

## Product datasheet for **RR205074**

### Cacna2d2 (NM\_175592) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cacna2d2 (NM\_175592) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cacna2d2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR205074 representing NM\_175592  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCGGTGCCGGCTCGGACCTGCGGCGCTTCTTGCCCGGCCCGGTGCGGACCGCTCGCCCTGGCCCC  
 GTCGCGGTCCCCGGCCCTGCCCTGACCCCCGGGGCCAGCGTCCGGGCCCGCACGCCGCTCTTGCTACT  
 GCTGCCGCTCTGCTGCTTTTACCGCTGCTCACCGCCCGGCGCCTCTGCCTACAGCTTCCCCAGCAG  
 CACACGATGCAGCACTGGGCCCGGCCTGGAGCAGGAGATTGACGGTGTGATGCGGATTTTGGAGGCG  
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GTGTTGCTACATCCCAATCTCAAGCCCCAGATTACCAACTTCCGGGAGCCTGTGACCTTGGACTTCTCTGG  
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**Protein Sequence:**

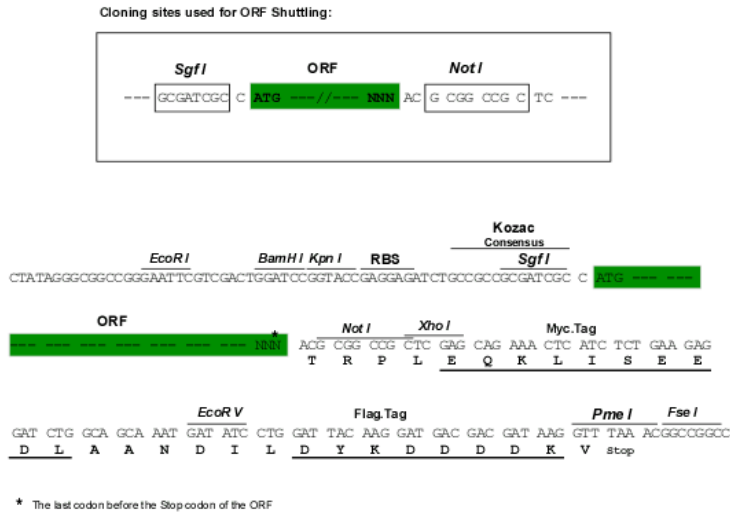
>RR205074 representing NM\_175592  
 Red=Cloning site Green=Tags(s)

MAVPARTCGASWPGPVRTARPWPGRGPRPCPDPRGPASGPARPLLLLLPPLLLPLLTAPGASAYSFPQQ  
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 RPAVVGVKLDLEAWAEKFKVLASNRTHQDQPKQCGPSSHCEMDCEVNNEDLLCVLIDGGFLVLSQNH  
 QWDQVGRFFSEVDANLMLALYNSFYTRKESYDYQAACAPQPPGNLGAAPRGVFPVTIADFLNLAWWTS  
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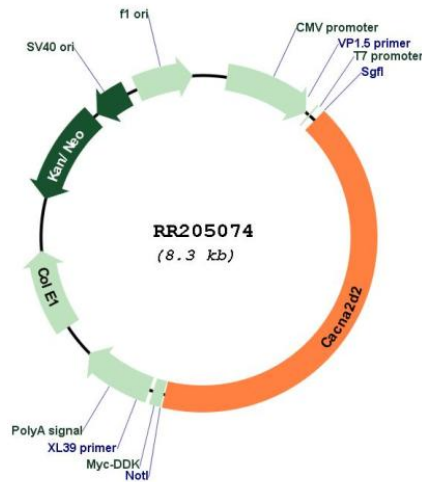
TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_175592

ORF Size: 3471 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: 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>                | <u>NM_175592.2, NP_783182.1</u>   |
| <b>RefSeq Size:</b>           | 3502 bp   |
| <b>RefSeq ORF:</b>            | 3474 bp   |
| <b>Locus ID:</b>              | 300992  |
| <b>UniProt ID:</b>            | <u>Q8CFG6</u>   |
| <b>Cytogenetics:</b>          | 8q32  |
| <b>MW:</b>                    | 130.8 kDa   |
| <b>Gene Summary:</b>          | auxiliary subunit of a voltage dependent calcium channel; may be involved in calcium currents in the heart [RGD, Feb 2006]  |