

## 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 |
| Anza™ DNA End Repair Kit                             | 20 reactions  | IVGN250-4 |
| One Shot™ INV110 Chemically Competent <i>E. Coli</i> | 20 reactions  | C7171-03  |
| One Shot™ TOP10 Chemically Competent <i>E. Coli</i>  | 20 reactions  | C4040-03  |

To order additional Anza™ Restriction Enzymes, go to [thermofisher.com/Anza](http://thermofisher.com/Anza)

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20 May 2016

**ThermoFisher**  
S C I E N T I F I C

## Anza™ 4 Bpil (10 U/μL)

| Cat. No.  | Size       | Lot no. | Exp. Date |
|-----------|------------|---------|-----------|
| IVGN004-4 | 250 units  |         |           |
| IVGN004-6 | 1200 units |         |           |

Publication No. MAN0014128 Rev. B.0

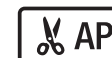
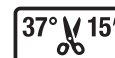
**Bpil restriction site**

5'...G A A G A C (N)<sub>2</sub>...3' ▼  
3'...C T T C T G (N)<sub>6</sub>...5' ▲

| Components           | IVGN004-4 | IVGN004-6 |
|----------------------|-----------|-----------|
| Anza™ 4 Bpil enzyme  | 25 μL     | 120 μL    |
| Anza™ 10X Buffer     | 500 μL    | 500 μL    |
| Anza™ 10X Red Buffer | 500 μL    | 500 μL    |

**Storage**

Store at -20°C.



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

## Protocol

1. Prepare a reaction mix by adding reagents in the order indicated in Table 1.
2. Incubate at 37°C for 15 minutes.

Table 1

| Reagent                                 | 1 enzyme reaction                            | 2 enzyme reaction | 3 enzyme reaction |
|---|--|-------------------|-------------------|
| Nuclease-Free Water                     | As required to make up final reaction volume |                   |                   |
| Anza™ 10X Buffer or Anza 10X Red Buffer | 2 µL   | 2 µL              | 3 µL              |
| DNA                                     | 0.2–1 µg                                     | 0.2–1 µg          | 0.2–1 µg          |
| Anza™ restriction enzyme 1              | 1 µL   | 1 µL              | 1 µL              |
| Anza™ restriction enzyme 2              | —  | 1 µL              | 1 µL              |
| Anza™ restriction enzyme 3              | —  | —                 | 1 µL              |
| <b>Final reaction volume</b>            | <b>20 µL</b>                                 | <b>20 µL</b>      | <b>30 µL</b>      |

Volumes can be scaled up linearly to 5X.

### Product description

Invitrogen™ Anza™ Restriction Enzymes are part of a complete cloning system centered around the proprietary Anza™ Buffer.

Anza™ restriction enzymes require no more than 15 minutes for complete digestion of any DNA substrate, but also permit digestion up to 16 hours without deleterious effects.

All Anza™ restriction enzymes and Anza™ modifying cloning enzymes are fully functional in Anza™ Buffer.

### Anza™ 10X Buffer

Use Anza™ 10X Buffer for applications that require analysis by fluorescence excitation.

Add 1/10 volume of 10X Loading Buffer to samples digested in Anza™ Buffer before performing electrophoresis.

### Anza™ 10X Red Buffer

Anza™ 10X Red Buffer includes a density reagent containing red and yellow tracking dyes.

Load samples digested in Anza™ Red Buffer directly onto a gel for electrophoresis.