

Product datasheet for **MC200463**

Csnk1g2 (NM_134002) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csnk1g2 (NM_134002) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Csnk1g2
Synonyms:	2810429I12Rik; AI463719
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC004839 sequence for NM_134002
 GGAGCCGGAGCGGGGCCGAGCCGGAGCGCAACGTGCGCGGGGCCGGAGCGGGGACGCCGCTGC
 TGAGCTCGGCCACCGCCGCCCGGGCCCCAGGCGGGGCGCAGCTGGGCACCACAAGATTTAAGGCAGTG
 GGACCTGTTGGCAGAATGTCTTCTCTCTGCAAGCAACCTGAAGCCACCAAGATGAGCACCCAGTCC
 GGCCTGTGAGCGTACCCGGGTGCAATAGCCGGGAGCCGAGGGGCCACCGGGAGCAATGGTGTACTAGGC
 CGGGCGCGAGCTCAGGTTTCGCACTCGGATCTCACGGCAGAGTACCCTGGAGAGGCCAGGGTACCACAA
 ACTTATGGATTTTGACAAGAAAGGAGGGAAGGGGAGTTGGAGGAGGGCAGGAGAATGCCAAAACCGGC
 ACGAGTCGGAGCAACCACGGCGTCCGAGTTCGGGGACCAGCTCAGGGGTCTGATGGTGGGCCAAACT
 TCCGAGTCGGCAAGAAGATAGGCTGTGGAACTTCGGGGAGCTTCGCTAGGAAAGAATCTGTATACAAA
 TGAGTACGTGGCTATCAAGCTGGAGCCATCAAGTCCCGGGCCCCACAGCTGCACCTGGAGTACCCTTT
 TACAAGCAGCTCAGCACGACAGGTGAGGCGGACTCGGGTACGGGGCCAGCACTCTAGGCCAGCAGTGGC
 TCCGGACACCCAGCATGGATGTTTCTTCGAGAGGGCGTCCCTCAGGTCTACTACTTCGGCCCTTGTGG
 GAAGTACAACGCCATGGTGTGGAGCTGCTGGGGCCAGCCTGGAGGACCTTTTCGACCTGTGCGACCGC
 ACCTTCAGCTGAAGACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTACGTGCACACCA
 AGAGCCTCATCTACCGTGACGTGAAGCCGAGAACTTCTGGTTGGGCGCCGGGACGAAGCGGCAGCA
 CTCATCCACATCATCGACTTTGGGCTGGCCAAGGAGTACATCGACCCTGAGACTAAGAAGCACATCCCA
 TATCGCGAGCACAGAGCCTGACAGGCACTGCGCGCTACATGAGCATCAACACGCACTTGGGCAAAGAGC
 AGAGCCGCCGGGATGACCTGGAGGCGCTGGGACACATGTTTACTTCTGCGCGCAGTCTGCCCTG
 GCAGGGGCTCAAGGCAGACACGCTGAAGGAGCGTACCAGAAGATTGGAGACACCAAGCGTGCCACACCA
 ATCGAGGTGCTGTGTGAGAGCTTCCCGGAGGAGATGGCCACCTATTTGCGCTATGTGCGGCGCCTAGACT
 TTTTTGAGAAGCCAGACTACGACTACCTGAGGAAGCTCTTCACTGACCTTTTACCGCAGCGGCTACGT
 GTTTGTACTACGAGTATGACTGGGCCGGCAAGCCCTGCCGACACCCATCGGCACCGTCCACCCTGACGTG
 CCCTCCAGCCACCACATCGCGACAAAGTCCAGTCCACACCAAGAACCCAGGCGCTCAACTCCACTAATG
 GAGAGCTGAACACAGACGACCCACCGGGCCACTCCAACGCCCCATCGCGGCCCCCGAGAAGTAGA
 GGTGGCAGATGAAACAAAGTGTGCTGCTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACATAAG
 TGAGGGTGGTGCAGCCGCTCAAGATCCCAGGCGGGTCTAGGAAACTGGCAGTGTCTTGGTGGTGT
 GGGGCTCCTTGGCCACCTGCAGGACCATCTTTCGGGACTTGGGGTCCCTTCTTACACAGGACTTTG
 GCGGAAATCTTACACCCGTGTCTCATCATCCCCTTCGAGAGCATTAACTATTTAAACCCAGGAGAGAAG
 CGCTGTGCCGTCCTGCTGCGCCCTGTTAGCTCATAAAGTCCAGCTTGTCCCCTCAATCCAAAGGCCAT
 TTTCTCGAGGGGGCAGGCCCGGGGATGGGTGTACATGGGGAGGCTCAGCCACCAAAGGGGAGGCGC
 GTGCATTCACAAATGCTGCACCAAAGCCGGGGGAGGCGGGGACCGGTACCGCATAGGGACTGGTATG
 GGCCCCACAGTACCAGGGCGGCCGTGATCCGTGTCCCTGCGTGCAGGGCCACGGGACAGAATCGCCTTA
 ACGCCAGGCTGGGGCAGCAGAGAGGCGGTCCCACAGGAGGGCCAGGCCTTGGTGTGGGAACTGAGTTC
 TTGCTTTACGACGTGTACAGAAATGAAGTATGTTTCTTCTGGCGTTCCTTGAAGCCGTAGAGTTTAGGG
 GCTTTTTTTTTAAAAAAAAAATAAAAGAAAAGAAAAACAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_134002

Insert Size: 1329 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:

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: [BC004839](#), [AAH04839](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1329 bp

Locus ID: 103236

UniProt ID: [Q8BVP5](#)

Cytogenetics: 10 C1

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 (By similarity). 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]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.