

## High Fidelity PCR & Fast Cloning



**2x Phanta Max Master Mix (Vazyme, #P515)**  
**Phanta Max Super Fidelity DNA Polymerase (Vazyme, #P505)**



**ClonExpress Ultra One Step Cloning Kit (Vazyme, #C115)**



**5min TA/Blunt-Zero Cloning Kit (Vazyme, #C601)**

# Phanta Max Super Fidelity DNA Polymerase (#P505 / #P515)

Phanta Max Super-Fidelity DNA Polymerase  
2 x Phanta Max Master Mix

100 U / 500 U / 1000 U  
1 ml / 5 ml / 15 ml

#P505  
#P515

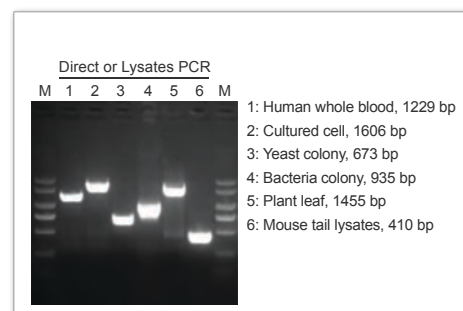
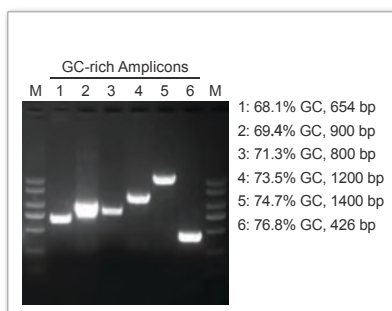
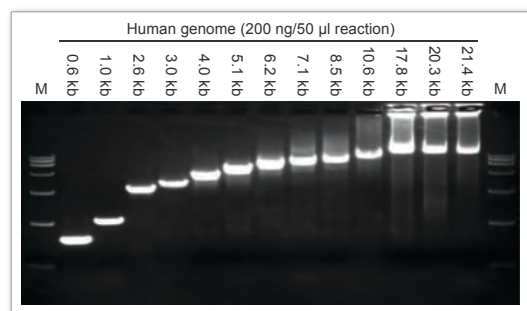
## Fits all your PCR needs.

Phanta Max Super-Fidelity DNA Polymerase (Vazyme, #P505) is optimized from Phanta DNA Polymerase for robust hot-start PCR with super fidelity. The unique extension factor, specificity-promoting factors and plateau-inhibiting factors greatly improve its long-fragment amplification ability, specificity, and PCR yield. 2x Phanta Max Master Mix (Vazyme, #P515) is the ready-to-use format, which contains Phanta Max, dNTP, and an optimized buffer system. Protective reagents in the buffer enable the resistance to repeated freeze-thaw cycles.



- Super Fidelity** Amplification error rate is 53-fold lower than that of *Taq* and 6-fold lower than that of *Pfu*.
- Long Amplicons** Able to amplify long fragments (e.g. 40 kb  $\lambda$  DNA, 40 kb plasmid, 20 kb genomic DNA, and 10 kb cDNA).
- High-GC PCR** Can be used on routine and GC-rich templates.
- Good Resistance to PCR Inhibitors** Suitable for direct-PCR using crude materials as templates (i.e. bacteria, fungi, whole blood, cultured cells, plant or animal tissue lysate, food lysates).

## Superior PCR Performance



Phanta Max exhibits excellent performances in amplifying long fragments and high-GC fragments. It can also be used for effective direct-PCR using crude materials as templates, due to its excellent resistance to PCR inhibitors.

## Selected Product Citations of Phanta Max

*Nature*, 2015, 518(7537):115-9.

*Cell*, 2018, 172(5):1091-107.

*Molecular Cell*, 2017, 65(6):1029-43.

*Nature Chemical Biology*, 2015, 11(4):259-65.

*JACS*, 2016, 138(20):6427-35.

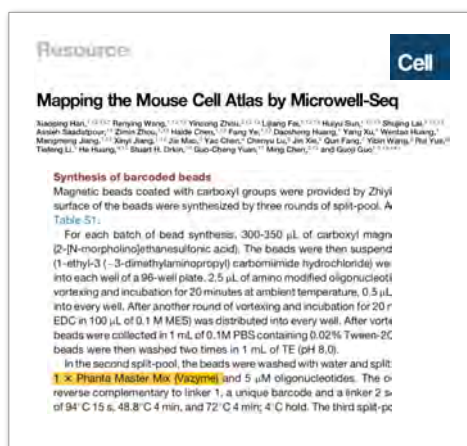
*Nature Communications*, 2018, 9(1):4879.

*Nature Communications*, 2017, 8(1):1485.

