Flex-C Cloning Kit

UNFOLD NEW POSSIBILITIES

Clone Any PCR Fragment, into Any Vector, at Any Site, in One Day

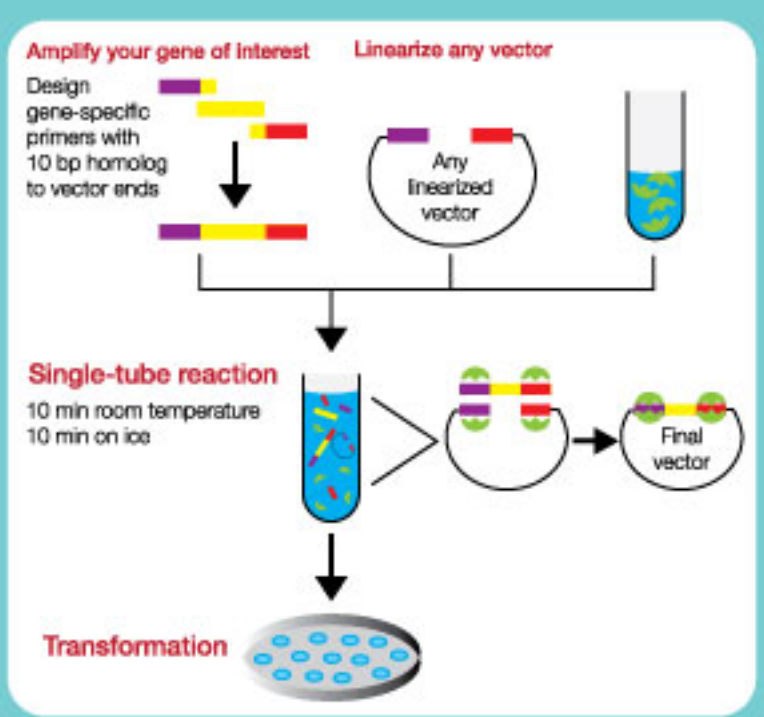
Flex-C Cloning Kit is a high efficient, rapid and easy-to-use PCR cloning kit. The *Flex-C Enzyme* allows direct cloning of any PCR fragments to any linearized expression vector at any site in a single 20-minute reaction.

The application protocol is simple. The PCR fragments can be generated by PCR Polymerases (Taq DNA Polymerase) with primers that are designed to have at least 10 bases of homology at their linear ends. No additional treatment of the PCR fragment is required (such as restriction digestion, ligation, phosphorylation, or blunt-end polishing). The linearized vector can be generated by PCR or restriction enzymes (single or double cut). *Flex-C Enzyme* joins PCR fragments and linearized vectors accurately and efficiently by recognizing the 10bp overlap at their ends.

This method allows cloning multiple fragments into a single vector in a single reaction, without subcloning, create fusion proteins, delete and replace DNA sequence, insert proint mutations **Flex-C Cloning Kit** is highly efficient with 95% insert rate. **Flex-C Cloning Kit** also includes Vivantis Taq DNA Polymerase and reaction buffers as well as dNTP for subsequent PCR screening of clones.

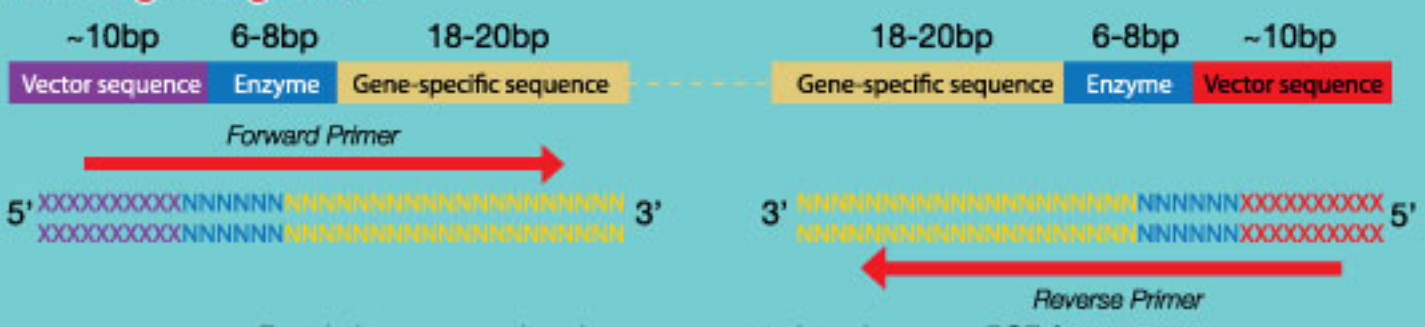
- Clone any insert, at any site within any vector
- Restriction enzyme, phosphatase and ligase free system
- Joining multiple fragments at once
- Broad PCR size up to 10kb
- Good for 5' overhangs, 3' overhangs, blunt end
- Precise insertion at a desired orientation
- High Efficiency with > 95% positive clones
- Multiple applications:
  - adding adaptor, linker and tag before or after the insert
  - mutation generation
  - gene synthesis
- High throughput application

Kit Components:
Flex-C Cloning reagents
500u of Taq DNA Polymerase
0.25ml of 10mM dNTP Mix
1ml of nuclease-free water



Primer Design

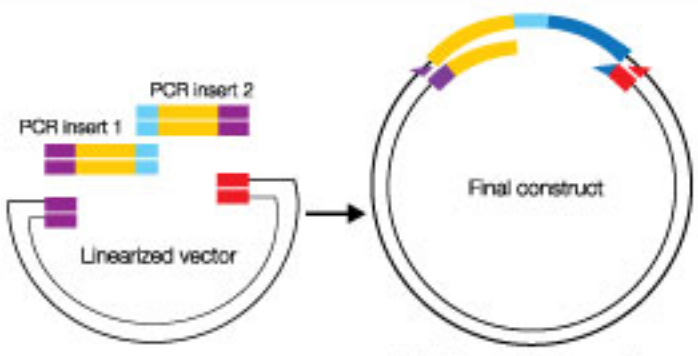
For single fragment



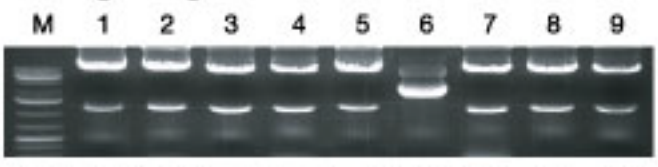
Restriction enzyme site where you want to introduce your PCR fragment

Ordering Information

Catalog No	Description	Pack Size
MELP01	Flexi-Cleave Cloning Kit	20 applications

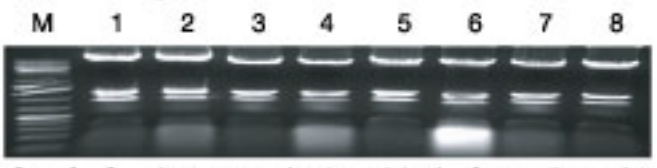


>> Single fragment



8 of 9 clones randomly picked from the plate showing a correct insert

>> Two fragments



8 of 8 clones randomly picked from the plate showing two correct inserts