

pJNC-eKAZ	
Cat. No.	P-107
Gene/Insert name:	Enhanced 19 kDa protein of <i>Oplophorus</i> luciferase (eKAZ)
Vector backbone:	pCMV-JNC
Vector type:	Mammalian cells
Backbone size w/o insert (bp):	5,363
Bacterial resistance:	Ampicillin and neomycin
Growth strain:	JM83
Growth temperature (°C):	37
Growth instructions:	pJNC-eKAZ is resistant to ampicillin and neomycin
High or low copy:	High copy
Vector map:	pJNC-eKAZ
Coding sequence:	Nucleotide sequence & Amino acid sequence
Plasmid sequence:	pJNC-eKAZ (5,883 bp)
Restriction enzyme list:	Restriction enzyme sites of pJNC-eKAZ
GenBank Accession No.:	—
Size:	10 µg
Constituents:	10 mM Tris-HCl (pH 7.6) — 1 mM EDTA
Terms and Licenses:	MTA
Laboratory Reagent For Research Use Only	

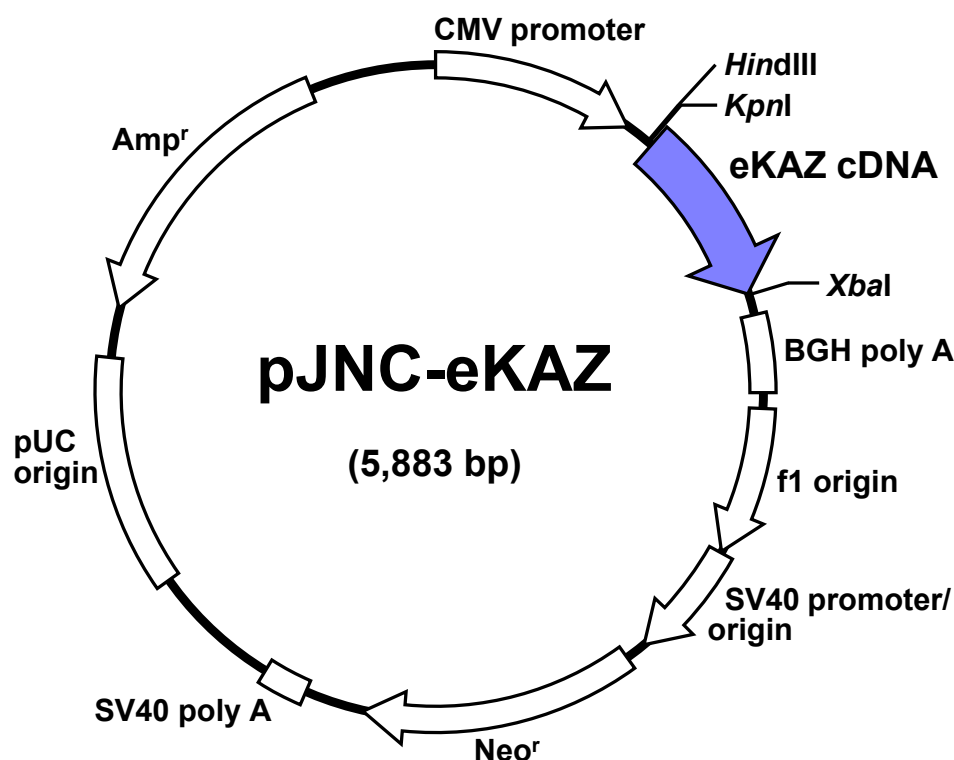
Mammalian expression vector: Enhanced 19 kDa Protein of *Oplophorus* Luciferase

Cat. No. P-107

Name: pJNC-eKAZ

Insert: Enhanced 19 kDa protein of *Oplophorus* luciferase cDNA
(eKAZ: Three mutations of KAZ)

