

Product datasheet for **RC206813**

CAMKIV (CAMK4) (NM_001744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMKIV (CAMK4) (NM_001744) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAMKIV
Synonyms:	caMK; CaMK-GR; CaMK IV; CaMKIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206813 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCAAAGTCACGGTGCCTCCTGCTCCGCCTCGTCTCGTCTTCGGTCACCGCCAGTGCGGCCCGG
 GGACCGGAGCCTCGTCCCGATTACTGGATCGACGGCTCCAACAGGGATGCGCTGAGCGATTTCTCGA
 GGTGGAGTCGGAGCTGGGACGGGTGCTACATCCATTGTGTACAGATGCAAACAGAGGGGACCCAGAAG
 CCTTATGCTCTCAAAGTGTAAAGAAAACAGTGGACAAAAAATCGTAAGAACTGAGATAGGAGTCTTTC
 TTCGCCTCTCACATCCAAACATTATAAACTTAAAGAGATATTTGAAACCCCTACAGAAATCAGTCTGGT
 CCTAGAACTCGTCACAGGAGGAGAACTGTTTATAGGATTGTGAAAAGGGATATTACAGTGAGCGAGAT
 GCTGCAGATGCCGTTAAACAAATCCTGGAGGCAGTTGCTTATCTACATGAAAATGGGATTGTCCATCGT
 ATCTCAAACCAGAGAATCTTCTTATGCAACTCCAGCCCAGATGCACCACTCAAATCGCTGATTTTGG
 ACTCTCTAAAATTGTGGAACATCAAGTGTCTCATGAAGACAGTATGTGGAACCCAGGGTACTGCGCACCT
 GAAATTCTTAGAGTTGTGCCTATGGACCTGAGGTGGACATGTGGTCTGTAGGAATAATCACCTACATCT
 TACTTTGTGGATTTGAACCATTCTATGATGAAAGAGGCGATCAGTTCATGTTTCAGGAGAATTCTGAATTG
 TGAATATTACTTTATCTCCCCTGGTGGGATGAAGTATCTCTAAATGCCAAGGACTTGGTCAGAAAATTA
 ATTGTTTTGGATCCAAAGAAACGGCTGACTACATTTCAAGCTCTCCAGCATCCGTGGGTACAGGTAAG
 CAGCAATTTTGTACACATGGATACCGCTCAAAGAAGCTCCAAGAATTCATGCCCGGCGTAAGCTTAA
 GGCAGCGGTGAAGGCTGTGGTGGCCTCTCCCCTGGGAAGTCCAGCAGCAGCCATGGCAGCATCCAG
 GAGAGCCACAAGGCTAGCCGAGACCTTCTCCAATCCAAGATGGCAACGAGGACATGAAAGCTATTCCAG
 AAGGAGAGAAAAATCAAGGCGATGGGGCCCAAGCCGAGTTAAGGGGGCACAGGCTGAGCTGATGAAGGT
 GCAAGCCTTAGAGAAAGTTAAAGGTGCAGATATAAATGCTGAAGAGGCCCCCAAAATGGTGCCCAAGGCA
 GTGGAGGATGGGATAAAGGTGGCTGACCTGGAAGTGAAGGAGGGCCTAGCAGAGGAGAAGCTGAAGACTG
 TGGAGGAGGCAGCAGCTCCAGAGAAGGCAAGGAAGCTCTGCTGTGGTTTTGAAGTTCACAGCAAGA
 TGTGATCTGCCAGAGTAC

**ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC206813 protein sequence
 Red=Cloning site Green=Tags(s)

MLKVTVPSCSASSCSVTASAAPGTASLVPDYWIDGSNRDALSDFFEVESELGRGATSIVYRCKQKGTQK
 PYALKVLKKTVDKKIVRTEIGVLLRLSHPNIIKLKEIFETPTEISLVLELVTGGELFDRIVEKGYYSERD
 AADAVKQILEAVAYLHENGIVHRDLKPENLLYATPAPDAPLKIADFGLSKIVEHQVLMKTVCGTPGYCAP
 EILRGAYGPEVDMWSVGIITYILLCGFEPFYDERGDQFMFRRILNCEYYFISPPWDEVSLNAKDLVRKL
 IVLDPKKRLTTFQALQHPWVTGKAANFVHMDTAQKQLQEFNARRKLKAAVKAVVASSRSLGSASSSHGSIQ
 ESHKASRDPSPIQDGNEDMKAIPGEKEIQGDGAQAAVKGAQAEMLKVQALEKVKGADINAEAEAPKMVPKA
 VEDGIKVADLEEEGLAEELKTVEEAAAPREGQGSsavGFVPPQDVIPEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6016_f04.zip

Restriction Sites:

Sgfl-Mlul

Domains: pkinase, TyrKc, S_TKc

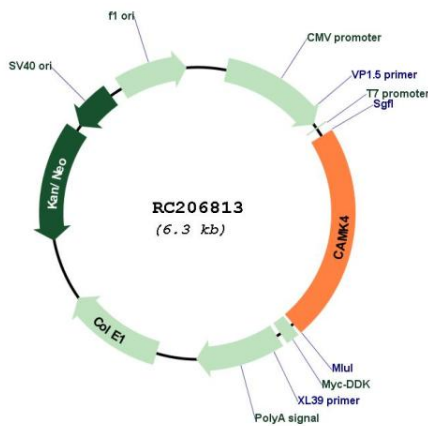
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Calcium signaling pathway, Long-term potentiation, Neurotrophin signaling pathway

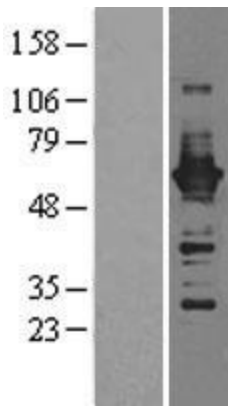
MW: 51.9 kDa

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. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. [provided by RefSeq, Jul 2008]

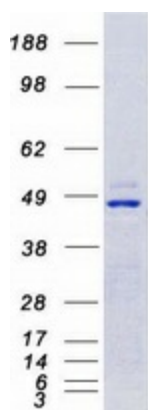
Product images:



Circular map for RC206813



Western blot validation of overexpression lysate (Cat# [LY400661]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206813 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CAMK4 protein (Cat# [TP306813]). The protein was produced from HEK293T cells transfected with CAMK4 cDNA clone (Cat# RC206813) using MegaTran 2.0 (Cat# [TT210002]).