

Product Name/Description: DNA Ligation Kit Ver.2.1
Cat. #: 6022
Lot #: Specified on product label
Storage Conditions: -20 degrees C
Expiration Date: Specified on product label or package

Package Size: 1 Kit

Package Contents:	1. Solution I	250 µl	x 3
	2. Solution II	750 µl	
	3. Solution III	200 µl	

Product Documents: Documents for Takara Bio products are available for download at www.takara-bio.com

Quality Control Data:

This product was tested with the following cloning reactions according to the User Manual.

Blunt-end ligation test:

A 15 µl ligation reaction mixture was prepared with 50 ng (25 fmol) of Hinc II-digested pUC118 vector (BAP-treated) (Cat.# 3322), 25 ng (75 fmol) of 500 bp Hinc II-digested DNA fragment, and 7.5µl of Enzyme Solution of this product. After incubation of the mixture at 16°C, E. coli JM109 competent cells (Cat.# 9052, $\geq 1.0E+08$ cfu/µg pUC19) were transformed with a portion of the mixture, and were plated on LB-Amp plates including X-Gal and IPTG, then the plates were incubated at 37°C. The transformation efficiency for white colonies was more than $1.0E+06$ cfu/µg vector.

TA cloning test:

A 10 µl ligation reaction mixture was prepared with 50 ng (28 fmol) of T-Vector pMD20 (Cat.# 3270), 14 ng (42 fmol) of DNA fragment (500 bp), and 5µl of Enzyme Solution of this product. After incubation of the mixture at 16°C, E. coli JM109 competent cells (Cat.# 9052, $\geq 1.0E+08$ cfu/µg pUC19) were transformed with a portion of the mixture, and were plated on LB-Amp plates including X-Gal and IPTG, then the plates were incubated at 37°C. The transformation efficiency for the white colonies was more than $2.0E+06$ cfu/µg vector.

It is certified that this product meets above specifications.

Manager, Quality Assurance
TAKARA BIO INC.

Safety Information :

Please refer to our website for safety information :

<http://www.takara-bio.com>

Notice To Purchaser :

This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

Also, do not use this product as food, cosmetic, or household item, etc.

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