

Product datasheet for **SC118969**

CSNK2A2 (NM_001896) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK2A2 (NM_001896) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK2A2
Synonyms:	CK2A2; CK2alpha'; CSNK2A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001896 edited
ATGCCCGCCCGCCGCGGGCAGCAGGGCCCGGTCTACGCCGAGGTGAACAGTCTGAGG
AGCCGCGAGTACTGGGACTACGAGGCTCACGTCCCGAGCTGGGGTAATCAAGATGATTAC
CAACTGGTTCGAAAACCTGGTCGGGAAAATATAGTGAAGTATTTGAGGCCATTAATATC
ACCAACAATGAGAGAGTGGTTGTAAAAATCCTGAAGCCAGTGAAGAAAAAGAGATAAAA
CGAGAGGTTAAGATTCTGGAGAACCCTCGTGGTGAACAAATATCATTAAAGCTGATTGAC
ACTGTAAAGGACCCCGTGTCAAAGACACCAGCTTTGGTATTTGAATATATCAATAATACA
GATTTTAAAGCACTCTACCAGATCCTGACAGACTTTGATATCCGGTTTTATGTATGAA
CTACTTAAAGCTCTGGATTACTGCCACAGCAAGGGAATCATGCACAGGGATGTGAAACCT
CACAATGTCATGATAGATCACCAACAGAAAAAGCTGCGACTGATAGATTGGGGTCTGGCA
GAATTCTATCATCCTGCTCAGGAGTACAATGTTCTGTAGCCTCAAGGTACTTCAAGGGA
CCAGAGCTCCTCGTGGACTATCAGATGTATGATTATAGCTTGGACATGTGGAGTTTGGGC
TGTATGTTAGCAAGCATGATCTTTCGAAGGGAACCATTCTCCATGGACAGGACAACAT
GACCAGCTTGTTGCGATTGCCAAGGTTCTGGGTACAGAAGAACTGTATGGGTATCTGAAG
AAGTATCATAGACCTAGATCCACACTTCAACGATATCCTGGGACAACATTCACGGAAA
CGCTGGGAAAACCTTATCCATAGTGAGAACAGACACCTTGTGAGCCCTGAGGCCCTAGAT
CTTCTGGACAACTTCTGCGATACGACCATCAACAGAGACTGACTGCCAAAGAGGCCATG
GAGCACCCATACTTCTACCCTGTGGTGAAGGAGCAGTCCCAGCCTTGTGCAGACAATGCT
GTGCTTTCCAGTGGTCTCACGGCAGCACGATGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001896 unedited
 GGGGGGGCAACTTTTCTTCTCCCCNNGGTCAGAATTGTAAACGACTACTATAGGCGG
 CCGCGAATCGGCACCAGCCCGCGCCCCAGCCCGCCCGCCCGGGCCCGGCTGGCG
 CGGCCGCCCGCCCGCGCTCCTCCTCCTCCTCCAGCGCCCGGGCCCGCTGCCTC
 CTCGCCCCGACGCCCCGCTCCCCCGCGCGCCCGCCGCCACCCTCTGCGCCCCGCG
 CGCCCCCGTCCCGCCGCCATGCCCGCCCGCGCGGGCAGCAGGGCCCGGGTCTAC
 GCGAGGTGAACAGTCTGAGGAGCCGAGTACTGGGACTACGAGGCTCACGTCCCGAGC
 TGGGGTAATCAAGATGATTACCAACTGGTTCGAAAACCTGGTTCGGGAAAATATAGTGAA
 GTATTTGAGGCCATTAATATCACCAACAATGAGAGAGTGGTTGTAAAAATCCTGAAGCCA
 GTGAAGAAAAAGAAGATAAACGAGAGGTTAAGATTCTGGAGAACCTTCGTGGTGAACA
 AATATCATTAAAGCTGATTGACACTGTAAAGACCCCGTGTCAAAGACACCAGCTNTGGTA
 TTTGAATATATCAATAATACAGATTNTAAGCAACTCTACCAGATCCTGACAGACTNTGAT
 ATCCGGNTNTATATGTATGAACTACTTAAAGCTCTGGATTACTGCCACAGCCAGGGAATC
 ATGCACAGGGATGTAAACCTCANCATGTCATGATAGATCACAACAGAAAAGCTGCGACT
