

## Product datasheet for **RR210392**

### **Cacng2 (NM\_053351) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacng2 (NM\_053351) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cacng2  
**Synonyms:** lpr328  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210392 representing NM\_053351  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGGCTGTTTGATCGAGGTGTTCAAATGCTTTTAACCACCGTTGGTGCTTTCGCTGCCTTCAGCTTGA  
TGACCATCGCTGTGGGAACCGACTATTGGCTGTACTCCAGAGGGGTTTGCAAGACCAAAAGTGTCAGTGA  
GAATGAAACCAGCAAAAAGAACGAGGAAGTTATGACCCATTCGGATTATGGAGAACCTGCTGCCTCGAA  
GGGAACCTCAAAGGTCTGTGCAAGCAAATCGACCACTTTCCCGAAGACCGGGACTACGAGGCTGACACCG  
CAGAGTATTTCCCTCAGGGCCGTGAGGGCCTCGAGTATCTTCCCAATCCTGAGTGTGATCCTGCTCTTCAT  
GGGTGGTCTCTGCATCGCTGCAAGCGAGTTTTACAAGACACGTCAACAATCATCCTGAGCGCTGGCATC  
TTCTTCGTGTCTGCAGGTCTAAGTAATATTATCGGGATCATCGTGTATATATCAGCCAATGCTGGAGACC  
CCTCCAAGAGTGACTCAAAAAGAACAGCTACTCCTACGGCTGGTCTTCTACTTCGGGGCCCTGTCCTT  
CATCATCGCCGAGATGGTCGGGGTGTGGCCGTGCACATGTTTATCGACCGCCACAAACAGCTGCGGGCC  
ACGGCCCGTGCCACCGACTACCTCCAGGCTCCGCCATCACCCGCATCCCAGCTACCGCTACCGCTACC  
AGCGCCGACGGCTCCAGCTCGCGCTCCACCGAGCCCTCACTCCAGGGACGCCTCGCCGTGGCGCT  
GAAGGGCTTCAACACCCTGCCGTCCACGGAGATCTCCATGTACACCCTCAGTAGGGACCCCTGAAGGCT  
GCCACCACGCCCATCGCCACCTACAACCTCGGACAGGGATAACAGCTTTCTCCAGGTCCACAACCTGTATCC  
AGAAGGACAGCAAGGACTCTCTCCACGCCAACACAGCCAACCGCCGGACCACGCCCGTA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210392 representing NM\_053351  
Red=Cloning site Green=Tags(s)

MGLFDRGVQMLLTTVGAFAAFSLMTIavgtdyWLYSRGVCKTKSVSENETSKKNEEVMTHSGLWRTCCLE  
 GNFKGLCKQIDHFPEDADYEADTAeyFLRAVRASSIFPILSVILLFMGGLCIAASEFYKTRHNIILSAGI  
 FFVSAGLSNIIGIIVYISANAGDPSKSDSKKNSYSYGWSFYFGALSFIIAEMVGLAVHMFIDRHKQLRA  
 TARATDYLQASAITRIPSYRYRQRRSRSSRSTEPshSRDASPVGVKGFNTLPSTEISMYTLSRDPLKA  
 ATPIATYNSDRDNSFLQVHNCIQKDSKDSLHANTANRRTPV

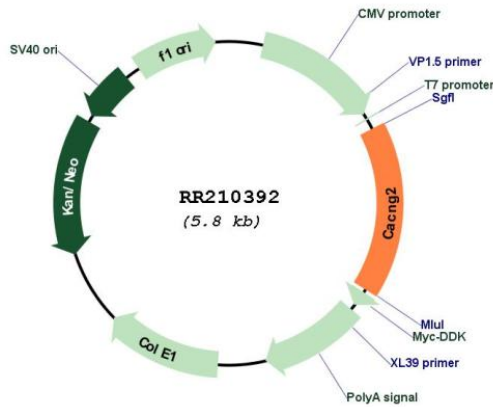
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053351

**ORF Size:** 969 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_053351.1</a> , <a href="#">NP_445803.1</a>
<b>RefSeq Size:</b>	1124 bp
<b>RefSeq ORF:</b>	972 bp
<b>Locus ID:</b>	84347
<b>Cytogenetics:</b>	7q34
<b>MW:</b>	35.9 kDa
<b>Gene Summary:</b>	subunit of voltage-dependent calcium channel; involved in influencing channel properties [RGD, Feb 2006]