

Product datasheet for **RN202459**

Cacng8 (NM_080696) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacng8 (NM_080696) Rat Untagged Clone
Tag: Tag Free
Symbol: Cacng8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN202459 representing NM_080696
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

CTGGAATCATTGAAACGCTGGAATGAAGAGAGGGGTTTGTGGTGCGAAAAGGGCGTTTCAGGTA
CTACTGA
CCACCATAGGCGCCTTTGCAGCTTTTGGCCTCATGACCATCGCCATCAGCACTGACTACTGGCTCTACAC
AAGAGCTCTCATCTGCAACACCACCAACCTCACAGCAGGTGATGATGGACCACCCATCGTGGGGCAGT
GGCTCCTCAGAGAAGAAGGACCCTGGGGCCTCACACATTCAGGCCTCTGGCGGATATGCTGCCTGGAA
GGTTGAAAAGAGGTGTCTGCGTGAAGATCAACCACTTCCCGGAGGACACGGACTACGACCACGACAGCGC
GGAGTACCTGCTCCGAGTAGTCCGGCCTCCAGCATCTTCTATCCTGAGCGCCATCCTGCTGCTGCTC
GGGGCGTGTGCGTAGCTGCCTCTCGCTTACAAATCCAAAAGGAACATCATCTGGGCGCAGGGATCC
TGTTCTGTTGGCAGCAGGCTGAGCAACATCATCGGGGTGATCGTGTACATATCGGCAAACGCGGGCAGCC
AGGCCCAAGAGGGACGAGGAGAAGAAAACCACTATTCGTATGGCTGGTCTTCTACTTCGGCGGGCTG
TCATTCATCCTGGCCGAGGTGATCGGCGTCTAGCCGTCAACATCTACATCGAGCGCAGCCGCGAGGCAC
ACTGCCAATCACGCTCGACCTACTCAAGGCCGGCGGGCGGGCGGGCAGTGGCGGGAGCGGCCCTC
GGCCATCCTCCGTCTGCCAGTTACCGCTTCCGCTACCGCCGCCGCTCCCGCTCCAGTCCCGAGGCTCC
AGCGAGGCTCGCCATCGCGGATGCGTCTCCCGCGGCCCGGGGGCCCGGGCTTCGCCTCCACGGACA
TCTCCATGTACACGCTCAGTCGCGACCCGTCACAGGGCAGCGTGGCTGCGGGGCTGGCGAGCGCCGGGG
TGGAGGCGGGCGTGCCTGGTGCCTACCGCGGGCGGGCGGGCAGCGGGGGCGGGGACGGGG
TCGGAGCGGGACCGAGGGAGCTCAGCGGGCTTCTCACGCTGCACAACGCCTTCCCAAGGAGCGGGCGT
CCGGCGTACGGTACGGTACCGGACCGCCGCTGCGCCGGCGCCCGCCGCGCCCGCTCCTGCAGCGCC
CGCGCCGGGACGCTGTCAAAGAGGCCCGCGCTCAAACCAACACGCTCAACAGGAAAACACGGCC
GTG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_080696
Insert Size:	1266 bp
OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_080696.2 , NP_542427.1
RefSeq Size:	1266 bp
RefSeq ORF:	1266 bp
Locus ID:	140729
UniProt ID:	Q8VHW5
Cytogenetics:	1q12
Gene Summary:	Voltage-dependent calcium channels couple membrane depolarization in a number of cellular processes. These activities are regulated by distinct channels composed of the pore-forming alpha-1 subunit and the modulatory beta, alpha-2/delta and gamma subunits. The protein encoded by this gene represents one of the gamma subunits. It is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This gene is located in a cluster with two similar gamma subunit-encoding genes on chromosome 1. The mRNA for this gene is believed to initiate translation from a non-AUG (CUG) start codon. [provided by RefSeq, Jul 2008]