

Product datasheet for MR211721

Cacna2d2 (NM_001174047) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna2d2 (NM_001174047) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cacna2d2
Synonyms: a2d2; Cacna2d; du; mKIAA0558; td; torpid
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211721 representing NM_001174047
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCCGGCTCGGACCTGCGGGCTTCTTGGCCCGGCCGGTGGGACCGCTCGCCCTGGCCCG
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CACACGATGCAGCACTGGCCCGCGCCTGGAGCAGGAGATTGACGGTGTGATGCGGATTTTGGAGGCG
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CAGCGCCTTAAGGCTGGACTTCATCGAGGACCCAACTTCAAGAACAAAGTCAACTATTCATACACGGCT
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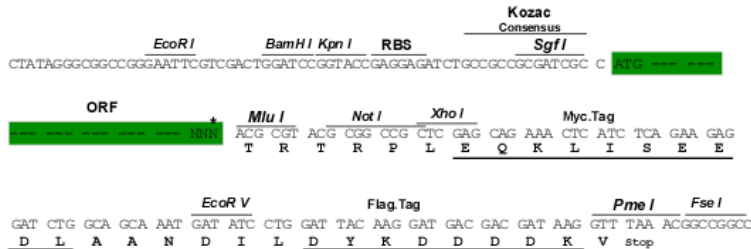
Protein Sequence: >MR211721 representing NM_001174047
 Red=Cloning site Green=Tags(s)

MAVPARTCGASWPGPVRTARPWPGRGPRPCDPRGPASGPAPRLLLLLPLLLLPLLTAPGASAYSFPQQ
 HTMQHWARRLEQEIDGVMRIFGGVQQLREIYKDNRNLFVQENEPQKLVEKVAGDIESLLDRKVQALKRL
 ADAAENFQKAHRWQDNIKEEDIMYYDAKADAELDDPESEDMERGSKTSALRLDFIEDPNFNKVNYSYTA
 VQIPTDIYKGSTVILNELNWTEALENVFIENRRQDPTLLWQVFGSATGVTRYYPATPWRAPKKIDLYDVR
 RRPWYIQGASSPKDMVIVDVSGSVSGLTLKLMKTSVCEMLDTLSDDDYVNVASFNEKAQPVSCFTHLVQ
 ANVRNKKVFKEAVQGMVAKGTTGYKAGFEYAFDQLQNSNITRANCNKMIMMFTDGGEDRVQDVFKEYNWP
 NRTVRVFTFSVGQHNYDVTPLQWMACTNKGGYFEIPSIGAIRINTQEYLDVLRPMLVLAGDAKQVQWTN
 VYEDALGLGLVVTGTLPVFNLTDQGPGEKKNQLILGVMGIDVALNDIKRLTPNYTLGANGYVFAIDLNGY
 VLLHPNLKPQTTNFREPVLDFLDAELEDENKEEIRRSMDGDKGHKQIRTLVKSLLDERYIDEVIRNYTW
 VPIRSTNYSGLVLPYSTYYLQANLSDQILQVKLPISKLKDFEFLLPSSFSEGHVFIAPREYCKDLNA
 SDNNTFELKNFIELMEKVTPDSKQCNNFLLHNLILDTGITQQLVERVWRDQDLNTYSLLAVFAATDGGIT
 RVFPNKAEDWTENPEPFNASFYRRSLDNHGYIFKPPHQDSSLRPLELENDTVGVLVSTAVELSLGRRTL
 RPAVVGVKLDLEAWAEKFKVLASNRTHQDQPQKCGPSSHCEMDCEVNNEDLLCVLIDDGGFLVLSNQNHQ
 WDQVGRFFSEVDANLMLALYNSFYTRKESYDQAACAPQPPGNLGAAPRGVVFVPTIADFLNLAWWTSAA
 AWSLFQQLLYGLIYHSWFQADPAEAGSPETRESSCVMKQTQYYFGSVNASYNAIIDCGNCSRLFHAQRL
 TNTNLLFVVAEKPLCSQCEAGRLLQKETHCPADGPEQCELVQRPYRRGPHICFDYNATEDTSDCGRGAS
 FPPSLGVLVSLQLLLLLLGLPPRPQPVHSAASRHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shuttling:



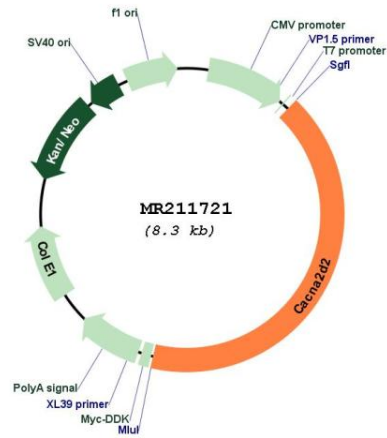
* The last codon before the Stop codon of the ORF

ACCN: NM_001174047

ORF Size: 3468 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:	<ol style="list-style-type: none">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_001174047.1 , NP_001167518.1
RefSeq Size:	5539 bp
RefSeq ORF:	3471 bp
Locus ID:	56808
UniProt ID:	Q6PHS9
Cytogenetics:	9 58.02 cM
MW:	131 kDa
Gene Summary:	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel. Acts as a regulatory subunit for P/Q-type calcium channel (CACNA1A), N-type (CACNA1B), L-type (CACNA1C OR CACNA1D) and possibly T-type (CACNA1G).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211721