

Product datasheet for **RR204310**

Cacnb4 (NM_001105733) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR204310 representing NM_001105733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATGACAATTTGTACCTGCATGGAGTTGAAGACTCGGAGGCTGGGTCAGCAGATTCCTATACAAGCA
 GGCCATCGGACTCCGATGTCTTTTGAAGAGGACCGGGAAGCGATTTCGCAAGAGAGAGAACAGCAAGC
 AGCTATCCAGCTTGAGAGAGCGAAGTCCAAACCTGTAGCTTTTGCGGTAAAAACGAATGTGAGCTACTGT
 GGTGCCCTGGATGAGGATGTGCCGTTCCAGCACAGCCATCTCCTTTGACGCCAAGGACTTTCTTCACA
 TTAAGAGAAATATAACAATGATTGGTGGATAGGAAGGCTGGTGAAGGAGGGCTGTGAGATCGGCTTCAT
 CCCAAGTCCACTGCGTTTGGAGAACATACGGATTCAACAGGAACAGAAAAGAGGCCGTTTTCATGGCGGG
 AAATCGAGTGGAACTCTTCTCCAGTCTGGGAGAAATGGTGTGAGAACATTTTCGAGCAACTCCACAA
 CAACAGCAAAACAGAAGCAGAAAGTGACAGAGCACATTCTCCGTATGATGTTGTGCCATCAATGCGTCC
 TGTGGTGTAGTGGGCCATCACTGAAAGTATGAGGTAACAGACATGATGCAGAAAGCCCTCTTTGAT
 TTCTGAAAGCACAGGTTTGTGAGGAGGATCAATAACCAGAGTGACAGCTGACATTTCTCTTGCTAAGA
 GGTCTGTCTCAACAATCCTAGCAAGAGAGCAATAATTGAACGTTCAAACACCAGATCCAGCCTAGCGGA
 AGTACAGAGTGAAATTGAAAGAATTTTCGAGTTGGCAAGATCTTTGCAATTGGTTGTTCTCGATGCAGAC
 ACCATCAATCACCCAGCACAGCTGATAAAGACATCGTTAGCGCCCATCATCGTCCACGTGAAGGTCTCGT
 CCCAAAGGTTTTACAGCGGCTGATTAAGTCCAGAGGAAAGTCCCAGAGTAAACACTTGAATGTTCAACT
 GGTGGCAGCTGATAAAGTGGCCAGTGTCCCTGAAATGTTGATGTTATATTAGATGAGAATCAACT
 GAGGATGCCTGTGAACATCTGGGAGAGTACCTGGAGGCATATTGGCGTGCCACCCACACAAGCAGTAGCA
 CCCCTATGACCCATTGCTGGGAGGAACGTGGGCTCCACAGCTCTCTCACCGTATCCCACAGCAATCTC
 TGGACTACAGAGTCAGCGGATGAGGCATAGCAACCACTCTACAGAGAATTCTCCAATTGAAAGACGAAGC
 CTAATGACCTCTGATGAAATTACCACAATGAGAGGGCCCGCAAGAGTAGGAACCGCTTGTCTCCAGCT
 CCCAGCACAGCCGAGATCACTACCCTCTGGTGAAGAAGATTATCCTGACTCATAACCAGGACACTTACAA
 ACCCATAGGAACCGAGGCTCACCTGGGGATGCAGCCATGACTCCCGACATAGGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204310 representing NM_001105733
 Red=Cloning site Green=Tags(s)

MYDNL YLHGVEDSEAGSADSYTSRPSDSVLSLEEDREAIRQEREQQAIIQLERAKSKPVAFVKTNVSYC
 GALDEDVPPVSTAI SFDKDFLHIKEKYNDWWIGRLVKEGCEIGFIPSPRLLENIRIQQEQRGRFHHG
 KSSGNSSSSLGEMVSGTFRATPTTTAKQKQKVTEHIPPYDVVPSMRPVVLVGP SLKGYEVTMMQKALFD
 FLKHRFDGRISITRVTADISLAKRSVLNPNPSKRAIIERSNTRSSLAEVQSEIERIFELARSLQLVLDAD
 TINHPAQLIKTSLAPIIVHVKVSSPKVLQRLIKSRGKSQSKHLNVQLVAADKLAQCPEMFDVILDENQL
 EDACEHLGEYLEAYWRATHSSSTPMTPLLGRNVGSTALLSPYPTAISGLQSQRMRHSNHSTENSP IERRS
 LMTSDENYHNERARKSRNRLSSSQHSRDHYPLVEEDYPPSYQDTYKPHRNRGSPGGCSDSRHRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2016_g03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001105733

ORF Size: 1458 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](#)

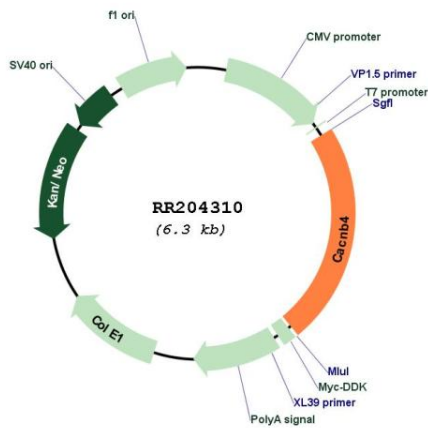
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001105733.1](#), [NP_001099203.1](#)
RefSeq Size: 3790 bp
RefSeq ORF: 1461 bp
Locus ID: 58942
UniProt ID: [D4A055](#)
Cytogenetics: 3q12
MW: 55.1 kDa
Gene Summary: calcium channel subunit that plays a role in regulating the conductance of L-type voltage gated calcium channels [RGD, Feb 2006]

Product images:



Circular map for RR204310