

Product datasheet for RC212772

CACNA1H (NM_021098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CACNA1H (NM_021098) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CACNA1H
Synonyms:	CACNA1HB; Cav3.2; ECA6; EIG6; HALD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212772 representing NM_021098 Red=Cloning site Blue=ORF Green=Tags(s)

GCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGCCAGATCTC
AAGCTTAAGCTAGCTAGCGGACCGAC

ATGACCGAGGGCGCACGGGCCGCCGACGAGGTCCGGGTGCCCTGGGCGCGCCGCCCTGGCCCTGCGG
CGTTGGTGGGGCGTCCCGGAGAGCCCCGGGGCGCCGGGACGCGAGGCGGAGCGGGGTCCGAGCTCGG
CGTGTACCCTCCGAGAGCCCGGCGGCGAGCGCGGCGCGGAGCTGGGTGCCGACGAGGAGCAGCGCGTC
CCGTACCCGGCCTTGGCGCCACGGTCTTCTTCTGCTCGGTGAGACGCGGCGCGCAGCTGGTGCC
TCCGGCTGGTCTGCAACCCATGGTTCGAGCACGTGAGCATGCTGGTAATCATGCTCAACTGCGTGACCT
GGGCATGTTCCGGCCCTGTGAGGACGTTGAGTGCAGCTCCGAGCGCTGCAACATCCTGGAGCGCTTGGC
GCCTTCATTTTCGCTTTTTTGGCGTGGAGATGGTCATCAAGATGGTGGCCTTGGGGCTGTTCCGGCAGA
AGTGTTACCTGGGTGACACGTGGAACAGGCTGGATTTCTTCATCGTCGTGGCGGGCATGATGGAGTACTC
GTTGGACGGACACAACGTGAGCCTCTCGGCTATCAGGACCGTGCAGGCTGCTGCGGCCCTCCGCGCCATC
AACCGCGTGCCTAGCATGCGGATCCTGGTCACTCTGCTGCTGGATACGCTGCCATGCTCGGGAACGTCC
TTCTGCTGTGCTTCTTCGCTTCTTCATTTTCGGCATCGTTGGCGTCCAGCTCTGGGCTGGCCTCCTGCG
GAACCGCTGCTTCTGGACAGTGCCTTTGTGAGGAACAACAACCTGACCTTCTGCGGCCGTAACACAG
ACGGAGGAGGGCGAGGAGAACCGTTCATCTGCTCCTCACGCGGAGACAACGGCATGAGAAAGTGCCTCG
ACATCCCCGGCCCGCGAGCTGCGCATGCCCTGCACCCTGGGCTGGGAGGCTACACGACGCGCAGGCG
CGAGGGGGTGGGCGCTGCACGCAACGCCTGCATCAACTGGAACAGTACTACAACGTGTGCCCTCGGGT
GACTCAAACCCCAACCGGTGCCATCAACTTCGACAACATCGGCTACGCTGGATTGCCATCTTCCAGG
TGATCACGCTGGAAGGCTGGGTGGACATCATGTACTACGTGATGACGCGCCACTCATTCTACAACCTCAT
CTATTTTCATCCTGCTCATCATCGTGGGCTCCTTTCATGATCAACCTGTGCTGGTGGTATTGCCACG
CAGTTCTCGGAGACGAAGCAGCGGGAGAGTCACTGATGCGGGAGCAGCGGGCACCCACCTGTCCAACG
ACAGCACGCTGGCCAGCTTCTCCGAGCCTGGCAGCTGCTACGAAGAGCTGCTGAAGTACGTGGCCACAT
ATTCGCAAGGTCAAGCGCGCAGCTTGGCCTCTACGCCGCTGCGAGACCGCTGGCGCAAGAAGGTG



[View online >](#)

