

Product datasheet for MR223362

Cacng4 (NM_019431) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacng4 (NM_019431) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cacng4
Synonyms: AI413107; AW491861
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223362 representing NM_019431
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCGATGCGACCGGGCTGCAGATGCTGCTGACCACGGCCGGAGCCTTCGCCCTTCTCGCTCA
TGGCCATCGCCATCGGCACCGACTACTGGCTGTACTCCAGCGGCACATCTGCAACGGCACCAACCTGAC
CATGGACGACGGGCCCCGCCCGCGCTCGCGGCACCTCACCCATTCGGGACTGTGGCGGGTGTGT
TGCATCGAAGGCATCTATAGAGGGCACTGCTTCCGGATCAACCACTTCCCAGAGGACAATGATTACGACC
ACGACAGCTCCGAGTACCTCCTCCGATTGTGCGAGCCTCCAGTGTCTTCCCATCCTCAGCACCATTCT
GCTCCTGCTCGGAGGGCTCTGCATCGGGCTGGGAGGATCTACAGCCGCAAGAACAATATTGTCCTCAGC
GCGGGAATCCTCTTTGTGGCGGCAGGCCTCAGTAATATCATCGGTATCATCGTCTACATTCCAGCAACA
CGGGCGACCCAGTGACAAACGTGACGAAGACAAAAGAACCATTACAACACGGCTGGTCTTTTACTT
TGGAGCCCTGTCGTTTATTGTGGCGGAGACCGTGGGCGTCTGGCTGTAACATTACATTGAGAAAAAT
AAAGAGTTGAGGTTTAAAGACCAAGCGGGAGTTCCTTAAGGCCTTCTCCTCTCCTTACGCCAGGATGC
CGAGCTACAGGTACCGGCGACGGCGGTCCAGGTCCAGTTCAGGTCCACGGAGGCCTCACCTCCAGGGA
TGCATCTCCCGTGGCCGTAAGATCACCGGAGCCATCCCATGGGTGAGCTGTCCATGTACACGCTATCC
AGAGAACCCCTTAAGGTGACCACAGCTGCGAGCTACAGTCCGGACCAGGACGCTGGCTTCTGCAGATGC
ATGACTTCTTCCAACAGGACCTAAAGGAAGGTTTCCATGTCAGCATGCTGAACCGCGGACGACTCCCGT
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223362 representing NM_019431
Red=Cloning site Green=Tags(s)

MVRCDRGLQMLLTTAGFAAFSLMAIAIGTDYWL YSSAHCNGTNLTMDGPPRRRARGDLTHSGLWRVC
 CIEGIYRGHCFRINHFPEDNDYDHSSEYLLRIVRASSVPILSTILLGGLCIGAGRIYSRKNIVLS
 AGILFVAAGLSNIIGIIVYSSNTGDPDKRDEKKNHNYGWSFYFGALSFIVAETVGLAVNIYIEKN
 KELRFKTKREFLKASSSSPYARMP SYRYRRRRSRSSSRSTEASPSRDASPVGLKITGAIPMGELSMYTLS
 REPLKVTTAASYS PDQAGFLQMHDF FQQDLKEGFHVSM LNRRRTTPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019431

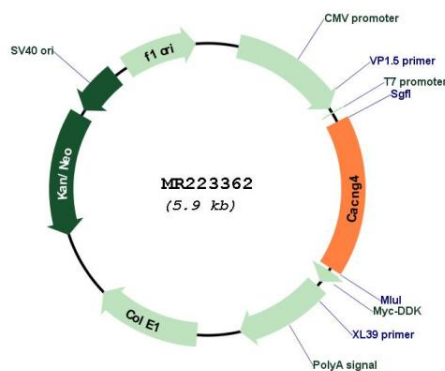
ORF Size: 981 bp

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:	NM_019431.4
RefSeq Size:	984 bp
RefSeq ORF:	984 bp
Locus ID:	54377
UniProt ID:	Q9JJV4
Cytogenetics:	11 E1
MW:	37 kDa
Gene Summary:	Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (By similarity). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA receptors), including GRIA1 and GRIA4. Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization and by mediating their resensitization (PubMed:17880894).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223362