

Product datasheet for **MR230075**

Cacnb1 (NM_001282978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (NM_001282978) 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)



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ORF Nucleotide Sequence:

>MR230075 representing NM_001282978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCAGAAGAGCGGCATGTCCCGGGCCCTTACCCACCTTCCAAGAGATCCCTATGGAGGTCTTCG
 ACCCCAGCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGTTCAAAGGTACAGACGGGAGTACGTCCTC
 GGATACAACATCCAACAGCTTCGTCGCCAGGGCTCAGCAGAGTCTACACGAGCCGACCATCAGACTCT
 GATGTGTCTCTGGAGGAGGACCGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCAGCTCG
 AGAAAGCCAAGACCAACCAGTGGCTTTTGTGTTCCGACAAATGTTGGCTACAATCCGCTCCAGGGGA
 TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTAGCCCAAGGACTTCTACACATCAAGGAGAAGTAC
 AATAATGACTGGTGGATTGGCGGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGTCA
 AACTGGACAGCCTTCGCTGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGG
 TGACAACCTCAGTTCAGTCTGGGAGATGTGGTACTGGCACCCGCCGCCACACCCCTGCCAGTGAG
 CACGTGCCCCCTATGACGTGGTGCCTTCCATGAGGCCATCATCCTGGTGGGACCGTCCGCTCAAGGGCT
 ATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTGACTTCTCAAGCATCGGTTTGATGGCAGGATTC
 CATACCCGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCCTCAACAACCCAGCAAACACATC
 ATCATTGAGCGCTCCAACACGCTTCCAGCCTGGCTGAGGTACAGAGTGAATTGAGAGGATCTTCGAGC
 TGGCCCGACCTTGCAGCTGGTGCCTTGGACGCTGACACCATCAACCACCCAGCCAGCTCTCTAAAC
 GTCGCTGGCCCCATCATTGTTTACATCAAGATCACATCTCCAAGGACTGCAGAGGCTCATCAATCC
 CGAGGGAAGTCTCAATCCAACACCTCAATGTCCAATAGCAGCCTCGGAGAAGCTGGCACAGTGTCCC
 CCGAAATGTTTGACATAATCCTGGACGAGAACCAATTGGAAGATGCCTGCGAGCACCTGGCTGAGTACT
 GGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCCAATCCGCTGCTGAACCGCACCATG
 GCTACCGCAGCTCTGGTGCAGCCCTGCCCCGCTCTCAACCTCCAGGTACAGGTGCTCACCTCGCTCA
 GGAGAAATCTCAGCTTCTGGGCGGGCTGGAGGCTCACCGCGGGGAGGCGACGCGGTGGCCAGCCTCA
 GGAGCACGCCATG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230075 representing NM_001282978
 Red=Cloning site Green=Tags(s)

MVQKSGMSRGPYPSPQEIPEVDFPSPQKYSKRKGRFRSDGSTSSDTSNSFVRQGSAESYTSRPSDS
 DVSLEEDREALRKEAERQALAQLEKAKTKPVAFVVRTNVGYNPSPGDEVVPVQGVAITFEPKDFLHIKEY
 NNDWWIGRLVKEGCEVGFIPSPVKLDSLRLLEQTLRQNRLLSSKSGDNSSSSLGDVVTGTRRTPPASE
 HVPPYDVVPSMRPIILVGPSPKGYEVTMMQKALFDLKHFRDGRISITRVTADISLAKRSVLLNPSKHI
 ITERSNTRSSLAEVQSEIERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYIKITSPKVLQRLIKS
 RGKSQSKHLNVQIAASEKLAQCPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSTPPNPLLNRMT
 ATAALAASPAPVSNLQVQLTSLRRNLSFWGGLEASPRGGDAVAQPQEHAM

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001282978

ORF Size: 1413 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_001282978.1](#), [NP_001269907.1](#)

RefSeq Size: 1714 bp

RefSeq ORF: 1416 bp

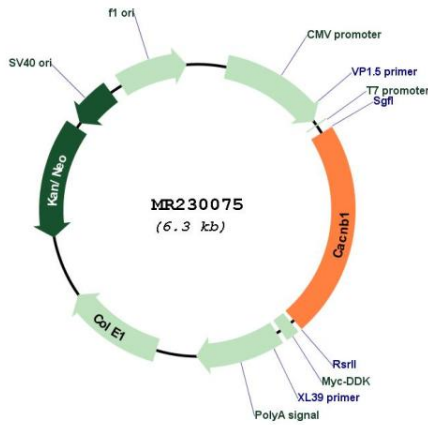
Locus ID: 12295

Cytogenetics: 11 61.5 cM

MW: 52.5 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 MR230075