

Product datasheet for **MG207046**

Csnk1g2 (NM_134002) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csnk1g2 (NM_134002) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Csnk1g2
Synonyms:	2810429I12Rik; AI463719
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207046 representing NM_134002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTTGACAAGAAAGGAGGGAAGGGGAGTTGGAGGAGGGCAGGAGAATGTCCAAAACCGGCACGA
GTCGGAGCAACCACGGCGTCCGCACTTCGGGGACCAGCTCAGGGGTCTGATGGTGGGCCAAAATTCCG
AGTCGGCAAGAAGATAGGCTGTGGGAATTCGGGGAGCTTCGCCTAGGAAAGAATCTGTATACAAATGAG
TACGTGGCTATCAAGCTGGAGCCCATCAAGTCCCGGGCCCCACAGCTGCACCTGGAGTACCGCTTTTACA
AGCAGCTCAGCAGACAGGTGAGGCGGACTCGGGTACGGGGCCAGCACTCCTAGGCCAGCAGTGGTCCG
GACACCCAGCATGGATGTTTCTTCGCAGAGGGGCTCCCTCAGGTCTACTACTTCGGCCCTGTGGGAAG
TACAACGCCATGGTGTGGAGCTGCTGGGGCCAGCCTGGAGGACCTTTTCGACCTGTGCGACCGCACCT
TCACGCTGAAGACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTACGTGCACACCAAGAG
CCTCATCTACCGTGACGTGAAGCCCGAGAATTCTGTTGGGCGGCCGGCAGCAAGCGGCAGCACTCC
ATCCACATCATCGACTTTGGGCTGGCAAGGAGTACATCGACCCTGAGACTAAGAAGCACATCCCATATC
GCGAGCACAAGAGCCTGACAGGCACTGCGCGCTACATGAGCATCAACACGCACTTGGGCAAAGAGCAGAG
CCGCCGGGATGACCTGGAGGCGCTGGGACACATGTTCACTACTCTCCGCGGCGAGTCTGCCCTGGCAG
GGGCTCAAGGCAGACACGCTGAAGGAGCGCTACCAGAAGATTGGAGACACCAAGCGTGCCACACCAATCG
AGGTGCTGTGTGAGAGCTTCCCGGAGGAGATGGCCACCTATTTGCGCTATGTGCGGCGCCTAGACTTTTT
TGAGAAGCCAGACTACGACTACCTGAGGAAGCTCTTCACTGACCTCTTTGACCGCAGCGGTACGTGTTT
GACTACGAGTATGACTGGGCCGGCAAGCCCTGCCGACACCCATCGGCACCGTCCACCCTGACGTGCCCT
CCCAGCCACCACATCGCGACAAAGCTCAGCTCCACACCAAGAACCAGGCGCTCAACTCCACTAATGGAGA
GCTGAACACAGACGACCCACCGCGGGCCACTCCAACGCCCCATCGCGGCCCCCGAGAAGTAGAGGTG
GCAGATGAAACAAAGTGTGCTGCTTCTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACATAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207046 representing NM_134002
 Red=Cloning site Green=Tags(s)

MDFDKKGGKGELEEGRMSKTGTSRSNHGVRSSGTSSGVLMVGPNFRVGKKIGCGNFGELRLGKNLYTNE
 YVAIKLEPIKSRAPQLHLEYRFYKQLSTTGEADSGTGPALLGQQWLRTPSMDVSAEGVPQVYFPGCGK
 YNAMVLELLGPSLEDLFDLDCDRFTLTKVLMIAIQLITRMEYVHTKSLIYRDVKPENFLVGRPGSKRQHS
 IHIDFGLAKEYIDPETKKHIPYREHKSLTGTARYMSINTHLGKEQSRDDLEALGHMFMFLRGSPLWQ
 GLKADTLKERYQKIGDTRATPIEVLCESEFPEMATYLRVYRRLDFFEKPDYDYLKRLFTDLFDRSGYVF
 DYEYDWAGKPLPTPIGTVHPDVPSQPPHRDKAQLHTKNQALNSTNGELNTDDPTAGHSNAPIAAPAEVEV
 ADETKCCCFKRRKRKSLQRHK

TRTRPLE - GFP Tag - V

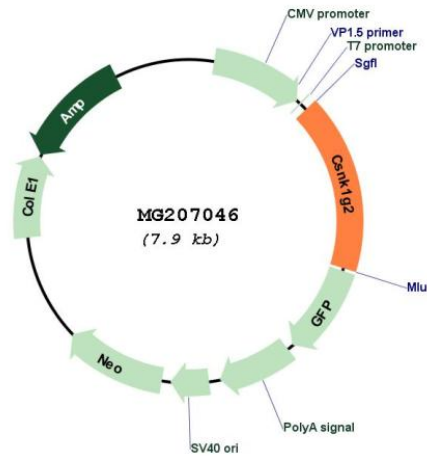
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_134002

ORF Size:	1326 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_134002.2 , NP_598763.1
RefSeq Size:	2436 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]