*Angewandte Chemie*, 2016, 55(39):11845-8.

*Angewandte Chemie*, 2015, 54(31):9021-4.

*Genes & Development*, 2016, 30(15):1718-30.



# ClonExpress Ultra One Step Cloning Kit (#C115)

ClonExpress Ultra One Step Cloning Kit

25 rxn / 50 rxn

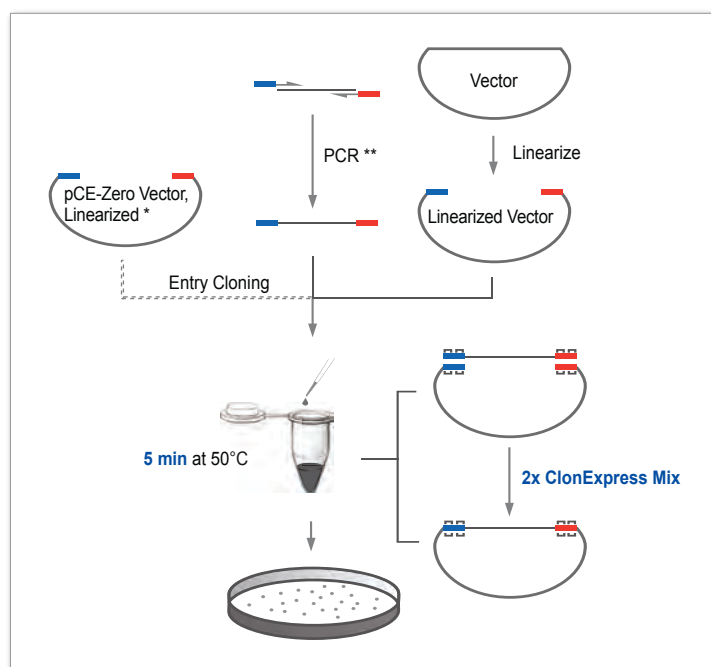
#C115

## Seamless cloning at will!

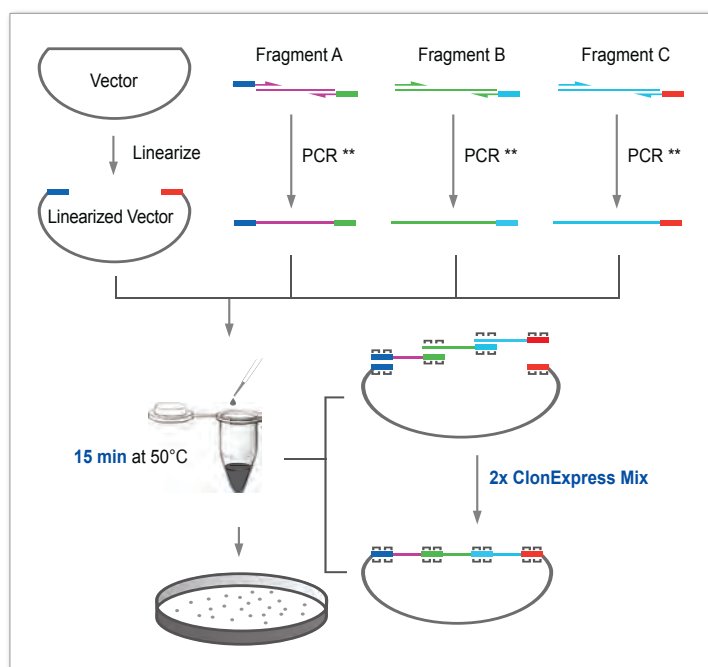
ClonExpress Ultra One Step Cloning (Vazyme, #C115) is a novel kit for fast cloning, which is designed for homologous cloning or assembly of 1 - 5 fragments. The enhanced recombinase Exnase and highly optimized buffer in 2x ClonExpress Mix ensures excellent efficiency and high tolerance to impurities.

- **Super Fast** Cloning of 1 fragment within 5 min.
- **Simple** Ready-to-use super mix in one tube.
- **High Efficiency** Efficient cloning of fragments of 50 bp-10 kb with a Positive Clone Rate > 95%.
- **Versatile** Suitable for cloning of 1 fragment, assembly of 2 - 5 fragments, and entry cloning.
- **No Background** Independent of DNA ligase, significantly reducing self-ligated colonies.

