

Product datasheet for **RR207940**

Cacnb2 (NM_053851) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb2 (NM_053851) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacnb2
Synonyms:	Cacnlb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR207940 representing NM_053851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGTCTCGGGCTGGTACATCGCCGGCAGTACGGGTGTCCTATGGTTCGGCAGACTCTACACCA
 GCCGCCATCCGATTAGATGTGTCTTTGGAAGAGGACCGGGAGGAGTCCGTAGAGAAGCTGAGCGGCA
 GGCCAGGCCAGTTGAAAAAGCAAAGACAAAACCTGTTGCATTTGAGTTCGGACCAATGTCAGGTAC
 AGCGCAGCCAGGAGGATGACGTCCCGGTGCCCGCATGGCCATCTCATTGAGGCAAAAGATTTCTGC
 ATGTTAAGGAAAAATTAATAATGACTGGTGGATAGGACGGCTGGTTAAAGAAGGCTGTGAAATCGGATT
 TATTCAGCCCGGTCAAAGTACAGAACATGAGGCTACAGCATGAACAGAGAGCAAGCAAGGAAATTC
 TACTCCAGTAAATCAGGAGGAAATTCATCATCCAGTTTGGGTGACATAGTACCCAGTTCAGAAAAATCGA
 CACCTCCATCATCTGCTATAGACATAGATGCTACTGGCTTAGATGCAGAAGAGAATGATATTCAGCAAA
 CCACCGCTCCCCTAAGCCAGTCAAACAGTGTAAAGTCAACCCACTCCAAGAGAAAAGAAATGCCCTTC
 TTTAAGAAGACAGAGCACACTCCTTACGATGTGGTACCATCCATGAGACCAGTGGTGTGGTGGGCC
 CCTCCCTGAAGGGTATGAGGTCACAGATATGATGCAAAAAGCACTGTTTGTATTTCTAAAAACAGATT
 TGAAGGACGGATATCCATCACAAGATCACTGCTGACATCTCCCTGGCCAAACGCTCAGTATTAACAAC
 CCCAGTAAACAGCAATAATAGAAAAGTCCAACACAAGGTCGAGCTTAGCGGAAGTTCAGAGTGAATTTG
 AAAGGATTTTTGAACTTGAAGAAGCACTGCAATTTGGTAGTCTTACGCGGATACAATTAATCAGCCAGC
 TCAACTCAGTAAGACCTCTCGGCCCTATCATAGTGTATGTAAGATTTCTTCTCCTAAGGTTTTACAA
 AGGTTAATAAAATCTCGAGGAAAGTCTCAAGCAAAGCACCTCAATGTCCAGATGGTGGCAGCCGATAAC
 TGGCCAGTGTCCCGCAGGAGTCAATTTGATGTGATCTTGGATGAGAACCAACTTGAGGATGCTGTGA
 GCATCTCGCCGACTATCTGGAGGCGTACTGGAAGGCCACCCACCTCCAGCAGTAACTCCCAACCTCT
 CTCTTAGCCGGACTTTAGCCACCTCACTTTACCTCTGAGCCCCACCTTGCCTCTAATTCACAGGGTT
 CTCAAGGTGATCAGAGGACTGATCGCTCTGCTCCCGGTCTGCTTCCCAAGCTGAAGAAGAACTTGTCT
 GGAACAGTCAAAAAATCCCAACACCGTCTTCTCAGCCACACACCAAAACCACCGCAGTGGGACAGGT
 CGAGGCCCTCTAGGCAAGAAACGTTTACTCTGAAACCAAGAGAGCCGAGACTCTGCCTACGTGGAGC
 CAAAGGAAGATTATCACATGAACATGTGGACCGCTATGTTCCACACCGTGAACATAACCACAGAGAGGA
 GAGCCACAGCAGCAATGGCCACAGGCACAGGGAGCCTCGCCACCGCACTAGGACATGGTTCGAGACCAA
 GACCACAATGAGTGCAGCAACAACGAAGCCGGCATAAATCTAAGGATCGCTACTGTGACAAGGAAGGGG
 AAGTAATATCAAAAAGAGGAGTGGGCTGGCGAGTGAACAGGGATGTATACATCCGCCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207940 representing NM_053851
 Red=Cloning site Green=Tags(s)

MQCCGLVHRRRVRVSYGSADSYTSRPSDSVSLIEDREAVRREAERQAQAQLEKAKTKPVAFVRTNVRY
 SAAQEDDVPVPGMAISFEAKDFLHVKEKFNNDWWIGRLVKEGCEIGFIPSPVKLENMRLQHEQRAKQKGF
 YSSKSGGNSSSLGDIVSSRKSTPPSSAIDIDATGLDAEENDIPANHRSPKPSANSVTSPPHSKEKRMPP
 FKKTEHTPPYDVVPSMRPVVLVGPVLKGYEVTMMQKALFDFLKHREGRISITRVTADISLAKRSVLNN
 PSKHAI IERSNTRSSLAEVQSEIERIFELARTLQLVVLADDTINHPAQLSKTSLAPIIVYVKISSPKVLQ
 RLIKSRGKSQAKHLNVQMVAADKLAQCAPPQESFDVILDENQLEDACEHLADYLEAYWKATHPPSSNLPNP
 LLSRTLATSTLPLSPTLASNSQGSQGDQRTDRSAPRSASQAEPEPCLPEVKKSQHRSSATHQNHRSRGTG
 RGLSRQETFDSETQESRDSAYVEPKEDYSHEHVDRYVPHREHNHREESHSSNGHRHREPHRTRDMDGRDQ
 DHNECSKQSRHKSKDRYCDKEGEVISKRRSEAGEWNRDVYIRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053851

ORF Size: 1812 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_053851.1](#), [NP_446303.1](#)
RefSeq Size: 3927 bp

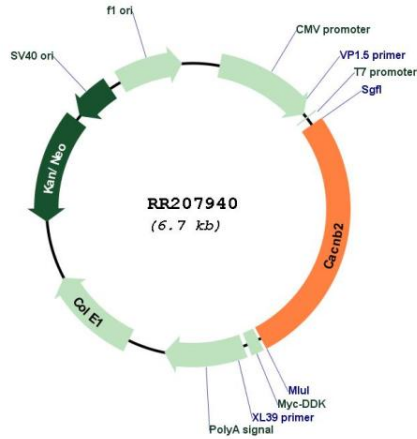
RefSeq ORF: 1815 bp

Locus ID: 116600

UniProt ID: [Q8VGC3](#)

Cytogenetics: 17q12.3
 MW: 68.2 kDa
 Gene Summary: auxillary subunit of the L-type Ca(2+) channel [RGD, Feb 2006]

Product images:



Circular map for RR207940