



# GreenGate Cloning Kit

**Description:** GreenGate is a simple and efficient cloning system for rapidly assembling plant transformation constructs. It is based on the Golden Gate cloning method. Using the type IIS restriction endonuclease BsaI and T4 DNA ligase, ready-to-use plant transformation vectors are built from six types of pre-cloned insert modules and a destination vector in a one-pot reaction.

More information can be found at:

<http://www.addgene.org/cloning/greengate/lohmann>

**Reference:** GreenGate - A Novel, Versatile, and Efficient Cloning System for Plant Transgenesis. Lampropoulos A, Sutikovic Z, Wenzl C, Maegele I, Lohmann JU, Forner J. PLoS One. 2013 Dec 20;8(12):e83043. doi: 10.1371/journal.pone.0083043

**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.

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## Plate Map

	1	2	3	4	5	6	7	8	9	10	11	12
A	pGGA002	pGGA003	pGGA004	pGGA006	pGGA008	pGGA012	pGGB001	pGGB002	pGGB003	pGGB005	pGGB006	pGGC001
B	pGGC011	pGGC012	pGGC014	pGGC015	pGGC024	pGGC025	pGGC026	pGGC051	pGGD001	pGGD002	pGGD003	pGGD006
C	pGGD007	pGGD008	pGGE001	pGGE002	pGGE009	pGGF001	pGGF002	pGGF003	pGGF004	pGGF005	pGGF007	pGGF008
D	pGGF012	pGGG001	pGGG002	pGGD005	pGGE003	pGGE005	pGGA000	pGGB000	pGGC000	pGGD000	pGGE000	pGGF000
E	pGGH000	pGGI000	pGGY003	pGGY001	pGGM000	pGGN000	pGGZ001	pGGZ003				
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/greengate/lohmann/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:* Jan Lohmann

*Article Reference:* **GreenGate - A Novel, Versatile, and Efficient Cloning System for Plant Transgenesis.** Lampropoulos A, Sutikovic Z, Wenzl C, Maegele I, Lohmann JU, Forner J. PLoS One. 2013 Dec 20;8(12):e83043. doi: 10.1371/journal.pone.0083043 (PubMed ID: 24376629)

*Addgene:* GreenGate Cloning 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!