GACCCAGTGTGTGCAAGGCCAGGGTCCCAGGCCACCGCCAGCGCCGGCAGGCAGGCACACAGCCTCGG
 TGCACCACCTGGTTTACCACCACCATCACCACCACCACCACCACCACCATTTCAGCCATGGCAGCCCCCG
 CAGGCCCGGCCCGAGCCAGGCGCTGCGACACCAGGCTGGTCCGAGCTGGCGCGCCCCCTCGCCACCT
 TCCCCAGGCCCGGACCCCCGACGCAGAGTCTGTGCACAGCATCTACCATGCCGACTGCCACATAGAGG
 GGCCGCAGGAGAGGGCCCGGTGGCACATGCCGCAGCCACTGCCGCTGCCAGCCTCAGACTGGCCACAGG
 GCTGGGCACCATGAACTACCCACGATCCTGCCCTCAGGGGTGGCAGCGGCAAAGGCAGCACCAGCCCC
 GGACCCAAGGGGAAGTGGCCCGTGGACCAGCCAGGCACCGGGGGCAGCGCCCGTTGAGCTTGAACAGCC
 CTGATCCCTACGAGAAGATCCCGCATGTGGTCCGGGAGCATGGACTGGGCCAGGCCCTGGCCATCTGTC
 GGGCCTCAGTGTGCCCTGCCCCCTGCCAGCCCCAGCGGGCAGACTGACCTGTGAGCTGAAGAGCTGC
 CCGTACTGCACCCGTGCCCTGGAGGACCGGAGGGTGGAGTCCAGCGGCTCGGAAAGTGGAGACTCAGATG
 GCCGTGGCGTCTATGAATTCACGCAGGACGTCCGGCAGGTGACCCTGGGACCCACGCGACCACCCCG
 TGCGACGGACACACCAGGCCAGGCCAGGCAGCCCCAGCGCGGGCAGCAGAGGGCAGCCCCGGGC
 GAGCCAGGCTGGATGGCCCGCTCTGGTTACCTTCAGCGCAAGCTGCGCCGCATCGTGGACAGCAAGT
 ACTTCAGCCGTGGCATCATGATGGCCATCCTTGTCAACACGCTGAGCATGGCGTGGAGTACCATGAGCA
 GCCCGAGGAGCTGACTAATGCTCTGGAGATCAGCAACATCGTGTTCACCAGCATGTTTCCCTGGAGATG
 CTGCTGAAGCTGCTGGCCTGCGGCCCTCTGGGCTACATCCGGAACCCGTACAACATCTTCGACGGCATCA
 TCGTGGTTCATCAGCGTCTGGGAGATCGTGGGGCAGGCGGACGGTGGCTTGTCTGTGCTGCGCACCTCCG
 GCTGCTGCGTGTGCTGAAGCTGGTGCCTTCTGCCAGCCCTGCGGCGCCAGCTCGTGGTGTGGTGAAG
 ACCATGGACAACGTGGCTACCTTCTGCACGCTGCTCATGCTTTCATTTTCATCTTCAGCATCCTGGGCA
 TGCACCTTTTCGGCTGCAAGTTCAGCCTGAAGACAGACACCGGAGACACCGTGCCTGACAGGAAGAACTT
 CGACTCCCTGCTGTGGCCATCGTCACCGTGTTCAGATCCTGACCCAGGAGGACTGGAACGTGGTCCGT
 TACAACGGCATGGCCTCCACCTCCTCTGGGCCCCCTACTTCGTGGCCCTCATGACCTTCGGCAACT
 ATGTGCTCTTCAACCTGCTGGTGGCCATCCTCGTGGAGGGTTCAGCGGAGGGCGATGCCAACAGATC
 CGACACGGACGAGGACAAGACGTCCGTCCACTTCGAGGAGGACTTCCACAAGCTCAGAGAATCCAGACC
 ACAGAGCTGAAGATGTGTTCCCTGGCCGTGACCCCAACGGGCACCTGGAGGGACGAGGCAGCCTGTCCC
 CTCCCCTCATCATGTGCACAGCTGCCACGCCATGCCTACCCCAAGAGCTCACCATTCTGGATGCAGC
 CCCCAGCCTCCCAGACTCTCGCGTGGCAGCAGCAGCTCCGGGGACCCGCCACTGGGAGACCAGAAGCCT
 CCGGCCAGCCTCCGAAGTTCCTCTGTGCCCTGGGGCCCCAGTGGCGCCTGGAGCAGCCGGCGCTCCA
 GCTGGAGCAGCCTGGGCCGTGCCCCAGCCTCAAGCGCCGCGCCAGTGTGGGAACGTGAGTCCCTGCT
 GTCTGGCAGGGCAAGGGCAGCACCGACGCAAGCTGAGGACGGCAGGGCCGCGCCGGGCCCGCTGCC
 ACCCCACTGCGGGGGCCGAGTCCCTGGACCCACGGCCCTGCGGCCGGCCGCTCCCGCTACCAAGT
 GCCCGCATCGCGACGGGCAGGTGGTGGCCCTGCCAGCGACTTCTTCTGCGCATCGACAGCCACCGTGA
 GGATGCAGCCGAGCTTGACGACGACTCGGAGGACAGCTGCTGCCTCCGCCTGCATAAAGTGTGGAGCCC
 TACAAGCCCCAGTGGTGGCCGAGCCGCGAGGCCTGGGCCCTTACCTTCTTCTCCCCACAGAACCAGTTC
 GCGTCTCTGCCAGAAGGTATCACACACAAGATGTTTATCACGTGGTCCCTCGTCTTATCTTCTCTCAA
 CTGCGTACCATCGCCCTGGAGAGGCTGACATTGACCCCGCAGCACCAGCGGGTCTTCTCAGCGTC
 TCCAATTACATCTTACGGCCATCTTCTGGCAGAGATGATGGTGAAGGTGGTGGCCCTGGGGTCTGT
 CCGGCGAGCAGCCTACCTGCAGAGCAGCTGGAACCTGCTGGATGGGCTGCTGGTGTCCCTGCTGTG
 GGACATTGCTGGCCATGGCCTCGGCTGGTGGCGCCAAGATCCTGGGTGTTCTGCGCGTGTGCTGCTGTG
 CTGCGGACCCTGCGGCCCTGAGGGTATCAGCCGGGCCCGGGCCTCAAGCTGGTGGTGGAGACGCTGA
 TATCATCACTCAGGCCATTGGGAACATCGTCTCATCTGCTGCGCCTTCTTATCATTTCATGCTGCTT
 GGGTGTGAGCTTCTAAAGGGAAGTTCCTACTACTGCGAGGGCCCCGACACCAGGAACATCTCCACCAAG
 GCACAGTGCAGGGCCGCCACTACCGTGGGTGCGACGCAAGTACAACCTCGACAACCTGGGCCAGGCC
 TGATGTCGCTGTTCTGCTGTATCCAAGGATGGATGGTGAACATCATGTACGACGGGTGGATGCCGT
 GGGTGTGACAGCAGCCTGTGAGAACCACAACCCCTGGATGCTGCTGACTTTCATCTCCTTCTGCTC
 ATCGTCAGCTTCTGCTGCTCAACATGTTCTGGGGCTGCTGGTGCAGAACTTCCACAAGTCCCGGCAGC
 ACCAGGAGGGGAGGAGGCGGGCGGCGAGAGGAGAAGCGGCTGCGGCGCCTAGAGAGGAGGCGCAGGAG
 CACTTTCCAGCCAGAGGCCAGCGCCGCCCTACTATGCCGACTACTCGCCACGCGCGCTCCATT
 CACTCGCTGTGCACCAGCCACTATCTCGACCTTTCATCACCTTCATCATCTGTGTAACGTTCATACCA
 TGTCCATGGAGCACTATAACCAACCCAAGTCGCTGGACGAGGCCCTCAAGTACTGCAACTACGTCTTTCAC
 CATCGTGTGTTGCTTCGAGGCTGCACTGAAGCTGGTAGCATTGGGTTCCGTGCGTTCCTCAAGGACAGG
 TGAACACAGCTGGACCTGGCCATCGTGTGCTGTCACTCATGGGCATCACGCTGGAGGAGATAGAGATGA

