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Circular Polymerase Extension Cloning For

Here, we describe the development of a novel and extremely simple cloning method, circular polymerase extension cloning (CPEC), for complex, combinatorial, or multi-fragment assembly as well as routine cloning. This method uses a single polymerase to assemble and clone multiple inserts with any vector in a one-step reaction in vitro.

Circular polymerase extension cloning.

Here, we describe the development of a novel and extremely simple cloning method, circular polymerase extension cloning (CPEC). This method uses a single polymerase to assemble and clone multiple inserts with any vector in a one-step reaction in vitro. No restriction digestion, ligation, or single-stranded homologous recombination is required.

Circular Polymerase Extension Cloning of Complex Gene ...

In this paper, we provide a protocol for a sequence-independent approach for cloning complex individual or combinatorial DNA libraries, and routine or high-throughput cloning of single or multiple DNA fragments. The strategy, called circular polymerase extension cloning (CPEC), is based on polymerase overlap extension and is therefore free of restriction digestion, ligation or single-stranded homologous recombination.

Circular polymerase extension cloning for high-throughput ...

Here, we describe an extremely simple, efficient, and cost-effective cloning method, circular polymerase extension cloning (CPEC), for complex, combinatorial, or multi-fragment assembly as well as routine cloning. This method uses a single polymerase to assemble and clone multiple inserts with any vector in a one-step reaction in vitro.

Circular Polymerase Extension Cloning | SpringerLink

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Circular Polymerase Extension Cloning of Complex Gene ...

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PROTOCOL Circular polymerase extension cloning for high ...

Circular polymerase extension cloning (CPEC) method, reported to be effective for addition and deletion of protein modules inside plasmids, is used to clone the chimaeric scaffolds.

Circular Polymerase Extension Cloning - ResearchGate

CPEC is a sequence-independent cloning strategy, making it easy to assemble multiple fragments into any vector and carry out complex library preparations (unlike sequence dependent cloning like Gateway or Univector). It is also flexible as to its use unlike traditional cloning or TA cloning that is restricted in application.

CPEC: a Quick and Inexpensive Cloning Strategy

The Polymerase Incomplete Extension method may be used for cloning and mutagenesis experiments. It is an effective method of making initial clones, mutant sequences and truncated genes and was originally designed to microscreen for constructs with high crystallization potential. How does PIPE work?

Polymerase Incomplete Primer Extension (PIPE) Cloning Method

Here, we describe an extremely simple, efficient, and cost-effective cloning method, circular polymerase extension cloning (CPEC), for complex, combinatorial, or multi-fragment assembly as well as routine cloning. This method uses a single polymerase to assemble and clone multiple inserts with any vector in a one-step reaction in vitro.

Circular polymerase extension cloning. - Abstract - Europe PMC

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Circular Polymerase Extension Cloning For High Throughput ...

Linearizing your vector) Digest where you want to put your insert in. (If there is no convenient cut site, then you can also linearize with PCR primers that run AWAY ...

Circular Polymerase Extension Cloning

Ligation independent cloning procedures, such as circular polymerase extension cloning (CPEC), requires fewer steps and enzymes making the procedure more cost-effective and efficient. 1, 2 However, CPEC often results in high vector background because it is difficult to completely purify linearized vector from the original plasmid (see Fig. 1). Screening colonies to identify those with inserts can be a time-consuming, costly, and laborious process.

White and green screening with circular polymerase ...

A brief description of circular polymerase extension cloning, a molecular subcloning technique. References: [https://bitesizebio.com/44113/cpec-a-quick-and-in...](https://bitesizebio.com/44113/cpec-a-quick-and-in-)

Circular Polymerase Extension Cloning (CPEC)

In-Fusion[®] Cloning is a proprietary assembly methodology developed by Clontech. This assembly method uses the same types of DNA starting materials as those used for SLIC/Gibson/CPEC/SLICE (described above), and results in the same final product.

The SLIC, Gibson, CPEC, and SLICE assembly methods (and ...

A: RF cloning (aka overlap extension PCR cloning, or ligation independent cloning) is a PCR-based method for the creation of custom DNA plasmids.

RF Cloning

Ligase-free Cloning is based on generation of inserts with homologous ends to the linearized vector. In a circularization reaction, vector and insert anneal due to their homologous ends. Using a specially selected DNA polymerase, the resulting single-stranded plasmids are recircularized. These plasmids can directly be used for transformation.

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