

Product datasheet for **SC119302**

CSNK1G2 (NM_001319) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CSNK1G2 (NM_001319) Human Untagged Clone
Tag: Tag Free
Symbol: CSNK1G2
Synonyms: CK1g2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001319 edited
ATGGATTTTGACAAGAAAGGAGGGAAAGGGGAGACGGAGGAGGGCCGGAGAATGTCCAAG
GCCGGCGGGGGCCGGAGCAGCCACGGCATCCGGAGCTCGGGGACCAGCTCGGGGTCCTG
ATGGTGGGCCCAACTTCCGCGTCGGCAAGAAGATCGGCTGCGGCAACTTCGGGGAGCTC
CGCCTAGGAAAGAATCTCTATACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAG
TCCCGGGCCCGCAGCTGCACCTGGAGTACCGGTTCTACAAGCAGCTCAGCGCCACAGAG
GGCGTCCCTCAGGTCTACTACTTCGGTCCGTGCGGGAAGTACAACGCCATGGTGTGGAG
CTGCTGGGGCCAGCCTGGAGGACCTGTTGACCTGTGCGACCGGACCTTACGCTCAAG
ACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTATGTGCACACCAAGAGC
CTAATCTACCGGACGTGAAGCCCGAGAACTTCTGGTGGGCCCGGGGACCAAGCGG
CAGCATGCCATCCACATCATCGACTTCCGGCTGGCCAAGGAGTACATCGACCCCGAGACC
AAGAAGCACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACATGAGC
ATCAACACGCACCTGGGCAAGGAGCAGAGCCGCGGACGACCTGGAGGCGCTGGGCCAC
ATGTTTCACTTCCCTGCGCGGAGCCTCCCCTGGCAGGGGCTCAAGGCCGACACGCTC
AAGGAGCGGTACCAGAAGATCGGGGACACCAAACGCGCCACGCCCATCGAGGTGCTCTGC
GAGAACTCCAGAGGAGATGGCCACGTACCTGCGCTATGTGCGGCGCCTGGACTTCTTC
GAGAAGCCCGACTATGACTACCTGCGGAAGCTCTTACCGACCTTTCGACCGCAGTGGC
TTCGTGTTGACTATGAGTACGACTGGGCCGGGAAGCCCTGCCGACCCCATCGGCACC
GTCCACACCGACTGCCCTCCCAGCCTCAGCTCCGGGACAAAACCCAGCCGCACAGCAAA
AACCAGGCGTTGAACTCCAACCAACGGGGAGCTGAATGCGGACGACCCCAAGCCGCGCCAC
TCCAACGCCCCGATCACAGCGCCTGCAGAGGTGGAGGTGGCCGATGAAACCAAATGCTGC
TGTTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACACAAGTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001319 unedited
 TTAACGGCATTATTGTATACGACTACTAAGGCGGCCCGGAATTCGCACGAGGCAGAAT
 GTCTCCTGCCCCGAGAGCGACCCCGAGCCCTGAGAAGAGCAGCGCGGCTGGCCGGCC
 CGAACGCTGCGTCTCAGTAGCTGGGAGCCACGGGCCACGCCGCCACCGGCCGAGT
 GATGTTTAGCCACAGAGGAGCCAAGACCTCAGGTTTCCAGAGACTTGGGATTTGCACGG
 CAGCAGAGTCACCGTGGAGAGGCCAGGGTATCACAACTTATGGATTTTGACAAGAAAGG
 AGGAAAGGGGAGACGGAGGAGGCCGAGAATGTCCAAGGCCGGGGCCGGAGCAG
 CCACGGCATCCGAGCTCGGGGACCAGCTCGGGGTCTGATGGTGGGCCCAACTCCG
 CGTCGGCAAGAAGATCGGCTGCGCAACTTCGGGAGCTCCGCTAGGAAAGAATCTCTA
 TACAAATGAATACGTGGCTATCAAATTGGAGCCGATCAAGTCCCGGGCCCGCAGCTGCA
 CCTGGAGTACCGTTCTACAAGCAGCTCAGCGCCACAGAGGGCTCCCTCAGGTCTACTA
 CTTGCGTCCGTGCGGGAAGTACAACGCCATGGTGTGAGCTGCTGGGGCCAGCCTGGA
 GGACCTGTTGACCTGTGCGACCGACCTTACGCTCAAGACGGTGTGATGATCGCCAT