GCGCCGCGCTGCCATCAACCCACCATCATCCGCATCATGCGCGTGCTTCGCATTGCCCGTGTGCTGAA
GCTGCTGAAGATGGCTACGGGCATGCGCGCCCTGCTGGACACTGTGGTGAAGCTCTCCCCAGGTGGG
AACCTGGGCTTCTTTTCATGCTCCTGTTTTTATCTATGCTGCGCTGGGAGTGGAGCTGTTGCGGAGGC
TGGAGTGCAGTGAAGACAACCCCTGCGAGGGCCTGAGCAGGCACGCCACCTTCAGCAACTCGGCATGGC
CTTCTCACGCTGTTCCGCGTGTCCACGGGGACAACCTGGAACGGGATCATGAAGGACACGCTGCGCGAG
TGCTCCCGTGAGGACAAGCACTGCCTGAGCTACCTGCCGGCCCTGTCGCCCGTCTACTTCGTGACCTTCG
TGCTGGTGGCCCAAGTTCGTGCTGGTGAAGTGGTGGTGGCCGTGCTCATGAAGCACCTGGAGGAGAGCAA
CAAGGAGGCACGGGAGGATGCGGAGCTGGACGCCGAGATCGAGCTGGAGATGGCGCAGGGCCCCGGGAGT
GCACGCCGGGTGGACGCGGACAGGCCTCCCTTGCCCCAGGAGAGTCCGGGCGCCAGGGATGCCCCAAACC
TGGTTGCACGCAAGGTGTCCGTGTCCAGGATGCTCTCGCTGCCAACGACAGCTACATGTTGAGGCCGT
GGTGCCTGCCTCGGCGCCCCACCCCGCCCGCTGCAGGAGGTGGAGATGGAGACCTATGGGGCCGGCACC
CCCTTGGGCTCCGTTGCCTCTGTGCACTCTCCGCCCGAGAGTCTGTGCCTCCCTCCAGATCCCACTGG
CTGTGTGCTCCCCAGCCAGGAGCGGCGAGCCCTCCACGCCCTGTCCCCTCGGGGCACAGCCGCTCCCC
CAGTCTCAGCCGGCTGCTCTGCAGACAGGAGGCTGTGCACACCGATTCCCTGGAAGGGAAGATTGACAGC
CCTAGGGACACCCTGGATCCTGCAGAGCCTGGTGAAGAAACCCCGGTGAGGCCGGTGACCCAGGGGGCT
CCCTGCAGTCCCCACCACGCTCCCCACGGCCCGCCAGCGTCCGCACTCGTAAGCATACCTTCGGACAGCG
CTGCGTCTCCAGCCGGCCGGCGGCCCCAGGCGGAGAGGAGGCCGAGGCCCTCGGACCCAGCCGACGAGGAG
GTCAGCCACATCACCAGCTCCGCTGCCCTGGCAGCCACAGCCGAGCCCATGGCCCCGAAGCCTCTC
CGGTGGCCGGCGGCGAGCGGGACCTGCGCAGGCTCTACAGCGTGGACGCTCAGGGCTTCCTGGACAAGCC
GGGCCGGGACAGCAGCAGTGGCGGCCCTCGGCGGAGCTGGGCAGCGGGGAGCCTGGGGAGGCGAAGGCC
TGGGGCCCTGAGGCCGAGCCGCTCTGGGTGCGCGCAGAAAGAAGAAGATGAGCCCCCTGCATCTCGG
TGGAACCCCTGCGGAGGACGAGGGCTCTGCGCGGCCCTCCGCGGCAGAGGGCGGCAGCACCACACTGAG
GCGCAGGACCCCTCCTGTGAGGCCACGCCTCACAGGGACTCCCTGGAGCCACAGAGGGCTCAGGCGCC
GGGGGGGACCCCTGCAGCCAAGGGGGAGCGCTGGGGCCAGGCCTCCTGCCGGCTGAGCACCTGACCGTCC
CCAGCTTTGCCTTTGAGCCGCTGGACCTCGGGTCCCCAGTGGAGACCCTTTCTTGACGGTAGCCACAG
TGTGACCCAGAAATCCAGAGCTTCTCTTACAGGGCCATAGTGCCCTGGAACCCCAAGATCAGAGCCT
CCCATGCCGTCGGTGACCCCCAGAGAAGAGGCGGGGCTGTACCTCACAGTCCCCAGTGTCTCTGG
AGAAACCAGGGTCCCCCTCAGCCACCCCTGCCCCAGGGGTGGTGCAGATGACCCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

