

## Product datasheet for **MC203968**

### **Csnk1a1 (NM\_146087) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Csnk1a1 (NM_146087) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Csnk1a1
Synonyms:	2610208K14Rik; 4632404G05Rik; 5430427P18Rik; CK1a; Csnk1a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC019740  
 ATCCGGCTTCTCTGCCGCCTGTGCGCCCGTGACGCCGACAGAGCCTTGGGTTTAGGTTGCCCGCCG  
 GCTTCTCACTTCTGCCGCGGGTGGAAACAGCCCCGGAGGCTTCCATCCTCTTCTGAGGTGTGGGGCTCG  
 GCCCCCGCCTCCATCTTCGCGTCTCAGGATGGCGAGCAGCAGCGGCTCCAAGGCCGAATTTATCGTCGG  
 TGGAAAATACAACTGGTGCAGGATCGGATCTGGCTCTTCGGGGACATTTATCTAGCGATCAACATC  
 ACCAATGGCGAGGAAGTGGCAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGTAAAAGT  
 GCAAAGTATAAGATTCTTCAAGTGGGTTGGCATCCCTCACATACGGTGGTATGGGCAAGAAAAGA  
 CTATAATGTACTAGTCATGGATCTCCTGGGACCCAGCCTTGAAGACCTCTCAACTTCTGTTCAAGGAGG  
 TCACTATGAAGACCGTACTTATGTTAGCTGACCAGATGATCAGTAGAATTGAATATGTGCATACAAAGA  
 ATTTTATACACAGAGACATTAACCAGATAAATTCCTAATGGGTATTGGGCGTCACTGTAATAAGTTATT  
 CCTTATTGATTTTGGTTTGGCAAAAAGTACAGAGACAACAGGACAAGGCAACACATACCATACAGAGAA  
 GATAAAAACCTCACTGGCACTGCCGATACGCCAGCATCAATGCACATCTTGGTATTGAGCAGAGTCGCC  
 GAGATGACATGGAATCTTAGGATATGTTTGGTATTTTAAATAGAACCAGTCTGCCGTGGCAAGGACT  
 GAAGGCTGCAACAAAGAAAACAAAATATGAAAAGATTAGTAAAAGAAGATGTCCACTCCTGTTGAGGTG  
 TTGTGTAAGGGTTTCTGCAGAAATTTGCCATGTAATAAATACTGTCGTGGGCTGCGCTTTGAGGAAG  
 CTCGGATTACATGTATCTGAGGAGCTATTCCGCATCCTTTTACAGACCTGAACCACCAATATGACTA  
 CACATTTGATTGGACGATGTTAAAGCAGAAAGCAGCCAGCAGGAGCCTCTTCCAGTGGCAGGGTCAG  
 CAGGCCAAACCCACAGGTTTCTAAGCATGAATTGTGGAAGAGAAGCAGCAGAGCAGAGCATTGGAGC  
 AGCGTTTGTCTCCCAACCTAGACATTTTAGTTTATGTACACTAGCCAGTGGTTGTGGACAACCA  
 TTTACTTGGTGTAAAGAACTTCAATTTCCGTATAAACTGGCTCTGGGTAGCACTGCGGATCCTGAGCTGT  
 GCCACTGTCCTTGTGAATATAACTGAGGTAGTAAAATGGTGTCCGGTTTTCTATTGCATTTTTTTT  
 AAGTGGAAAAGTAACTAAATGGTTGACACAAAATGGTGGAGAAATTTGCATATGCCAATTTTTATT  
 TTATTTTTTGTAAAATCTTTTTATTTTGAACATACTGCTTTGAGATCTATTTCAGAAGAACGGCATG  
 AACAGTCTCAGCCACAGTTGTGATGGTTGATAAATGTTACAATTTGTGTGTTCTTAGGGTTTTCCATCCC  
 TGGGGTTTGAAGTTGTTAACTTAAAACATTCTTAAAATGGCTGGCTTCTGTTTGAAGCCAGCTGATA  
 TGGTAGCAACCAAGATTCCAGTGTGTTGAGCATTGAAAGACTCTGCCTGTTACCTGTGCTAGAAATAA  
 CAGCATCTAAAGTGAAGACTTAAGAAAAAACAATAGCGACTACTAGATTCTTTAGGACTCTGCATTA  
 ACTCTATAATGTTCTTGCTATTAAAAAAAGCATATTTGTCACGGAAATTTAGTTACCGTCTTACAAC  
 TGAATGTGTGTTGCTTAGATAAATGTAATCACTGTAACATCTATACGATCTGGGATTTTGTTTT  
 TTTTGAATGGGAGCTTTTTGTTTACAAGTTCATTAATAAACTAAAACTGTTAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_146087

**Insert Size:** 978 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: [BC019740](#), [AAH19740](#)

RefSeq Size: 2033 bp

RefSeq ORF: 978 bp

Locus ID: 93687

Cytogenetics: 18 E1

**Gene Summary:** Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May phosphorylate PER1 and PER2. May play a role in segregating chromosomes during mitosis. May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (By similarity). [UniProtKB/Swiss-Prot Function]