 GAAGATTGGGGTCTGGCAGAAATCTATCATCCTGCTCCAGAGTACAATGTTTCGTGTAGCC
 CTCAGGTACCTCAGGGGACAGNAGCTCCTCGTACTATCAGAAGNATGAATATAGCCTGA
 ACTGTGGGAGTTTGGGCTGTATGTTACCAAGCATGATCTTTCGAGGGACCATTNCTNCTG
 GCCAGNACACTATGACAGCTGTTCCATTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001896 unedited
 NCCGTCTTACATNACCGCGCCGAATCTANGATCGTTTTTTTTTTTTTTTTTTTTTTTCTTT
 TAAAACCTTTTATTCAATAATATATACTCTTTAAAATAATAATATGTAAGTGGCCGCAT
 GCCACATACTGCGCCCGTCCCCCACTGTGGAGTCTGTGGTCAGCTAGTTAGCGTGGTTT
 GCTGGA AAAACAGCGGCCACGGGACGAGTTGAGGGGCTCGGGGAGCAACAGTAACCAAC
 AACATTCTGCATACCCCTTACATTCCCCATGCTTTCTGGGTCCGGGAAGAAGTCAACAGGA
 AGCCAAAGGCAAGTGAGCCTTTTACATTCGGAAGTGAGGTTTGATATACGGTGGTGGGCT
 GCCCTTCGCTTGGTCTAGTTCTGTGCTCGCCAAACCTGCCACCGTTTTGTGTCTGCTCACG
 GAACGTGATCTCTATACGCGTTAAGACGTTTGATTTGGTCTTGTCTGCTTATGGAA
 AAGTGGGAGAACCACAACAGACCCGTCGCTTTCCAGTCTTCATCGTGTGCCGTGAGACC
 ACTGGAAGCACAGCATTGTCTGCACAAGGCTGGGACTGCTCCTTACCACAGGGTAGAA
 GTATGGGTGCTCCATGGCCTCTTTGGCAGTCAGTCTCTGTTGATGGTTCGATCGCANAAG
 TTTGTCCACGATATCTAGGGCCTCAGGGCTGACAAAGTGTCTGTTCTCACTATGGATAAA
 AGTTTCCAGCGTTTTCCGTGAATGTTTGTCCCAAGGATATCGTTGGAAGTGGGGATCT
 AGGTCTATGTGGATACCTCTTCAAATACCCTACAAGTTCTCTTGTTCACAGAACCCTTG
 GCATTGCCAACCAAGCTGGTCATAGTTGTCCTGTCCCTGGGAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_001896

Insert Size:

1700 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:	NM_001896.2 , NP_001887.1
RefSeq Size:	1674 bp
RefSeq ORF:	1053 bp
Locus ID:	1459
UniProt ID:	P19784
Cytogenetics:	16q21
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Adherens junction, Tight junction, Wnt signaling pathway
Gene Summary:	<p>This gene encodes the alpha', or alpha 2, catalytic subunit of the protein kinase enzyme, casein kinase 2 (CK2). Casein kinase 2 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 rhythms. This heterotetrameric kinase includes two catalytic subunits, either alpha or alpha', and two regulatory beta subunits. The closely related gene paralog encoding the alpha, or alpha 1 subunit (CSNK2A1, Gene ID: 1457) is found on chromosome 20. An intronic variant in this gene (alpha 2) may be associated with leukocyte telomere length in a South Asian population. A related transcribed pseudogene is found on chromosome 11. [provided by RefSeq, Aug 2017]</p>