

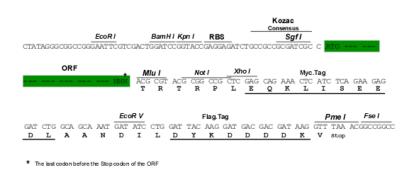
Product datasheet for RC217170

CACNA1B (NM_000718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNA1B (NM_000718) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CACNA1B
Synonyms:	BIII; CACNL1A5; CACNN; Cav2.2; DYT23; NEDNEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgfi ORF Miui GCGATCGC C ATG// NRT ACG CGT

NM_000718 7017 bp



ACCN: ORF Size:



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OriGene Technologies, Inc.

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CACNA1B (NM_000718) Human Tagged ORF Clone – RC217170

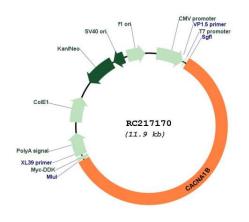
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 000718.1, NM 000718.2, NM 000718.3, NP 000709.1</u>
RefSeq Size:	9805 bp
RefSeq ORF:	7020 bp
Locus ID:	774
UniProt ID:	<u>Q00975</u>
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome, Ion Channels: Calcium, Transmembrane
Protein Pathways:	Calcium signaling pathway, MAPK signaling pathway, Taste transduction, Type II diabetes mellitus
MW:	262.9 kDa

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Gene Summary:The protein encoded by this gene is the pore-forming subunit of an N-type voltage-dependent
calcium channel, which controls neurotransmitter release from neurons. The encoded protein
forms a complex with alpha-2, beta, and delta subunits to form the high-voltage activated
channel. This channel is sensitive to omega-conotoxin-GVIA and omega-agatoxin-IIIA but
insensitive to dihydropyridines. Two transcript variants encoding different isoforms have
been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC217170

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