

## Product datasheet for MR229307

### Cacnb4 (NM\_001285428) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacnb4 (NM\_001285428) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cacnb4  
**Synonyms:** 3110038O15Rik; Cchb4; lh  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229307 representing NM\_001285428  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTATCAGGAACATTCGAGCAACTCCCACAACAACAGCAAAACAGAAGCAGAAAGTGACGGAGCACA  
TTCTCCGTATGACGTCGTGCCGTCAATGCGTCTGTGGTGTAGTGGGCCATCACTGAAAGGTTATGA  
GGTAACAGACATGATGCAGAAAGCCCTCTTTGATTTCTGAAGCACAGGTTTGATGGGAGGATATCAATA  
ACAAGAGTGACAGCTGACATTTCTTGTCTAAGAGATCTGTCTCAACAATCCTAGCAAGAGAGCAATAA  
TTGAACGTTCCAACACCAGATCCAGCTTAGCGGAAGTACAAAGTAAAATTGAAAGATTTTTGAGTTGGC  
AAGATCTTTGCAATTGGTTGTTCTTGTATGCAGACACCAATCAACCACCCAGCACAGCTGATAAAGACATCC  
TTAGCACCCATCATCGTCCACGTGAAGGTCTGTCCTCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAG  
GAAAGTCCCAAAGCAAACACTTGAATGTTCAACTGGTGGCGGCCGATAAACTGGCCAGTGCCCGCCTGA  
AATGTTTGTATATTAGATGAGAATCAACTGAGGATGCCTGTGAACATCTGGGAGAGTACCTGGAG  
GCATACTGGCGTGCCACCCACAGCAGTAGCACCCCTATGACCCATTACTGGGGCGGAACGTGGGCT  
CCACAGCCCTCACCATATCCCACAGCAATCTCTGGATTACAGAGTCAGCGAATGAGACACAGCAACCA  
TTCTACAGAGAATTCTCCAATTGAAAGACGAAGCCTAATGACCTCGGATGAAAATTACCACAATGAGAGG  
GCCCGCAAGAGTAGGAACCGCTTGTCTTCCAGCTCCCAGCACAGCCGAGACCACTACCCTCTGGTGAAG  
AAGATTACCCGGACTCGTACCAGGACACTATAAGCCCATAGGAACCGAGGATCGCCCGGGGGTGCAG  
CCATGACTCCCGACATAGGCTT

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229307 representing NM\_001285428  
 Red=Cloning site Green=Tags(s)

MVSGTFRATPTTTAKQKQKVTEHIPPYDVVPSMRPVVLVGP SLKGYEVTMMQKALFDFLKH RFDGRISI  
 TRVTADISLAKRSVLN NPSKRAI IERSNTRSSLAEVQSEIERIFELARSLQLV LLDADTINH PAQLIKTS  
 LAP IIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQC PPEMFDVILDENQLEDACEHLGEYLE  
 AYWRATH TSSSTPMTPLLGRNVGSTALSPYPTA ISGLQSQMRHNSHNSTENSPIERRSLMTSDENYHNER  
 ARKSRNRLSSSSQHSRDHYPLVEEDYPDSYQDTYKPHRNRGSPGGC SHDSRHRL

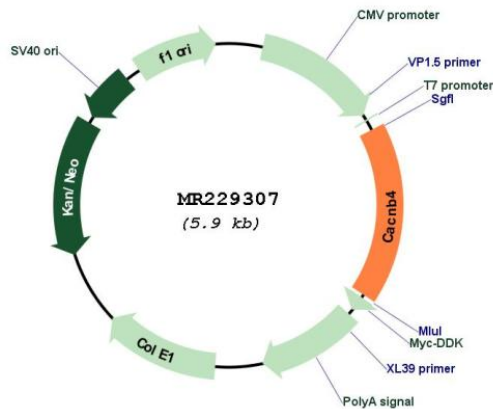
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001285428

**ORF Size:** 1002 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001285428.1</a> , <a href="#">NP_001272357.1</a>
<b>RefSeq Size:</b>	7717 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	12298
<b>Cytogenetics:</b>	2 29.98 cM
<b>MW:</b>	38.1 kDa
<b>Gene Summary:</b>	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]