

Product datasheet for **MR220452**

Cacng1 (NM_007582) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacng1 (NM_007582) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cacng1
Synonyms: MGC117703
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220452 representing NM_007582
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCACAGACAAAACAGCGAAGGTTCTGTGACCTCTTCTTCATCCTGGTGGCGGGGTGCTCGCCA
TGGTGGCCGTGGTACTGACCACTGGGCCGTGCTGAGTCCACACCTGGAGCACCACAATGAAACGTGCGA
GGCAGCCCACTTTGGCCTCTGGAGGATCTGACCCGCTCGGTTGCCGTGCACAACAAGACAAGAGTTGT
GAGCAGTCACACCATCAGGGGAAAAGAACTGCTCCTACTTCAGGCACTCAACCCAGGGGAGAGCTCGG
AAATCTTTGAATTCACCACTCAAAGGAGTACAGCATCTCAGCAGCGGCCATTGCCATCTTCAGCCTCGG
CTTCATCATTGTGGGTTCCATCTGCGCATTTCTGTCTTCGGGAATAAGCGTGATTACCTGCTGAGGCCA
GCATCCATGTTTTATGCCTTCGACGGGCTCGCCTCATCGTCTCCGTGGAGGTCATGAGGCAGTCGGTGA
AGCGTATGATTGACAGCGAGGACACGGTCTGGATAGAGCACTACTATTCGTGGTCTTTCCGCTGTGCATG
TGCCGCGTTTCATCTTGCTCTTCTCGGTGGGCTGTTCTCCTGCTCTTCTCCCTGCTCGGATGCCTCAG
AACCCCTGGGAATCCTGCATGGACGCTGAGCCAGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220452 representing NM_007582
Red=Cloning site Green=Tags(s)

MSQTKTAKVRVTLFFILVGGVLA MVAVVTDHWAVLSPHLEHHNETCEAAHFGLWRICTARVAVHNKDKSC
 EHVTPSGEKNCSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSLGFIIVGSICAFLSFGNKRDYLLRP
 ASMFYAFAGLCLIVSVEVMRQSVKRMIDSEDTVWIEHYYSWFSACACAAFI LLFLGGLFLLLFSLPRMPQ
 NPWESCMDAEPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007582

ORF Size: 669 bp

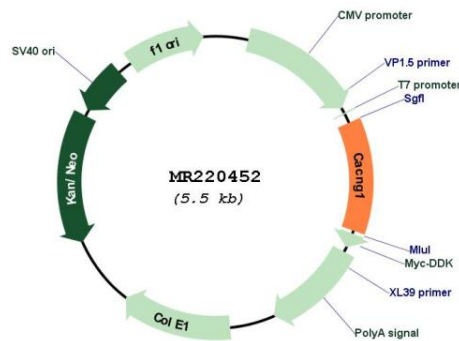
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_007582.2, NP_031608.1</u>
RefSeq Size:	1225 bp
RefSeq ORF:	672 bp
Locus ID:	12299
UniProt ID:	<u>O70578</u>
Cytogenetics:	11 E1
MW:	25.6 kDa
Gene Summary:	Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents in skeletal muscle. Regulates channel inactivation kinetics.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220452