

Product datasheet for **RN205823**

Cacna1c (NM_012517) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1c (NM_012517) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna1c
Synonyms:	RATIVS302
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205823 representing NM_012517 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCGGGCTTCGCTCAGCCATCCACACCCCATACCAGCCGCTCTCCAGTTGCCTGTCTGAGGACA
CAGAGAGGAAGTCAAGGGCAAGGTGGTACACGAAGCTCAACTCAACTGTTTCTACATTTCTCCTGGAGG
TTCCAACATATGGGAGCCACGCCAGCTCATGCCAACATGAATGCCAATGCAGCTGCAGGACTTGCCCC
GAGCACATCCCTACTCCAGGGGACGACTGTCTGGCAGGCAGCCATCGATGCCGCCCGGACGGCCAAGT
TAATGGGCAGTGCTGGCAATGCGACCATCTCTACCGTCAGTTCCACACAGCGGAAGCGGCAGCAGTATGG
GAAACCAAGAAGCAGGGGGGCACAACCTGCCACACGGCCGCCCGGGCTCTGCTCTGCCTGACTCTGAAG
AACCCCATCAGGAGGGCATGCATCAGCATTGTTGAATGGAATCATTTGAAATAATTTTTATTGACGA
TTTTTGCCAATTGTGTGGCCTTAGCAATCTATATCCCTTTCCGGAAGATGACTCCAACGCCACCAACTC
CAACCTGGAACGGGTGGAGTATCTTCTCATCATTTTTACCGTGAAGCATTAAAAAGTGATTGCC
TACGGACTACTCTCCACCCCAACGCTTACCTCCGCAACGGTTGGAATTTACTAGATTTTATAATCGTGG
TTGTAGGGCTTTTTAGTGAATTTTGAACAAGCAACCAAGCTGACGGGGCCAACGCTCTGGGAGGGAA
AGGAGCGGGATTGATGTGAAGCACTGAGAGCTTTCCGTGTGCTTCGTCCTGCGGCTGGTGTCTGGA
GTCCCAAGTCTCCAGGTGGTCTGAACTCCATCATCAAGGCCATGGTGCCCTGTGCACATTGCCCTCC
TCGTGCTCTTCGTATCATCATCTATGCCATTATCGGCCTGGAGCTTTCATGGGGAAGATGCACAAGAC
CTGCTACAACCAGGAGGGCATAATAGATGTTCCAGCGGAAGAGGATCCCTCCCCTGTGCTTTGGAGACA
GGCCATGGGCGACAGTGTGACAACGGGACCGTGTGCAAGCCCGGGTGGGATGGGCCCAAGCACGGCATCA
CCAACCTCGACAACCTCGCCTTCGCCATGCTGACGGTGTCCAGTGTATCACCATGGAGGGCTGGACAGA
CGTGTACTGGATGCAAGACGCTATGGGCTATGAGTTGCCCTGGGTGATTTTGTGCTGTGTCATC
TTTGGATCCTTTTTCGTCTAAATCTGGTCTCGGTGTTTTGAGCGGAGAGTTTTCCAAAGAGAGGGAGA
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CCTGGACTGGATCACCCAGGCGGAAGACATAGACCCTGAGAATGAGGACGAGGGCATGGATGAAGACAAA
CCCCGAAACATGAGCATGCCACAAGTGAGACTGAGTCTGTCAACACCGAAAACGTGGCTGGAGGTGACA



