

Product datasheet for **RN204310**

Cacnb4 (NM_001105733) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cacnb4 (NM_001105733) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cacnb4 |
| Synonyms: | CAB4 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN204310 representing NM_001105733
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATGACAATTTGTACCTGCATGGAGTTGAAGACTCGGAGGCTGGGTACGAGATTCTATACAAGCA
 GGCCATCGGACTCCGATGTCTTTTGAAGAGGACCGGGAAGCGATTCCGCAAGAGAGAGAACAGCAAGC
 AGCTATCCAGCTTGAGAGAGCGAAGTCCAAACCTGTAGCTTTTGCGGTAAAAACGAATGTGAGCTACTGT
 GGTGCCCTGGATGAGGATGTGCCGTTCCAGCACAGCCATCTCCTTTGACGCCAAGGACTTTCTTCACA
 TTAAGAGAAAATAACAATGATTGGTGGATAGGAAGGCTGGTGAAGGAGGGCTGTGAGATCGGCTTCAT
 CCCAAGTCCACTGCGTTTGGAGAACATACGATTCAACAGGAACAGAAAAGAGGCCGTTTTCATGGCGGG
 AAATCGAGTGGAACTCTTCTCCAGTCTGGGAGAAATGGTGTGAGAACATTTGAGCAACTCCACAA
 CAACAGCAAAACAGAAGCAGAAAGTGACAGAGCACATTCCTCCGTATGATGTTGTGCCATCAATGCGTCC
 TGTGGTGTAGTGGGCCATCACTGAAAGTTATGAGGTAACAGACATGATGCAGAAAGCCCTCTTTGAT
 TTCTGAAAGCACAGGTTTGTGAGGAGGATCAATAACCAGAGTGACAGCTGACATTTCTCTTGCTAAGA
 GGTCTGTCTCAACAATCCTAGCAAGAGAGCAATAATTGAACGTTCAAACACCAGATCCAGCCTAGCGGA
 AGTACAGAGTGAAATTGAAAGAATTTTCGAGTTGGCAAGATCTTTGCAATTGGTTGTTCTCGATGCAGAC
 ACCATCAATCACCCAGCACAGCTGATAAAGACATCGTTAGCGCCCATCATCGTCCACGTGAAGGTCTCGT
 CCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAGGAAAGTCCCAGAGTAAACACTTGAATGTTCAACT
 GGTGGCAGCTGATAAAGTGGCCAGTGTCCCTGAAATGTTGATGTTATATTAGATGAGAATCAACT
 GAGGATGCCTGTGAACATCTGGGAGAGTACCTGGAGGCATATTGGCGTGCCACCCACACAAGCAGTAGCA
 CCCCTATGACCCATTGCTGGGGAGGAACGTGGGCTCCACAGCTCTCTCACCGTATCCCACAGCAATCTC
 TGGACTACAGAGTCAGCGGATGAGGCATAGCAACCACTCTACAGAGAATTCTCCAATTGAAAGACGAAGC
 CTAATGACCTCTGATGAAAATTACCACAATGAGAGGGCCCGCAAGAGTAGGAACCGCTTGTCTCCAGCT
 CCCAGCACAGCCGAGATCACTACCCTCTGGTGGAGAAGATTATCCTGACTCATACCAGGACACTTACAA
 ACCCATAGGAACCGAGGCTCACCTGGGGGATGCAGCCATGACTCCCGACATAGGCTTGA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001105733
Insert Size: 1461 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](#)

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001105733.1</u> , <u>NP_001099203.1</u> |
| RefSeq Size: | 3790 bp |
| RefSeq ORF: | 1461 bp |
| Locus ID: | 58942 |
| UniProt ID: | <u>D4A055</u> |
| Cytogenetics: | 3q12 |
| Gene Summary: | calcium channel subunit that plays a role in regulating the conductance of L-type voltage gated calcium channels [RGD, Feb 2006] |