

CloneEZ® PCR Cloning Kit

No more restriction site headaches

Fast and Easy

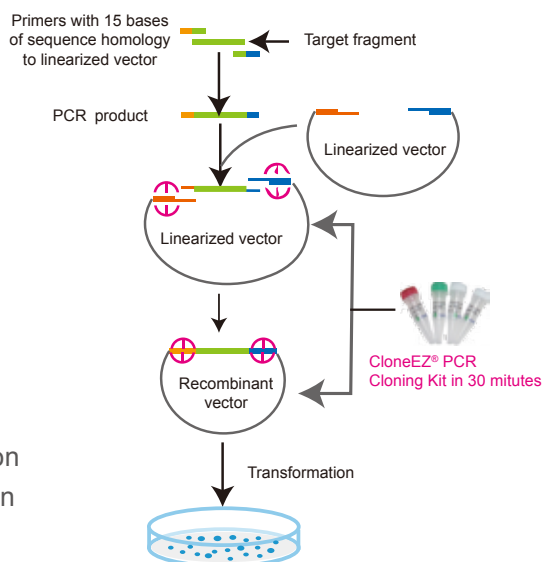
High Efficiency

Universal

Highly Compatible

Are you still using traditional cloning technology? Are you constantly struggling to troubleshoot and repeat subcloning, DNA purification, and ligation? Are you always disappointed with experimental failure due to low cloning efficiency or false positives after you've invested so much time and energy into experimental preparation? GenScript's proprietary CloneEZ® Seamless Cloning Kit offers a straightforward solution to all of your recombinant DNA cloning problems.

CloneEZ® PCR Cloning Kit (Cat. No. L00339) is a cutting-edge, recombinant-based cloning technology that can accurately and efficiently assemble genes and gene fragments in any combination of sequences. With CloneEZ®, precise and directional construction can be completed in 30-minutes at room temperature.



	CloneEZ® Seamless Technology			Classical Cloning
One-step directional cloning	√			<ul style="list-style-type: none"> Restriction digestion Gel extraction Ligation
Restriction enzymes not required	√			X
Ligase not required	√			X
Reaction Time	0.5 hr			>7 hr
High-efficiency cloning of long fragments (15-20 bp recommended)	4 kb	2 kb	1 kb	NA
	93%	95%	100%	

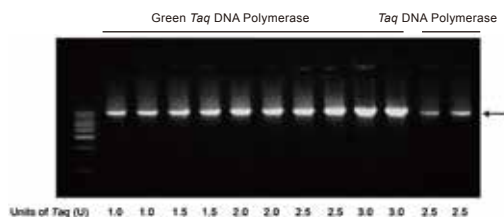
Green *Taq* DNA Polymerase

Environmentally friendly PCR reagents for your success

- Improved specificity and PCR yield
- Stable for 1 month at room temperature or 6 months at 4°C
- Saves energy: No refrigeration required; Eliminates freeze-thaw cycles
- Increased *Taq* Polymerase half-life

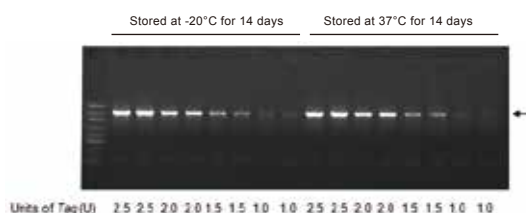
Green *Taq* DNA Polymerase has terminal transferase activity that results in the addition of a single nucleotide (adenosine) at 3'-end of the extension product. This enzyme also has a longer enzyme half-life which increases PCR yields when amplifying long DNA fragments.

Green *Taq* DNA Polymerase exhibits high yield and specificity in the amplification of long fragments.



A 8 kb λDNA fragment was amplified with both *Taq* DNA Polymerase and Green *Taq* DNA Polymerase. For amplification of long DNA fragment, in which longer elongation time is needed (in this case, the elongation time was three minutes).

Green *Taq* DNA Polymerase can be stored at 37°C for 14 days without loss of activity.



A 2 kb 23S rRNA fragment from *E. coli* genomic DNA was amplified using Green *Taq* DNA Polymerase stored at -20°C and 37°C, respectively.

Selection Guides for *Taq* Polymerases and PCR Kits

Products	Cat. No.	Components		
		Classical <i>Taq</i> Polymerase	Green <i>Taq</i> Polymerase	Stabilized dNTP Mix
<i>Taq</i> Polymerase	E00007	√		
Green <i>Taq</i> Polymerase	E00043		√	
High-Stability PCR Kit	L00342		√	√

For more information on PCR & cloning products, visit http://www.genscript.com/pcr_and_cloning.html