

Product datasheet for **MR230082**

Cacnb4 (NM_001285427) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_001285427) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb4
Synonyms:	3110038O15Rik; Cchb4; lh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230082 representing NM_001285427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGGT**CAGCAGAT**TCTATACAAGCAGGCCATCGGACTCCGATGTCTCCTTGAAGAGGACCGGG
 AAGCGATCCGGCAAGAGCGAGAACAGCAAGCAGCTATCCAGCTTGAGAGAGCGAAGTCCAACCTGTAGC
 TTTTGGCGGTGAAAACGAACGTGAGCTACTGTGGTGCCCTGGACGAAGATGTGCCCGTTCCAGCACAGCC
 ATCTCCTTTGACGCCAAGGACTTTCTTACATTAAGAGAAAATAACAATGATTGGTGGATAGGAAGAC
 TGGTAAAAGAGGGCTGTGAGATTGGCTTCATCCCAAGTCCACTGCGCTTGGAGAATATTCGGATTCAACA
 GGAACAGAAAAGAGGCCGTTTTTCATGGCGGAAATCGAGTGAAACTCTTCTCCAGTCTGGGAGAAATG
 GTATCAGAAACATTCCGAGCAACTCCACAACAACAGCAAACAGAAAGCAGAAAGTGACGGAGCACATTC
 CTCGATGACGTCGTGCCGTCAATGCGTCTGTGGTGTAGTGGGGCCATCACTGAAAGGTTATGAGGT
 AACAGACATGATGCAGAAAGCCCTTTTGATTTCTGAAGCACAGTTTGTATGGGAGGATATCAATAACA
 AGAGTGACAGCTGACATTTCTTGTCTTGAAGAGATCTGTCCTCAACAATCCTAGCAAGAGAGCAATAATTG
 AACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTGAATTTGAAAGAATTTTTGAGTTGGCAAG
 ATCTTTGCAATTGGTTGTTCTTGATGCAGACACCATCAACCACCCAGCACAGCTGATAAAGACATCCTTA
 GCACCCATCATCGTCCACGTGAAGGTCTCGTCCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAGGAA
 AGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGGCCGATAAACTGGCCAGTGCCCGCCTGAAAT
 GTTTGATGTTATATTAGATGAGAATCAACTGGAGATGCCTGTGAACATCTGGGAGAGTACCTGGAGGCA
 TACTGGCGTGCCACCCACAGCAGTAGCACCCCTATGACCCATTACTGGGGCGGAACGTGGGCTCCA
 CAGCCCTCACCATATCCACAGCAATCTGGATTACAGAGTCAGCAATGAGACACAGCAACCATTC
 TACAGAGAATTCTCCAATTGAAAGACGAAGCCTAATGACCTCGGATGAAAATTACCACAATGAGAGGGCC
 CGCAAGAGTAGGAACCGCTTGTCTCCAGCTCCAGCACAGCCGAGACCACTACCTCTGGTGAAGAAG
 ATTACCCGGACTCGTACCAGGACTTATAAGCCCATAGGAACCGAGGATCGCCCGGGGGTGCAGCCA
 TGACTCCCGACATAGGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230082 representing NM_001285427
 Red=Cloning site Green=Tags(s)

MAGSADSYTSRPSDSVLEEDREAIRQEREQAAIQLERAKSKPVAFVKTNSYCGALDEDVVPVSTA
 ISFDAKDFLHIKEKYNNDWWIGRLVKEGCEIGFIPSPRLLENIRIQEQKRGRFHGGKSSGNSSSLGEM
 VSGTFRATPTTTAKQKQVTEHIPPYDVVPSMRPVVLVGPVLKGYEVTMMQKALFDFLKHFRDGRISIT
 RVTADISLAKRSVLNNSKRAIERSNTRSSLAEVQSEIERIFELARSLQLVVLADDTINHPAQLIKTSL
 APIIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQCPPEMFDVILDENQLEDACEHLGEYLEA
 YWRATHSSSTPMTPLLGRNVGSTALLSPYPTAISGLQSQRMRHSNHSTENSPIERRSLMTSDENYHNERA
 RKSRRNRLSSSSQHSRDHYPLVEEDYPDSYQDTYKPHRNRGSPGGCSDSRHRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_001285427.1](#), [NP_001272356.1](#)

RefSeq Size: 8088 bp

RefSeq ORF: 1422 bp

Locus ID: 12298

UniProt ID: [Q8R0S4](#)

Cytogenetics: 2 29.98 cM

MW: 53.5 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]