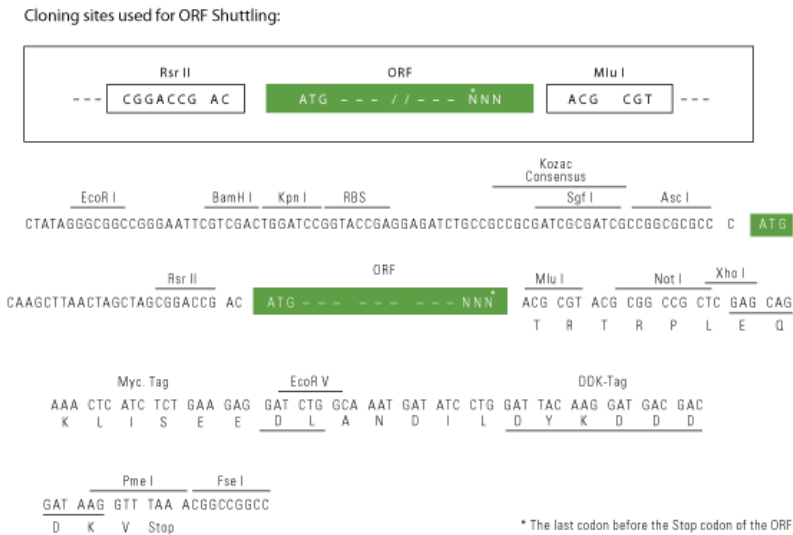
Protein Sequence: >RC212772 representing NM_021098
 Red=Cloning site Green=Tags(s)

