

## Product datasheet for **RR211572**

### **Cacng7 (NM\_080695) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacng7 (NM\_080695) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cacng7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211572 representing NM\_080695  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAGTCACTGCAGCAGCCGCGCCCTGACCCTGCTGAGCAGCGTGTGGTGCCTGCGGCCTGCTCCTTG  
TGGGCATCGCGGCAGCACGGACTACTGGCTGTATATGGAGGAGGGGACCGTTTTGCCGACAACCAGAC  
CACCGAGGTCAAGATGGCGCTGCACGCTGGCCTCTGGAGAGTCTGCTTCTTTCAGGTCGGGAGAAGGGG  
CGCTGTGTGGCTTCTGAGTACTTCTTGAACCAGAGATCAACTTGGTGACGGAAAACACGGAGAATATTC  
TGAAGACAGTACGCACGGCTACACCCTCCCTATGGTCAGTCTCTCCTTGTTGTTACCGCCTTCGTCAT  
CAGCAACATCGGCCACATCCGACCTCAGAGGACCATTCTTGCCTTCGTTCTGGCATCTTTTTTCATTTTA  
TCAGGCCCTCCTTGGTGGTGGGCTTGGTTCTATACATCTCTAGCATCAACGATGAGGTCATGAACAGGC  
CCAGCAGCTCTGAGCAATACTTTCACTATCGCTACGGTGGTGGTTCGTTTGCCTTCGCTGCTTCTCCTTCT  
TCTGAAAGAGGGGGCCGGAGTCATGTCCGTGACTTATTCACCAAGCGCTACGCGGAGGAGGAGATGTAT  
CGCCCGCACCCGGCTTCTACCGACCGCTCTCAGCGACTGCTCCGACTACTCGGCCAGTTTCTGCAAC  
CCGAAGCGTGGCGTCGTGGCCGAGCCCTCCGACATTTCTAGCGAGTCTCCATCCAGATGACGCAAAA  
TTACCCTCCGGCCATCAAGTACCGGACCACCTCCACATCTCCACTTCACCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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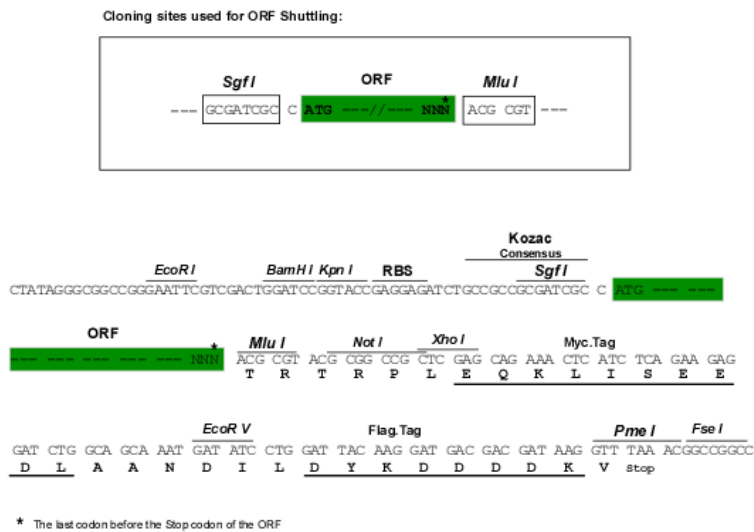
**Protein Sequence:** >RR211572 representing NM\_080695  
 Red=Cloning site Green=Tags(s)

MSHCSSRALTLLSSVFGACGLLLVGIAVSTDYWLMEEGTVLPQNQTTEVKMALHAGLWRCVCFAGREKG  
 RCVASEYFLEPEINLVNTENTENILKTVRTATPFPMVSLFLVFTAFVISNIGHIRPQRTILAFVSGIFFIL  
 SGLSLVGLVLYISSINDEVMNRPSSSEQYFHRYGWSFAFAASSFLLKEGAGVMSVYLF TKRYAEEEMY  
 RPHPAFYRPRLSDCSDYSGQFLQPEAWRRGRSPDISSDVSIQMTQNYPPAIAIKYPDHLHISTSPC

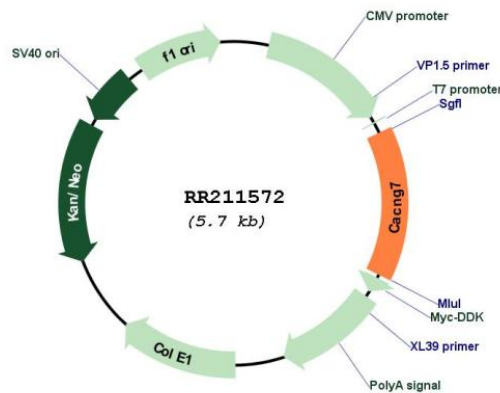
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_080695

**ORF Size:** 825 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_080695.1</a> , <a href="#">NP_542426.1</a>
<b>RefSeq Size:</b>	828 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	140728
<b>UniProt ID:</b>	<a href="#">P62957</a>
<b>Cytogenetics:</b>	1q12
<b>MW:</b>	31 kDa
<b>Gene Summary:</b>	human homolog is involved in negative regulation of CaV2.2 calcium channel expression [RGD, Feb 2006]