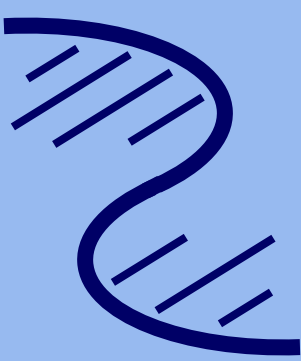




# Multiplex CRISPR/Cas9 Assembly System Kit

**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 -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](mailto:help@addgene.org) with any questions.

# Multiplex CRISPR/Cas9 Assembly System Kit

## 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.

## 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](mailto:help@addgene.org) or call (617) 225-9000.

Best wishes for many successful publications!

