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by Thermo Fisher Scientific

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 End Repair Kit	20 reactions	IVGN250-4
PureLink™ PCR Purification Kit	50 preps	K3100-01
One Shot™ TOP10 Chemically Competent *E. Coli*	20 reactions	C4040-03
One Shot™ INV110 Chemically Competent *E. Coli*	20 reactions	C7171-03

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

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Anza™ DNA Blunt End Kit

Cat. No.	Size	Lot no.	Exp. Date
IVGN240-4	100 reactions		

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Product description

The Invitrogen™ Anza™ DNA Blunt End Kit is used to convert DNA with cohesive ends to blunt ended DNA for blunt end ligation.

The Anza™ DNA Blunting Enzyme Mix contains T4 DNA polymerase and Klenow Fragment.

The Anza™ 10X Blunting Buffer contains dNTPs to facilitate the synthesis of blunt ends.

Components	Amount
Anza™ DNA Blunting Enzyme	100 µL
Anza™ 10X Blunting Buffer	200 µL

Storage Store at –20°C.

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

General guidelines

- DNA digested with Anza™ Restriction Enzymes can be used directly in the protocol following heat inactivation.

DNA blunting protocol

Use this protocol to convert sticky-ended DNA to blunt-ended DNA for insertion into a dephosphorylated blunt ended vector.

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 Blunting Buffer	2 µL
DNA insert	0.2–1 µg
Anza™ DNA Blunting Enzyme 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 Purificatin Kit.
5. Ligate insert and vector (dephosphorylated and blunt ended) using the Anza™ T4 DNA Ligase Master Mix.
6. Use 1–5 µL of the ligation reaction mixture to transform competent cells.