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TCGAGGGTGAAAACACTGTGGAGCCCGCTTGCCACC GGATCTCCAAATCCAAGTTCAGCCGCTACTGGCG
 CCGGTGGAATAGATTCTGCAGAAGAAAGTGCCGTGCCG CAGTTAAGTCCAATGTCTTCTACTGGCTGGTG
 ATCTTCTGGTGTTCCTCAACACCCTCACCATTGCCTCCGAACACTACAACCAGCCTCATTGGCTCACAG
 AAGTGCAAGACACGGCCAACAAGGCCCTCTGGCCCTTTTACGGCAGAAATGCTCCTGAAGATGTACAG
 CCTGGGCTGCAGGCCTACTTTGTATCCCTTTCAACCCTTTGACTGTTTCATTGTGTGCGGGGGCATC
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 ACCTCATCTCTTCTTCTTCTGCTCAGTAGCATCTCCCTGGCGGCTGAGGACCCCGTCCAGCACACCTC
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 AAGATGACTGCTTACGGGGCTTTCTGCACAAGGGCTCTTTCTGCCGAAATTA CTCAATATCCTGGACC
 TGCTGGTGGTTAGCGTGTCCCTCATCTCCTTTGGCATT CAGTCCAGCGGATCAACGTTGTGAAGATTTT
 AAGAGTGCTTCGTCTCAGGCCCTGAGGGCCATCAACAGGGCCAAGGGGCTAAAGCAGCTGCTTCAG
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 CCTGCATTGGGGTCCAGCTCTTCAAGGGAAGCTCTATACCTGTT CGGATAGTTCAAAACAGACGGAGGC
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 TGGGAGAACAGCAAGTTCGACTTTGACAATGTTCTGGCAGCCATGATGGCCCTCTTACCCTCTCCACCT
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 GCACCAGTACAAAGTGTGGTACGTGGTCAACTCCACCTACTTCGAGTATCTGATGTTTCGCTCATCCTG
 CTAAACACCATCTGCCTGGCCATGCAGCACTACGGCCAGAGCTGCCTCTTCAAAA TCGCCATGAATATAC
 TCAACATGCTTTTCACTGGCCTCTTACGGTGGAGATGATCCTGAAGCTCATTGCCTTCAAACCCAAAGCA
 CTATTTCTGTGATGCATGGAATACATTTGACGCCTTGATTGTTGTGGGTAGCATTGTTGATATAGCAATC
 ACCGAGGTACACCAGCTGAACATACCCAATGCTCTCCCTCTATGAGTGCAGAGGAGA ACTCCCGCATCT
 CCATCACCTTCTCCGCCTCTCCGGGTGATGCGCCTGGTGAAGCTGTGAGCCGAGGGGAAGGCATCCG
 GACCTGCTGTGGACCTTCATCAAGTCTTCCAGGCCCTGCCCTATGTGGCCCTTTTGATTGTGATGCTG
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 ATCGGAACAACAACCTCCAGACGTTCCCTCAGGCTGTGCTACTGCTCTTCAAGTGCGCCACTGGGGAGGC
 CTGGCAGGATATCATGCTAGCCTGTATGCCAGGCAAGAAGTGTGCTCCAGAGTCTGAGCCAGCAACAGC
 ACGGAAGGGGAGACACCCTGTGGCAGCAGTTTCGCTGTCTTCTACTTCATCAGCTTCTACATGCTGTG
 CCTTCTGATCATCAACCTCTTTGTAGCTGTTATCATGGACAAC TTTGACTACCTGACTAGGGATTGGTC
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 GCCAATGAGGAGCTGAGAGCCATCATCAAGAAAATCTGGAAGAGGACCAGCATGAAGCTGTTGGACCAGG
 TGGTGCCCTGCAGGTGATGACGAGGTACAGTGGGCAAGTTCTATGCCACCTTCTGATCCAAGAGTA
 CTTTCAGGAAATCAAGAAGCGAAAAGAGCAGGGGCTGGTCGGCAAGCCCTCGCAGAGGAATGCACTGTCT
 CTGCAGGCTGGCTTACGCACCTTGATGACATTGGGCCTGAGATCCGGAGAGCCATCTCTGGGGATCTGA
 CCGCTGAGGAGGAGCTGGACAAGGCTATGAAGGAGGCAGTGTCTGCTGCCTCCGAAGACGACATCTTCAG

GAGGGCTGGAGGCTGTTTGGCAACCACGTGAGCTACTACCAGAGTGACAGCAGGAGCAACTTCCCTCAG
 ACGTTTGGCCACCAACGCCACTGCACATCAACAAGACAGGGAACAACCAAGCGGACACCGAATCACCGT
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 GGGACAGTTTGCTCAAGATCCCAAGTTCATCGAGGTACCACACAGGAGCTGGCTGACGCTGCGATATG
 ACAATAGAGGAGATGGAGAACGCCGAGACAACATCCTCAGCGGGGGCGCCAGCAGAGCCCAACGGCA
 CCCTCTTACCTTTGTGAAGTGCAGGGACCCAGGGCAGGACAGGGCTGTGGTCCCAGAGGACGAGAGCTG
 TGTATATGCCCTGGGGCAGGCCGAGCGAGGAAGCGCTCCCGGACAGCAGGCTCTATGTGAGCAACCTG
 TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_012517

Insert Size:

6513 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).

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_012517.2](#), [NP_036649.2](#)

RefSeq Size:

8257 bp

RefSeq ORF:

6513 bp

Locus ID:

24239

UniProt ID: [P22002](#)

Cytogenetics: 4q42

Gene Summary: subunit of an L-type calcium channel that may be involved in bone metabolism and compensatory renal growth [RGD, Feb 2006]