

Product datasheet for **SC100851**

CAMK1D (NM_153498) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMK1D (NM_153498) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMK1D
Synonyms:	CaM-K1; CaMKID; CKLiK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_153498 edited

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ATGGCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGGAAAAAGCAAGCTGAAGACATCAAG
AAGATCTTCGAGTTCAAAGAGACCCTCGGAACCGGGCCTTTTCCGAAGTGGTTTTAGCT
GAAGAGAAGGCAACTGGCAAGCTCTTTGCTGTGAAGTGATCCCTAAGAAGGCGCTGAAG
GGCAAGGAAAGCAGCATAGAGAATGAGATAGCCGTCCTGAGAAAGATTAAGCATGAAAAT
ATTGTTGCCCTGGAAGACATTTATGAAAGCCCAAATCACCTGTACTTGGTCATGCAGCTG
GTGTCCGGTGGAGAGCTGTTTGACCGGATAGTGGAGAAGGGGTTTTATACAGAGAAGGAT
GCCAGCACTCTGATCCGCCAAGTCTTGACGCGCTGTACTATCTCCACAGAATGGGCATC
GTCCACAGAGACCTCAAGCCCGAAAATCTTTGTACTACAGTCAAGATGAGGAGTCCAAA
ATAATGATCAGTGACTTTGGATTGTCAAAAATGGAGGGCAAAGGAGATGTGATGTCCACT
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GCCGTTGACTGCTGGTCCATCGGAGTGATTGCCTACATCTTGCTCTGCGGCTACCCTCCT
TTTTATGATGAAAATGACTCCAAGCTCTTTGAGCAGATCCTCAAGGCGGAATATGAGTTT
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GGTGACACAGCCCTCAACAAAAACATCCACGAGTCCGTCAGCGCCAGATCCGGAAGAAC
TTTGCCAAGAGCAAAATGGAGACAAGCATTTAATGCCACGGCCGTCGTGAGACATATGAGA
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TTGGCCAGCCAAAAAGACTGTCTGGCACCTTCCACGCTCTGTAGTTTCATTTCTTCTTCG
TCGGGGGTCTCAGGAGTTGGAGCCGAGCGGAGACCCAGGCCACCACTGTGACGGCAGTG
CACTCTGGAAGCAAGTGA
  
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153498 unedited
 CAGAATTTTGTAAACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGGCGCGCGG
 CGGCGGCAGGAAGTCTGTGCCCGAGACAGCAGAATAAGAGCCAGGGAGGGACCGCGGCCG
 CGGCGGCGGCGGCGAGAGCGAAAGAGGAACTGCAGAGGAGGAAGCTGCGCCGACGCCCC
 AGCCGCCCGGCATCCCCGCCCTCTGCGCCCGCGCCGCGCCCCCGGCGCCCCCTCCCA
 GCGCGCCCCCGGCGCTCTCCGCGCGCGCTCGTCGGCCATGGCCGGGAGAACGGCGA
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 GACCCTCGGAACCGGGGCTTTTCCGAAGTGTTTTAGCTGAAGAGAAGGCAACTGGCAA
 GCTCTTTGCTGTGAAGTGATCCCTAAGAAGGCGCTGAAGGGCAAGGAAAGCAGCATAGA
 GAATGAGATAGCCGCTCTGAGAAAGATTAAGCATGAAAAATTGTTGCCCTGGAAGACAT
 TTATGAAAGCCCAATCACCTGTACTTGGTCATGCAGCTGGTGTCCGGTGGAGAGCTGTT
 TGACCGGATAGTGGAGAAGGGTTTTATACAGAGAAGGATGCCAGCACTCTGATCCGCCA
 AGTCTTGGACGCGTGTACTATCTCCACAGAATGGGCATCGTCCACAGAGACCTCAAGCC
 CGAAAATCTCTTGTACTACAGTCAAGATGAGGAGTCCAAAATAATGATCAGTGACTNTGG
 ATTGTCAAAAATGAGGGGCAAGGAGATGTGATGTCCACTGCCTGTGGAACNTCCAGCTA
 TGTGCGNCCCTGAGTCTCGCCAGAACCTTACAGCAAAGCCGTACTGCTGGTCCATCG
 NAGTGATGGCTACATCTGCTCTGCGCTACCTCTTNNATGATGAATGACTNCAGCTCTT
 GAGCGATCTCAGGCGAAATGGAGTTGACTCTCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_153498 unedited
 NNAAATACTTGNACGGGCGCAATCTANGATCGGTTTTTTTTTTTTTTTTTTTGGAGACAGA
 TCTTGCTCTGTACCCAGGCTGGGATGCANNGGCACGATCTCAGCTCACTGCAACCTCCG
 TCTCCCGGTTCAAGCAATTCTCTGCCTCAGCCTCCCGAGTAGCCGGGACTACAGGTGT
 GTGCCACCACGCCCGCTAATTTTTTGTATTTTTATTTTACGTGGGGTTTACCATGTTG
 GCCAGGATGGCCTTGATCTCCTGACCTTGATCCGCCGACTTGGCCTCCCAACGTGCT
 GGGATTACAGGCATGAGTCATTGCACCCGGCTGATCCTCTTATTAGAATTTAAAAATA
 CCTTTAAATCTCCTTTGAGGAAAAACAAATCTCTTAAAGGTTAACATAAACTACTATT
 AAAGAGGAAAAGATATAGGTCATGTAACCTAGAGATACAAAGGACATACTTCTTAAAGG
 AAAACAAACCCTAATGCACAATATTTACCAATATTTAAATAATCCAGTTGAAACCTTTT
 TTTTTTGTGTCATTAATGAAAAACACACCATAGACGGTTACCTACACTGAGAAGAGTGGA
 AACGATGGTGTAGGGGAGAGGAATAAGAAGGTCGGTTCAGTTAGAGCTTTGCAAGATT
 GTATATACAGCACCAGATCCTATGAAATCAGCGCCCTCGAGTCAGTACAGTTTGTGAGA
 AATGAACACTTCAGAATTGCAGTAAGAAATATGGCCATAAAAAAACTTCGGTCTTCCAGT
 CCTATGCAGGAAAGGGACCATGCAAGGGGGGTCTGCGCTGAGTGGCTCGCGGCTCTGG
 CAACCCTGGGGCTTCCCTTTCCCAACCCGACCCGGGGGCCAACCTCCAAGGCCAGTC
 ACTTGGTTTCCAGATGCACT

Restriction Sites:

NotI-NotI

ACCN:

NM_153498

Insert Size:

2250 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:

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_153498.2](#), [NP_705718.1](#)

RefSeq Size: 2242 bp

RefSeq ORF: 1158 bp

Locus ID: 57118

UniProt ID: [Q8IU85](#)

Cytogenetics: 10p13

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene is a member of the calcium/calmodulin-dependent protein kinase 1 family, a subfamily of the serine/threonine kinases. The encoded protein is a component of the calcium-regulated calmodulin-dependent protein kinase cascade. It has been associated with multiple processes including regulation of granulocyte function, activation of CREB-dependent gene transcription, aldosterone synthesis, differentiation and activation of neutrophil cells, and apoptosis of erythroleukemia cells. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (2) represents the longer transcript and encodes the longer isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.