pSpark® TA Done

For efficient, stable and easy cloning of PCR fragments with EcoRI and NotI flanking the insertion site

Ordering info:

Cat No.	Size
C0021-S	10 rxn
C0021	20 rxn

Includes for 20 rxn:

- 20 µL pSpark® TA Done (50 ng/µL)
- 20 µL T4 DNA Ligase (5U/Weiss)
- 200 µL T4 DNA Ligase Buffer (5x)
- 5 µL Insert Control 600 bp(30 ng/µL)

Related Products:

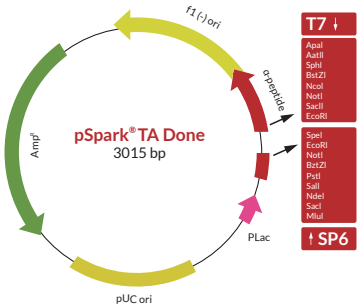
- Horse-Power™ Taq DNA Polymerase (p.102)
- CVX5α™ Chemically Competent cells (p.18)
- CleanEasy™ PCR Purification kit (p.91)
- ITPG (p.19)
- X-Gal (p.19)
- Ampicillin (p.126)
- Horse-Power™ Red-Taq DNA Polymerase (p.107)
- Horse-Power™ Green-Taq DNA Polymerase (p.107)

Description:

pSpark® TA Done is efficient, stable and easy-to-use DNA cloning vector based on an improved TA technology that offers all of the advantages of pSpark® TA with the added convenience of recognition sites for EcoRI and NotI flanking the insertion site. Thus, several options exist to remove the desired insert DNA with a single restriction digestion.

Advantages & Features:

- **Convenient:** recognition sites for EcoRI and NotI flanking the insertion site.
- **Flexible:** allows removing the desired insert DNA with other restriction digestion.
- **Efficient:** >600 white positive colonies expected under optimal conditions.
- **Stable:** without cloning bias due to transcription of toxic genes.
- **Easy-to-use:** eliminate screening of recombinants due to its <4% background.
- **Fast protocol:** ligation time from 60 minutes to overnight.
- **Compatible:** with direct cloning of PCR products.
- **Great versatility:** compatible with any competent cell or primer design.
- **Cost avoidance:** removes primer phosphorylation.



Applications:

- Cloning of non-proofreading PCR fragments.
- Production of ssDNA.
- Blue/white screening for recombinants.
- *In vitro* transcription from T7/SP6 dual-opposed promoters.

Quality control:

- Functional test using a 600 bp PCR fragment.

pMBL-T™ Vector

Efficient, convenient and fast cloning of DNA fragments with A overhangs

Ordering info:

Cat No.	Size
C0030	20 rxn

Includes for 20 rxn:

- 20 µL pMBL-T™ Vector (50 ng/µL)
- 20 µL T4 DNA Ligase (5U/Weiss)
- 100 µL T4 DNA Ligase Buffer (10x)
- 5 µL Insert Control 600 bp (30 ng/µL)

Related Products:

- Horse-Power™ Taq DNA Polymerase (p.103)
- T4 DNA Ligase (p.111)
- CVX5α™ Chemically Competent cells (p.18)
- Horse-Power™ Red-Taq DNA Polymerase (p.107)
- Horse-Power™ Green-Taq DNA Polymerase (p.107)
- CleanEasy™ PCR Purification kit (p.91)
- ITPG (p.19)
- X-Gal (p.19)
- Ampicillin (p.126)

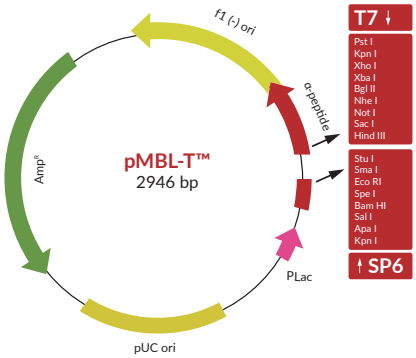
Description:

pMBL-T™ Vector DNA Cloning Kit is an efficient, convenient and fast system for the cloning of PCR products. The vector is prepared by cutting pMBL-T™ vector with EcoRV and adding a 3´ terminal thymidine to both ends. These single 3´-T overhangs at the insertion site greatly improve the efficiency of ligation of a PCR product into the plasmids by preventing recircularization of the vector and providing a compatible overhang for PCR products generated by certain thermostable polymerases such as Horse-Power™ Taq DNA Polymerase.

These polymerases often add a single deoxyadenosine, in a template-independent fashion, to the 3´-ends of the amplified fragments.

Advantages & Features:

- **Highly efficient:** > 90% white colonies in a transformation with supplied insert control.
- **Proven performance:** > 1,000 recombinant colonies in optimal conditions.
- **Fast and easy protocol:** results from 15 min protocol.
- **Optimized:** improve efficiency of ligation of a PCR product into the plasmid.
- **Compatible:** overhang for ligation of PCR products preventing recircularization of the vector.
- **Designed** by cutting the vector with EcoRV and adding a 3´ terminal thymidine to both ends.



Applications:

- Cloning of PCR fragments into DNA.
- Cloning vector.
- Blue/white screening for recombinants.

Quality control:

- Functionally test using 600 bp PCR fragment.