

## Product datasheet for RN204610

### Cacna1a (NM\_012918) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1a (NM_012918) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna1a
Synonyms:	BccA1; Cav2.1; rbA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204610 representing NM_012918 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCGCTTTGGAGACGAGATGCCGGGCCGCTACGGCGCAGGCGGAGGAGGCTCAGGGCCGGCCCG  
GGGTGGTCTGGGCGCCGCGGGCCGAGGAGCCGGGGCAGCCGGCAGGGCGGGCAGCCCGGAGCGCA  
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TTCTACTGGACCGTGTCTAGTCTGGTAGCCCTCAACACGCTGTGGCTCGCCATTGTCCACTACAACCAGC  
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CCACAGGGGAAGCGTGGCACAACATCATGCTGTCTGCCTCAGCGGGAAGCCATGCGACAAGAACTCCGG  
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 AGCAGCGCTGGTCCCCTCGCCAGCGAGGTCGGGAGCACGCGACACACAGACAGGAGGAGTGGTCCGT  
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 GCCTGAGGGCCCGCGCCGCGGTTGCCACTACACCGAGCCGACAGCCCGCGGAGCCCGAGGGGGC  
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 CGACGCTACAGCGAGAGCGAGGACGACTGGTCTAA

CTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG  
 ATAAGGTTTAA

- Restriction Sites:** Sgfl-XhoI
- ACCN:** NM\_012918
- Insert Size:** 7107 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\\_012918.3](#), [NP\\_037050.2](#)

**RefSeq Size:** 8912 bp

**RefSeq ORF:** 7107 bp

**Locus ID:** 25398

**UniProt ID:** [P54282](#)

**Cytogenetics:** 19q11

**Gene Summary:** voltage-gated calcium channel that may be involved in secretion coupling in pancreatic beta cells [RGD, Feb 2006]