

Product datasheet for **SC300498**

CACNA1I (NM_001003406) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNA1I (NM_001003406) Human Untagged Clone
Tag:	Tag Free
Symbol:	CACNA1I
Synonyms:	ca(v)3.3; Cav3.3
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_001003406, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGAGCGCCTCCCCGCCCTCCTCATCTGCAGCAGCCCCAGCCGCTGAGCCAGGA
GTCACCACGGAGCAGCCCGGACCCCGGAGCCCCCATCCTCCCCGCCAGGCCTGGAGGAG
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CCTGCCACAGGAGAACCTGTGGCTGGACAGCGTCTCTTTAATCATCAAGGACTCCTTGAG
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CGGAGCCCTCGTGGCCCGGACCGCAGCAAGGACCCCGCGCGGCCACCGTGGCC
ATGGGCTGGGCCCTTGGCGCCCCGCGCAACCCTCCCCGGAGAGCTGGAGCCGGGA
GACGCCCGCAGCAAGAGGAAGAGATGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001003406
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<ol style="list-style-type: none">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:	<u>NM_001003406.1</u> , <u>NP_001003406.1</u>
RefSeq Size:	9902 bp
RefSeq ORF:	6567 bp
Locus ID:	8911
UniProt ID:	<u>Q9P0X4</u>
Cytogenetics:	22q13.1
Protein Families:	Druggable Genome, Ion Channels: Calcium, Transmembrane
Protein Pathways:	Calcium signaling pathway, MAPK signaling pathway
Gene Summary:	<p>This gene encodes the pore-forming alpha subunit of a voltage gated calcium channel. The encoded protein is a member of a subfamily of calcium channels referred to as is a low voltage-activated, T-type, calcium channel. The channel encoded by this protein is characterized by a slower activation and inactivation compared to other T-type calcium channels. This protein may be involved in calcium signaling in neurons. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame coding exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p>