

## Product datasheet for **SC323971**

### **CAMK2D (NM\_172127) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAMK2D (NM_172127) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMK2D
Synonyms:	CAMKD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_172127.1  
 GCCGCGCTGCTCGCTTCTGGTCCGTCGCGCTCCCAGCCAGGGCACAGCCCGGACCGA  
 GGATGGCTTCGACCACAACCTGCACCAGGTTACCGGACGAGTATCAGCTTTTCGAGGAGC  
 TTGAAAGGGGGCATTCTCAGTGGTGAGAAGATGTATGAAAATTCCTACTGGACAAGAAT  
 ATGCTGCCAAAATTATCAACACCAAAAAGCTTTCTGCTAGGGATCATCAGAACTAGAAA  
 GAGAAGCTAGAATCTGCCGCTTTTTGAAGCACCTAATATTGTGCGACTTCATGATAGCA  
 TATCAGAAGAGGGCTTTACTACTTTGGTGGTTGATTTAGTTACTGGAGGTGAACGTGTTG  
 AAGACATAGTGGCAAGAGAATACTACAGTGAAGCTGATGCCAGTCATTGTATACAGCAGA  
 TTCTAGAAAAGTGAATCATTGTACCTAAATGGCATAGTTCACAGGGACCTGAAGCCTG  
 AGAATTTGCTTTTAGCTAGCAAATCCAAGGGAGCAGCTGTGAAATTGGCAGACTTTGGCT  
 TAGCCATAGAAGTTCAAGGGGACCAGCAGGCGTGGTTTGGTTTTGCTGGCACACCTGGAT  
 ATCTTTCTCCAGAAGTTTACGTAAAGATCCTTATGAAAAGCCAGTGGATATGTGGGCAT  
 GTGGTGCATTCTATATTCTACTTGTGGGTATCCACCCTTCTGGGATGAAGACCAAC  
 ACAGACTCTATCAGCAGATCAAGGCTGGAGCTTATGATTTTCCATCACCAGAATGGGACA  
 CGGTGACTCCTGAAGCCAAAGACCTCATCAATAAAATGCTTACTATCAACCCTGCCAAAC  
 GCATCACAGCCTCAGAGGCACTGAAGCACCCATGGATCTGTCAACGTTCTACTGTTGCTT  
 CCATGATGCACAGACAGGAGACTGTAGACTGCTTGAAGAAATTTAATGCTAGAAGAAAAC  
 TAAAGGGTGCCATCTTGACAACATGCTGGCTACAAGGAATTTCTCAGCAGCCAAGAGTT  
 TGTTGAAGAAACCAGATGGAGTAAAGGAGTCAACTGAGAGTTCAAATACAACAATTGAGG  
 ATGAAGATGTGAAAGCACGAAAGCAAGAGATTATCAAAGTCACTGAACAACCTGATCGAAG  
 CTATCAACAATGGGGACTTTGAAGCCTACACAAAAATCTGTGACCCAGGCCTTACTGCTT  
 TTGAACCTGAAGCTTTGGGTAATTTAGTGAAGGGATGGATTTTACCGATTCTACTTTG  
 AAAATGCTTTGTCCAAAAGCAATAAACCAATCCACACTATTATTCTAAACCCTCATGTAC  
 ATCTGGTAGGGGATGATGCCGCCTGCATAGCATATATTAGGCTCACACGTACATGGATG  
 GCAAGTGAATGCCAAAGCAATGCAGTCAGAAGAGACTCGTGTGTGGCACCCGCGGGATG  
 GAAAGTGGCAGAATGTTCAATTTTCATCGCTCGGGTCCACCAACAGTACCCATCAAGTAA  
 TATTTCCAGGCTGCAGCTTCTTTGTTAATACCCCATGGTCAGCTCCTTCTACTTATTC  
 CATTGTTAATAGCATGGTATATGTTATTTAACGCTAGTAGTTGGTTACTGATGAAAAT  
 AAATGCCTTCACGGGAAAGGTTAA  
 AA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_172127

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<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_172127.1</a> , <a href="#">NP_742125.1</a>
<b>RefSeq Size:</b>	4098 bp
<b>RefSeq ORF:</b>	1437 bp
<b>Locus ID:</b>	817
<b>UniProt ID:</b>	<a href="#">Q13557</a>
<b>Cytogenetics:</b>	4q26
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway
<b>Gene Summary:</b>	<p>The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a delta chain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Distinct isoforms of this chain have different expression patterns.[provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (1) has multiple differences in the 3' coding region, compared to variant 3. The resulting isoform (1) has a shorter C-terminus, compared to isoform 3. Isoform 1 is encoded by transcript variants 1 and 4. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extend of this RefSeq trasncript is supported by transcript alignments.</p>