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Product datasheet for MC228449

Cacnb2 (NM_001252533) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb2 (NM_001252533) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacnb2
Synonyms:	AW060387; CAB2; Cavbeta2; Cchb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228449 representing NM_001252533
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTGACAGGCAGTTGGTGTCTTCTCAGACTCAATCCAGTATTCCTGGGGGTTCGGCAGACTCCTACA
CCAGCCGCCCATCCGATTCAGATGTGTCTTTGGAAGAGGACCGGGAGGCAGTACGTAGAGAAGCTGAGCG
GCAGGCACAGGCACAGTTGGAAAAAGCAAAGACAAAACCTGTTGCATTTGCAGTTCGGACCAATGTCAGA
TACAGCGCAGCCCAGGAGGATGACGTTCCGGTGCCTGGCATGGCCATCTCCTTCGAGGCCAAAGATTTTC
TGCATGTTAAAGAAAAATTTAATAATGACTGGTGGATAGGACGGCTGGTTAAAGAAGGCTGTGAAATCGG
ATTTATTCCAAGCCCAGTCAAACTAGAGAACATGAGGCTACAGCACGAACAGAGAGCCAAGCAAGGGAAA
TTCTATTCCAGTAAATCAGGAGGGAATTCATCATCCAGTTTGGGTGACATAGTGCCCAGTTCCAGAAAAT
CGACACCGCCGTCATCTGCTATAGACATAGATGCTACTGGCTTAGATGCAGAAGAGAATGATATTCCAGC
AAACCACCGCTCCCCTAAGCCCAGTGCAAACAGTGTAACATCACCCCACTCCAAAGAGAAAAGAATGCCC
TTCTTTAAGAAGACAGAGCACACTCCTCCTTATGATGTGGTACCTTCCATGCGACCAGTGGTGCTGGTGG
GCCCGTCTCTGAAGGGGTATGAGGTCACAGATATGATGCAAAAAGCACTGTTTGATTTTCTAAAACACAG
ATTTGAAGGGCGGATATCCATCACAAGAGTCACTGCTGACATCTCCCTTGCCAAACGCTCAGTATTAAAC
AATCCCAGTAAGCATGCAATCATAGAAAGATCCAACACAAGGTCCAGCTTAGCGGAAGTTCAGAGTGAAA
TTGAAAGGATTTTTGAACTTGCAAGAACACTGCAATTGGTAGTCCTTGACGCGGATACAATTAATCACCC
AGCTCAACTCAGTAAGACCTCTTTGGCCCCTATCATAGTGTACGTAAAGATTTCTTCTCCCAAGGTTTTA
CAAAGGTTGATAAAATCTCGAGGGAAATCTCAAGCAAAACACCTCAATGTCCAGATGGTAGCAGCTGATA
AACTGGCCCAATGTCCTCCGCAGGAATCATTTGATGTGATCTTGGATGAGAACCAGCTGGAGGACGCTTG
TGAGCATCTTGCCGACTATCTGGAGGCATACTGGAAGGCCACCCACCCTCCCAGCGGTAACCTCCCCAAC
CCTCTGCTTAGCCGGACTTTAGCCTCCTCAACTTTACCTCTGAGCCCCACCCTCGCCTCTAATTCACAGG
GTTCTCAAGGTGATCAAAGGCCTGATCGCTCTGCTCCCCGGTCTGCTTCCCAAGCTGAAGAAGAACCTTG
CCTAGAACCCGTCAAAAAATCCCAACACCGTTCCTCCTCAGCCACACACCAAAACCACCGCAGCGGGACA
GGTCGAGGCCTCTCTAGGCAAGAGACGTTTGACTCTGAAACCCAAGAGAGCCGAGACTCTGCCTACGTGG
AGCCAAAGGAAGATTATTCACATGAACATGTGGACCGGTATGTCCCACACCGCGAGCATAACCACAGAGA
GGAGACCCACAGCAGCAATGGCCACAGACACAGGGAGTCTCGCCACCGCTCTAGGGACATGGGTCGAGAC
CAGGACCACAATGAGTGCATCAAACAACGAAGCCGGCATAAATCTAAGGATCGCTACTGTGACAAGGAGG
GGGAAGTAATATCCAAGAGAAGGAATGAGGCTGGCGAGTGGAACAGGGATGTATACATCCGCCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252533

Insert Size: 1818 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

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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_001252533.1, NP_001239462.1
RefSeq Size:	3814 bp
RefSeq ORF:	1818 bp
Locus ID:	12296
Cytogenetics:	2 10.7 cM
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] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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