

## Product datasheet for **RC219081L3V**

### **CACNA2D1 (NM\_000722) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	CACNA2D1 (NM_000722) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CACNA2D1
Synonyms:	CACNA2; CACNL2A; CCHL2A; LINC01112; lncRNA-N3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_000722
ORF Size:	3273 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219081).
OTI Disclaimer:	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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_000722.2</a>
RefSeq Size:	3822 bp
RefSeq ORF:	3276 bp
Locus ID:	781
UniProt ID:	<a href="#">P54289</a>
Cytogenetics:	7q21.11
Domains:	VWA, Cache
Protein Families:	Druggable Genome, Ion Channels: Other



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**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

**MW:** 123 kDa

**Gene Summary:** The preproprotein encoded by this gene is cleaved into multiple chains that comprise the alpha-2 and delta subunits of the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. Mutations in this gene can cause cardiac deficiencies, including Brugada syndrome and short QT syndrome. Alternate splicing results in multiple transcript variants, some of which may lack the delta subunit portion. [provided by RefSeq, Nov 2014]