Vector: pCMV-JNC



• **Feature for pJNC-eKAZ:**

Residue	Source	Comments
1-669	1-669	pCMV-JNC backbone
1-588	1-588	CMV promoter
632-651	632-651	T7 promoter
673-1,185	1-513	eKAZ ORF
1,190-5,883	752-5,445	pCMV-JNC backbone
1,206-1,223	768-785	Sp6 promoter
1,249-1,473	811-1,035	BGH polyadenylation sequence
1,519-1,947	1,081-1,509	f1 origin
1,952-2,295	1,514-1,857	SV40 early promoter and origin
2,357-3,151	1,919-2,713	Neomycin resistance gene (ORF)
3,325-3,455	2,887-3,017	SV40 early polyadenylation signal
3,838-4,511	3,400-4,073	pUC origin
4,656-5,516	4,218-5,078	Ampicillin resistance gene (ORF)

Ref.

1) Inouye, S. *et al. FEBS Lett.* (2000) 481: 19-25.

2) Inouye, S. *et al. Biochem. Biophys. Res. Commun.* (2014) 445: 157-162.

Gene coding region (ORF: Enhanced 19 kDa protein/eKAZ)**Nucleotide sequence**

AAGCTTGGTACCACC**ATGGTCTTTACGTTGGCAGATTTCTGTTGGAGACTGGCAACAGACAGCTGGATACA**
ACCAAGATCAAGTGTTAGAACAAAGGAGGATTGTCTAGTCTGTTCCAAGCCCTGGGAGTGTCAAGTACGCGC
CATACAGAAAATAGTACTGTCTGGGGAGAATGGGTAAAAATCGATATTCATGTCATAATACCTTACGAG
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GAGTCACGGGATGGAGGCTTTGCGAGAACATTCTTGCCTAATTCTAGA

Amino acid sequence

MVFTLADFGDWQQTAGYNQDQVLEQGGGLSSLFQALGVSVTPIQKIVLSGENGLKIDIHVIIPYEGLSGF
QMGLIEMIFKVVPVDDHHFKIILHYGTLVIDGVTPNMIDYFGRPYPGIAVFDGKQITVTGTLWNGNKI
DERLINPDGSLLFRVTINGVTGWRLCENILA*

pJNC-eKAZ (5,883 bp)

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CGC

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3,838-4,511	3,400-4,073	pUC origin
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Restriction enzyme sites of pJNC-eKAZ

Enzyme Name	Sequence	Count	Cutting Positions
AccI	GT!MKAC	3	3457, 3464, 5652
ApaI	GGGCC!C	1	1201
Asp718I	G!GTACC	1	665
BamHI	G!GATCC	0	-
BclI	T!GATCA	3	931, 1237, 2327
BglII	A!GATCT	1	5665
EcoRI	G!AATTC	0	-
EcoRV	GAT!ATC	0	-
HincII	GTY!RAC	3	4, 3465, 5653
HindIII	A!AGCTT	1	659
KpnI	GGTAC!C	1	669
MluI	A!CGCGT	0	-
NcoI	C!CATGG	4	380, 672, 2183, 2918
NdeI	CA!TATG	1	254
NheI	G!CTAGC	0	-
NotI	GC!GGCCGC	0	-
PstI	CTGCA!G	1	2539
SacI	GAGCT!C	2	588, 1233
SalI	G!TCGAC	2	3463, 5651
ScaI	AGT!ACT	2	813, 5210
SmaI	CCC!GGG	1	2299
StuI	AGG!CCT	1	2275
XbaI	T!CTAGA	1	1191
XhoI	C!TCGAG	0	-

Supplier	Contact us
JNC CORPORATION Shin Otemachi Bldg. 9F 2-2-1 Otemachi, Chiyoda-ku, Tokyo 100-8105 URL http://www.jnc-corp.co.jp	JNC Corporation, Yokohama Research Center 5-1 Okawa, Kanazawa-ku, Yokohama, Japan 236-8605 Tel: 045-786-5501 Fax: 045-786-5511 E-mail: jphoton@jnc-corp.co.jp