

## Product datasheet for **SC119077**

### CAMKIV (CAMK4) (NM\_001744) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CAMKIV (CAMK4) (NM\_001744) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CAMKIV  
**Synonyms:** caMK; CaMK-GR; CaMK IV; CaMKIV  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001744 edited  
ATGCTCAAAGTCACGGTGCCTCCTGCTCCGCCTCGTCCTTTCGGTCAACCAGT  
GCGCCCCGGGGACCGCAGCCTCGTCCCGGATTACTGGATCGACGGCTCCAACAGGGAT  
GCGCTGAGCGATTCTTCGAGGTGGAGTCGGAGCTGGGACGGGGTCTACATCCATTGTG  
TACAGATGCAAACAGAAGGGACCCAGAAGCCTTATGCTCTCAAAGTGTTAAAGAAAACA  
GTGGACAAAAAATCGTAAGAAGTGAAGTGGAGTTCCTTCGCTCTCACATCCAAAC  
ATTATAAACTTAAAGAGATATTTGAAACCCCTACAGAAATCAGTCTGGTCTAGAACTC  
GTCACAGGAGGAGAACTGTTTGAAGGATTGTGGAAAAGGGATATTACAGTGAGCGAGAT  
GCTGCAGATGCCGTTAAACAAATCCTGGAGGCAGTTGCTTATCTACATGAAAATGGGATT  
GTCCATCGTGATCTCAAACCAGAGAATCTTCTTTATGCAACTCCAGCCCCAGATGCACCA  
CTCAAATCGCTGATTTTGGACTCTCTAAAATTGTGGAACATCAAGTGCTCATGAAGACA  
GTATGTGGAACCCAGGGTACTGCGCACCTGAAATTCCTTAGAGGTTGTGCCTATGGACCT  
GAGGTGGACATGTGGTCTGTAGGAATAATCACCTACATCTTACTTTGTGGATTTGAACCA  
TTCTATGATGAAAGAGGCGATCAGTTTCATGTTCCAGGAGAAATCTGAATTGTGAATATTAC  
TTTATCTCCCCCTGGTGGGATGAAGTACTCTAAATGCCAAGGACTTGGTCCAGAAAATTA  
ATTGTTTTGGATCCAAAGAAACGGCTGACTACATTTCAAGCTCTCCAGCATCCGTGGGTC  
ACAGGTAAGCAGCCAATTTTGTACACATGGATACCGCTCAAAGAAGCTCCAAGAATTC  
AATGCCCGCGTAAGCTTAAGGCAGCGGTGAAGGCTGTGGTGGCCTCTTCCCGCCTGGGA  
AGTGCCAGCAGCAGCCATGGCAGCATCCAGGAGAGCCACAAGGCTAGCCGAGACCTTCT  
CCAATCCAAGATGGCAACGAGGACATGAAAGCTATTCCAGAAGGAGAGAAAATTCAGGC  
GATGGGGCCCAAGCCGAGTTAAGGGGGCACAGGCTGAGCTGATGAAGGTGCAAGCCTTA  
GAGAAAGTTAAAGGTGCAGATATAAATGCTGAAGAGGCCCCCAAATGGTGCCCAAGGCA  
GTGGAGGATGGGATAAAGGTGGCTGACCTGGAAGTGAAGGAGGGCCTAGCAGAGGAGAAG  
CTGAAGACTGTGGAGGAGGCAGCAGCTCCAGAGAAGGGCAAGGAAGCTCTGCTGTGGGT  
TTTGAAGTCCACAGCAAGATGTGATCCTGCCAGAGTACTAA



