

Certificate of Analysis



PRODUCT: *FlyCut*[®] PvuI

CAT. NO.
JP201

AMOUNT
2*250 units

LOT NUMBER
O11113

SHELF LIFE
Two years

STORAGE CONDITIONS
at -20 °C for two years

SHIPPING CONDITIONS
Dry ice(-70 °C)

DESCRIPTION

FlyCut[®] PvuI is expressed and purified from E.coli that carries the recombinant PvuI gene. The molecular weight is 30.8 kDa, with the recognition site at CGAT[^]CG. The reaction is conducted for 5-15 minutes at 37°C, and heat-inactivated at 80°C for 20 minutes. This enzyme is not sensitive to dam, dcm, but sensitive to mammalian CpG methylation.

Kit Contents

Component	JP201-01	JP201-02
<i>FlyCut</i> [®] PvuI	250 units	2×250 units
10× <i>FlyCut</i> [®] Buffer	250 µl	250 µl
10×DNA Loading Buffer	1 ml	1 ml

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QUALITY CONTROL DATA

Assay	Standard	Result
Appearance	The liquid should be clear and free of precipitates or floccules.	Met standards
16 hours Incubation	In a 50 μ l reaction system, 10 units of enzyme are incubated with 1 μ g DNA for 16 hours. The result is comparable with that of 1-hour incubation with 1 unit of enzyme.	Met standards
Ligation and Recutting	Digested with a 10-fold excess of endonuclease, more than 95% of the DNA fragments can be ligated with T4 DNA ligase at 25 $^{\circ}$ C, and 95% of the ligated fragments can be recut.	Met standards
Terminal Integrity	The linearized plasmid containing the LacZ α gene (the only site) is religated and transformed on a plate coated with X-gal/IPTG. The successful expression of β -galactosidase is the criterion for detecting the integrity of the gene after cloning. Blue colonies indicate the integrity of the gene, while white colonies which indicate the gene is damaged must be less than 3% of the total number of colonies.	Met standards
Endonuclease Activity	In a 50 μ l reaction system, incubation of 15 units of enzyme with 1 μ g of pBR322 DNA at 37 $^{\circ}$ C for 4 hours results in no more than 10% from RFI to RFII.	Met standards



Notice to Purchaser

All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses. If you have any further questions about this Certificate of Analysis, please contact us at +86-10-57815027 or +86-400-898-0321.

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A handwritten signature in black ink that reads "Heng Zheng".

Manager, Quality Control Department

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