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Product datasheet for MC218143

Cacnb1 (BC077713) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb1 (BC077713) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb1
Synonyms:	CAB1; Cchb1; Cchlb1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCAGAAGAGCGGCATGTCCCGGGGCCCTTACCCACCTTCCCAAGAGATCCCTATGGAGGTCTTCG
ACCCCAGCCCACAGGGCAAGTACAGCAAGAGGAAAGGGCGGTTCAAAAGGTCAGACGGGAGTACGTCCTC
GGATACAACATCCAACAGCTTCGTCCGCCAGGGCTCAGCAGAGTCCTACACGAGCCGACCATCAGACTCT
GATGTGTCTCTGGAGGAGGACCGGGAAGCCTTAAGGAAGGAGGCAGAGCGCCAGGCCTTAGCCCAGCTCG
AGAAAGCCAAGACCAAACCAGTGGCTTTTGCTGTTCGGACAAATGTTGGCTACAATCCGTCTCCAGGGGA
TGAGGTGCCTGTACAGGGAGTGGCCATCACCTTTGAGCCCAAGGACTTCCTACACATCAAGGAGAAGTAC
AATAATGACTGGTGGATTGGGCGGCTGGTGAAGGAAGGCTGCGAGGTTGGCTTCATCCCCAGCCCGGTCA
AACTGGACAGCCTTCGTCTGCTGCAGGAACAGACCCTGCGCCAGAACCGCCTCAGCTCCAGCAAGTCAGG
TGACAACTCCAGTTCCAGTCTGGGAGATGTGGTGACTGGCACCCGCCGCCCCACACCCCCTGCCAGTGAG
CACGTGCCCCCCTATGACGTGGTGCCTTCCATGAGGCCCATCATCCTGGTGGGACCGTCGCTCAAGGGCT
ATGAGGTGACAGACATGATGCAGAAAGCGTTGTTTGACTTCCTCAAGCATCGGTTTGATGGCAGGATTTC
CATCACCCGGGTAACAGCTGACATTTCCCTGGCCAAACGCTCCGTCCTCAACAACCCCAGCAAACACATC
ATCATTGAGCCCTCCAACACGCGCTCCAGCCTGGCTGAGGTACAGAGTGAAATTGAGAGGATCTTCGAGC
TGGCCCGGACCTTGCAGCTGGTCGCCTTGGACGCTGACACCATCAACCACCCAGCCCAGCTCTCTAAAAC
GTCGCTGGCCCCCATCATTGTTTACATCAAGATCACATCTCCCAAGGTACTGCAGAGGCTCATCAAATCC
CGAGGGAAGTCTCAATCCAAACACCTCAATGTCCAAATAGCAGCCTCGGAGAAGCTGGCACAGTGTCCCC
CCGAAATGTTCGACATAATCCTGGACGAGAACCAATTGGAAGATGCCTGCGAGCACCTGGCTGAGTACTT
GGAAGCCTACTGGAAGGCCACACATCCGCCTAGCAGCACGCCACCCAATCCGCTGCTGAACCGCACCATG
GCTACCGCAGCTCTGGCTGCCAGCCCTGCCCCCGTCTCCAACCTCCAGGTACAGGTGCTCACCTCGCTCA
GGAGAAATCTCAGCTTCTGGGGCGGGCTGGAGGCCTCACCGCGGGGAGGCGACGCGGTGGCCCAGCCTCA
GGAGCACGCCATGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC077713

Insert Size: 1416 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

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, AAH77713
RefSeq Size:	1725 bp
RefSeq ORF:	1415 bp
Locus ID:	12295
Cytogenetics:	11 61.5 cM
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]