

Product datasheet for **RR206951**

Cacng1 (NM_019255) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacng1 (NM_019255) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacng1
Synonyms:	Cacng
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206951 representing NM_019255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCACAGACAAAACAGCGAAGGTTTCGCGTGACCCTCTTCTTCATCCTGGCGGTGGAGTGCTCGCCA
TGGTGGCCGTGGTGACCGACCACTGGGCCGTGCTGAGTCCACACCTGGAGCACCACAATGAGACGTGCGT
GGCAGCCCACTTCGGCCTTTGGAGGATCTGCACCACTTGGGTTGCCATGCACAACCAAGACAAGAAGTGT
GACGGCACCATACCAGCGGGGAAAAGAATTGCTCCTACTTCAGGCACTTCAACCCAGGAGAGAGCTCGG
AAATCTTTGAATTCACCACTCAGAAGGAGTACAGCATCTCGGCAGCGGCCATCGCTATCTTCAGCCTTGG
CTTCATCATATAGGCTCCATCTGTGCCTTTCTGTCTTCGGGAATAAGCGTGATTACCTGCTAAGGCCG
GCATCCATGTTTTATGCCTTTCAGGGCTCTGCCTCATCGTGTGGTGGAGGTCATGAGGCAGTCGGTGA
AGCGTATGATTGACAGCGAGGACACGGTCTGGATTGAGTACTATTATTCGTGGTCTTTCGCTGCGCGTG
TGCCGGCTTCACTTTGCTCTTCTCGGTGGGCTGTTTCTCCTGCTGTTCTCCCTGCCTCGGATGCCCCAG
AACCCCTGGGAATCCTGCATGGACACTGAGTCAGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206951 representing NM_019255
Red=Cloning site Green=Tags(s)

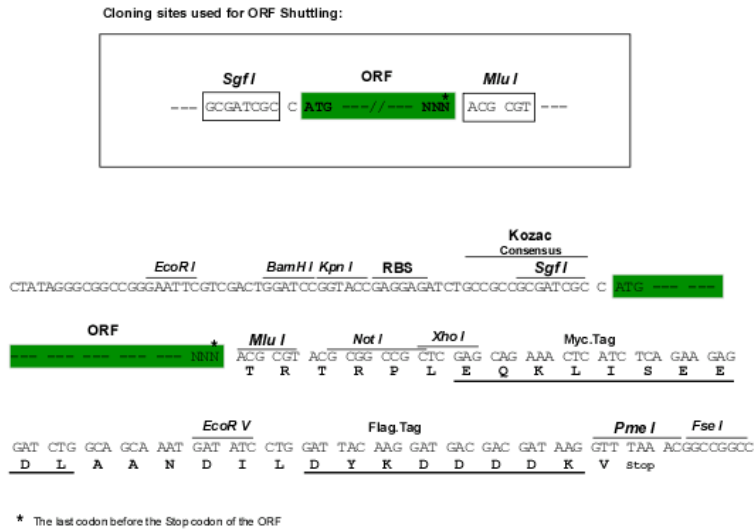
MSQTKTAKVRVTLFFILAGGVLAMVAVVTDHWAVLSPHLEHHNETCVAAHFGLWRICCTTWVAMHNQDKNC
 DGTIPAGEKNCSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSLGFIIIGSICAFLSFGNKRDYLLRP
 ASMFYAFAGLCLIVSVEVMRQSVKRMIDSEDTVWIEYYYSWFSACACAGFTLLFLGLGFLLLFSLPRMPQ
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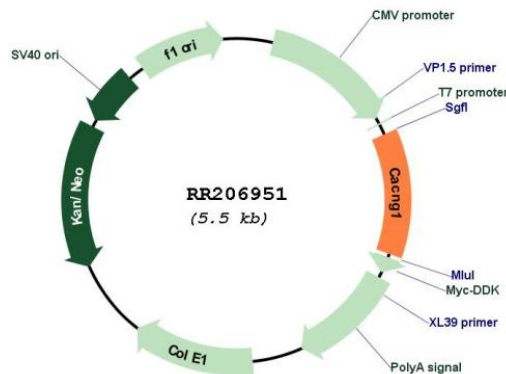
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019255

ORF Size: 669 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_019255.1 , NP_062128.1
RefSeq Size:	822 bp
RefSeq ORF:	672 bp
Locus ID:	29658
UniProt ID:	P97707
Cytogenetics:	10q32.1
MW:	25.1 kDa
Gene Summary:	calcium channel subunit involved in inactivation of calcium channel current [RGD, Feb 2006]