

## Product datasheet for **SC332047**

### CACNA1B (NM\_001243812) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CACNA1B (NM\_001243812) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CACNA1B  
**Synonyms:** BIII; CACNL1A5; CACNN; Cav2.2; DYT23; NEDNEH  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332047 representing NM\_001243812.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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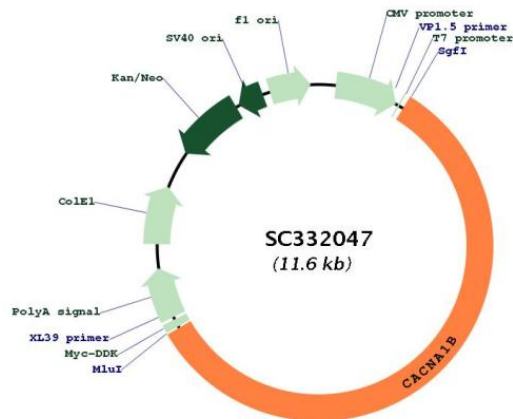
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**Restriction Sites:**

Sgfl-MluI

**Plasmid Map:**



**ACCN:** NM\_001243812

**Insert Size:** 6714 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001243812.1</u>
<b>RefSeq Size:</b>	9618 bp
<b>RefSeq ORF:</b>	6714 bp
<b>Locus ID:</b>	774
<b>UniProt ID:</b>	<u>Q00975</u>
<b>Cytogenetics:</b>	9q34.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Calcium, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, MAPK signaling pathway, Taste transduction, Type II diabetes mellitus
<b>MW:</b>	251.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>