

Product datasheet for **SC310318**

CAMK2D (NM_001221) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMK2D (NM_001221) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMK2D
Synonyms:	CAMKD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001221 edited
 ATGGCTTCGACCACAACCTGCACCAGGTTACGGACGAGTATCAGCTTTTCGAGGAGCTT
 GGAAAGGGGGCATTCTCAGTGGTGAGAAGATGTATGAAAATTCCTACTGGACAAGAATAT
 GCTGCCAAAATTATCAACACCAAAAAGCTTTCTGCTAGGGATCATCAGAACTAGAAAAGA
 GAAGCTAGAATCTGCCGTCTTTTGAAGCACCTAATATTGTGCGACTTCATGATAGCATA
 TCAGAAGAGGGCTTTCACTACTTGGTGTGGTATTAGTTACTGGAGTGAACTGTTTGAA
 GACATAGTGGCAAGAGAATACTACAGTGAAGCTGATGCCAGTCATTGTATACAGCAGATT
 CTAGAAAGTGTTAATCATTGTACCTAAATGGCATAGTTCACAGGGACCTGAAGCCTGAG
 AATTTGCTTTTAGCTAGCAAATCCAAGGGAGCAGCTGTGAAATGGCAGACTTTGGCTTA
 GCCATAGAAGTTC AAGGGGACCAGCAGGCGTGGTTTGGTTTGGCTGGCACACCTGGATAT
 CTTTCTCCAGAAGTTTTACGTAAAGATCCTTATGGAAAGCCAGTGGATATGTGGGCATGT
 GGTGTCTATTCTCTATATTCTACTTGTGGGTATCCACCCTTCTGGGATGAAGACCAACAC
 AGACTCTATCAGCAGATCAAGGCTGGAGCTTATGATTTTCCATCACCAGAATGGGACACG
 GTGACTCCTGAAGCCAAAGACCTCATCAATAAAATGCTTACTATCAACCCTGCCAAACGC
 ATCACAGCCTCAGAGGCACTGAAGCACCCATGGATCTGTCAACGTTCTACTGTTGCTTCC
 ATGATGCACAGACAGGAGACTGTAGACTGCTTGAAGAAATTTAATGCTAGAAGAAAATA
 AAGGGTGCCATCTTGACAATACTGCTGGCTACAAGGAATTTCTCAGCAGCCAAGAGTTTG
 TTGAAGAAACCAGATGGAGTAAAGGAGTCAACTGAGAGTTCAAATACAACAATTGAGGAT
 GAAGATGTGAAAGCACGAAAGCAAGAGATTATCAAAGTCACTGAACAACCTGATCGAAGCT
 ATCAACAATGGGGACTTTGAAGCCTACACAAAAATCTGTGACCCAGGCCTTACTGCTTTT
 GAACCTGAAGCTTTGGGTAATTTAGTGAAGGGATGGATTTTACCCGATTCTACTTTGAA
 AATGCTTTGTCCAAAAGCAATAAACCAATCCACACTATTATTCTAAACCCTCATGTACAT
 CTGGTAGGGGATGATGCCGCTGCATAGCATATATTAGGCTCACACAGTACATGGATGGC
 AGTGGAATGCCAAAGACAATGCAGTCAGAAGAGACTCGTGTGGCACCCCGGGATGGA
 AAGTGGCAGAATGTTTCAATTTTCATCGCTCGGGGTACCAACAGTACCCATCAAGCCACCC
 TGTATTCCAAATGGGAAAGAAAACCTTCTCAGGAGGCACCTTTTGTGGCAAACATCTAA



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Restriction Sites:	Please inquire
ACCN:	NM_001221
Insert Size:	1500 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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).
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_001221.2 , NP_001212.2
RefSeq Size:	2140 bp
RefSeq ORF:	1500 bp
Locus ID:	817
UniProt ID:	Q13557
Cytogenetics:	4q26
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

- Protein Pathways:** Calcium signaling pathway, ErbB signaling pathway, Glioma, GnRH signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Wnt signaling pathway
- Gene Summary:** 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]
- Transcript Variant: This variant (3) represents the longest transcript and encodes the longest isoform (3). 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 transcript is supported by transcript alignments.