

## Product datasheet for SC109127

### CKII alpha (CSNK2A1) (NM\_001895) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CKII alpha (CSNK2A1) (NM_001895) Human Untagged Clone
Tag:	Tag Free
Symbol:	CKII alpha
Synonyms:	CK2A1; Cka1; Cka2; CKII; OCNDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001895 edited  
 ATGTCGGGACCCGTGCCAAGCAGGGCCAGAGTTTACACAGATGTTAATACACACAGACCT  
 CGAGAATACTGGGATTACGAGTCACATGTGGTGGAAATGGGGAAAATCAAGATGACTACCAG  
 CTGGTTTCGAAAATTAGGCCGAGGTAAATACAGTGAAGTATTTGAAGCCATCAACATCACA  
 AATAATGAAAAAGTTGTTGTTAAAAATTCTCAAGCCAGTAAAAAAGAGAAAATTAAGCGT  
 GAAATAAAGATTTTGGAGAATTTGAGAGGAGGTCCCAACATCATCACTGGCAGACATT  
 GTAAAAGACCCTGTGTCACGAACCCCGCCTTGGTTTTTGAACACGTAAACAACACAGAC  
 TTCAAGCAATTGTACCAGACGTTAACAGACTATGATATTCGATTTTACATGTATGAGATT  
 CTGAAGGCCCTGGATTATTGTACAGCATGGGAATTATGCACAGAGATGCAAGCCCAT  
 AATGTCATGATTGATCATGAGCACAGAAAGCTACGACTAATAGACTGGGGTTTGGCTGAG  
 TTTTATCATCCTGGCCAAGAATATAATGTCCGAGTTGCTTCCCGATACTCAAAGGTCCT  
 GAGCTACTTGTAGACTATCAGATGTACGATTATAGTTTGGATATGTGGAGTTTGGTTGT  
 ATGCTGGCAAGTATGATCTTTCGGAAGGAGCCATTTTTCCATGGACATGACAATTATGAT  
 CAGTTGGTGGAGTAGCCAAGGTTCTGGGGACAGAAGATTTATATGACTATATTGACAAA  
 TACAACATTGAATTAGATCCACGTTTCAATGATATCTTGGGCAGACACTCTCGAAAGCGA  
 TGGGAACGCTTTGTCCACAGTAAAAATCAGCACCTTGTACGCCCTGAGGCCTTGGATTTCT  
 CTGGACAACTGCTGCGATATGACCACCAGTCACGGCTTACTGCAAGAGAGGCAATGGAG  
 CACCCCTATTTTACTACTGTTGTGAAGGACCAGGCTCGAATGGGTTTCTTAGTCCCAACC  
 GGGGGCAGTACGCCCGTACGAGCGCAATATGATGTCAGGGATTTCTTTAGTCCCAACC  
 CCTTACCCCTTGGACCCTGGCAGGCTACCAAGTATTGCTGCTGCCAACCCCTTGGG  
 ATGCCTGTTCCAGCTGCCGCTGGCGCTCAGCAGTAA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001895 unedited</p> <pre>TTTTTGTATACGACTCACTATAGGCGGCNCGCAATCGGCACGAGGGGAGAGCGGCCGCC GCCGCTGCCGCTTCCACCACAGTTTGAAGAAAACAGGTCTGAAACAAGGTCTTACCCCA GCTGCTTCTGAACACAGTACTGCCAGATCTCCAAACATCAAGTCCAGCTTTGTCGGCCA ACCTGTCTGACATGTCGGGACCCGTGCCAAGCAGGGCCAGAGTTACACAGATGTTAATA CACACAGACCTCGAGAATACTGGGATTACGAGTCACATGTGGTGGAAATGGGAAAATCAAG ATGACTACCAGCTGGTTTCGAAAATTAGGCCGAGGTAATACAGTGAAGTATTTGAAGCCA TCAACATCACAATAATGAAAAAGTTGTTGTTAAAATTCTCAAGCCAGTAAAAAAGAAGA AAATTAAGCGTGAAATAAAGATTTTGGAGAATTTGAGAGGAGGTCCCAACATCATCACAC TGGCAGACATTGTAAGACCTGTGTCACGAACCCCGCCTTGGTTTTTGAACACGTAA ACAACACAGACTTCAAGCAATTGTACCAGACGTTAACAGACTATGATATTCGATTTTACA TGTATGAGATTCTGAAGGCCCTGGATTATTGTCACAGCATGGGAATTATGCACAGAGATG TCAAGCCCCATAATGTCATGATTGATCATGAGCACAGAAAGCTACGACTAATAGACTGGG GTTTGGCTGANGTTTATCATCTGGCCAAGAATAATGTCGAGTTGCTCCCGATACT TCAAAGGTCCTGAGCTACTTGTAGACTATCAGATGTACGATTATAGTTGGNATATGTGGN AGTTGGGGTGTATGCTGGCAAGTATGATCTTTNGAAGAGCCATTTTCCATGGCATGACA NTATGATCAGNTGGTGAGGATAGCCAGGNTCTGGNGACAGAGATTATATGACTATATGAC AATACACATTGAATAGATCCAGCTTCATGA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001895 unedited</p> <pre>GGGCCGCAATCTAGAGTCGAGTT AAATAAAACCAACGTTTATTTACACAAAAAATCCAACACTGGATCTTTCACATATGA AGGACAAAAGTTTTATATATATACCCACAGCAAGGGGGGGGGGGCTGTAACAAAAAGTT TATAGTTTTCCCACAATTACAGGTCTACATTTTCAAGTTCAATGGAAATAGGGGCTCTGC TCCTACCTCTCAAGATACATTTACAAAACCTGAGGAGCAGGTCTTCTCACTGGATGGCATG TGAGGGAAGGGGACGGTTCGGAGGAATAAAAGGTAAGGCTTAAATGGAAGTCAGTGTG GCCACATCTCCATTAGCTCTAGCATGAAACCTGTACAAACAATGTTTGTCTTTTGTGTA AAAAGCAGTAAGTTATGCCCACTAACTAAATGAATTCAAAATGGCCAAGACAAAGAAAAC TAAGAAAGATTTTGCCTTCCCTCCTACCAGCTATGGAGCACAGCATGTTGGGAGATGA ACAGGGAAAAGACCAAGGTAAGGAGCCTGGGAGGGAAGGTATCAACATTTTAAACTGAAC TAAAAATAAAAGTATAAATGAGTTGGATTTAGGGTTAGATCAGTAAGACATGATCTTAC TGAACAGAAGTTTTTAGTATCTGTCTGCATTTTGGGTAGATTTTCAACATCTCGATGTAA CTAAGACACACTTTCCACAGAGCCACTAGGATAACCCACCTGAGCGCTTATGGAGTAA GTGATGTAAGCGACCANNCAGCAGTCCACTGCTCCTATAGATGGGGNCCNCCCTTCTTN TTACCTTNTCTTNNNTNCGNGCNCCTGAGAGCTACTTNTTTGAATCTCTGGAGAGA GCACGAGAACCACCCCTAAGGTGGGACGGGAGAACATGTGGATGGGAAAAAACCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001895
<b>Insert Size:</b>	2680 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001895.3</a> , <a href="#">NP_001886.1</a>
<b>RefSeq Size:</b>	2732 bp
<b>RefSeq ORF:</b>	1176 bp
<b>Locus ID:</b>	1457
<b>UniProt ID:</b>	<a href="#">P68400</a>
<b>Cytogenetics:</b>	20p13
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
<b>Protein Pathways:</b>	Adherens junction, Tight junction, Wnt signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 4 and 5 encode the same protein.</p>