

## Product datasheet for **RR214437**

### Camk1 (NM\_134468) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Camk1 (NM_134468) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Camk1
Synonyms:	Camki; Gaip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214437 representing NM_134468 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCAGGGGCAGTGAAGGCCCCAGGTGGAAGCAGGCAGAAGACATTAGGGATATTTAGACTTCAGGG  
ATGTTCTGGGCACGGGTGCCTTCTCAGAAGTGATCCTGGCAGAGGACAAGAGGACTCAGAACTGGTGGC  
CATCAAATGCATTGCCAAGAAGGCCCTGGAGGGCAAAGAAGGCAGCATGGAGAATGAGATCGCCGTCTTA  
CACAAGATCAAGCACCCCAACATTGTAGCCCTGGATGACATCTATGAGAGTGGGGCCACCTCTACCTCA  
TCATGCAGCTGGTTTCAGGTGGAGAGCTGTTTGACCGAATTGTGGAGAAAAGGATTCTACACAGAACGGGA  
TGCCAGCCGCCTCATCTCCAGGTGCTGGATGCTGTAAGTACCTGCACGACCTGGGCATTGTGCACCGG  
GATCTCAAGCCAGAGAACCTGCTATACTACAGTCTGGATGAAGACTCCAAAATCATGATCTCTGACTTTG  
GCCTCTCCAAGATGGAGGACCCAGGCAGTGTGCTCTCCACAGCCTGTGGGACTCCAGGATATGTGGCCCC  
TGAGGTCTGGCCAGAAGCCCTACAGCAAGGCCGTGGACTGCTGGTCCATAGGAGTCATTGCCTATATA  
CTGCTCTGTGGCTACCCGCCGTTCTATGATGAAAATGATGCCAACTTTTTGAACAGATTTTGAAGGCTG  
AGTATGAGTTTGACTCTCCTTATTGGGACGACATCTCTGACTTGCCAAAGATTTTCATACGTCATTTGAT  
GGAGAAAAGACCCAGAGAAGAGGTTACCTGTGAGCAGGCCTTGACGACCCCTGGATTGCAGGAGACACA  
GCTCTGGATAAGAATATCCACCAGTCAGTGAGTGAGCAGATCAAGAAGAACTTTGCCAAGAGCAAGTGGA  
AGCAAGCTTTCAATGCTACCGCTGTGGTTCCGCACATGAGGAAGCTGCAGCTGGGCACCAGCCAGGAGGG  
ACAGGGACAGACAGCTAGCCACGGAGAGCTGCTGACACCCACAGCTGGGGGGCCAGCAGCTGGCTGCTGC  
TGTGAGACTGCTGTGTGGAGCCAGGCTCAGAAGTCCCCCTGCACCACCCCAAGCTCTAGGGCCATGG  
AC

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214437 representing NM\_134468  
 Red=Cloning site Green=Tags(s)

MPGAVEGPRWKQAEDIRDIYDFRDVLTGAFSEVILAEDKRTQKLVAIKCIAKKALEGKEGSMENEIAVL  
 HKIKHPNIVALDDIYESGGHLYLIMQLVSGGELFDRIVEKGFYTERDASRLIFQVLDAVKYLHDLGIVHR  
 DLKPENLLYYSLDEDSKIMISDFGLSKMEDPGSVLSTACGTPGYVAPEVLAQKPKYSKAVDCWSIGVIAYI  
 LLCGYPPFYDENDAKLFEQILKAEYEFDSPYWDDISDSAKDFIRHLMKEDPEKRF TCEQALQHPWIAGDT  
 ALDKNIHQSVSEQIKKNFAKSKWKQAFNATAVVRHMRKLQLGTSQEGQGQTASHGELLTPTAGGPAAGCC  
 CRDCCVEPGSELPPAPPPSSRAMD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

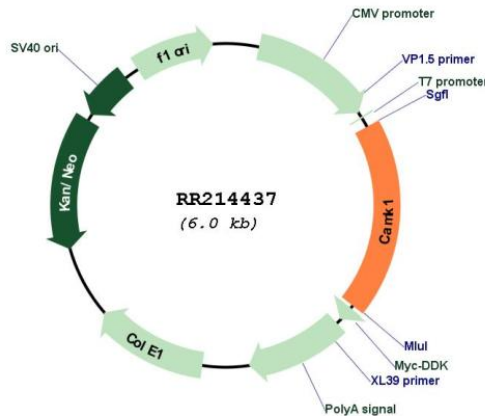
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_134468

<b>ORF Size:</b>	1122 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_134468.1</a> , <a href="#">NP_604463.1</a>
<b>RefSeq Size:</b>	1439 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	171503
<b>UniProt ID:</b>	<a href="#">Q63450</a>
<b>Cytogenetics:</b>	4q42
<b>MW:</b>	41.6 kDa
<b>Gene Summary:</b>	activated by NMDA receptor induction and by glutamate; depolarization-induced activation is inhibited by nifedipine [RGD, Feb 2006]