

Product datasheet for **SC108394**

CKII alpha (CSNK2A1) (NM_177560) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CKII alpha (CSNK2A1) (NM_177560) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK2A1
Synonyms:	CK2A1; Cka1; Cka2; CKII; OCNDS
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_177560, the custom clone sequence may differ by one or more nucleotides

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ATGTATGAGATTCTGAAGGCCCTGGATTATTGTCACAGCATGGGAATTATGCACAGAGATGTCAAGCCCC  
ATAATGTCATGATTGATCATGAGCACAGAAAGCTACGACTAATAGACTGGGGTTTGGCTGAGTTTTATCA  
TCCTGGCCAAGAATAATGTCCGAGTTGCTTCCCGATACTTCAAAGGCCTGAGCTACTTGTAGACTAT  
CAGATGTACGATTATAGTTTGGATATGTGGAGTTTGGGTGTATGCTGGCAAGTATGATCTTTCGGAAGG  
AGCCATTTTTCCATGGACATGACAATTATGATCAGTTGGTGAGGATAGCCAAGGTTCTGGGGACAGAAGA  
TTTATATGACTATATTGACAAATACAACATTGAATTAGATCCACGTTTCAATGATATCTTGGGCAGACAC  
TCTCGAAAGCGATGGGAACGCTTGTCCACAGTAAAAATCAGCACCTTGTGAGCCCTGAGGCCTTGGATT  
TCCTGGACAAACTGCTGCGATATGACCACCAGTCACGGCTTACTGCAAGAGAGGCAATGGAGCACCCCTA  
TTTCTACACTGTTGTGAAGGACCAGGCTCGAATGGGTTTCATCTAGCATGCCAGGGGGCAGTACGCCCGTC  
AGCAGCGCCAATATGATGTCAGGGATTTCTTCAAGTCCCAACCCCTTCAACCCCTTGGACCTTGGCAGGCT  
CACCAGTGATTGCTGCTGCCAACCCCTTGGGATGCCTGTTCCAGCTGCCGCTGGCGCTCAGCAGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177560 unedited AACCGTAATTACCCCGCCGTTGACGCAAAGGCGGTAGGCGGTACGGTGGGAGGTCT ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG CGGCCCGAATTCGGCAGGAGGTGATATCGATTTTACATGTATGAGATTCTGAAGGCC TGGATTATTGTCACAGCATGGGAATTATGCACAGAGATGTCAAGCCCCATAATGTCATGA TTGATCATGAGCACAGAAAGCTACGACTAATAGACTGGGGTTGGCTGAGTTTTATCATC CTGGCCAAGAATAAATGTCCGAGTTGCTTCCCGATACTTCAAAGGTCTGAGCTACTTG TAGACTATCAGATGTACGATTATAGTTTGGATATGTGGAGTTTGGTTGTATGCTGGCAA GTATGATCTTTCCGAAGGAGCCATTTTTCCATGGACATGACAATTATGATCAGTTGGTGA GGATAGCCAAGGTTCTGGGGACAGAAGATTTATATGACTATATTGACAAATACAACATTG AATTAGATCCACGTTTCAATGATATCTTGGCAGACACTCTCGAAAGCGATGGGAACGCT TTGTCCACAGTAAAAATCAGCACCTTGTGAGCCCTGAGGCCTGGATTTCCTGGACAAAC TGCTGCGATATGACCACCAGTCACGGCTTACTGCAAGAGAGGCAATGGAGCACCCCTATT TCTACACTGTTGTGAAGGACCAGGCTCGAATGGGTTTCATCTAGCATGCCTAGGGGCGAGT ACGCCCGTCAGCAGCGCCAATATGATGTCAGGGATTTCTTCAGTGCCAACCCCTTACCT TTGGACCTCTGGCAGCTACCCAGTGATTGCTGCTGCCAACCCCTTNGATGCCTGATCCA C
Restriction Sites:	NotI-NotI
ACCN:	NM_177560
Insert Size:	3900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_177560.2</u> , <u>NP_808228.1</u>
RefSeq Size:	2522 bp
RefSeq ORF:	768 bp
Locus ID:	1457
UniProt ID:	<u>P68400</u>
Cytogenetics:	20p13
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Adherens junction, Tight junction, Wnt signaling pathway

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]

Transcript Variant: This variant (3) lacks an alternate exon in the 5' UTR as well as the first coding exon compared to variant 1, resulting in an isoform (b) which is shorter at the N-terminus compared to isoform a.