### Cloning of 1 Fragment



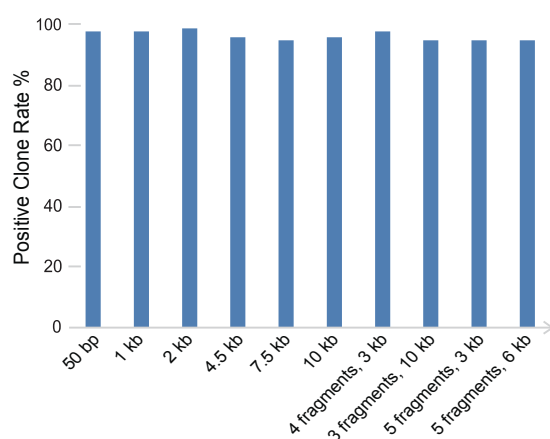
### Assembly of 2 - 5 Fragments



\* pCE-Zero Vector, Linearized, is supplied with ClonExpress Ultra One Step Cloning Kit (Vazyme, #C115).

\*\* It is highly recommended to use Vazyme's APP - "CE Design" - for easy primer design.

### Excellent Cloning Efficiency



Single fragments and multiple fragments were cloned or assembled to pCE-Zero Vector using ClonExpress Ultra One Step Cloning Kit (Vazyme, #C115), respectively. After transformation to DH5α, 50 colonies were randomly picked for colony PCR to evaluate the Positive Clone Rate.



# 5min TA/Blunt-Zero Cloning Kit (#C601)

5min TA/Blunt-Zero Cloning Kit

25 rxn / 50 rxn

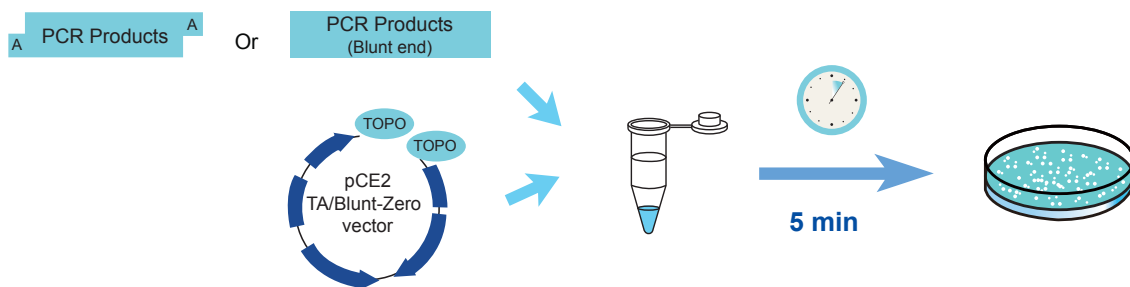
#C601

## Easiest cloning ever!

5min TA/Blunt-Zero Cloning Kit (Vazyme, #C601) is an amazing kit for TOPO cloning.

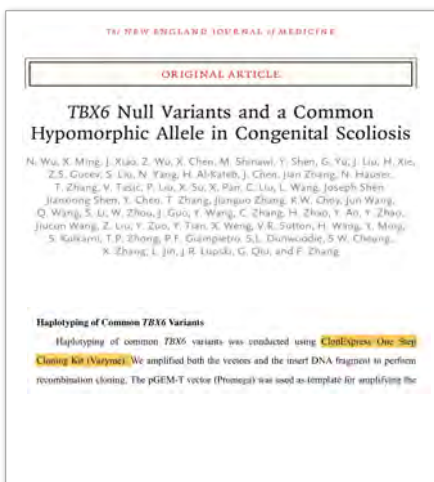
- **Fast** Cloning within 5 min.
- **Versatile** Suitable for both TA cloning and blunt-end cloning.
- **Simple** Ready-to-use super mix in one tube.
- **Efficient** Positive Clone Rate > 95%.

### Workflow Overview



## Selected Product Citations of Vazyme's Fast Cloning Kits

- N Engl J Med*, 2015, 372(4):341-50.  
*Nature*, 2015, 527(7576):64-9.  
*Nature Biotechnology*, 2018, 36(4):324-7.  
*Nature Biotechnology*, 2018, (36):950-3.  
*Nature Biotechnology*, 2018, (36):946-9.  
*Nature Biotechnology*, 2018, (36):1160-3.  
*Cell*, 2014, 159(1):134-7.  
*Cell*, 2017, 169(4):664-78.  
*Immunity*, 2015, 42(2):309-20.  
*Nature Cell Biology*, 2018, 20(11):1315-25.  
*Neuron*, 2016, 89(6):1248-63.  
*Molecular Cell*, 2017, 67(2):214-27.  
*Nature Chemical Biology*, 2016, 12(4):226-32.  
*Nature Chemical Biology*, 2015, 11(4):259-65.  
*Genome biology*, 2018, 19(1):197.  
*Nature Communications*, 2017, 8(1):1649.  
*Nature Communications*, 2017, 8(1):2051.  
*Nature Communications*, 2016, 7:12433.  
*Autophagy*, 2018, 14(9):1543-61.  
*The EMBO Journal*, 2018, 37(19):e98770.



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