

Product datasheet for **MR226265**

Cacna1h (NM_021415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1h (NM_021415) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cacna1h
Synonyms:	alpha13.2; Cav3; Cav3.2; MNCb-1209
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226265 representing NM_021415 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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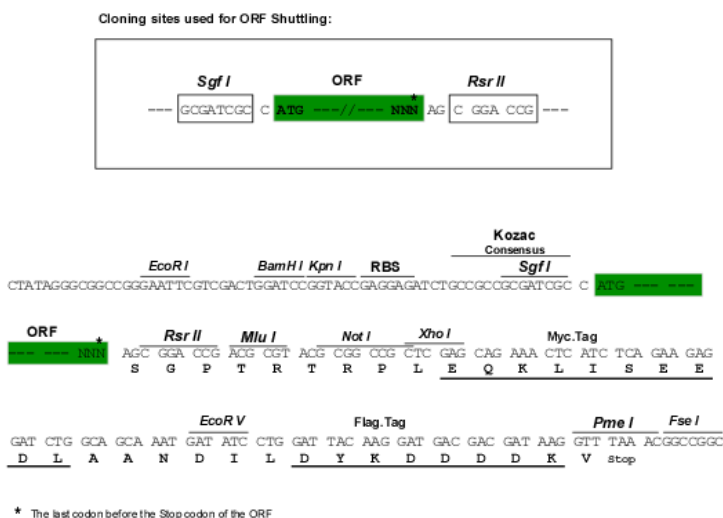
Protein Sequence: >MR226265 representing NM_021415
 Red=Cloning site Green=Tags(s)

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 STEGPGTGGDPVAKGERWQASCRAEHL TVPNFAFEPLDMGGPGGDCFLDSDQSVTPEPRVSSLGAI VPL
 ILETLSMPSGDPPEKEQGLYL TVPQTPLKKPGSPPATPAPDDSGDEPV

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9010_g06.zip

Restriction Sites: Sgfl-RsrII

Cloning Scheme:


ACCN: NM_021415

ORF Size: 7077 bp

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.

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_021415.4](#), [NP_067390.4](#)

RefSeq Size: 8240 bp

RefSeq ORF: 7080 bp

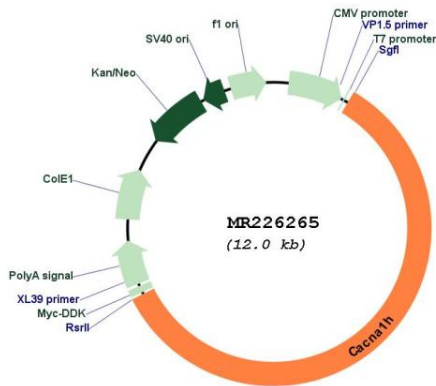
Locus ID: 58226

Cytogenetics: 17 12.53 cM

MW: 261.7 kDa

Gene Summary: Voltage-dependent Ca(2+) channels mediate the entry of Ca(2+) ions into excitable cells and are involved in a variety of Ca(2+)-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. The protein encoded by this gene is an integral membrane protein that belongs to the calcium channel alpha-1 subunits family. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

Product images:



Circular map for MR226265