

## Product datasheet for **MC226724**

### **Cacng5 (NM\_001199301) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacng5 (NM\_001199301) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cacng5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226724 representing NM\_001199301  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCGCCTGTGGGAGGAAGGCCCTGACCCTGCTGAGCAGCGTCTTTGCCGTCTGCGGCCCTGGGGCTGC  
TGGGTATCGCGGTCAGCACGGACTACTGGCTCTACCTGGAAGAAGGCATAATCCTCCACAGAACCAGAG  
CACAGAGGTCAAGATGTCCCTGCACTCGGGCCTCTGGCGGTCTGCTTCCCTCGCTGGTGAGGACGAGGA  
CGCTGTTTTACCATAGAGTATGTGATGCCCATGAACTCCCAGATGACGTCAGAATCCACTGTCAATGTTT  
TAAAAATGATTCGCTCAGCCACGCCGTTCCCCCTCGTCAGCCTCTTCTCATGTTCAATTGGGTTTATCCT  
GAGCAACATCGGGCACATCCGTCCGACCCGACCATACTGGCCTTTGTCTCCGGCATCTTCTTTATCCTC  
TCTGGCCTCTCTTGTGGTGGGCTGGTGTACATCTCCAGCATCAATGACGAGATGCTCAACAGAA  
CCAAGGATGCAGAGACCTATTTCAACTACAAGTATGGATGGTCATTTGCCTTTGCTGCCATCTCCTTCT  
TTTAACAGAGAGTGTGGGGTGTGTCTGTGTACCTGTTTCATGAAGAGGTACTGCTGAGGACATGTAC  
AGACCTCACCCAGGCTTCTACCGCCACGCTGAGCAACTGCTCCGATTACTCTGGCCAGTTTCTACATC  
CAGATGCCTGGATCCGGGCGCCAGCCCTCGGACATCTCCAGCGACGCCTCGCTACAGATGAACAGCAA  
CTACCCAGCTTTGCTCAAGTGCCAGACTATGACCAGATGTCATCATCTCCCTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001199301  
**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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001199301.1</a></u> , <u><a href="#">NP_001186230.1</a></u>
<b>RefSeq Size:</b>	3771 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	140723
<b>UniProt ID:</b>	<u><a href="#">Q8VHW4</a></u>
<b>Cytogenetics:</b>	11 E1
<b>Gene Summary:</b>	<p>Regulates the gating properties of AMPA-selective glutamate receptors (AMPA receptors). Modulates their gating properties by accelerating their rates of activation, deactivation and desensitization. Displays subunit-specific AMPA receptor regulation. Shows specificity for GRIA1, GRIA4 and the long isoform of GRIA2. Thought to stabilize the calcium channel in an inactivated (closed) state (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>