

Product datasheet for **MR207780**

Cacnb4 (NM_146123) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb4 (NM_146123) 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:

>MR207780 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATGACAATTTGTACCTGCATGGAGTTGAAGACTCGGAGGCTGGGTACGAGATTCTATACAAGCA
 GGCCATCGGACTCCGATGTCTCCTTGAAGAGGACCGGGAAGCGATCCGCAAGAGCGAGAACAGCAAGC
 AGCTATCCAGCTTGAGAGAGCGAAGTCCAAACCTGTAGCTTTTGCGGTAAAAACGAACGTGAGCTACTGT
 GGTGCCCTGGACGAAGATGTGCCGTTCCAGCACAGCCATCTCCTTTGACGCCAAGGACTTTCTTCACA
 TTAAGAGAAAATAACAATGATTGGTGGATAGGAAGACTGGTAAAAGAGGGCTGTGAGATTGGCTTCAT
 CCCAAGTCCACTGCGCTTGAGAATATTCGATTCAACAGGAACAGAAAAGAGGCCGTTTTCATGGCGGG
 AAATCGAGTGGAACTCTTCTCCAGTCTGGGAGAAATGGTATCAGGAACATTCCGAGCAACTCCCACAA
 CAACAGCAAAACAGAAGCAGAAAGTGACGGAGCACATTCTCCGTATGACGTCGTGCCGTCATGCGTCC
 TGTGGTGTAGTGGGCCATCACTGAAAGTTATGAGGTAACAGACATGATGCAGAAAGCCCTCTTTGAT
 TTCTGAAGCACAGGTTTGTATGGGAGGATCAATAACAAGAGTGACAGCTGACATTTCTCTTGCTAAGA
 GATCTGTCTCAACAATCCTAGCAAGAGAGCAATAATTGAACGTTCCAACACCAGATCCAGCTTAGCGGA
 AGTACAAAGTGAATGAAAGAATTTTGTAGTTGGCAAGATCTTGAATTTGGTTGTTCTTGATGCAGAC
 ACCATCAACCACCCAGCACAGCTGATAAAGACATCCTTAGCACCCATCATCGTCCACGTGAAGGTCTCGT
 CCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAGGAAAGTCCCAAAGCAAACACTTGAATGTTCAACT
 GGTGGCGGCCGATAAACTGGCCAGTGGCCGCTGAAATGTTTGTATATTAGATGAGAATCAACT
 GAGGATGCCTGTGAACATCTGGGAGAGTACCTGGAGGCATACTGGCGTGCCACCCACAGCAGCAGTAGCA
 CCCCTATGACCCATTACTGGGGCGAAGCTGGGCTCCACAGCCCTCTCACCATATCCCACAGCAATCTC
 TGGATTACAGAGTCAGCGAATGAGACACAGCAACCATTCTACAGAGAATTCTCCAATTGAAAGACGAAGC
 CTAATGACCTCGGATGAAATTACCACAATGAGAGGGCCCGCAAGAGTAGGAACCGCTTGTCTTCCAGCT
 CCCAGCACAGCCGAGACCACTACCCTCTGGTGAAGAAGATTACCCGGACTCGTACCAGGACACTTATAA
 GCCCATAGGAACCGAGGATCGCCCGGGGGTGCAGCCATGACTCCCGACATAGGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207780 protein sequence
 Red=Cloning site Green=Tags(s)

MYDNL YLHGVEDSEAGSADSYTSRPSDSVLSLEEDREAIRQEREQQAIIQLERAKSKPVAFVKTNVSYC
 GALDEDVVPVSTAI SFDKDFLHIKEKYNNDWWIGRLVKEGCEIGFIPSPRLLENIRIQEQKGRFRHGG
 KSSGNSSSSLGEMVSGTFRATPTTTAKQKQKVTEHIPPYDVVPSMRPVVLVGP SLKGYEVTMMQKALFD
 FLKHRFDGRISITRVADISLAKRSVLNPNPSKRAIIERSNTRSSLAEVQSEIERIFELARSLQLVLDAD
 TINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQCPEMFDVILDENQL
 EDACEHLGEYLEAYWRATHSSSTPMTPLLRNVGSTALLSPYPTAISGLQSQRMRHSNHSTENSP IERRS
 LMTSDENYHNERARKSRNRLSSSQHSRDHYPLVEEDYPPSYQDTYKPHRNRGSPGGCSDSRHRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_146123

ORF Size: 1461 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_146123.3](#)
RefSeq Size: 7928 bp

RefSeq ORF: 1461 bp

Locus ID: 12298

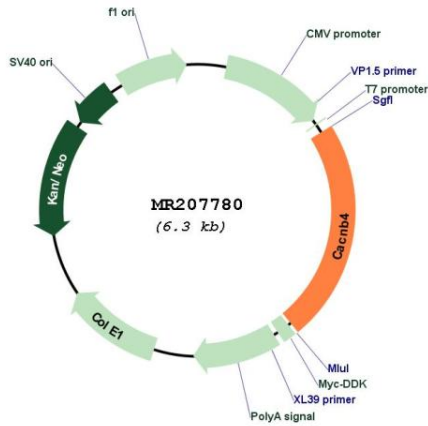
UniProt ID: [Q8R0S4](#)

Cytogenetics: 2 29.98 cM

MW: 54.6 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 MR207780