

Product datasheet for **RR211904**

Cacnb3 (NM_012828) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_012828) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb3
Synonyms:	CACH3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR211904 representing NM_012828
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATGACGACTCTACGTGCCGGGTTTGAGGACTCGGAGCGGGTTCAGCCGACTCCTACACCAGCC
 GCCCTCTCTGGACTCAGACGTTTCCCTGGAGGAGGACCGGGAGAGTGCCCGGCGAGAAGTGGAGAGTCA
 GGCTCAGCAGCAGCTGGAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTCAGCTAC
 TGTGGAGTTCTGGATGAGGAATGCCAGTCCAGGGCTCTGGAGTCAACTTCGAGGCCAAAGATTTCTGC
 ACATTAAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAAGAAAGTGGCGATATTGCCTT
 CATCCCCAGCCCCAACGCCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCCGGGAAC
 CCTTCCAGCCTGAGTGACATTGGCAACCGACGTTCCCTCCTCCATCTCTAGCCAAGCAGAAGCAAAAGC
 AGCGGGAACATGTCCCCCGTATGATGTGGTGCCTCCATGCGGCTGTGGTGTGGTGGGACCTCTCT
 GAAAGTTATGAGGTACAGACATGATGCAGAAGGCTCTTTCGACTTCCTTAAACACAGGTTTGTATGGC
 AGGATCTCCATCACCCGGTACGGCTGACCTCTCACTGGCCAAGCGCTCTGTGCTCAACAACTCCTGGCA
 AGAGGACCATCATCGAGCGCTTCTGCCCCGCTCCAGCATTGCTGAGGTGCAGAGTGAGATTGAGCGCAT
 ATTCGAGCTGGCCAAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAGCTA
 GCCAAGACCTCACTGGCCCCATCATCGTCTTCGTCAAAGTGTCTCGCCAAAGTACTGCAGCGACTGA
 TCCGCTCCAGGGGAAGTCCCAGATGAAGCACCTCACTGTACAGATGATGGCATAATGATAAGCTGGTTCA
 GTGCCACCTGAGTCATTGATGTGATTCTGGATGAGAACCAGCTGGACGACGCCTGTGAGCACCTAGCT
 GAATACCTAGAGGTTTACTGGCGGCTACCCACCACCCAGCACCCGGGCCCGGGATGCTGGTCCGCCCA
 GTGCCATCCCTGGACTTCAGAACCAGCAGCTGCTGGGGAGCGAGGTGAGGAGCATTACCCTTGAGCG
 GGACAGTTTGTGCCCTCGGATGAGGCCAGTGTGAGGCTCCCGCCAGGCCTGGACCGGATCTTACAGCGC
 AGCTCCCGCCATCTGGAGGAGGACTATGCAGATGCCTACCAGGACCTGTACCAGCCTCACCGTCAACACA
 CCTCGGGGCTACCCAGTGCTAACGGGCATGACCCCAAGACCGGCTCCTAGCCCAGGACTCGGAGCATGA
 CCACAATGACCGAACTGGCAGCGTAACCGGCTTGGCCTAAGGACAGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211904 representing NM_012828
 Red=Cloning site Green=Tags(s)

MYDDSYVPGFEDSEAGSADSYTSRPSLSDVLSLEEDRESARREVESQAQQQLERAKHKPVFAVRTNVS
 YCGVLDDEECPVQSGVNFCAKDFLHIKEKYSNDWWIGRLVKEGGDIAFIPSPQRLESIRLKQEQKARRSGN
 PSSSLSDIGNRRSPPPSLAKQKQKQAEHVPPYDVVPSMRPVVLVGPVSLKGYEVTMMQKALFDFLKH
 RFDGRISITRVTADLSLAKRSVLLNPNPKRTIIERSSARSSIAEVQSEIERIFELAKSLQLVVLADT
 INHPAQLAKTSLAPIIVFVKVSSPKVLQRLIRSRGKSQMKHLTVQMMAYDKLVQCPPEFDFVILDEN
 QLDDACEHLA EYLEVYWRATHHPAPGPGMLGPPSAIPGLQNQQLLGERGEEHSPLERDSLMP
 SDEASESSRQAWTGSSQRSSRHLEEDYADAYQDL YQPHRQHTSGLPSANGHDPQDRLLAQDSEHDH
 NDRNWQRNRPWPKDSY

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_012828

ORF Size: 1452 bp

OTI Disclaimer: 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_012828.2](#), [NP_036960.1](#)
RefSeq Size: 2520 bp

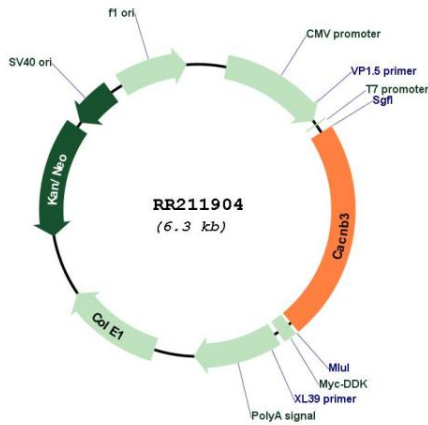
RefSeq ORF: 1455 bp

Locus ID: 25297

UniProt ID: [P54287](#)

Cytogenetics: 7q36
MW: 54.6 kDa
Gene Summary: subunit of a voltage-gated calcium channel that modulates activity of alpha 1 subunits [RGD, Feb 2006]

Product images:



Circular map for RR211904