

## Product datasheet for **SC203825**

### **CACNG2 (NM\_006078) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	CACNG2 (NM_006078) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CACNG2
Synonyms:	MRD10
ACCN:	NM_006078
Insert Size:	2000 bp



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**Insert Sequence:** >SC203825 3'UTR clone of NM\_006078  
 The sequence shown below is from the reference sequence of NM\_006078. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ACAGCCAACCGCCGACCACCCCGTATAAAGACCGGGCCTCGCCAGAAGACCGGGAGGAGGGCGC
CGGTCCCGGGGGCGGGGCGGGGAGACCCAGACCCTCCGCTGGGAGACCTTCCAAAAGCAAAAA
CAAAAAACAAAAAACAAAAAACAAAAAACAAAAACACACACACAAAAAAGAGAAAAACAT
AACAAAGTAAATTTAAAAAAGAACAATAAAGAGGAACAAAGAACAAAAACAGGAAATGTGG
GAAATATAAACGAGGGAAGAAAAAACTTTAAAAAAGCGAGAGGGATAAAAAATAAAAATAGAA
AATAAATCTAAAAGAAAATGCATGATTTCCCATGTACCATTATTTAACATTTAATAAAAAATCAATTTA
AATGAAAAATAAAGGGAACCAAGATAACATTAAGCAAAAAAAAAAAAAATGAGAACAGAAAGGAAA
GGGGATGTCCTTTGTATTTTCAGGGTTATGTTACTTTTTTTTTTTTTTTTAACTCGGGGAGAGTTA
CTTTTCTGTTCCCTTTAACCCCCAGCGGCCCTGCCTCCCTGGGAGATTGGGGGGCGAGACTCAGGGGC
CCTGGGGCCAGGTGAGCCTGCAGTCACTGCCAGGTCCCTGGAGCCCTGGGTGGGTGCCCCAGGAACTC
CAGGAAGGCTCAGAGCTCGAGCCGCTCCGCCAGCATTGATGGGGCAATCGTAGGCCTCCAGGTGACC
GAGCCCTGTCCCTCCTCCTCGTTAGGGTGCCTGGAGGGGGTACACTTGGGGCTTGCTGGCCCCAGG
TTCCCAGTCCTTAATGCTCCTTAACCCACTGTGATGACTTCTAGGCCTTGAGGAAAGGGAAGGAGAGG
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CCTCCTCACCCCTCACCTCAGGGCCACTGATGACCCTGGGGCGATGGTGACCCCTGACTATAAGC
CCCCAGTCCCCTGGGAAGGGGTTCAATTGACCCTTTGGGGTCTTTGGACTCACTGATGCCCCCTTGG
GGCCAGCGGTTCAACAATGACTGCAAAAAGGCTTCTTTTTACAAAAGAAAAAGGAAAAACAAGTG
GTGATTTTTTTTTAATAAAAAACCACAGACTATAAATAAATGAAATACAAAATAAGTGGATTTACTT
GCAAGAAAATCAGATAGTATTTTTCTTTAATTCTTTCCAGCTTAAACTGTGAAAAACAAAAATGGG
GCGGGGTGGGGACTTAACTTTAGCAGGGAAGTGTAAAGAAAAAAGGAAAAACAGAAAACGAATATACAA
ATCCATTTACAAAACAAAGCAAACCGTTGTGAGAGGTGAGAGCTGGGCTTGAAGTTGGAGGGAGTA
GCGGAAGTCCCAGTGAGCTGCAGGGGCTCTGTGATGAAAGGTGGCTTCTCAGACAAGGAAGGTG
CTGCGAATGGGGGAAGACAGAATCCAACAAAGAAAGAGACCACACACCCACACGACACAGGCAGTT
CACACACACATACACAGTCCACTTAGCCAGCACTGCAGTCACTCACAGGGACACACTCAGTCTCAACC
TTCCATCCCATACACGGCCAGGGGCTGGCTCAAAGGAAATTGACTCATGCCCTCCAAAGCCATGGAC
GACAACAACCTCCACACTGGCCTTTGTGTTCAATCAACAACCTCCCAACAGAGCATACACATGAACACACA
CATGCACACATACCCACACACGCACACATACCCACACACACACACACCACTCGCATGCATGGGAAGG
GCACCCGTCTAGAATCCAGGACTGGATTCCGGAATTCCTTGCTGCATGGCCTCTCTGGGCCTTAATTT
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_006078.5](#)

**Summary:** The protein encoded by this gene is a type I transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. The AMPA subtype of ionotropic glutamate receptors are ligand gated ion channels that are typically activated by glutamate released from presynaptic neuron terminals and mediate fast neurotransmission in excitatory synapses. TARPs thus play an important role in synaptic plasticity, learning and memory. Mutations in this gene cause an autosomal dominant form of cognitive disability. [provided by RefSeq, Jul 2017]

**Locus ID:** 10369

**MW:** 74.4