

Product datasheet for **RG217129**

CAMK1D (NM_020397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMK1D (NM_020397) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAMK1D
Synonyms:	CaM-K1; CaMKID; CKLiK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217129 representing NM_020397 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGGGAGAACGGCGAGAGCAGCTCCTCCTGAAAAAGCAAGCTGAAGACATCAAGAAGATCTTCG
AGTTCAAAGACCCCTCGGAACCGGGCCCTTTCCGAAGTGGTTTTAGCTGAAGAGAAGGCAACTGGCAA
GCTCTTTGCTGTGAAGTGTATCCCTAAGAAGCGCTGAAGGGCAAGGAAAGCAGCATAGAGAATGAGATA
GCCGTCCTGAGAAAGATTAAGCATGAAAATATTGTTGCCCTGGAAGACATTTATGAAAGCCCAAATCACC
TGTAAGTGGTCAATGCAGCTGGTGTCCGGTGGAGAGCTGTTTGACCGGATAGTGGAGAAGGGTTTTATAC
AGAGAAGGATGCCAGCACTCTGATCCGCAAGTCTTGGAGCCGTGACTATCTCCACAGAATGGGCATC
GTCCACAGAGACCTCAAGCCCGAAAATCTTGTACTACAGTCAAGATGAGGAGTCCAAAATAATGATCA
GTGACTTTGGATTGTCAAAAATGGAGGGCAAAGGAGATGTGATGTCCACTGCCTGTGGAAGTCCAGGCTA
TGTGCTCCTGAAGTCTCGCCAGAAACCTTACAGCAAAGCCGTTGACTGCTGGTCCATCGGAGTGATT
GCCTACATCTTGCTCTGCGGCTACCTCCTTTTATGATGAAAATGACTCCAAGCTCTTTGAGCAGATCC
TCAAGCGGAATATGAGTTTACTCTCCCTACTGGGATGACATCTCCGACTCTGAAAAGACTTCATTTCG
GAACCTGATGGAGAAGGACCCGAATAAAAAGATACACGTGTGAGCAGGCAGCTCGGCACCCATGGATCGT
GGTGACACAGCCCTCAACAAAAACATCCACGAGTCCGTCAGCCAGATCCGAAAAAATTTGCCAAGA
GCAAAATGGAGACAAGCATTTAATGCCACGGCCGTCGTCAGACATATGAGAAAACTACACCTCGGCAGCAG
CCTGGACAGTTCAAATGCAAGTGTTCGAGCAGCCTCAGTTTGGCCAGCCAAAAAGACTGTGCGTATGTA
GCAAAACCGAATCCCTCAGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217129 representing NM_020397
Red=Cloning site Green=Tags(s)

MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVVLAEKATGKLFVAVKCIKKKALGGKESSIENEI
 AVLKRIKHENIVALEDIYESPNHLYLVMQLVSGGELFDRIVEKGFYTEKDASTLIRQVLDAVYYLHRMGI
 VHRDLKPENLLYYSQDEESKIMISDFGLSKMEGKGDVMSTACGTPGYVAPEVLAQKPYSAVDCWSIGVI
 AYILLCGYPPFYDENDSKLFEQILKAEYEFDSPYWDDISDSAKDFIRNLMKDPNKRYTCEQAARHPWIA
 GDTALNKNIHESVSAQIRKNFAKSKWRQAFNATAVVRHMRKHLHGLSSLDSSNASVSSSLASQKDCAYV
 AKPESLS

TRTRPLE - GFP Tag - V

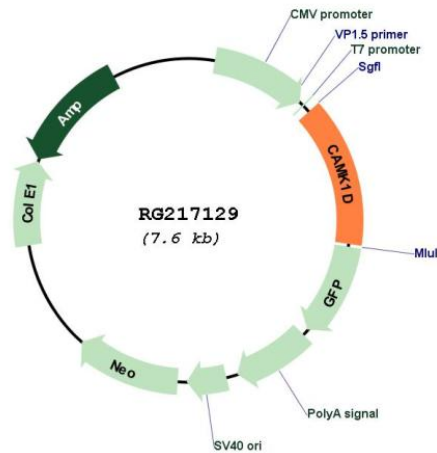
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_020397

ORF Size:	1071 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_020397.4
RefSeq Size:	1727 bp
RefSeq ORF:	1074 bp
Locus ID:	57118
UniProt ID:	Q8IU85
Cytogenetics:	10p13
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]