

Product datasheet for SC117843

CaMKI (CAMK1) (NM_003656) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CaMKI (CAMK1) (NM_003656) Human Untagged Clone
Tag:	Tag Free
Symbol:	CaMKI
Synonyms:	CAMKI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003656 edited
 ATGCTGGGGCAGTGGGAAGGCCCCAGGTGGAAGCAGGCGGAGGACATTAGAGACATCTAC
 GACTTCCGAGATGTTCTGGGCACGGGGCCTTCTCGGAGGTGATCCTGGCAGAAGATAAG
 AGGACGCAGAAGCTGGTGGCCATCAAATGCATTGCCAAGGAGGCCCTGGAGGGCAAGGAA
 GGCAGCATGGAGAATGAGATTGCTGTCCTGCACAAGATCAAGCACCCCAACATTGTAGCC
 CTGGATGACATCTATGAGAGTGGGGGCCACCTCTACCTCATCATGCAGCTGGTGTGGGT
 GGGGAGCTCTTTGACCGTATTGTGAAAAAGGCTTCTACACGGAGCGGGACGCCAGCCGC
 CTCATCTTCCAGGTGCTGGATGCTGTGAAATACCTGCATGACCTGGGCATTGTACACCGG
 GATCTCAAGCCAGAGAATCTGCTGTAACAGCCTGGATGAAGACTCCAAAATCATGATC
 TCCGACTTTGGCCTCTCCAAGATGGAGGACCCGGGCAGTGTGCTCTCCACCGCCTGTGA
 ACTCCGGGATACGTGGCCCTGAAGTCTGGCCAGAAGCCCTACAGCAAGGCTGTGGAT
 TGCTGGTCCATAGGTGTCATCGCCTACATCTTGCTCTGCGGTTACCCTCCCTTCTATGAC
 GAGAATGATGCCAACTCTTTGAACAGATTTTGAAGGCCGAGTACGAGTTTGACTCTCCT
 TACTGGGACGACATCTCTGACTCTGCCAAAGATTTTCATCCGGCACTTGATGGAGAAGGAC
 CCAGAGAAAAGATTACCTGTGAGCAGGCCTTGCAGCACCCATGGATTGCAGGAGATACA
 GCTCTAGATAAGAATATCCACCAGTCGGTGAGTGAGCAGATCAAGAAGAACTTTGCCAAG
 AGCAAGTGAAGCAAGCCTTCAATGCCACGGCTGTGGTGGCCACATGAGGAACTGCAG
 CTGGGCACCAGCCAGGAGGGGCAGGGGCAGACGGCAGCCATGGGGAGCTGCTGACACCA
 GTGGCTGGGGGGCCGGCAGCTGGCTGTTGCTGTCGAGACTGCTGCGTGGAGCCGGGCACA
 GAACTGTCCCCACACTGCCCCACCAGCTCTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003656 unedited CAAATTTTGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGCCGCAGGCGGGC GGAGAGAGCCGCCGAGCCGAGCCGAGCCCCAGCTCCAGCAAGAGCGCGGGCGGGTGGCC AGGCACGACGGGTGAGGACCGCGGCCACAGCTCGGCGCAACCACCGCGGGCTCCCAG CCAGCCCCGCGGGCGGGCAGCCGACGAGCCCTGGCTGTGGTGGGGGGCAGTGGGCCAT GCTGGGGCAGTGAAGGCCCAAGTGAAGCAGCGGAGGACATTAGAGACATCTACGA CTTCCGAGATGTTCTGGGCACGGGGCCCTTCTCGGAGGTGATCCTGGCAGAAGATAAGAG GACGCAGAAGCTGGTGGCCATCAAATGCATTGCCAAGGAGGCCCTGGAGGGCAAGGAAGG CAGCATGGAGAATGAGATTGCTGTCTGCACAAGATCAAGCACCCCAACATTGTAGCCCT GGATGACATCTATGAGAGTGGGGCCACCTCTACCTCATCATGCAGCTGGTGTGGGTGG GGAGCTCTTTGACCGTATTGTGGAAAAAGGCTTCTACACGGAGCGGGACGCCAGCCGCT CATCTCCAGGTGCTGGATGCTGTGAAATACCTGCATGACCTGGCATTGTACACGGGA TCTCAAGCCAGAGAATCTGCTGTACTACAGCTGGATGAAGACTCCCAAATCATGATCTC CGACTTTGGCCTCTCAAGATGGAGACCCCGCAGTGTGCTCTCCACCGCTGTGGAAT CCCGGATACGCTGGCCCCTGAAGTCTGGCCANAAGCCCTACAGCAAGGCTGGGGATTG CTGGGCCCTAAGTGCCATCGCCTACATCTTGTCTGCGGGTACCCTCCCTTCTATGACAG ATGATGCCAACTCTTTGACAGATTTTGAAGCCGAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003656 unedited GAACCGCNGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGTTTTATCTTCCC TTTATTACAAGAAGGAACAATAAAATAGAAACATTTGTATGGAAAATGCAGTGAGGAGTG GTAGGGAAGCAGGTGAGGAGGGGACAGGGCAGAGAACTCCCGTTCCAGGGAGGGAAGGG GAGCAGGCTGCCCAAGCCCTCCACGCAGAGGATCATGACCCGAGGTCCAGGGCCCTA GAGCTGGTGGGGCAGTGTGGGGACAGTTCTGTGCCCGGCTCCACGCAGCAGTCTCGACA GCAACAGCCAGCTGCCGGCCCCCAGCCACTGGTGTGAGCAGTCCCCATGGCTCGCCGT CTGCCCTGCCCTCCTGGCTGGTGGCCAGCTGCAGTTTCTCATGTGCCGACCCACAGC CGTGGCATTGAAGGCTTGCTTCCACTTGCTTGGCAAAGTTCTTCTTGTCTGCTCACT CACCGACTGGTGGATATTCTTATCTAGAGCTGTATCTCTGCAATCCATGGGTGCTGCAA GGCCTGCTCACAGGTGAATCTTTCTCTGGTCTTCTCCATCAAGTGCCGGATGAAATC TTTGGCAGAGTCAGAGATGTCGTCAGTAAGGAGAGTCAAACCTGTAAGTCCGGCTTCAA AATCTGTTCAAAGAGTTTGGCATATTCTCGTCATAGAAGGGAGGTAACCGCAAACCCAG ATGTAAGCGATGACACCTATGGACCAGCATTACAGCCCTGCTGTAGGGCTTCTGGGCCA GGACTTCAGGGGCCACGTATTCCCGGATCCACAGCGGTGGAGAGCCCACTGCCCGGT TCCTTCATCTTGGAAAGGCCAAATCCGAGATCATGATTTTGGAGTCTCATTCAAGCTGT ATAACACAAATCTCTGGCTTGAGAACCCGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003656
Insert Size:	1770 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_003656.3 , NP_003647.1
RefSeq Size:	1501 bp
RefSeq ORF:	1113 bp
Locus ID:	8536
UniProt ID:	Q14012
Cytogenetics:	3p25.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Calcium/calmodulin-dependent protein kinase I is expressed in many tissues and is a component of a calmodulin-dependent protein kinase cascade. Calcium/calmodulin directly activates calcium/calmodulin-dependent protein kinase I by binding to the enzyme and indirectly promotes the phosphorylation and synergistic activation of the enzyme by calcium/calmodulin-dependent protein kinase I kinase. [provided by RefSeq, Jul 2008]