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Product datasheet for RN217505

Cacna2d4 (NM_001191751) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna2d4 (NM_001191751) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna2d4
Synonyms:	RGD1562038
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>RN217505 representing NM_001191751
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAGGGACCTGGGTGGCAGCAAGTTCGTTCACAGCAGGAGCACTGTCCTCCTCCCCTGTCCCTCCC
CCAGTGGGAACACCATGGCAAGAAGCCCCACATTGTCCTCCAGCCACAGCTGGGGCCACCGTGGACAGCA
GACAGCTGCATGGACCTTCCTGCGGAAAATGCCAATTGTCCTGTGGCTGCTGCTCTTGGACACCTCCCTG
CCGACTGCAAGGAGCCAGGCTACAATTCCTCTGGAAACAGTGAAGCTCTGGGCTGAAACCTTCGGCAGGG
ATCTGTACAGCACGGTGACCAGATACTCGGGTTCTCTCCTGCTGCAGAAGAAGTACAAGGATGCAGAACC
CAGTCTGAAGATCAAAGAGGTGGATGGCTTGGAGCTGGTGAAGAAGTTCTCAGAGGACATGGAGACCATG
CTTCGGAGGAAAGTTGAGGCTGTGGAGAGCCTGGTGGAGGCCGCTGAGGAGGCTGACCTGAACCATGAGT
TCAATGCGTCTCTGGTGTTTAACTACTACAACTCAGTACTGATCAATGAGAAGGATGACAAGGGCAACTA
TGTGGAGCTGGGAGCTGAGTTTCTTCTCGAGTCCGACGCCCACTTCAACAACCTGAGGGTGAATGTCTCC
ATGAGCAGCGTGCAGCTACCCACCAATGTGTACAACAAAGACCCAGACATTTTAAATGGCGTCTATATGT
CCGAAGCCCTGAACCCTGTGTTTGTGGAGAACTTTCAGAGAGACCCCACATTGACCTGGCAGTATTTTGG
CAGTTCAACTGGGTTCTTCAGGATCTATCCAGGGATAAAGTGGACACCTGATGAAAATGGAGTCATCGCC
TTCGACTGCAGAAACCGTGGCTGGTACATACAAGCCGCCACTTCTCCCAAGGACATCGTCATCCTGGTGG
ACATGAGCGGCAGCATGAAGGGGCTGAGGATGGCCATTGCCAAACACACCGTCACAACCATATTGGACAC
CCTGGGGGAGAACGACTTCGTGAACATCATCGCGTACAATGACTATGTCCACTACATCGAGCCCTGCTTC
AAAGGCATCCTCGTCCAAGCGGATCGAGACAACCGAGAGCATTTCAAGCAGTTGGTGGATGAGCTGATGG
TCAAAGGCGTGGGTATCGTGAGTCAAGCTCTAATTGAAGCTTTCCAGATCCTGAAGCAGTTCCAAGAGTC
CAGACAAGGAAGCCTCTGCAACCAGGCTATCATGCTTGTCACCGACGGGGCTGTGGAAGACTATGAGCCC
GTGTTTGAGACCTATAACTGGCCAGACCGTAAGGTCCGAGTTTTCACCTACCTTATTGGAAGAGAAGTGA
CTTTCGCTGACCGCATGAAATGGATCGCCTGCAACAATAAAGGTTACTACACACAGATCTCCACGCTGGC
TGATGCGCAGGAGAACGTGATGGAGTACCTGCACGTGCTCAGCCGTCCCATGGTCATCAACCACGACCAC
GACATCATCTGGACAGAGGCTTATATGGACAGCCGGCTCCTTACCTCAGAGGCACAAAGCCTGATGCTCC

