

Product datasheet for **MR222872**

Cacnb3 (NM_007581) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_007581) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb3
Synonyms:	Beta3; Ca(v)beta3; CAB3; Cchb3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222872 representing NM_007581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTATGACGACTCTACGTGCCGGGTTTGAGGACTCGGAGGCGGGTTCAGCCGACTCCTACACCAGCC
 GCCCTCTCTGGACTCAGACGTCTCCCTGGAGGAGGACCGGGAGAGTGCCCGCGAGAAGTGGAGAGTCA
 GGCTCAGCAGCAGCTGGAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTCAGCTAC
 TGTGGGGTTCTGGATGAGGAGTGCCCGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAGATTTTCTGC
 ACATTAAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAAGAGGGCGGAGACATCGCCTT
 CATCCCCAGCCCCAACGCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCTGGGAAC
 CCTTCCAGCCTGGGTGACATTGGCAACCGACGCTCTCTCTCCGTCTCTAGCCAAGCAGAAGCAAAGC
 AGGCGGAACATGTTCCCCGTATGATGTGGTGCCTCCATGCGCCTGTGGTGTGGTGGGACCTCTCT
 GAAAGGCTATGAGGTCACGGACATGATGAGAAGCGCTCTTCGACTTCTTAAACACAGTTTGTATGGC
 AGGATCTCCATCACACCGCTCACGGCCGACCTCTCGCTGGCCAAGCGCTCTGTGCTCAACAATCCTGGCA
 AGAGGACCATCATTGAGCGCTCTCCGCCCGCTCCAGCATTGCTGAAGTGCAGAGTGAGATTGAGCGCAT
 ATTCGAGCTGGCCAAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAACTT
 GCCAAGACCTCACTGGTCCCATCATCGTCTTTGTCAAAGTGTCTCGCCAAAGTACTGCAGCGACTGA
 TCCGCTCCAGGGGAAAGTACAGATGAAGCACCTCACTGTACAGATGATGGCGTACGATAAGCTGGTTCA
 GTGCCACCCGAGTCAATCGACGTATTCTGGATGAGAACCAGCTAGAAGATGCCTGTGAGCACCTGGCT
 GAATACTTAGAGGTTTACTGGCAGCGACCCACCCAGCACCAGGCGCCCGGACTGCTGGTCCGCCTA
 GTGCCATCCCTGGACTTCAGAACAGCAGCTGCTGGGGAGCGAGTGGAGGAGCACTCACCCCTGGAGAG
 GGACAGCCTGATGCCCTCAGATGAGGCCAGCGAGAGCTCCCGCCAGGCCTGGACCGGATCTTACAGCGC
 AGCTCTCGCCATCTGGAGGAGGACTATGAGATGCCTACCAGGACCTGTACCAGCCTCACCGCCAACACA
 CCTCGGGGCTGCCAGTGCTAACGGGCACGACCCCAAGACCGCTCTAGCCAGGACTCGGAGCATGA
 CCACAATGACCGAACTGGCAGCGTAACCGGCCTTGGCCAAGGACAGCTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222872 representing NM_007581
 Red=Cloning site Green=Tags(s)

MYDDSYVPGFEDSEAGSADSYTSRPSLDSVLSLEEDRESARREVESQAQQQLERAKHKPVAFVRTNVS
 YCGVLDEECPVQSGVNFCAKDFLHIKEKYSNDWWIGRLVKEGGDIAFIPSPQRLESIRLKQEQKARRSGN
 PSSLDGIGNRRSPPPSLAKQKQQAHEHVPYDVPVSMRPVVLVGPVSLKGYEVTMMQKALFDLKHFRFDG
 RISITRVTADLSLAKRSVLNPNPKRTIERSARSSIAEVQSEIERIFELAKSLQLVVLADDTINHPAQL
 AKTSLAPIIVFVKVSSPKVLQRLIRSRGKSQMKHLTVQMMAYDKLVQCPPEFVILDENQLEDACEHLA
 EYLEVYWRATHHPAPGPGLLGPPSAIPGLQNQQLGERVEEHSPLERDSLMPSEASESSRQAWTGSSQR
 SSRHLEEDYADAYQDLVQPHRQHTSGLPSANGHDPQDRLLAQDSEHDHNRNWRNRPWPKDSY

SGPTRTRRLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_007581

ORF Size: 1452 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_007581.3](#), [NP_031607.2](#)

RefSeq Size: 2837 bp

RefSeq ORF: 1455 bp

Locus ID: 12297

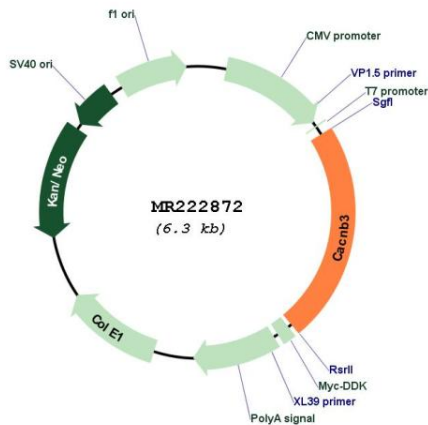
UniProt ID: [P54285](#)

Cytogenetics: 15 54.64 cM

MW: 55 kDa

Gene Summary: Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents (PubMed:24751537). Increases CACNA1B peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity). Increases CACNA1C peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222872