Multiplex CRISPR/Cas9 Assembly System Kit

Description: The Multiplex CRISPR/Cas9 Assembly System Kit enables construction of all-in-one CRISPR vectors for genome engineering expressing multiple gRNAs (2-7) and a Cas9 nuclease or Cas9-D10A nickase. Multiple gRNA cassettes are assembled using BsaI-mediated Golden Gate cloning method.

More information can be found at:
http://www.addgene.org/crispr/yamamoto/multiplex-crispr-kit/

Reference: **Multiplex genome engineering in human cells using all-in-one CRISPR/Cas9 vector system.** Sakuma T, Nishikawa A, Kume S, Chayama K, Yamamoto T. *Sci Rep*. 2014 Jun 23;4:5400. doi: 10.1038/srep05400. PubMed ID: 24954249

Handling and Storage: Store glycerol stocks at -80ºC 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	pX330A-1x2	pX330A-1x3	pX330A-1x4	pX330A-1x5	pX330A-1x6	pX330A-1x7	pX330A_D10A-1x2	pX330A_D10A-1x3	pX330A_D10A-1x4	pX330A_D10A-1x5	pX330A_D10A-1x6	pX330A_D10A-1x7
B	pX330S-2	pX330S-3	pX330S-4	pX330S-5	pX330S-6	pX330S-7						
C												
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/crispr/yamamoto/multiplex-crispr-kit/Plate1/ for a list of the appropriate antibiotics for each plasmid.

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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: Takashi Yamamoto

Article Reference: **Multiplex genome engineering in human cells using all-in-one CRISPR/Cas9 vector system.** Sakuma T, Nishikawa A, Kume S, Chayama K, Yamamoto T. *Sci Rep*. 2014 Jun 23;4:5400. doi: 10.1038/srep05400 (PubMed ID: 24954249)

Addgene: Multiplex CRISPR/Cas9 Assembly System 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!

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