

# PLASMID MAP for Ca<sub>v</sub>2.2e<sup>[a10, 18a, Δ24a, 31a, 37b, 46]</sup>

SPECIES: Rat (P5)

TISSUE: Superior cervical ganglia

ISOLATION METHOD: cDNA library screen

ISOLATED BY: Zhixin Lin (1996), Jennifer Pan added 18a (1999).

INSERT SIZE: ~ 7.39 kb

SEQUENCES: GENBANK # AF055477 and AF222337

[Click here for AF055477 sequence information.](#)

[Click here for AF222337 sequence information.](#)

VECTOR: pcDNA6/V5-His A - Invitrogen

ORIENTATION: T7

LINEARIZE FOR RNA: EcoRV

LINEARIZE FOR STABLE LINES: SspI

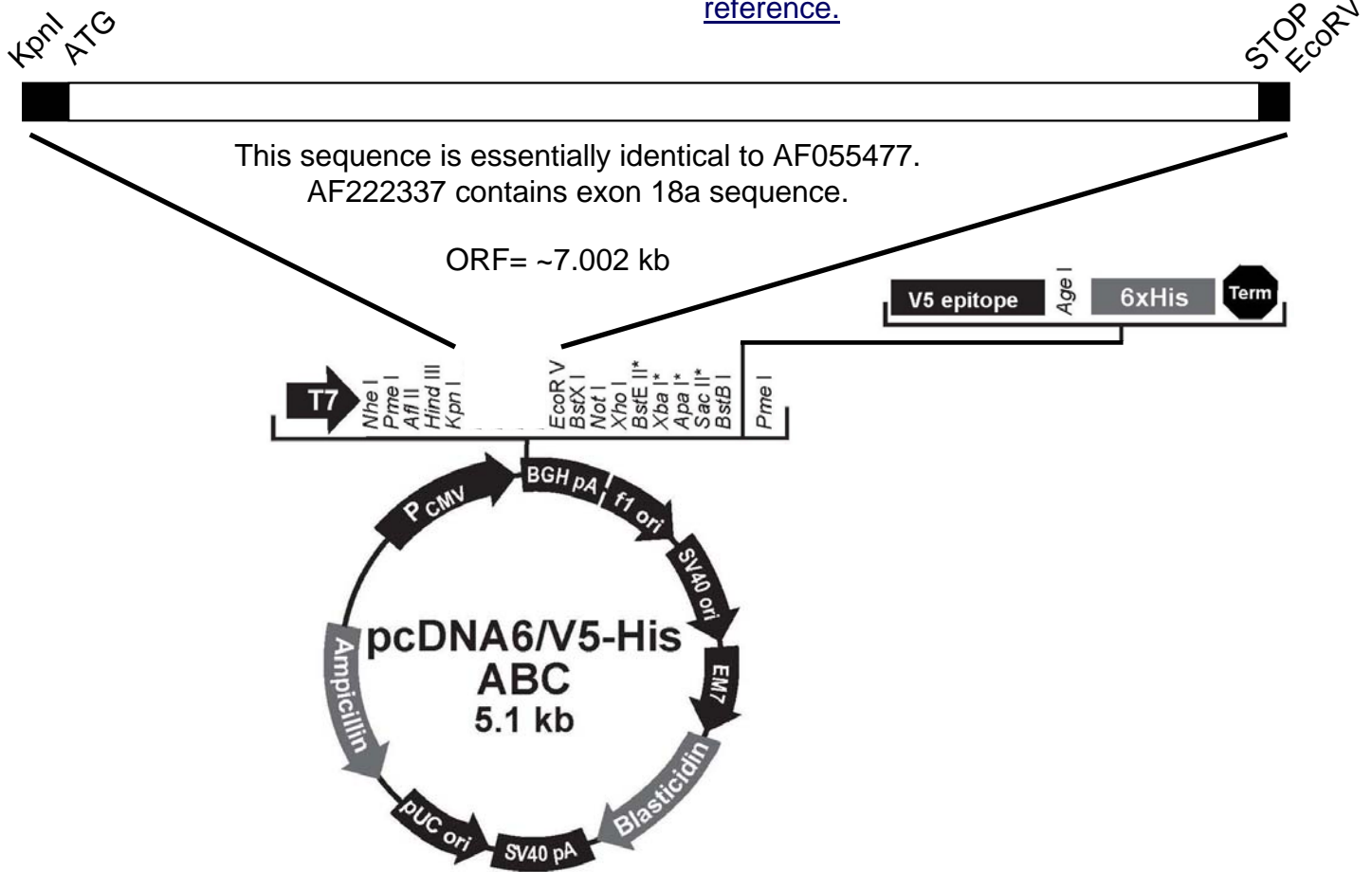
EXCISION: KpnI/EcoRV

SPECIAL/MISC: Transformation: TOP10F'

REFERENCES: Lin et al, (1997) Neuron 18:153-166 and Pan and Lipscombe, (2000) J. Neurosci 20:4769-4775.

[Click here for Neuron reference.](#)

[Click here for Journal of Neuroscience reference.](#)



## Comments for pcDNA6/V5-His A 5144 nucleotides

CMV promoter: bases 209-863  
T7 promoter priming site: bases 863-882  
Multiple cloning site: bases 895-1008  
V5 epitope: bases 1009-1050  
Polyhistidine tag: bases 1060-1077  
BGH reverse priming site: bases 1100-1117  
BGH polyadenylation sequence: bases 1103-1330  
f1 origin: bases 1376-1804  
SV40 promoter and origin: bases 1832-2139  
EM7 promoter: bases 2187-2242  
Blasticidin resistance gene (ORF): bases 2261-2659  
SV40 early polyadenylation sequence: bases 2817-2947  
pUC origin: bases 3330-4003  
Ampicillin resistance gene (ORF): bases 4148-5008

\* Frame-dependent variations.  
Sac II is only found in version B.  
BstE II is only found in version C. In addition, there are no Xba I or Apa I sites in version C.

CONTACT: Diane Lipscombe  
[Diane\\_Lipscombe@brown.edu](mailto:Diane_Lipscombe@brown.edu)  
[Lipscombe Lab home page](#)