

## Product datasheet for **RN204450**

### Cacna1f (NM\_053701) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1f (NM_053701) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cacna1f
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN204450 representing NM_053701 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCGGAATCTGAAGTCGGGAAAGACACCACCCAGAACCAGTCCAGCCAATGGGACCGTCTGGCC  
CTGAGTGGGGCTCTGTCTGGCCTCCAACCGTGGGACTGATACCAGTGGGGCATCGGGCTGGGGC  
CCCAAGACGGAGACTCAGCACAACAAGCACAAGACCGTAGTGGTGGCCAGTGGCAGAGATCACCTCGA  
GCACTCTTCTGCCTCACCTTAACCAATCCATTGTCGGTCTGCATCAGCATTGTGGAGTGAAGCCAT  
TTGATATTCTCATCCTCCTGACCATCTTTGCCAAGTGTGGCATTGGGGTATATATCCCTTCCCTGA  
GGACGACTCCAACACTGTACCCACAACCTGGAACAGGTAGAATATGTGTTCTGGTGATTTTACCCTG  
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AGGAGATGCCCGCATACTGGAGGAAAGCCGGGAGGCTTTGATGTAAGGCACTGCGGGCATTAGGGT  
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CCAATAGGAGGGCGGACGACTGCGTTGTTGAGCCACTCCACTCGCTCCACACACTCCACCAGAGTCA  
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CCAACCGTGGTCTCCGTGCACGCTGCCCGGGCAGTCAAGTCCAATGCCTGCTACTGGGCTGATTGCT  
GCTCGTCTTCTCAACACGTTGACCATCGCTTCTGAGCACCATGGGCAGCCAGTGTGGCTCACCCAGACC



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CAAGAATATGCCAACAAAGTTCTGCTCTGCCTCTTACCCTGGAGATGCTTCTCAAACGTACGGGCTGG  
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 GCCACTCCGCCATACATCCCCAAGAATCCACATCAGTACCGCGTGTGGGCCACAGTGAAGTCCAGCCGC  
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 GCTCAAAATCATTGCCTTAAACCCAAGCATTACTTTGCCGATGCCTGGAATACATTGATGCTCTTATT  
 GTAGTGGGCAGCGTAGTCGACATTGCCGTACAGAAGTCAATAATGGAGGCCATCTTGGTGGAGGCTCAG  
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 TCATGCTCTGTGCCTTCTGATTATAAATCTCTTTGTGGTGTAAATCATGGATAACTTTGATTACCTAAC  
 CAGAGATTGGTCTATTCTGGGACCCACACCTCGATGAATTCAAGAGGATCTGGTGAATATGACCCC  
 GGAGCCAAGGGCCGCATCAAGCACTTGGATGTGGTTGCCCTGCTGAGACGCATCCAGCCTCACTGGGAT  
 TTGAAAAGCTGTGCCACACCGAGTGGCCTGCAAGAGACTGGTGGCCATGAATGTTCCCTCAACTCAGA  
 CGGAACAGTGACATTCAACGCGACACTCTTGCCTGGTGGGACATCCCTGAGGATCAAGACAGAAGGG  
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 CATCCAAGATTATTTCCGAAAATTCGGAGAAGGAAAAGAAAAGGGGCTACTAGGAGCAGATGCCCAACA  
 AGCACATCTCTGCTCCTCAGGCTGGTCTAAGGAGCCTACAGGACTTGGGTCTGAGATCCGACAGGCCC  
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 AGCTGAGACCACCCAGAAACATACAAAGACTCCATAGACTCCCAGCCCCAAGCTCAATGGAAGTCCGAGG  
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 GAGTGGCTCCCAACTCCAGGCAACCCAGTGGGCTACAGGCTGGATCCCAACCCACAGGAGAGGCTCTGG  
 GGTTTTATGTTCACTATCCCAGAAGAAGGAAGTACTCAGCTCAAGGGAGTTCAAGGGCAAGACAATCAG  
 AATGAGGAACAGGAAGTCCCTGACTGGACCCCAACCTGGATGAGCAGGCAGGGATGCCCTCAACCCAG

TCCTTTTACCACCTCACTGGTCCCAGCAACATGTAATGGGCACCATGTACCACGCCGACGTTTGCTACC  
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 TTGCCCATCCCAGGCACCTACCATCGTGGACGGACCTCAGGACCAGGCAGGGCTCAGGGTTCCTGGGCAG  
 CCCCTCCTCAGAAGGGTCGACTGCTCTATGCCCCCTGTTGCTGGTGGAGGAATCTACAGTGGGTGAAGG  
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 CCCAGTCACCGCAAGAGGGGCAGTGTGACAGTTTGGTGGAGGCTGTGCTTATCTCCGAAGGCCTAGGCC  
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 GGATGAGATGGACAGTGTGCCAGTGCCTGCTGGCACAGAGAACCACCTCCCTCTACAGTGACGAGGAG  
 TCTATTCTCTCCGCTTTGATGAAGAGGACCTGGGAGACGAGATGGCCTGCGTCCATGCCCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_053701
- Insert Size:** 5946 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\\_053701.1](#), [NP\\_446153.1](#)
- RefSeq Size:** 5975 bp
- RefSeq ORF:** 5946 bp
- Locus ID:** 114493
- Cytogenetics:** Xq12
- Gene Summary:** mutation of the human homolog causes incomplete X-linked congenital stationary night blindness (CSNB2) [RGD, Feb 2006]