

Product datasheet for **SC101708**

CSNK2A2 (AK090752) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK2A2 (AK090752) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK2A2
Synonyms:	CK2A2; CK2alpha'; CSNK2A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK090752, the custom clone sequence may differ by one or more nucleotides

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AAAAAAAAATATATCTTAAACAGGTTAAAGTGCCTATGATAAGGACTTAATTATTTCTAAAGAAAAG
CAAAAAATGTGGGAACAGGGTAGTGTATACTATCATCTCAGGTAAGTGCCTATGTTCAAGAACATAGAC
CTGGTATGGTGAACAAAAGGTTCTATGCCAAATCCAGATGGCTATATCATTTGTTGGCTACAAGTGA
GCCTGACTGCAAGGTTTCTTCTGCTGAGAAATCCCATGGTGAAGTGAAGTCAATGAAAGTCTGAGTCA
CATTTGCACCTCTGGTGTGGTGGCAGTTCACTCTCCCCTGGATGCTGTCAGCTGGCCTTGTCTTCATCCT
ATCCCTGTAGGCAGGGTAGTGGCTGGGTAGGAGAAGCTATTGAGTGTATGACACAGACCAAGCTTTCTT
GGGCTTCTCACCAACTAGAGAAGCGCTGATGTCGTTTATTGAGGCACTTAAACACCAGTCACTCAGCCA
GGCCTCTCCAGACATTCTGTAACATGTCAGCACTCACAAGGTTTAAAGCAAATGTTTCCCTTGAGAG
GAGGAAGTGTCTCAGACTGATAGATTAGAGGAGACAGACAACTCGTAATCCTTGGGGACTTGAAGAG
AGTGGCTAGGGGAAGGGCTGTTAAAAGAAAAGGGACCAATAAGAAAATCCATCTAAAGGTAGCTCTTGAG
GAGGAAATTAACCTCTTGGAGGGATAAATTAGAGGGTACCAAGTTTATGTTCTGGAATGTACCCTGGGGA
GGGCGCTGCCACTGGATTGGTCCCAGTGGACTGAAAGGTGGTGTCTCGAGTCAGGCGCTTAGTCCCAG
AGAGAGCTGGGTGCCCGGGGCTCGTGGTCTGTGCCTACTCAGGGAAATGACTTAGGTTCTCCCAGGTGC
TCTGTTGATAAGGATGGAAGCAGAACTACTTTGAGACACAAGCAACAATTGGAAGAGTTTTTTTATATGA
ACTGAAATAGATCTAAGAGAGCCTGGTTAACAGTTTCTTTAATACCAGTTCAGATTAATAGGTTACTTT
AGGAACCTGTGTTACTGTGTGAGCACCCACAGAAAACAGCAAATTTTCTACAAAAATGAGGGGAT
AATAACCGATCAGAGTCACAGTCGTTTCAATAAAACCTTCCGAAAGCAAAAGCAGGGACCACATGAGC
ACACAAGAAGCCAAAGTTTGTGAGTGTCTTAAATAAATTAAGACTGAGTAACATCCTGCCTTTAGAAAA
AATAACCCCGAGGTGGAGACCAGGGCAGGGAGGTGGCGGAGAAGCATCGGGCCAGATCAACCGTTAATA
ACATGCTTCTGAGCTATGTGGATGATAAATGAAAACACCCCAACTAGGTATTGTAGAGGCTGGAAAAA
GATGTGATGGGATTATACAGGTGATGCATATTTTTGTTTTGAGACTCAACAATGTCTACAAATGTGATA
CTTAACCTGAACTGCATGTATTGGGATTGTTTTTAAAAAGAAAAAAAACAACCTTTGAATCAATAAAT
TAACAGTTTTTCACTTGTGGCTCTTCTTGTGTAATGGTGACTAAGAGGTTGGGACAGAAATCTTGAC
AACTAGTGAAAACCTGGATAATCTTCAAGGACCATGGAGCCTTCTGTTTCTTCTGTTTGCAGAAAAGC
AACACTGCCTGGGTTGTGATCCTTACAAGTACTACTCAGACACAATTGGCCACCTCTTGTATCACT
GGATGACTGATGATGATTTATGTGCTGCTGCCCTTAGAGGGAAGAAAAATGCCATGTTAAATCCTGTT
TCTTAAATAAAAAATGTTGACAATAACCAGCCTTCCAAGTGGGAGACAAACCATT
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK090752 unedited

