

Product datasheet for **RR210135**

Cacng3 (NM_080691) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacng3 (NM_080691) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacng3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210135 representing NM_080691 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACCCTGTAGGAGCCTTCGCAGCTTTTCAGTTTAA
TGACCATTCGGTGGGCACGGACTACTGGCTATATCCAGAGGTGTGTCAGGACTAAATCTACAAGTGA
CAATGAAACCAGCAGGAAAAATGAAGAAGTAATGACCCACTCCGGTGTGGAGGACCTGTGCTTAGAA
GGAGCTTCCGAGGCGTGTGCAAGAAAATCGATCACTTCCAGAAGATGCAGACTATGAACAGGATACAG
CAGAATATCTTCCGGGCTGTGAGGGCTCCAGTGTCTCCCATCCTCAGCGTCACTCTGCTGTTTTT
CGGGGACTCTGTAGCTGCCAGCGAGTTCACCGCAGTAGGCACAGTGTATCCTCAGCGCCGCCATC
TTCTTCGCTCTGCAGGGCTAAGCAACATCATCGGCATCATAGTTTATATCTCAGCCAATGCTGGAGACC
CTGGGCAGAGGGACTCTAAAAAGAGCTACTCCTACGGCTGGTCTTTTATTTGGAGCCTTCTTTTCAT
CATCGCGGAAATGTGGGTGTGGTCGCCGTGCACATCTATTTGAGAAGCATCAGCAGCTGCGCGCCAGA
TCCATTTCAGAGCTCCTGAAGAAGTCTACATTTGCGCGCCTACCGCCTACAGGTATAGATTCGGAAGC
GGTCAAGTTCGCTCCACTGAACCTAGATCCCGAGACCTGTCTCCATCAGCAAAGGCTCCACACCAT
CCCTTCCACTGACATCTCCATGTTACCCGTGCCGGGACCCCTAAGCTTACCATGGGACCCCTTCTC
AACTCTGACCGGACCATGCTTTTCTACAGTTCACAACCTCCACACCCAAAGAGTTCAAAGAGTCGTTGC
ATAACAATCCGGCCAACAGACGCACCACGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210135 representing NM_080691
 Red=Cloning site Green=Tags(s)

MRMCDRGIQMLITTVGAFAAFSLMTIAVGTDYWLYSRGVCRTKSTSDNETSRKNEEVMTHSGLWRTCCLE
 GAFRGVCKKIDHFPEDADYEQDTAEYLLRAVRASSVFPILSVTLFFGGCLCVAASEFHRSRHSVILSAGI
 FFVSAGLSNIIGIIVYISANAGDPGQRDSKKSYSYGWSFYFGAFSFIIEIVGVAVHIYIEKHQQLRAR
 SHSELLKKSTFARLPPYRYRFRRRSSSRSTEPRSRDLSPISKGFHTIPSTDISMFTLSRDPSKLTMGTL
 NSDRDHAFLLQFHNSTPKFEKESLHNNPANRRTPV

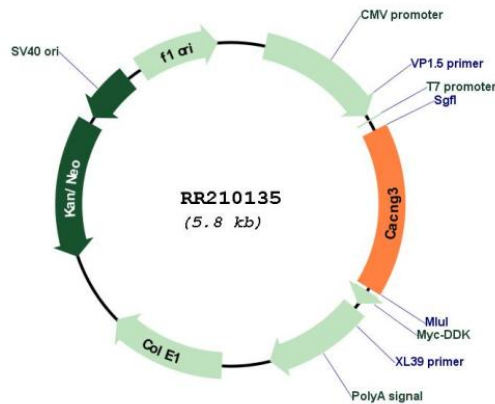
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_080691

ORF Size:	945 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_080691.1 , NP_542422.1
RefSeq Size:	948 bp
RefSeq ORF:	948 bp
Locus ID:	140724
UniProt ID:	Q8VHX0
Cytogenetics:	1q36
MW:	35.5 kDa
Gene Summary:	member of a family of gamma subunits of voltage-dependent calcium channels [RGD, Feb 2006]