

Product datasheet for **RC221733L1V**

CACNA1E (NM_000721) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CACNA1E (NM_000721) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CACNA1E
Synonyms:	BII; CACH6; CACNL1A6; Cav2.3; DEE69; EIEE69; gm139
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_000721
ORF Size:	6810 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221733).
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_000721.2
RefSeq Size:	9734 bp
RefSeq ORF:	6813 bp
Locus ID:	777
UniProt ID:	Q15878
Cytogenetics:	1q25.3
Domains:	ion_trans
Protein Families:	Druggable Genome, Ion Channels: Calcium, Transmembrane



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Protein Pathways: Calcium signaling pathway, MAPK signaling pathway, Type II diabetes mellitus

MW: 256.9 kDa

Gene Summary: Voltage-dependent calcium channels are multisubunit complexes consisting of alpha-1, alpha-2, beta, and delta subunits in a 1:1:1:1 ratio. These channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. This gene encodes the alpha-1E subunit of the R-type calcium channels, which belong to the 'high-voltage activated' group that maybe involved in the modulation of firing patterns of neurons important for information processing. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Apr 2011]