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TCACCACAGTGGCCATGCCAGTCTTCAGCAAAAAGAACGAAACACGATCCCATGGCATTCTCCTGGGTGT
GGTGGGCTCTGACGTGACCCTAAGAGAGCTCATGAAGCTGGCACCCCGATATAAGCTCGGGGTACATGGC
TATGCCTTTTTGAACACTAACAATGGCTACATCCTCTCTCATCCTGACCTCCGACCTTTGTACAGAGAAG
GCAAGAAGTTGAAACCCAAGCCCAACTACAACAGTGTGGACCTCTCAGAAGTGGAGTGGGAGGACCAAGC
TGAAATCCTGAGGACCGCCATGATCAATGGGGAAACAGGGTCTCACTCCATGGACGTGAAGGTGCCACTG
GATAAAGGGAAACGAGTTCTATTCCTGACCAATGACTATTTCTTCACGGACATCAGTGACACGCCTTTCA
GCTTGGGAGTGGTGCTCACCAGGGGCCATGGAGAATACATCCTCCTGGGGAACACGTCTGTGGAGGAAGG
CCTACATGACTTGCTTCATCCGGATCTGACCCTGGCCAGTGACTGGATCTATTGTATCACGGATATCGAC
CCGGACCACCGGAAGCTCAGCCAACTGGAAGCTGTGGTCCGTTTTCTGACAGGGGTGGATCCAGACCTGG
AGTGTGATGATGAGGAGCTGGTGCGGGAGGTGCTGTTTGACGCAGTGGTGACCGCACCCATGGAAGCCTA
CTGGACAGCACTGGCGCTCAACATCTCCGAAGAGTCAGAGCCTGGTGTGGAAGTGGCCTTTCTGGGGACC
CGGGCTGGCCTTCTAAGAAGAAGCTTGTTCGTAGGCTCCGAGAAGGTCTCTGATAGGAAGTTCCTGACAC
CTGAAGATGAAGCCAGTATTTTTACCATGGACCACTTCCCACTGTGGTATCGGCAGGCCTCTGAGCAGCC
CCCAGGCAGCTTTGTCTTCAATCTCCGCTGGGCAGAGGGACCAGATAGCCCCGGCAAACCAGTGGCGGTA
AGGGCCAGCACGGCAATAACTGTGACAGTGGACGGGAAGACGGCCATTGCAGCAGCCGTGGGCATCCAGA
TGCAAGCGGACTACCTCCAGCGCCAGTTCTGGGCAGCCATGCAGCAGTGCAACACTGTAGAGGGGCCCTG
CCCGAAGCGCTGCCAGGACACTGATCTGGACTGCTTCGTCATAGACAACAATGGCTTCATCCTGATCTCA
GAGAGACCCCAAGAGATTGGAAGACTTCTGGGGGAAGCGGATGGTGCTCTCATGACGCAGCTTCTCAGCA
TGGGGGTGTTCAGCCGTGTGACCATGTATGACTACCAAGCCATGTGCAAGCCCCCGGATCACCACCACAG
TGCAGCCGAATCCCTGATCAGTCCTCTCTCTGCCTTCCTGACGGTGGCCAAGTGGCTACTACATGAATGT
CTGCTATTCCTGTTCGAGTGGAGTGCTTGGGGATCTTGGCAGGACAAAGGGTCAGAGGCCAAAGCTGTCT
TCCATCACTCCCACAAGCACAAGAAGCAAGACCTCCTGCACCCCTGTGACACAGAGTACCCAGTGTTCGT
GCACCAGACGGCCATCCGGGAGGCCAACGGGATCATCGAGTGTGGGGGCTGCCAGAAGACATTCGTGATG
CAACAGATTCCCAGCAGCAACCTGCTCCTGCTAGTGACAGACCGTACCTGTGACTGCAGCGCCTACTCTC
CCATCCTCCAGGAGGCCACAGAAGTCAAATATAACGCCTCCGTCAAGTGCAACAGGATGCGCTCCCAGAA
GCCCCGGAGACGACCAGGCTCCTGCCATGCCTTCCATCCCGAGGAAAATGCCCAGGACTGTGGCGGTGCT
TCAGACACTCTGCCTTCATCCCCTCTGCTCCTGCTGGCACTGTGGGCCTGGCGTCTTCCGCCCCAGCTTC
TGTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001191751

Insert Size: 3438 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001191751.1, NP_001178680.1
RefSeq Size:	3465 bp
RefSeq ORF:	3438 bp
Locus ID:	312668
Cytogenetics:	4q42