

Product datasheet for **MG222874**

Cacnb3 (NM_001044741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacnb3 (NM_001044741) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cacnb3
Synonyms:	Beta3; Ca(v)beta3; CAB3; Cchb3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222874 representing NM_001044741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTTCTGACTCCAGTGCACCTTCTCTGCTGAACGAGGGTTCAGCCGACTCTACACCAGCCGCC
 CCTCTCTGGACTCAGACGTCTCCCTGGAGGAGGACCGGGAGAGTGCCCGCGAGAAGTGGAGAGTCAGGC
 TCAGCAGCAGCTGAAAAGAGCCAAGCACAAACCTGTGGCATTGCTGTGAGGACCAATGTGACTACTGT
 GGGGTTCTGGATGAGGAGTCCCGGTCCAGGGCTCTGGAGTCAACTTTGAGGCCAAAAGTTTTCTGCACA
 TAAAGAGAAGTACAGCAATGACTGGTGGATCGGGAGGCTAGTAAAAGAGGGCGGAGACATCGCCTTCAT
 CCCCAGCCCCAACGCCTGGAGAGCATCCGGCTCAAACAGGAACAGAAGGCCAGGAGATCTGGAAACCTT
 TCCAGCCTGGGTGACATTGGCAACCGACGCTCTCCTCCGTCTCTAGCCAAGCAGAAGCAAAGCAGG
 CGGAACATGTTCCCCGATGATGTGGTGCCCTCCATGCGGCCTGTGGTCTGGTGGGACCTCTCTGAA
 AGGCTATGAGGTCACGGACATGATGCAGAAGCGCTCTTCGACTTCCTTAAACACAGTTTGTATGGCAGG
 ATCTCCATCACACGCGTACGGCCGACCTCTCGCTGGCCAAGCGCTCTGTGCTCAACAATCCTGGCAAGA
 GGACCATATTGAGCGCTCCTCCGCCCGCTCCAGCATTGCTGAAGTGCAGAGTGAGATTGAGCGCATATT
 CGAGCTGGCCAAATCCCTGCAGCTAGTGGTGTGGATGCTGACACCATCAACCACCCAGCACAACTTGCC
 AAGACCTCACTGGCTCCCATCATCGTCTTTGTCAAAGTGTCTCGCCAAAGGTAAGTGCAGCGACTGATCC
 GCTCCAGGGGAAAGTACAGATGAAGCACCTCACTGTACAGATGATGGCGTACGATAAGCTGGTTCACTG
 CCCACCCGAGTCATTGACGTGATTCTGGATGAGAACCAGCTAGAAGATGCTGTGAGCACCTGGCTGAA
 TACTTAGAGGTTTACTGGCGAGCGACCCACCACCAGCACCCGGCCCCGGACTGCTGGGTCGGCCTAGTG
 CCATCCCTGGACTTCAGAACCAGCAGCTGCTGGGGGAGCGAGTGGAGGAGCACTACCCCTGGAGGGGA
 CAGCCTGATGCCCTCAGATGAGGCCAGCGAGAGCTCCCGCCAGGCCTGGACCGGATCTTCACAGCGCAGC
 TCTCGCCATCTGGAGGAGGACTATGCAGATGCCTACCAGGACCTGTACCAGCCTCACCGCCAACACACCT
 CGGGGCTGCCAGTGCTAACGGGCACGACCCCCAAGACCGGCTCTAGCCAGGACTCGGAGCATGACCA
 CAATGACCGGAACTGGCAGCGTAACCGGCCTTGCCCAAGGACAGCTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222874 representing NM_001044741
 Red=Cloning site Green=Tags(s)

MSFSDSSATFLLNEGSADSYTSRPSLSDVSLLEEDRESARREVESQAQQQLERAKHKPVAFVTRNVSYSY
 GVLDEECPVQSGVNF EAKDFLHIKEKYSNDWWIGRLVKEGGDIAFIPSPQRLESIRLQEQKARRSGNP
 SSLGDIGNRRSPPPSLAKQKQKQAEHVPPYDVVPSMRPVVLVGPLSKGYEVTMMQKALFDLKHFRFDGR
 ISITRVTADLSLAKRSVLNPNPKRTI IERS SARSSIAEVQSEIERIFELAKSLQLVVLADTINHPAQLA
 KTS LAP IIVFVKVSSPKVLQRLIRSRGKSQMKHLTVQMMAYDKLVQCPPE SFDVILDENQLEDACEHLAE
 YLEVYWRATHHPAPGPGLLGPPSAIPGLQNLQQLLGERVEHSPLERDSLMP SDEASESSRQAWTGSQRS
 SRHLEEDYADAYQDLYQPHRQHTSGLPSANGHDPQDRLLAQDSEHDHNDNRNRPWPWKDSY

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

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_001044741.2](#), [NP_001038206.1](#)

RefSeq Size: 2688 bp

RefSeq ORF: 1452 bp

Locus ID: 12297

Cytogenetics: 15 54.64 cM

Gene Summary: Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents (PubMed:24751537). Increases CACNA1B peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity). Increases CACNA1C peak calcium current and shifts the voltage dependencies of channel activation and inactivation (By similarity).[UniProtKB/Swiss-Prot Function]