Prepare a reaction mix by adding the reagents listed in the following table to a clean microcentrifuge tube:

Reagent	Volume
Nuclease-free water	As required to reach final reaction volume
Anza™ 10X End Repair Buffer	2 µL
DNA insert	0.2–1 µg
Anza™ DNA End Repair Mix	1 µL
Final reaction volume	20 µL

2. Mix reagents by pipetting up and down.
3. Incubate at 20°C for 15 minutes.
4. Purify DNA insert from reaction mix using the PureLink™ PCR Purification Kit.
5. Ligate purified insert and vector using the Anza™ T4 DNA Ligase Master Mix.
6. Use 1–5 µL of the ligation reaction mixture to transform competent cells.