

## Product datasheet for **SC332474**

### CACNA1F (NM\_001256790) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CACNA1F (NM\_001256790) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CACNA1F  
**Synonyms:** AIED; Cav1.4; Cav1.4alpha1; COD3; COD4; CORDX; CORDX3; CSNB2; CSNB2A; CSNBX2; JM8; JMC8; OA2  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332474 representing NM\_001256790.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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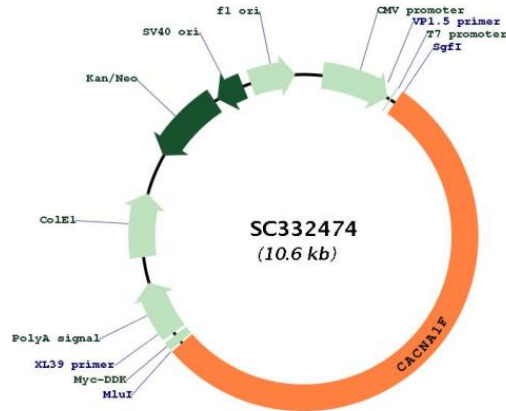
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**Restriction Sites:**

Sgfl-MluI

**Plasmid Map:**



**ACCN:** NM\_001256790

**Insert Size:** 5739 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).

**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\\_001256790.2](#)

**RefSeq Size:** 5875 bp

**RefSeq ORF:** 5739 bp

**Locus ID:** 778

<b>UniProt ID:</b>	<u>O60840</u>
<b>Cytogenetics:</b>	Xp11.23
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Calcium, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, GnRH signaling pathway, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Vascular smooth muscle contraction
<b>MW:</b>	214 kDa
<b>Gene Summary:</b>	<p>This gene encodes a multipass transmembrane protein that functions as an alpha-1 subunit of the voltage-dependent calcium channel, which mediates the influx of calcium ions into the cell. The encoded protein forms a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Mutations in this gene can cause X-linked eye disorders, including congenital stationary night blindness type 2A, cone-rod dystrophy, and Aland Island eye disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Aug 2013]</p> <p>Transcript Variant: This variant (3) uses two alternate splice sites in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>