

Product datasheet for MC225252

Cacna1e (NM_009782) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cacna1e (NM_009782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cacna1e
Synonyms:	A430040I15; alp; alpha1E; BII; Cach6; Cacn1a6; Cav2; Cav2.3; Cchr; Cchra1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225252 representing NM_009782 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCGCTTCGGGGAGGCGGTGGTTCGTTGGCAGGCCAGGCTCAGGCGATGGAGACTCGGACCAGAGCA
GGAACCGACAAGGAACCCCGTCCCGCCCTCGGGCCGGCGCCCTACAAGCAGTCAAAGCGCAGAG
GGCGCGGACTATGGCTTTGTACAACCCATACCCAGTCCGGCAGAAGTGTTCACGGTCAACAGATCCCTG
TTCATCTTCGGAGAAGATAACATTGTCAGGAAATACGCCAAGAAGCTCATCGATTGGCCGCATTGAGT
ACATGATCCTGGCCACCATCATTGCCAAGTGCATCGTCTTGGCCCTGGAGCAGCATCTTCTGAGGATGA
CAAGACCCCAATGTCTCGAAGACTGGAGAAGACAGAACCATATTTATTGGGATCTTCTGCTTTGAAGCT
GGGATCAAATTTGGCTCTAGGGTTTCTTCCATAAGGGTTCATACCTCCGTAATGGCTGGAATGTCA
TGGACTTCATCGTGGTCTTAGTGGCATCCTGGCCACTGCGGGAACCCACTTCAACACCCACGTGGACCT
GCGGACCCTCCGGGCTGTGCGTGTCTGAGGCCCTTAAAGCTGGTATCAGGAATACCTAGCCTGCAGATC
GTGCTGAAGTCTATCATGAAGGCCATGGTGCCTCTTGCAGATTGGCCTTCTGCTCTTCTTTGCCATCC
TCATGTTTGTATCATTGGCTTGGAGTTTACAGTGGCAAGTTCATCGAGCATGCTTCAATGAACAATTC
AGGTATTCTAGAGGGTTTGTATCCTCCTACCCGTGTGGTGTGCAAGGCTGCCCGGCTGGTTATGAATGT
AAGGACTGGATCGGCCCAATGACGGGATCACCCAGTTTGACAACATCCTTTTTGCGTGTGACTGTCT
TCCAATGCATCACTATGGAAGGGTGGACCACTGTGCTGTACAATACCAATGATGCCTTAGGAGCCACCTG
GAACTGGCTGTACTTCATCCCTCTCATCATCATCGGATCCTTCTTTGTTCTAACCTCGTCTGGGAGTG
CTTTCCGGGAATTTGCCAAAGAAAGAGAGAGAGTGGAGAACCGAAGAGCGTTTATGAAGCTCCGGCGCC
AGCAACAGATTGAGCGAGAATTGAACGGCTACCGTGCCTGGATAGACAAAGCAGAGGAAGTCATGCTTGC
TGAAGAAAATAAAAACCGGAACATCAGCCTTGAAGTGCTTGAAGGGCAACCATCAAAGGAGCCGG
ACGGAGGCCATGACCCGAGACTCCAGCGATGAGCACTGCGTTGATATCTTTCAGTGGGCACACCTCTTG
CCAGAGCCAGTATCAAGAGCACAAAAGTAGATGGGCCTCTATTTCCGGCACAAGGAACCGCTTCTGCG
CATCTCTATCCGCCACATGGTCAAGTCCCAAGTCTTTACTGGATCGTCTGAGTGTGTGGCTCTTAAT
ACTGCCTGTGTGGCCATTGTTTCATCACAACCAGCCACAGTGGCTCACTCACCTCCTACTATGCAGAGT



