



FX cloning Kit

Description: The FX cloning system (fragment exchange cloning) is an efficient, inexpensive cloning method that utilizes a Type IIS restriction enzyme and negative selection markers. This system is suitable for both prokaryotic and eukaryotic expression systems and combines the advantages of established recombination- and ligation-independent cloning methods, while reducing undesired cloning-related sequences added in the process. The kit includes a set of three initial cloning vectors and expression vectors for *E. coli*, *L. lactis*, *P. pastoris*, *S. cerevisiae*, mammalian, *Xenopus* oocyte and insect, which contain several combinations of 3C protease-cleavable N-terminal and C-terminal tags.

More information can be found at:

<http://www.addgene.org/fxcloning/>

Reference: A versatile and efficient high-throughput cloning tool for structural biology. Geertsma ER and Dutzler R. *Biochemistry*. 2011 Apr 19;50(15):3272-8. doi: 10.1021/bi200178z

Handling and Storage: Store glycerol stocks at -80°C and minimize freeze-thaw cycles. To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

Note: These plasmid constructs are being distributed to non-profit institutions for the purpose of basic research.

Please contact Addgene at help@addgene.org with any questions.

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Plate Map

	1	2	3	4	5	6	7	8	9	10	11	12
A	pBXNH3	pBXC3H	pBXNH3CA	pBXC3GH	pBXCA3GH	pBXCA3H	pBXNAC3GH	pBXNAC3H	pBXNH3A	pREXC3GH	pREXC3H	pREXNH3
B	pYEXNH3	pYEXNHG3	pYEXC3H	pYEXC3GH	pcDXNSM3	pcDXNSMG3	pcDXC3MS	pcDXC3GMS	pTLNX	pTLNXA7	pFBXNH3	pFBXC3H
C	pFBXC3GH	pICXNH3	pICXNHG3	pICXC3H	pICXC3GH	p7XNH3	p7XC3H	p7XC3GH	pINIT_kan	pINIT_tet	pINIT_cat	
D												
E												
F												
G												
H												

Instructions: To access a plasmid, keep the plate on dry ice to prevent thawing. Using a sterile pipette tip, puncture the seal above an individual well and spread a portion of the glycerol stock onto an agar plate. To patch the hole, use sterile tape or a portion of a fresh aluminum seal.

Please visit <http://www.addgene.org/cloning/FXcloning/geertsma/plate1/> for a list of the appropriate antibiotics for each plasmid.

How to Cite your Addgene Plasmids in Future Publications (Save for reference)

These plasmids were created by your colleagues. Please acknowledge the Principal Investigator, cite the article in which they were created, and include Addgene in the Materials and Methods of your future publications.

Information pertinent to your requested plasmids:

Principal Investigator: Eric Geertsma

Article Reference: **A versatile and efficient high-throughput cloning tool for structural biology.** Geertsma ER and Dutzler R. *Biochemistry*. 2011 Apr 19;50(15):3272-8. doi: 10.1021/bi200178z (PubMed ID: 21410291)

Addgene: FX cloning Kit

If you have any questions about how to cite these plasmids, please contact Addgene at help@addgene.org or call (617) 225-9000.

Best wishes for many successful publications!

