

pKG-cJun(1-79)

Catalog# P6050
Lot# 171021

Materials Provided

1. pKG-cJun (1-79) plasmid: 20µg in 40µl TE (pH7.5), 0.5µg/µl.
2. Product Information Sheet.

Receiving and Storage:

Upon receiving, spin the vials briefly in a microcentrifuge to collect the contents. Store the products at 2-8°C if used immediately and store at -20°C for extended storage.

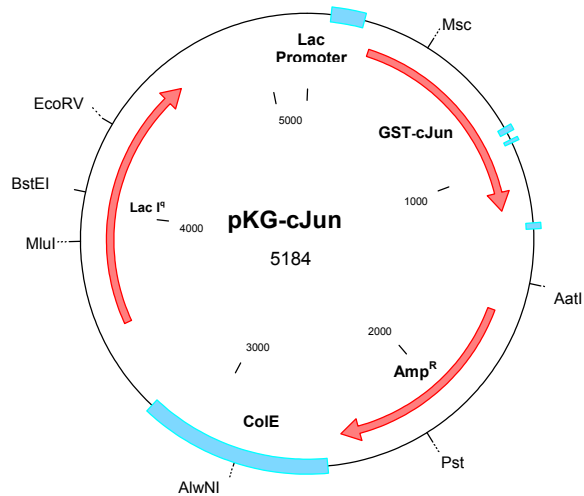
Prokaryotic selection:

Amp^r (1592-2572): Ampicillin resistance gene confers Ampicillin resistance in bacteria.

Other Features:

Name	Start	End
Lac Promoter	88	211
GST-cJun	258	1175
Thrombin Cleavage Site	918	930
Amp ^r (beta-lactamase)	1592	2450
ColE1	2517	3213
Lac I ^r	3533	4613

Circular Map of pKG-cJun (1-79):



Sequence of c-Jun (1-79)

(The coding sequence of c-Jun 1-79 is underlined)

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5' - (921) GTTCGCGTGGATCC
CAGACTGCAA AGATGGAAC GACCTTCTAT GACGATGCC
TCAACGCCTC GTTCTCCCG TCCGAGAGCG GACCTTATGG
CTACAGTAAC CCCAAGATCC TGAACAGAG CATGACCTG
AACCTGGCCG ACCCAGTGGG GAGCCTGAAG CCGCACCTCC
GCGCCAAGAA CTCGGACCTC CTCACCTCG CCGACGTGGG
GCTGCTCAAG CTGGCGTCG CCGAGCTGGA GCGCCTGTA
GAATTCATCGTGACT (1190) -3'
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Application: pKG-cJun(1-79) expresses a fusion protein consisting of GST and human c-Jun amino acid residues 1-79 upon IPTG induction in an appropriate *E. coli* strain, such as DH5α, BL21, TG1, JM109, XL1-Blue.

Transformation of *E. coli*: Use 1µl of the provided plasmid to transform 50-100µl of competent *E. coli* cells such as DH5-α, JM109 or XL1-Blue. Plate the transformants onto a LB Agar plate containing 50-100µg/ml Ampicillin (Biomyx Cat# LA-1100, LA-2100). After overnight incubation in a 37°C incubator, colonies should be visible on the plate.

Induction of GST-cJun Expression:

1. Pick up a single colony and grow up in 10ml of LB plus 50-100 µg/ml ampicillin liquid medium in a 37°C shaker.
2. Inoculate 1L of LB+50µg/ml of ampicillin in a 2L flask with the 10ml of overnight culture (ONC) in step 1 and grow in the 37°C shaking incubator.
3. When the OD₆₀₀ of the culture reaches 0.6, add 0.2 ml of IPTG stock solution (1.0 M) into the flask and continue shaking at 37°C for 4 hr.
4. Harvest the cells by centrifugation at 5000 rpm for 5 min.
5. The cell pellet can be used immediately for purification of GST-cJun protein. Or it can be frozen at a -80°C for later use.

Related Products

Human GST-cJun, recombinant fusion protein:
 Cat# J1100S, J1100L

References:

c-Jun:

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GST fusion Vectors:

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Signal transduction and JNK assay:

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 Derijard B. et al, 1994, *Cell*, 76: 1025-1037
 Derijard B. et al, 1995, *Science*, 267: 682-685
 Hibi M., et al., 1993, *Gene Dev*, 7: 2135-2148
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