

Product datasheet for **MR207046**

Csnk1g2 (NM_134002) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csnk1g2 (NM_134002) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csnk1g2
Synonyms:	2810429I12Rik; AI463719
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR207046 representing NM_134002
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTTTGACAAGAAAGGAGGGAAGGGGGAGTTGGAGGAGGGCAGGAGAATGTCCAAAACCGGCACGA
GTCGGAGCAACCACGGCGTCCGCAGTTCGGGGACCAGCTCAGGGGTCTGATGGTGGGCCAAAACCTCCG
AGTCGGCAAGAAGATAGGCTGTGGGAACCTCGGGGAGCTTCGCCTAGGAAAGAATCTGTATACAAATGAG
TACGTGGCTATCAAGCTGGAGCCATCAAGTCCCGGGCCACAGCTGCACCTGGAGTACCGCTTTTACA
AGCAGCTCAGCACGACAGGTGAGGCGGACTCGGGTACGGGGCCAGCACTCCTAGGCCAGCAGTGGCTCCG
GACACCCAGCATGGATGTTTCCTTCGCAGAGGGCGTCCCTCAGGTCTACTACTTCGGCCCTTGTGGGAAG
TACAACGCCATGGTGTGGAGCTGCTGGGGCCAGCCTGGAGGACCTTTTCGACCTGTGCGACCGCACCT
TCACGCTGAAGACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTACGTGCACACCAAGAG
CCTCATCTACCGTGACGTGAAGCCGAGAACTTCTGGTTGGCGGCCGGGCAGCAAGCGGCAGCACTCC
ATCCACATCATCGACTTTGGGCTGGCCAAGGAGTACATCGACCCTGAGACTAAGAAGCACATCCCATATC
GCGAGCACAAGAGCCTGACAGGCACTGCGCGCTACATGAGCATCAACACGCACTTGGGCAAGAGCAGAG
CCGCCGGGATGACCTGGAGGCGCTGGGACACATGTTTATGTACTTCTGCGCGGCAGTCTGCCCTGGCAG
GGGCTCAAGGCAGACACGCTGAAGGAGCGCTACCAAGAAGATTGGAGACACCAAGCGTGCCACACCAATCG
AGGTGCTGTGTGAGAGCTTCCCGGAGGAGATGGCCACCTATTTGCGCTATGTGCGGCGCCTAGACTTTTT
TGAGAAGCCAGACTACGACTACCTGAGGAAGCTTTCCTGACCTCTTTGACCGCAGCGGCTACGTGTTT
GACTACGAGTATGACTGGGCCGGCAAGCCCTGCCGACACCCATCGGCACCGTCCACCCTGACGTGCCCT
CCCAGCCACACATCGCGACAAAGCTCAGCTCCACACCAAGAACCAGGCGCTCAACTCCACTAATGGAGA
GCTGAACACAGACGACCCACCGCGGGCACTCCAACGCCCCATCGCGGCCCGCAGAAAGTAGAGGTG
GCAGATGAAACAAAGTGCTGCTGCTTCTTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACATAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207046 representing NM_134002
Red=Cloning site Green=Tags(s)

MDFDKKGGKGELEEGRMSKTGTSRSNHGVRSSGTSVGLMVGPNFRVGGKIGCGNFGELRLGKNLYTNE
YVAIKLEPIKSRAPQLHLEYRFYKQLSTTGEADSGTGPALLGQQWLRTPSMDVSFAEGVPQVYFPGCGK
YNAMVLELLGPSLEDLFDLDRFTFLKTVLMIAIQLITRMEYVHTKSLIYRDVKPENFLVGRPGSKRQHS
IHIIDFLAKEYIDPETKKHIPYREHKS LTGTARYMSINTHLGKEQSRRDDLEALGHMFMFLRGS LPWQ
GLKADTLKERYQKIGDTRATPIEVLCEFSPEEMATYLRVRRLLDFEKP DYDYLKFLTDLFD RSGYVF
DYEYDWAGKPLPTPIGTVHPDVPSQPPHRDKAQLHTKNQALNSTNGELNTDDPTAGHSNAPIAAPAEVEV
A DETKCCCFKRRKRKSLQRHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9010_c07.zip

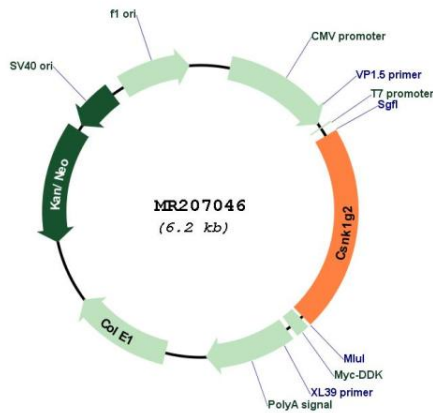
Restriction Sites:

Sgfl-Mlul

MW: 50.8 kDa

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]

Product images:



Circular map for MR207046