Blunt-end DNA Cloning Kits

pSpark® I

For highly efficient, accurate and robust general cloning from PCR High Fidelity fragments, without the use of toxic genes



Ordering info:

Cat No.	Size
C0001-S	10 rxn
C0001	20 rxn

Includes for 20 rxn:

- · 20 μL pSpark[®] I (20 ng/μL)
- \cdot 20 μL T4 DNA Ligase (5U/Weiss)
- \cdot 200 μ L T4 DNA Ligase Buffer (5x)
- \cdot 150 μ L PEG 6000 (10x)
- · 5 μL Insert Control 1 kb (20 ng/μL)





Related Products:











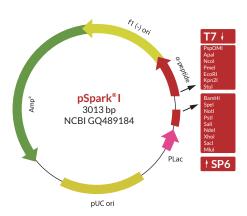
- · FastPANGEA[™] Long PCR DNA Polymerase (p.106)
- · CVX5 α [™] Chemically Competent cells (p.18)
- · Custom cloning services (p.140)
- CleanEasy™ PCR Purification Kit (p.91)
- · PickMutant[™] Site-directed Mutagenesis Kit (p.19)
- · FastPANGEA[™] High Fidelity DNA Pol. (p.105)
- · Ampicillin (p.126)
- · ITPG (p.19)
- · X-Gal (p.19)

pSpark® I is a highly efficient, accurate and easy-to-use DNA cloning system based on a novel breakthrough technology to generate blunt vectors with a highly cloning efficiency.

The vector is prepared by digestion of pSpark® at EcoRV site before treating both ends to prevent vector self-ligation. The end treatment is supported by a exclusive know-how that guarantees a higher cloning efficiency than just dephosphorylated vector.

Advantages & Features:

- ✓ Unprecedented high cloning efficiency:
 - > 2,500 positive colonies expected under optimal conditions.
- ✓ Easy-to-use: eliminate recombinant screening due to its <1% background, avoiding "suicide" strategies from toxic genes.
- ✓ Time-saving protocol: no hidden steps such as phosphorylation, just ligation after PCR and transformation.
- ✓ High stability: eliminates cloning bias or pitfalls.
- ✓ Powerful: clone from < 1 ng/kb, obtain 5x more</p> positive colonies using 10x less DNA insert.
- ✓ Compatible with blue/white screening.
- ✓ Great versatility: compatible with any protocol, proofreading polymerase, competent cells, ligation
- ✓ Sensitive: clone from 50 bp insert to up to 14 kb with just 5ng per kb of insert.
- Eliminates positive selection vector.
- High cost-saving: reduces your cloning costs as no expensive phosphorylated primers are needed.
- ✓ Robust for every DNA size: just 6.7 ng per kb of insert needed for optimal ligation.



Applications:

- General cloning.
- ✓ Cloning of High Fidelity PCR amplified products.
- ✓ Production of ssDNA.
- ✓ Blue/white screening for recombinants.
- ✓ In vitro transcription from T7/SP6 dual-opposed promoters.

Quality control:

✓ Functionally test using 1.0 kb PCR fragment.













