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Product datasheet for RC222306L2V

CACNA2D3 (NM_018398) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CACNA2D3 (NM_018398) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CACNA2D3
Synonyms:	HSA272268
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_018398
ORF Size:	3273 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222306).
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. More info
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:	NM_018398.2, NP_060868.2
RefSeq Size:	3689 bp
RefSeq ORF:	3276 bp
Locus ID:	55799
UniProt ID:	Q8IZS8
Cytogenetics:	3p21.1-p14.3
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: 122.8 kDa

Gene Summary: This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]