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CAACTTTGAGTACCTGACTCGAGATTCCTCCATCCTGGGGCCTCACCCTTAGATGAGTTTGTCCGTGTC
 TGGGCAGAATATGACAGAGCAGCATGTGGCCGCATCCATTACACTGAGATGTATGAAATGCTGACTCTCA
 TGTACCACCCGCTAGGCCTCGGCAAGAGATGTCCCTCCAAAGTGGCCTATAAGAGGCTGGTCTGATGAA
 CATGCCAGTGGCTGAGGACATGACAGTCCACTTCCCTCCACACTTATGGCTCTGATCCGGACAGCTCTG
 GACATTAATAATCGCCAAAGGTGGTGCAGACAGACAGCAGCTAGACTCGGAGCTGCAAAAAGAGACCCTGG
 CCATTTGGCCTCACCTGTCCAAAAGATGTTGGATCTGCTTGTGCCATGCCAAAAGCCTCTGACCTGAC
 TGTGGCAAGATCTATGCAGCAATGATGATCATGGACTACTATAAACAGAGTAAGGTAAGAAACAGAGA
 CAGCAGCTGGAAGAACAGAAAAATGCACCCATGTTCCAGCGCATGGAGCCCTCATCACTGCCTCAGGAGA
 TCATTGCTAATGCCAAAGCCCTGCCTTATCTCCAGCAGGACCCTGTTTCTGGCCTGAGTGGTCCGGAGTG
 ATACCCTTCAATGAGTCCACTCTCCCTCAAGAAATATCCAGTTGGCTTGTATGGACCCAGCGGATGAT
 GGACAATCCAGGAACAACAATCTCTGGTGGTAACAGACCCTAGCTCTATGCGACGTTTCAATTTCTACAA
 TTCGGGATAAGCGTTCAAATTCCTCTGGTGGAGGAGTCTCCATGGAACGCAGCAGTGAACACTTA
 CAAGTCGCGGCGCAGAAGTTACCATTCTCCCTGAGGCTGTCAGCACACCCGCTGAATTCTGACTCTGGT
 CACAAGTCTGACTCACCAGATCAGGAGGCAGGGAGAGAGCCGATCCAAAGAACGAAAGCACCTCTCT
 CTCAGATGTCTCCCGCTGCAATTCTGAAGAGCGAGGGACCCAGGCCGACTGGGAGTCCCAGAACGTCG
 CCAGTCCAGGTACCCAGTGAAGGAAGTACAGACCCCAATAGACAGGGTACCGGTCCCTAAGTGAG
 AGCTCCATCCCCTCTATTTCCGACACCAGCACCCCAAGACGAAGCCGTCGCCAGCTCCCACCTGTGCCAC
 CAAAGCCTCGTCCCCTCTCTCTACAGCTCCCTGATGAGACACACTGGCGGCATCTCTCCACCTCTGA
 TGGAAGTGAGGGTGGATCCCCACTGGCCTCTCAAGCTCTGGAGAGCAACAGCGCTTGCTGACCGAGTCT
 TCCAACCTCTGCACCCCGAGCAGGGCCAGCATCTTCCCCACAGCACTACATCTCCGAGCCCTATCTGG
 CCCTCCATGAAGACTCCCAGCCTCAGACTGTGGCGAGGAGGAGACACTCACCTTTGAGGCGCCGATAGC
 CACTAGCTTGGCCGGTCCAATACCATTGGCTCTGCGCCACCCCTACGGCACAGCTGGCAGATGCCTAAT
 GGGCACTATCGGCGCGGAGGCGTGGGGGCCTGGCCTGGCATGATGTGTGGAGCTGTCACTGACCTCC
 TGAGTGACACGGAAGAAGACGATAAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009782
- Insert Size:** 6822 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_009782.3](#), [NP_033912.2](#)
- RefSeq Size:** 12697 bp

RefSeq ORF: 6822 bp

Locus ID: 12290

Cytogenetics: 1 66.14 cM

Gene Summary: This gene encodes an integral membrane protein that belongs to the calcium channel alpha-1 subunits family. Voltage-sensitive calcium channels mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes. Voltage-dependent calcium channels are multi-subunit complexes, comprised of alpha-1, alpha-2, beta and delta subunits in a 1:1:1:1 ratio. The isoform alpha-1E gives rise to R-type calcium currents and belongs to the high-voltage activated group. Calcium channels containing the alpha-1E subunit may be involved in the modulation of neuronal firing patterns, an important component of information processing. [provided by RefSeq, Jul 2008]