

Product datasheet for **MR230273**

Cacnb4 (NM_001285426) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_001285426) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb4
Synonyms:	3110038O15Rik; Cchb4; lh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230273 representing NM_001285426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTGGTGGCCGAGGCACCACGACCCGGAGGAGCAGGTTGAAAAGATCGGATGGCAGCACCCTT
 CTACCAGCTTCATCCTCAGACAGGGTCCAGCAGATTCTATACAAGCAGGCCATCGGACTCCGATGTCTC
 CTTGGAAGAGGACCGGGAAGCGATCCGGCAAGAGCGAGAACAGCAAGCAGCTATCCAGCTTGAGAGAGCG
 AAGTCCAAACCTGTAGCTTTTGGCGTAAAAACGAACGTGAGCTACTGTGGTGCCTTGACGAAGATGTGC
 CCGTTCCAGCACAGCCATCTCCTTTGACGCCAAGGACTTTCTTACATTAAGAGAAAATAAACAATGA
 TTGGTGGATAGGAAGACTGGTAAAAGAGGGCTGTGAGATTGGCTTCATCCCAAGTCCACTGCGCTTGGAG
 AATATTCGGATTCAACAGGAACAGAAAAGAGGCCGTTTTTCATGGCGGAAATCGAGTGGAACTCTTCT
 CCAGTCTGGGAGAAATGGTATCAGGAACATTCCGAGCAACTCCCACAACAACAGCAAAACAGAAGCAGAA
 AGTGACGGAGCACATTCTCCGTATGACGTCGTGCCGTCATGCGTCCTGTGGTGTAGTGGGGCCATCA
 CTGAAAGTTATGAGGTAAACAGACATGATGCAGAAAGCCCTCTTTGATTTCTGAAAGCACAGTTTGATG
 GGAGGATATCAATAACAAGAGTGACAGCTGACATTTCTTGTCTTAAAGAGATCTGTCTCAACAATCTAG
 CAAGAGAGCAATAATTGAACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTGAATTTGAAAGA
 ATTTTTGAGTTGGCAAGATCTTTGCAATTGGTTGTTCTTGATGCAGACACCATCAACCACCCAGCACAGC
 TGATAAAGACATCCTTAGCACCCATCATCGTCCACGTGAAGGTCTCGTCCCCAAAGGTTTTACAGCGGCT
 GATTAAGTCCAGAGGAAAGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGCCGATAAACTGGCC
 CAGTGGCCCGCTGAAATGTTGATGTTATATTAGATGAGAATCAACTGAGGATGCCTGTGAACATCTGG
 GAGAGTACCTGGAGGCATCTGGCGTGCCACCCACACGAGCAGTACACCCCTATGACCCATTACTGGG
 GCGGAACGTGGGCTCCACAGCCCTCTACCATATCCACAGCAATCTCTGGATTACAGAGTCAGCGAATG
 AGACACAGCAACCATTCTACAGAGAATTCTCAATTGAAAGACGAAGCCTAATGACCTCGGATGAAAATT
 ACCACAATGAGAGGGCCCGCAAGAGTAGGAACCGTTGTCTTCCAGCTCCAGCACAGCCGAGACCACTA
 CCCTCTGGTGAAGAAGATTACCCGGACTCGTACCAGGACTTATAAGCCCATAGGAACCGAGGATCG
 CCCGGGGGTGCAGCCATGACTCCCGACATAGGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230273 representing NM_001285426
 Red=Cloning site Green=Tags(s)

MDVVARGTTTTRRSRLKRS DGSTTSTSFILRQGSADSYTSRPSDSVLSLEEDREAIRQEREQQAIIQLERA
 KSKPVAFAVKTNVSYCGALDEDVVPVSTAI SFDKDFLHIKEKYNNDWWIGRLVKEGCEIGFIPSPRLRLE
 NIRIQEQKRGRFHGGKSSGNSSSLGEMVSGTFRATPTTTAKQKQKVTEHIPPYDVVPSMRPVVLVGPS
 LKGYEVTDMMQKALFDFLKHRFDGRISITRVTADISLAKRSVLNPNPKRAI IERSNTRSSLAEVQSEIER
 IFELARSLQLVVL DADTINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLA
 QCPPEMFDVILDENQLEDACEHLGEYLEAYWRATHSSSTPMTPLLGRNVGSTALLSPYPTAISGLQSQRM
 RHSNHSTENSP IERRSLMTSDENYHNERARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDTYKPHRNRGS
 PGGCSDSRHRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001285426

ORF Size: 1506 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:

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_001285426.1](#), [NP_001272355.1](#)

RefSeq Size: 7792 bp

RefSeq ORF: 1509 bp

Locus ID: 12298

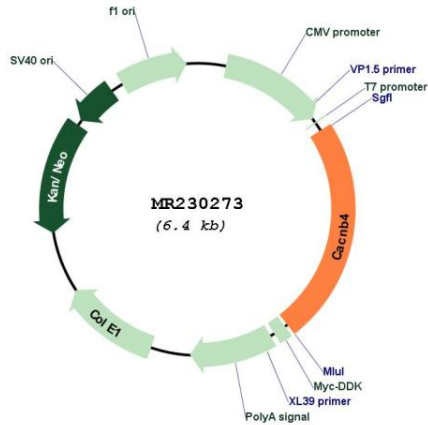
Cytogenetics: 2 29.98 cM

MW: 56.8 kDa

Gene Summary:

The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230273