

Product datasheet for **RC208789**

CKII alpha (CSNK2A1) (NM_177560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKII alpha (CSNK2A1) (NM_177560) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSNK2A1
Synonyms:	CK2A1; Cka1; Cka2; CKII; OCNDS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC208789 representing NM_177560 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGGGACCCGTGCCAAGCAGGGCCAGAGTTTACACAGATGTTAATACACACAGACCTCGAGAATACT
GGGATTACGAGTCACATGTGGTGAATGGGAAATCAAGATGACTACCAGCTGGTTCGAAAATTAGGCC
AGGTAAATACAGTGAAGTATTTGAAGCCATCAACATCACAATAATGAAAAAGTTGTTGTTAAAATTCTC
AAGCCAGTAAAAAGAAGAAAATTAAGCGTGAAATAAAGATTTTGGAGAAATTTGAGAGGAGGTCCCAACA
TCATCACACTGGCAGACATTGTAAGACCCCTGTGTCACGAACCCCGCCTTGGTTTTGAAACCGTAAA
CAACACAGACTTCAAGCAATTGTACCAGACGTTAACAGACTATGATATTCGATTTTACATGTATGAGATT
CTGAAGGCCCTGGATTATTGTACAGCATGGGAATTATGCACAGAGATGTCAAGCCCCATAATGTCATGA
TTGATCATGAGCACAGAAAGCTACGACTAATAGACTGGGTTTGGCTGAGTTTTATCATCCTGGCCAAGA
ATATAATGTCCGAGTTGCTTCCCGATACTTCAAAGGTCCTGAGCTACTTGTAGACTATCAGATGTACGAT
TATAGTTTGGATATGTGGAGTTTGGGTTGTATGCTGGCAAGTATGATCTTTCGGAAGGAGCCATTTTCC
ATGGACATGACAATTATGATCAGTTGGTGAGGATAGCCAAGTTCTGGGACAGAAGATTTATATGACTA
TATTGACAAATACAACATTGAATTAGATCCACGTTTCAATGATATCTTGGGCAGACACTCTCGAAAGCGA
TGGGAACGCTTTGTCCACAGTGAATCAGCACCTTGTACGCCCTGAGGCCTTGGATTTCTGGACAAAAC
TGCTGCGATATGACCACCAGTCACGGCTTACTGCAAGAGAGGCAATGGAGCACCCCTATTTCTACACTGT
TGTGAAGGACCAGGCTCGAATGGGTTTCTAGCATGCCAGGGGGCAGTACGCCCGTCAGCAGCGCCAAT
ATGATGTCAGGGATTTCTTCAGTGCCAACCCCTTACCCTTGGACCTCTGGCAGGCTCACCAGTGATTG
CTGCTGCCAACCCCTTGGGATGCCTGTCCAGCTGCCGCTGGCGCTCAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208789 representing NM_177560
 Red=Cloning site Green=Tags(s)

MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGKGYSEVFEAINITNNEKVVVKIL
 KPVKIKKREIKILENLRGGPNIITLADIVKDPVSRTPALVFEHVNNTDFKQLYQTLTDYDIRFYMYE
 LKALDYCHSMGIMHRDVKPHNVIMIDHEHRKLRLLIDWGLAEFYHPGQYENVRVASRYFKGPPELLVDYQMYD
 YSLDMWSLGCMLASMIFRKEPFFHGHNDYDQLVRIAKVLGTEDLYDYIDKYNIELDPRFNDILGRHSRKR
 WERFVHSENLVSPALDFLDKLLRYDHQSRLLTAREAMEHPYFYTVVKDQARMGSSSMPGGSTPVSSAN
 MMSGISSVPTPSPLGPLAGSPVIAAANPLGMPVPAAGAQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

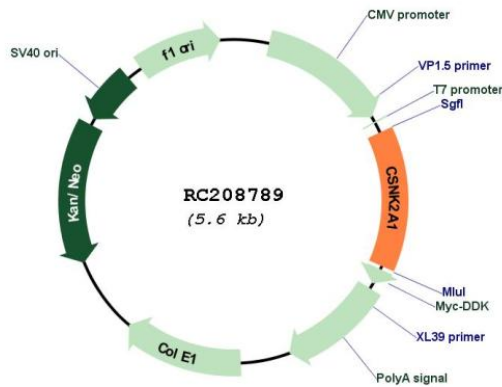
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_177560

ORF Size:	1173 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_177560.1 , NM_177560.2 , NP_808228.1
RefSeq Size:	2522 bp
RefSeq ORF:	768 bp
Locus ID:	1457
UniProt ID:	P68400
Cytogenetics:	20p13
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Adherens junction, Tight junction, Wnt signaling pathway
MW:	45.1 kDa

Gene Summary:

Casein kinase II is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythm. The kinase exists as a tetramer and is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. The protein encoded by this gene represents the alpha subunit. Multiple transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Apr 2018]