

Product datasheet for **MR207526**

Cacnb1 (BC077713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (BC077713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb1
Synonyms:	CAB1; Cchb1; Cchl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207526 representing BC077713
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGTCTTCG
 ACCCCAGCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGGTTCAAAGGTTCAGACGGGAGTACGTCTC
 GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT
 GATGTGTCTCTGGAGGAGGACCGGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCCTTAGCCAGCTCG
 AGAAAGCCAAGACCAAACAGTGGCTTTTGTGTTGCGACAAATGTTGGCTACAATCCGTCTCCAGGGGA
 TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC
 AATAATGACTGGTGGATTGGGCGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCAGCCCGGTCA
 AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCCTCAGCTCCAGCAAGTCAAG
 TGACAACCTCCAGTCCAGTCTGGGAGATGTGGTACTGGCACCCGCCGCCACACCCCTGCCAGTGAAG
 CAGGTGCCCCCTATGAGTGGTGCCTTCATGAGGCCATCATCCTGGTGGGACCGTCCGTCAGGGCT
 ATGAGGTGACAGACATGATGCAGAAAGCGTTGTTGACTTCTCAAGCATCGGTTTATGGCAGGATTTTC
 CATCACCCGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCTCAACAACCCAGCAAACACATC
 ATCATTGAGCCCTCAACACGCGCTCCAGCCTGGCTGAGGTACAGAGTGAATTTGAGAGGATCTTCGAGC
 TGGCCCGACCTTGCAGCTGGTGCCTTGGACGCTGACACCATCAACCACCCAGCCAGCTCTCTAAAC
 GTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCAAGGACTGCAGAGGCTCATCAATCC
 CGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCTCGGAGAAGTGGCACAGTGTCCCT
 GGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCCAATCCGCTGCTGAACCGCACCATG
 GCTACCGCAGCTCTGGTGCAGCCCTGCCCCGCTCCTCAACCTCCAGGTACAGGTGCTCACCTCGCTCA
 GGAGAAATCTCAGCTTCTGGGGCGGCTGGAGGCCTCACCGGGGAGGCGACGCGGTGGCCAGCCTCA
 GGAGCACGCCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207526 representing BC077713
 Red=Cloning site Green=Tags(s)

MVQKSGMSRGPYPPSQEIPMEVFDPSQKYSKRKGRFRKSDGSTSSDSTSNSFVRQGSAESYTSRPSDS
 DVSLEEDREALRKEAERQALALEKAKTKPVAFVVRTNVGYNPSGDEVVQGVAITFEPKDFLHIKEY
 NNDWWIGRLVKEGCEVGFIPSPVKLDSLRLLEQTLRQNRSSSKSGDNSSSLGDVVGTTRRPTPPASE
 HVPPYDVVPSMRPIILVGPLKGYEVTMMQKALFDLKHFRDGRISITRVTADISLAKRSVLNPNPSKHI
 IIEPSNTRSSLAEVQSEIERIFELARTLQVALDADTINHPAQLSKTSLAPIIVYIKITSPKVLQRLIKS
 RGKSQSKHLNVQIAASEKLAQCPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSPTPNPLLNRTM
 ATAALAASPAPVSNLQVQLTSLRRNLSFWGGLEASPRGGDAVAQPQEHAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_a08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC077713

ORF Size: 1413 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.

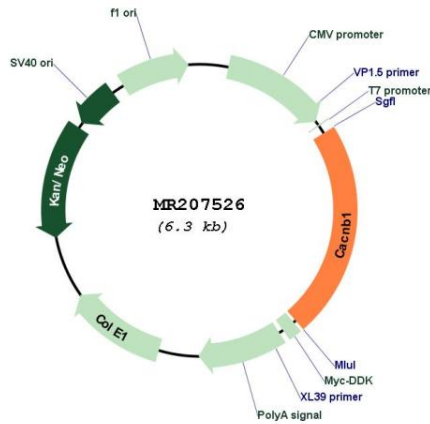
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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: [BC077713.1](#)
RefSeq Size: 1725 bp
RefSeq ORF: 1415 bp
Locus ID: 12295
Cytogenetics: 11 61.5 cM
MW: 63.3 kDa

Gene Summary: Regulatory subunit of L-type calcium channels. Regulates the activity of L-type calcium channels that contain CACNA1A as pore-forming subunit (By similarity). Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit and increases the presence of the channel complex at the cell membrane. Required for functional expression L-type calcium channels that contain CACNA1D as pore-forming subunit. Regulates the activity of L-type calcium channels that contain CACNA1B as pore-forming subunit (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207526