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NNNAGGGGGTTACCATTTGTNATACGACTCATATAGGCGGCCGAAATTCGCACGAGG
TTAGACTAAACCATGGTAAATGTACGCACCCAGTATCCTTTTTCAGTTAGCATATTTCTTTC
TTAAACTCATCTCAGTACTTTTCAATTTGTTTGTCTTATTATCTTAAACAGGTTAAAAGTG
CCTATGATAAGGACTTAATTTATTTCTTAAAGAAAACAAAAATGTGGGGAACAGGGTAGTG
TTATACTATCATCTCAGGTAAGTGCCTATGTTCAAGAACATAGACCTGGTATGGTGAAGAAC
AAAAGGTTCTATGCCAAATCCAGATGGCTATATCATTTGTTGGCTACAAGTGAAGCTGGA
CTGCAAGGTTTGTCTTCTGCTGAGAAATCCCATGGTGAAGTGAAGTCAATGAAAGTGTGA
GTCACATTTGCACCTCTGGTGTGGTGGCAGTTCCTCTCCCCTGGATGCTGTCAGCTGGC
CTTGCTTTTATCCTATCCCTGTAGGCAGGGTAGGTGGCTGGGTAGGAGAAGCTATTGAGT
GTATGACGCAGACCAAGCTTTCTGGGCCTTCTACCAACTAGAGAAGCGCTGATGTCGT
TCATTGANGCACTTAAACACCAGTCACTCAGCCAGGCCTCTCCAGACATTCTGTAACA
TGTCAGCACTCACANAGTTTAAAGCANATGTGTTCTCTTGCAGAGAGGAAGGTGCTCTCA
GACTGATAGATTAGAGGAGACAGACAACTCGTAATCCTTGNGGACTTGAAGAAGTGGCT
AGGGGAAGGGCTGTTAAAAGAAAAGGGACCAANTAGAAAATCCATCTAAAGTAGCTCTTGAN
GGAGAAATAAACTTCTTGGAGGATAAATTAGAGGNTACCAAGTTTATGTTCTG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for AK090752 unedited TTTAAGGTTCACTATGNACGCGGCCGCATACTAAGATCGGTTTTTTTTTTTTTTTTTTGA AAAAGTGTAAATTTATTGATTCAAATTGTTTTTTTTCTTTTTAAAAACAATCCCAATA CATGCAGTTCAGGGTTAAGTATCACATTTGTAGCACATTGTTGAGTCTCAAAACAAAAT ATGCATCACCTGTATAATCCCATCACATCTTTTCCAGCCTCTACAATACCTAGTTGGGG GTGTTTTTCATTTATACATCCACATAGCTCAAAGCATGTTATTAACGGTTGATCTGGCCC GATGCTTCTCCGCCACCTCCCCGCCCCTGGTCTCCACCTCGGGGTTATTTTTTTCTAAAG GCAGGATGTTACTCAGTCTTAATTTATTAAGATCACTGACAAACTTTGGCTTCTTGTGTG CTCATGTGGTCCCTGCTTTTGCTTTCGGAAGGGTTTATATTGAAACGACTGTGACTCTGA TCGGTTATTATCCCTCATTTTTGTAGGAAATAAGTTTGCTTGTCTGTGGTGCTCA CACAGTAACACAGGTTCCATAAGTAACCATTTAATCTGAACTGGTATTAAGGAACTGT TAACCGGGCTCTTAGATCTATTTCAAGTTCATATAAAAAACTCTTCCAATTGTTGCTT GTGTCTCAAAGTAGTTCTGCTTCCATCCTTATCAACAGAGCACCTGGGAGAACCTAAGTC ATTTCCCTGAGTANGCACAGACCAGAGCCCCGCGGCACCCAGCTCTCTCTGGGACTAAG CGCTGACTCGAGAGCACCACTTTCAGTCCACTGGGACCAATCCAGTGGGCAGCGCCCT CCCCAGGTACATTCCAGAACT
Restriction Sites:	NotI-NotI
ACCN:	AK090752
Insert Size:	1750 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:	AK090752.1
RefSeq Size:	1875 bp
RefSeq ORF:	1875 bp
Locus ID:	1459
Cytogenetics:	16q21
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Adherens junction, Tight junction, Wnt signaling pathway

Gene Summary:

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]