 CCAGCTGATCACGCGCATGGAGTATGTGCACACCAAGAGCCTAATCTACCGGACGTGAA
 GCCCGAGAACTCCCTGGNTGGCCGCCCGGGGACCAAGCGGCAGCATGCCATCCACATCAT
 CGACTTCGGGCTGGCCAAGGAGTACATCGACCCCGAGACCAGAGCACATCCCGTACCGCG
 AGCACNAGAGCCTGACGGGCACGGCGCGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001319 unedited
 GCGGCCGAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTCTTGTTTTAAATAGTTAAT
 GCTCTTGGAGGGGAGGACTAGACACAGGTGTAGAAATTCGGCCAAAGTCTTACATGAAG
 GAAGTGACCCACGTCCCGGGGTGGGGCCGCTGAGCCAGGCGCGGCCCTGCAGTCTG
 CGTTCTGGCTTCCAGCCAGGGTCTGGCCCTGGGCGCTGTGGTGGGCCCGAGGGCCTC
 GCACAAGTTCGCCCCCAAGGGGTGCACGGAGAAGATTCAGGGGCTGCACGCGCCAG
 GGTCACTTGTGTGCTGCAGGATTTTCTTTCTCTTGAAGAAACAGCAGCATTTG
 GTTTCATCGGCCACCTCCACCTCTGCAGGCGTGTGATCGGGGCGTTGGAGTGGCCGGCC
 GTGGGGTTCGTCGCATTACGCTCCCGTTGGTGGAGTTCAACGCCTGGTTTTGTGTGC
 GGCTGGGTTTTGTCCCGAGCTGAGGCTGGGAGGGCAGGTCGGTGTGGACGGTCCGATG
 GGGGTCGGCAGGGGCTTCCCGCCAGTCGACTCATAGTCAACACGAAGCCACTGCGG
 TCGAAGAGGTTCGGTGAAGAGCTTCCGCAGGTAGTCATAGTCGGGTTCTCGAAGAAGTCC
 CAGCGCCGCACATAGCGCAGGTACGTGGCCATCTCCTCTGGGAAGTTCTCGCAGAGCACC
 CTCGATGGGCGTGGCGCTTTGTTGTCCCGATTTCTGGTACGCTCCTTGAGCGTGTG
 CCCTTGACCCCTGCCAGGGAAGCTGCCGNCAGGAGTACATGAACATGTGGCCACGGCT
 CCAGTTGTGCGGGCGTTCTGTTCTTGCCAGTGGCGTGTGAAGCTATGTAAGGCGCCGGC
 CCGTAAGGCTTTGGTCTCCGATCGGGATGGCCTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_001319

Insert Size:

1800 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_001319.5 , NP_001310.2
RefSeq Size:	2446 bp
RefSeq ORF:	1248 bp
Locus ID:	1455
UniProt ID:	P78368
Cytogenetics:	19p13.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Hedgehog signaling pathway
Gene Summary:	Serine/threonine-protein kinase. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates COL4A3BP/CERT, MTA1 and SMAD3. Involved in brain development and vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. Regulates fast synaptic transmission mediated by glutamate. SMAD3 phosphorylation promotes its ligand-dependent ubiquitination and subsequent proteasome degradation, thus inhibiting SMAD3-mediated TGF-beta responses. Hyperphosphorylation of the serine-repeat motif of COL4A3BP/CERT leads to its inactivation by dissociation from the Golgi complex, thus down-regulating ER-to-Golgi transport of ceramide and sphingomyelin synthesis. Triggers PER1 proteasomal degradation probably through phosphorylation.[UniProtKB/Swiss-Prot Function]