MTEGARAADDEVRVPLGAPPPGPAALVGASPESPGAPGREAEERGSSELGVSPSESPAERGAELGADEEQRV
 PYPALAAATVFFCLGQTTTPRSWCLRLVCNPWFHEHVSMLVIMLNCVTLGMFRPCEDVECGSERCNILEAFD
 AFIFAFFAVEMVIKMAVALGLFGQKCYLGDTWNRLDFFIVVAGMMEYSLDGHNVSLSAIRTVRVLRPLRAI
 NRVPMSRILVTLTLLDTPMLGNVLLLCFFVFFIFGIVGVQLWAGLLRNRCFLDSAFVRNNLTLFLRPYYQ
 TEEGEENPFICSSRRDNGMQKCSHIPGRREL RMPCTLGWEAYTQQAEGVGAARNACINWNQYNNVCRSG
 DSNPHNGAINFDNIGYAWIAIFQVITLEGWVDIMYYVMDAHSFYNFYIFILLIIVGSFFMINLCLVVIAT
 QFSETKQRESQLMREQRARHLSNDSTLASFSEPGSCYEELLKYVGHIFRKYKRRSLRLYARWQSRWRKKV
 DPSAVQGGQPGHRQRAGRHTASVHHLVYHHHHHHHHYHF SHGSPRRPGPEPGACDTRLVRAGAPPSP
 SPGRGPPDAESVHSIYHADCHIEGPQERARVAHAATAAASLRLATGLGMNYPTILPSGVSGKGTSP
 GPKGKWAGGPPGTGGHGPLSLNSPDPYEKIPHVVEHGLGQAPGHL SGLSVCPLPSPAGTLTCELKSC
 PYCTRALEDPEGELSGSESGDSDGRGVYEFTQDVRHGDRWDPTRPPRATDTPGPGSPQRAAQQRAAPG
 EPGWMGRLLWVTFSGKLRRIVDISKYFSRGIMMAILVNTLSMGVEYHEQPEELTNALEISNIVFTSMFALEM
 LLKLLACGPLGYIRNPYNIFDGIIVVISVWEIVGQADGGLSVLRTFRLLRVLKLVRFLPALRRQLVVLVK
 TMDNVATFCTLLMLFIFIFSILGMHLFGCKFLSKTDTGDTVPDRKNFDSLWAIIVTVFQILTQEDWNVVL
 YNGMASTSSWAALYFVALMTFGNYVLFNLLVAIIVVEGFAEGDANRSDTDEDKTSVHFEEDFHKLRELQT
 TELKMCSLAVTPNGHLEGRGSLSPPLIMCTAATPMPPTKSSPFLDAAPSLPDSRRGSSSSGDPPLGDQKP
 PASLRSSPCAPWPGSGAWSSRRSSWSSLGRAPSLKRRGQCGERESLLSGEGKGTDDAEADGRAAPGPA
 TPLRRAESLDPRPLRPAALPPTKCRDRDQVVALPSDFLRLIDSHREDAEELDDSEDSCCLRLHKVLEP
 YKPQWCRSREAWALYLFSPQNRFRVSCQKVIITHKMFHDHVVLFIFLNCVTIALERPDI DPGSTERVFLSV
 SNYIFTAIFVAEMMVKVALGLLGEHAYLQSSWNL DGLLVLVSLVDIVVAMASAGGAKILGVLRLRL
 LRTLRLRVISRAPGLKLVVETLISLRLPIGNIVLICCAFFIIFGILGVQLFKGKFYYCEGPDTRNISTK
 AQCRAAHYRWRRKYNFNLGQALMSLFVLSKDGWVNI MYDGLDAVGVDQQPQVQNHNPWMLLYFISFLL
 IVSFFVLNMFVGVVVENFHKCRQHQAEEARRREEKRLRRLERRRRSTFPSPEAQRPPYADYSPTRRSI
 HSLCTSHYLDLFIITFIICVNVITMSMEHYNQPKSLDEALKYCNVFTIVFVFEAALKLVAFGFRFFKDR
 WNQLDLAIVLLSLMGITLEEIEMSAALPINPTIIRIMRVLRIARVLKLLKMATGMRALLDVTVQALPQVG
 NLGLL FMLLFFIYAALGVELFGRLECSEDNPCEGLSRHATFSNFGMAFLTLFRVSTGDNWNGIMKDTLRE
 CSREDKHCLSYLPALSPVYFVTVLVAQFVLVNVVVAVLMKHLEESNKEAREDAELDAEIELEMAQPGS
 ARRVDADRPPLPQESPGARDAPNLVARKVSVSRMLS LPNDSYMFRRPVVPASAPHRPLQEVEMETYGAGT
 PLGSVASVHSPPAESCASLQIPLAVSSPARSGEPLHALSPRG TARSPSLRLLCRQEAVHTDSLEGKIDS
 PRDTLDP AEPGEKTPVRPVTQGGSLQSPPRSPRPASVTRKHTFGQRCVSSRPAAPGGEEAEASDPADEE
 VSHITSSACPWQPTAEPHGPEASPVAGGERDLRRLYSVDAQGFLDKPGRADQWRPSAELGSGEPGEAKA
 WGPEAEPALGARRKKMSPPCISVEPPAEDEGSARPSAAEGGSTTLRRRTPSCEATPHRDSLEPTEGSGA
 GGDPAAKGERWQASCRAEHLTVPSFAFEPLDLGVPSGDPFLDGSHSVTPESRASSSGAIVPLEPPESEP
 PMPVGDPEKRRGLYLTVPCPLEKPGSPSATPAPGGGADDPV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1831_f12.zip

