

## Product datasheet for **MC209969**

### **Cacng3 (NM\_019430) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacng3 (NM\_019430) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cacng3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209969 representing NM\_019430  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACTACTGTAGGAGCCTTCGCAGCTTTTAGTTTAA  
TGACCATTCAGTGGGCACGGACTACTGGCTATATCCAGAGGTGTGTCAGGACTAACTACAAGTGA  
CAATGAAACCAGCAGGAAGAATGAAGAAGTAATGACCCACTCCGGGTTGTGGAGGACCTGCTGCTTGGAA  
GGAGCTTTCCGAGGCGTGTGCAAGAAAATCGATCACTTCCAGAAGATGCAGACTATGAACAGGATACAG  
CAGAATATCTTCTACGAGCTGTGAGGGCTCCAGCGTCTTTCCCATCCTCAGCGTCACTCTGCTGTTTTT  
CGGGGACTCTGCGTGGCTGCCAGCGAGTTCACCGCAGCAGGCACAGTGTGATCCTCAGCGCTGCCATC  
TTCTTCGCTCTGCAGGGCTAAGCAACATCATCGGCATCATAGTTTATATCTCAGCCAATGCTGGAGACC  
CTGGGCAGAGGGACTCTAAAAAGAGCTACTCCTACGGCTGGTCTTTTATTTGGAGCCTTCTCTTTCAT  
CATCGCGGAAATGTGGGCGTGGTCGCCGTGCACATCTATCGAGAAGCATCAGCAGTTGCGTGCCAGA  
TCCATTCCAGAGCTCCTGAAGAAGTCTACATTTGCGCGCCTGCCGCCCTACAGGTATAGATCCGAAGAC  
GGTCAAGTTCTGCTCCACTGAACCCAGATCTCGAGACCTTTCTCCCATCAGCAAAGGCTCCACACCAT  
CCCTTCCACCGACATCTCCATGTTACCCCTCTCCCGGGACCCCTTAAGCTTACCATGGGACCCCTTCTC  
AACTCTGACCGGGACCATGCTTTTCTACAGTTCACAACCTCCACACCCAAAGAGTTCAAAGAGTCATTGC  
ATAACAATCCGGCCAACAGACGTACCACGCCTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_019430  
**Insert Size:** 948 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_019430.2</a> , <a href="#">NP_062303.2</a>   |
| <b>RefSeq Size:</b>           | 1540 bp   |
| <b>RefSeq ORF:</b>            | 948 bp  |
| <b>Locus ID:</b>              | 54376   |
| <b>UniProt ID:</b>            | <a href="#">Q9JIV5</a>  |
| <b>Cytogenetics:</b>          | 7 F2  |
| <b>Gene Summary:</b>          | Regulates the trafficking to the somatodendritic compartment and gating properties of AMPA-selective glutamate receptors (AMPA receptors) (PubMed:18341993). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by slowing their rates of activation, deactivation and desensitization. Does not show subunit-specific AMPA receptor regulation and regulates all AMPAR subunits. Thought to stabilize the calcium channel in an inactivated (closed) state (By similarity).[UniProtKB/Swiss-Prot Function] |