

## Product datasheet for **MC211953**

### **Cacng7 (NM\_133189) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacng7 (NM\_133189) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cacng7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC211953 representing NM\_133189  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAGTCACTGCAGCAGCCGCGCCCTGACCCTGCTGAGCAGCGTGTGGTGCCTGCGGCCTGCTCCTTG  
TGGGCATCGCGGTCAGCACGGACTACTGGCTGTACATGGAGGAGGGACCCTTTGCCGACAACCAGAC  
CACCGAGGTCAAGATGGCGCTGCACGCTGGCCTCTGGAGAGTCTGCTTCTTTCAGGTCGGGAGAAGGGG  
CGCTGTGTGGCTTCTGAGTACTTCTTGAACCAGAGATCAACTTGGTGACGGAAAACACGGAGAATATTC  
TGAAGACAGTGGCAGCGCTACACCCTCCCTATGGTCAGTCTCTTCTCGTGTTACCCGCTTTGTCAT  
CAGCAACATCGGCCACATCCGACCTCAGAGGACCATTCTTGCCTCGTTTCTGGCATCTTTTTCATTTTA  
TCAGGTCTCTCCTTGGTGGTGGCTTGGTCTATACATCTCCAGCATCAACGACGAGGTCATGAACAGGC  
CCAGCAGCTCTGAGCAGTACTTTCATCTACGCTACGGTGGTCTTTGCCTTCGCTGCTTCTCTTTCT  
TCTCAAAGAGGGGGCCGGAGTCAATGTCGTACTTGTTCACCAAGCGCTACGCGGAGGAAGAGATGAT  
CGCCCGCACCCGGCTTCTACCGACCGCTCTCAGCGACTGCTCCGACTACTCCGCCAGTTTCTGCAGC  
CCGAGGCGTGGCGTCTGAGGCCGAGCCCTCCGACATCTCTAGCGACTCTCCATTTCAGATGACGAAAA  
TTACCCCGGCCATCAAGTACCCGGACCATCTCCACATCTCCACTTCGCGGTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_133189  
**Insert Size:** 828 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133189.3</a> , <a href="#">NP_573452.3</a>
<b>RefSeq Size:</b>	828 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	81904
<b>UniProt ID:</b>	<a href="#">P62956</a>
<b>Cytogenetics:</b>	7 1.95 cM
<b>Gene Summary:</b>	Regulates the activity of L-type calcium channels that contain CACNA1C as pore-forming subunit (By similarity). Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA receptors). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization and by mediating their resensitization (By similarity). Shows specificity only for GRIA1 and GRIA2 (By similarity).[UniProtKB/Swiss-Prot Function]