Restriction Sites: RsrII-MluI

Cloning Scheme:


ACCN: NM_021098

ORF Size: 7059 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021098.3](#)

RefSeq Size: 8097 bp

RefSeq ORF: 7062 bp

Locus ID: 8912

UniProt ID: [O95180](#)

Cytogenetics: 16p13.3

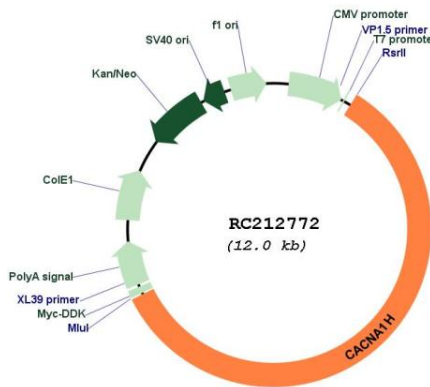
Protein Families: Druggable Genome, Ion Channels: Calcium, Transmembrane

Protein Pathways: Calcium signaling pathway, MAPK signaling pathway

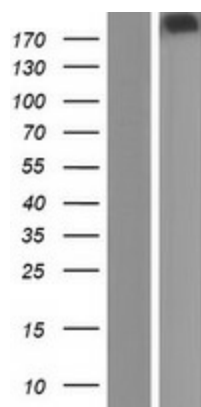
MW: 259 kDa

Gene Summary: This gene encodes a T-type member of the alpha-1 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. The alpha-1 subunit has 24 transmembrane segments and forms the pore through which ions pass into the cell. There are multiple isoforms of each of the proteins in the complex, either encoded by different genes or the result of alternative splicing of transcripts. Alternate transcriptional splice variants, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212772



Western blot validation of overexpression lysate (Cat# [LY412088]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212772 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).