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| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_001744 unedited</p> <pre> NGGTCAGAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCGGCGGGC GCGGCGGCGGGCTCCGGAGTCCCCTGCGAAGATGCTCAAAGTACGGTGCCCTCCTGCT CCGCCTCGTCTGCTCTTCGGTCAACAGGATGCGGCCCCGGGGACCGCAGCCTCGTCC CGGATTACTGGATCGACGGCTCCAACAGGGATGCGCTGAGCGATTCTTCGAGGTGGAGT CGGAGCTGGGACGGGTGCTACATCCATTGTGTACAGATGCAAACAGAAGGGGACCCAGA AGCCTTATGCTCTCAAAGTGTTAAAGAAAACAGTGGACAAAAAATCGTAAGAAGTGAAG TAGGAGTTCTTCTCGCCTCTCACATCCAACATTATAAACTTAAAGAGATATTTGAAA CCCCTACAGAAATCAGTCTGGTCTAGAACTCGTCACAGGAGGAGAACTGTTTGATAGGA TTGTGGAAAAGGGATATTACAGTGAAGGAGATGCTGCAGATGCCGTTAAACAAATCCTGG AGGCAGTTGCTTATCTACATGAAAATGGGATTGTCCATCGTGATCTCAAACAGAGAATC TTCTTTATGCAACTCCAGCCCAGATGCACCACTCAAATCGCTGATTNTGGACTCTCTA AAATTGTGGAACATCAAGTGTCTATGAAGACAGTATGTGGAACCCAGGGTACTGCGCAC CTGANATTTAGAGGGTGTGCCTATGGACCTGANGTGGACATGTGGTCTGTAGGAATAA TCACCTACATCTTACTTTGTGGATTTGAACCATTCTATGATGAAAGAGGGGATCAGTTCA TGTTCCAGGAGAATTCCTGATTGTGAAATATACTTTATCTCCCCCTGGNTGGNATGAAGTA TCTCTAAATGCCN </pre>                    |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_001744 unedited</p> <pre> CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTTTTCTAAATAACTTT AGTTTATAAGTGATATGTGTAGATAACCATCAATTGGATAAAAAAAGAGCTTTGATAAAC AATAATGTTTTCTTACTCTATTAAGTCAATAATGAATAATCTTAAAATGGAATATTATT CCTACTCTATGAAGACATTTTGGCACTAACCTGTGAAATAGAATTTTCTAAATATTTGCA ACTTGGTAATTATAGAGTTATCCATTAATGTTCTTATCTGTAAGTTGTATAAATTC ATGAGTAAATACAATTTTATCTGAAAATGAAAAGGAATCAATCTTATCTTCATCAGTTT AAGTACAGTCTTACCTTCTTTCTCCCTGTTTATTACACCCTAAGCTTTGTCTATCAGA AAGTATCCTTATTGGAGAGCACGTGAAGGAAAGAATGGAACCTCAGCGTGAGTTTGTA TTACTTCTCCAGTTGTAAAATGGCAAAATCTTAGAACATTTTGGTTATTAATTAATAT AGTGTCTATAAATAAGAATAAAATTAAGCATTTCTCCACCACAGGCTTTAAGGACATAT GGGCTTCATGCCCTTTAAAGATACTTCAATTTTCTTACCCTTTGCAAGTGGATTTTTTTT TTGCCATATGTACAACCATCATCTATAACCACTCCCCTTGTAACGTTTGAACACCTCAT GATAAAAGTAAAATGCTGCAAAACTTTGGGAACCTGTCTTTTACACTTCCCTCATTTAAC TCACCCCATTCAAAGGATTACTGCTGAGAAACCAAGGATGTTAGGAGGGTAAA TTTCAAAACAAAACATTTGGCCATTACTTCAAATGTCCACCGGCCCTGAAAAGATCCT TTAAGTGCCGTTGGCTACCTCAGAATTACACTCTGT </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_001744  |
| <b>Insert Size:</b>                 | 2620 bp  |
| <b>OTI Disclaimer:</b>              | 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).   |
| <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).   |

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| <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_001744.3</a> , <a href="#">NP_001735.1</a>   |
| <b>RefSeq Size:</b>           | 2168 bp   |
| <b>RefSeq ORF:</b>            | 1422 bp   |
| <b>Locus ID:</b>              | 814   |
| <b>UniProt ID:</b>            | <a href="#">Q16566</a>  |
| <b>Cytogenetics:</b>          | 5q22.1  |
| <b>Domains:</b>               | pkinase, TyrKc, S_TKc   |
| <b>Protein Families:</b>      | Druggable Genome, Protein Kinase  |
| <b>Protein Pathways:</b>      | Calcium signaling pathway, Long-term potentiation, Neurotrophin signaling pathway   |
| <b>Gene Summary:</b>          | The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. [provided by RefSeq, Jul 2008]  |