

Product datasheet for **MG222155**

Camk1d (NM_177343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Camk1d (NM_177343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Camk1d
Synonyms:	A630059D12Rik; CaMKIdelta; CKLiK; E030025C11Rik; mCKLiK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222155 representing NM_177343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGGGAGAACGGCGAGAGCAGCTCCTCCTGGAAAAAGCAAGCAGAAGACATTAAGAAGATCTTCG
AGTTCAAGGAGACCCTCGGAACCTGGGCCCTTTCTGAAGTTGTTTTAGCCGAGGAGAAAGCTACTGGGAA
GCTCTTCGCAGTGAAGTGCATCCCGAAGAAGCGCTGAAGGGCAAGGAGAGCAGCATCGAGAACGAGATT
GCCGTGCTTAGAAAGATTAAGCATGAAAACATTGTTGCCTTGAAGATATTTATGAAAGCCCAAATCACC
TCTACCTGGTCATGCAACTTGTGTCTGGTGGAGAACTCTTCGATCGGATAGTGGAGAAGGGGTTTTACAC
AGAGAAAGATGCCAGCACTCTCATCCGCCAGGTCCTGGATGCCGTATACTATCTCCACAGAATGGGCATT
GTCCACAGGGACCTCAAGCCGGAGAATCTTTATACTACAGTCAAGACGAGGAGTCCAAAATAATGATCA
GTGACTTTGGCTTGTGCGAAAATGGAGGGCAAAGGAGATGTGATGTCCACGGCCTGCGGGACCCAGGCTA
TGTTGCTCCGGAAGTTCTCGCCAGAAACCGTACAGCAAAGCTGTGGACTGCTGGTCCATCGGGGTGATC
GCCTATATCTTGCTCTGTGGTTACCCTCCTTTTATGATGAAAATGACTCGAAGCTGTTTGAACAGATCC
TCAAGGCAGAATATGAGTTTGATTCCCCCTACTGGGATGACATCTCCGACTCTGCCAAAGACTTCATTG
GAATCTGATGGAGAAAGACCCAAATAAAAAGATAACACTTGTGAGCAGGCAGCTCGACACCCATGGATTGCT
GGTGACACAGCCCTTAGCAAAAACATTCACGAATCTGTGAGTCCGAGATCCGGAAGAATTTTGCAAGA
GCAAAATGGAGACAAGCGTTTAAACGCCACGGCAGTCGTGAGACATATGCGGAGGCTCCAGCTTGGCAGCAG
CCTGGACAGTTCAAATGCAAGTGTCTCAAGCAACCTCAGTTTGGCCAGCCAAAAGATTGTCTGGCACCT
TCCACGCTCTGTAGTTTCTTTCTTCTCGTGGGGTTCGAGGAGTCCGAGCTGAGAGGAGACCCAGGC
CCACCACTGTGACAACAGGGCACACTGGAAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222155 representing NM_177343
 Red=Cloning site Green=Tags(s)

MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVLAEEKATGKLFVAVKCIKKALKGKESSIENEI
 AVLKRIKHENIVALEDIYESPNHLYLVMQLVSGGELFDRIVEKGFYTEKDASTLIRQVLDAVYYLHRMGI
 VHRDLKPENLLYYSQDEESKIMISDFGLSKMEGKGDVMSTACGTPGYVAPEVLAQKPYSAVDCWSIGVI
 AYILLCGYPPFYDENDSKLFEQILKAEYEFDSPYWDDISDSAKDFIRNLMKDPNKRYTCEQAARHPWIA
 GDTALSKNIHESVAQIRKNFAKSKWRQAFNATAVVRHMRRLLQGLSSLDSSNASVSSNLSLASQKDCCLAP
 STLCSFLSSSSGVAGVGAERRRPRPTTVTTGHTGSK

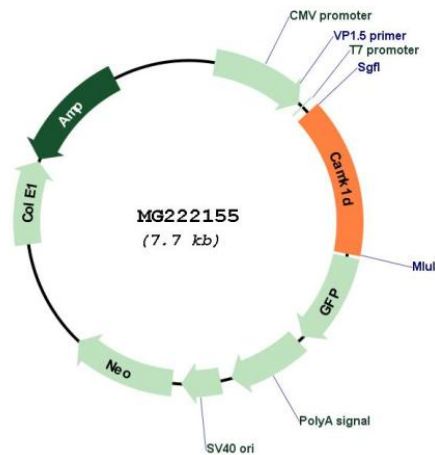
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177343

ORF Size:	1155 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_177343.4 , NP_796317.2
RefSeq Size:	7128 bp
RefSeq ORF:	1158 bp
Locus ID:	227541
UniProt ID:	Q8BW96
Cytogenetics:	2 A1
Gene Summary:	Calcium/calmodulin-dependent protein kinase that operates in the calcium-triggered CaMKK-CaMK1 signaling cascade and, upon calcium influx, activates CREB-dependent gene transcription, regulates calcium-mediated granulocyte function and respiratory burst and promotes basal dendritic growth of hippocampal neurons. In neutrophil cells, required for cytokine-induced proliferative responses and activation of the respiratory burst. Activates the transcription factor CREB1 in hippocampal neuron nuclei. May play a role in apoptosis of erythroleukemia cells. In vitro, phosphorylates transcription factor CREM isoform Beta (By similarity). Isoform 1 but not isoform 2 activates CREB1.[UniProtKB/Swiss-Prot Function]