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Product	Amount	Cat. no.
Anza™ 11 EcoRI	8000 units	IVGN011-6
Anza™ Alkaline Phosphatase Kit	500 reactions	IVGN220-4
Anza™ T4 PNK Kit	50 reactions	IVGN230-4
Anza™ DNA Blunting Kit	100 reactions	IVGN240-4
Anza™ DNA End Repair Kit	20 reactions	IVGN250-4
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
Select Agar, powder	500 g	30391-023

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Thermofis

S C I E N T I F

Anza™ T4 DNA Ligase Master Mix

Cat. No.	Size	Lot no.	Exp. Date
IVGN210-4	50 reactions		
IVGN210-8	200 reactions		

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Product description

The Invitrogen[™] Anza[™] T4 DNA Ligase Master Mix is a 4X concentrate used to join DNA fragments with sticky or blunt ends, and repair nicks in double-stranded DNA with 3'-hydroxyl and 5'-phosphate ends.

Components	IVGN210-4	IVGN210-8
Anza™ T4 DNA Ligase Master Mix	1 × 250 μL	4 × 250 μL

Storage

Store at -20° C.

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

General guidelines

- Ligation can be performed with either phosphorylated or dephosphorylated DNA insert.
 Note: if using a dephosphorylated DNA insert, the linearized vector needs to be phosphorylated.
- Ligation can be performed with DNA in water, TE, elution buffer, or 1X Anza[™] buffers.
- If using electrocompetent cells, perform column purification of ligated DNA prior to transformation.

DNA ligation protocol

Use this protocol to perform 15-minute ligation of blunt- or sticky-ended DNA into a vector for 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	
Linearized vector DNA	10–100 ng	
DNA insert	3:1 molar excess over vector DNA	
Anza™ T4 DNA Ligase Master Mix	5 μL	
Final reaction volume	20 μL	

- 2. Mix reagents by pipetting up and down, then centrifuge briefly.
- 3. Incubate at room temperature for 15 minutes.
- 4. Use 1–5 μL of the ligation reaction mixture to transform competent cells.

Note: the ligation reaction mixture can be stored at 0–4°C until required for transformation.