

Product datasheet for RC220095

CAMK2N1 (NM_018584) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	CAMK2N1 (NM_018584) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAMK2N1
Synonyms:	PRO1489
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC220095 representing NM_018584 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCGGAGGTGCTGCCCTACGGCGACGAGAAGCTGAGCCCCTACGGCGACGGCGGCGACGTGGGCCAGA TCTTCTCCTGCCGCCTGCAGGACACCAACAACTTCTTCGGCGCCCGGGCAGAACAAGCGGCCGCCCAAGCT GGGCCAGATCGGCCGGAGCAAGCGGGTTGTTATTGAAGATGATAGGATTGATGACGTGCTGAAAAATATG ACCGACAAGGCACCTCCTGGTGTC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC220095 representing NM_018584 <mark>Red</mark> =Cloning site Green=Tags(s)
	MSEVLPYGDEKLSPYGDGGDVGQIFSCRLQDTNNFFGAGQNKRPPKLGQIGRSKRVVIEDDRIDDVLKNM TDKAPPGV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6487_c05.zip
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



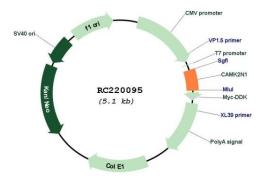
* The last codon before the Stop codon of the ORF

ACCN:	NM_018584
ORF Size:	234 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 018584.6</u>
RefSeq Size:	860 bp
RefSeq ORF:	237 bp
Locus ID:	55450

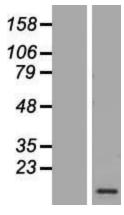
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	CAMK2N1 (NM_018584) Human Tagged ORF Clone – RC220095
UniProt ID:	<u>Q7Z7J9</u>
Cytogenetics:	1p36.12
Protein Families	: Druggable Genome
MW:	8.4 kDa
Gene Summary:	Potent and specific inhibitor of CaM-kinase II (CAMK2).[UniProtKB/Swiss-Prot Function]
Cytogenetics: Protein Families MW:	1p36.12 : Druggable Genome 8.4 kDa

Product images:



Circular map for RC220095



Western blot validation of overexpression lysate (Cat# [LY412994]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220095 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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