

Product datasheet for **MG217169**

Csnk1g1 (NM_173185) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csnk1g1 (NM_173185) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Csnk1g1
Synonyms:	9130020E21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217169 representing NM_173185
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCATTCTAATAGGAAAAGGATGATAGACAACGGACAACAAAACCATGGCACAAGGAATACAC
 ACTGTTTCGAGACCATCTGGCACTTCAACATCCTCTGGGGTTCTCATGGTGGGACCAACTTCAGGGTTGG
 CAAGAAGATAGGGTGTGGGAACCTCGGAGAGCTCAGATTAGTAAAAATCTCTACACCAATGAATATGTA
 GCCATTAACCTGGAACCAATAAAATCACGTGCTCCACAACCTTCATTTAGAGTACAGGTTTTATAAACAGC
 TTGGCAGTGCAGGTGAAGGCTCCACAGGTTTATTACTTTGGACCATGTGGGAAGTACAATGCCATGGT
 GCTGGAACCTCTGGCCCTAGCTTGAAGACTTGTGGACCTCTGTGACCGAACGTTTACTTTGAAGACG
 GTGTTAATGATAGCCATCCAGTTGCTTTCTCGAATGGAGTATGTACACTCAAAGAATCTTATTTACCGAG
 ATGTCAAACCAGAGAACTTCTTGATTGGCCGACAAGGCAATAAGAAAGAGCATGTAATACACATTATAGA
 TTTTGGACTGGCCAAGGAATATGTTGATCTGAAACCAAAAAACACATACCTTACAGAGAGCACAAAAGT
 TTGACTGGAACCTGCGAGATACATGTCTATCAACACACATCTAGGCAAAGAGCAAAGCCGGCGAGATGATT
 TGAAGCCTTAGCCATATGTTCACTGACTTCCCTCCGAGGCAGCCTACCCTGGCAAGGACTCAAGGCTGA
 TACATTAAGAGAGATATCAAAAAATCGGTGATACAAAAGGAATACTCCCATCGAAGCTCTCTGTGAG
 AACTTTCCAGAGGAGATGGCAACCTACCTTCGATATGTCAGGCGATTAGACTTCTTTGAAAACTGATT
 ATGAGTATTTACGGACCTCTTCCACAGATCTGTTTGAACGGAAAGGCTATACCTTTGACTATGCCTATGA
 TTGGGTTGGAAGGCTATTCTACTCCAGTAGGATCAGTTCATGTAGATTCTGGTGCATCTGCAATAACT
 CGAGAAAGCCACACACAGGGATCGCCATCACAACAACAGCCTCTTAGAAATCAGACTACATCATCAG
 AGCGCCGAGGAGAGTGGGAAATCCAGCCAGCCGAGACCAATACCTCATACCTGACGCTCAGCTTGGC
 CGCAGACCGCCATGGGGGTTTCACTACAGGTGTTAGCTCAACCAATGGAGAGCTGAATGTCGATGACCCC
 ACTGGAGCTCACTCCAATGCACCAATCACAGCTCATGCCGAAGTGGAGGTAGTGGAGGAAGCTAAGTGCT
 GCTGTTTCTTTAAGAGGAAAAGGAAGAAGACAGCCAGCGACACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217169 representing NM_173185
 Red=Cloning site Green=Tags(s)

MDHSNREKDDRQRTTKTMAQRNTHCSRPSGTSTSSGVLVMPNFRVGGKIGCGNFGELRLGKNLYTNEYV
 AIKLEPIKSRAPQLHLEYRFYKQLGSAGEGLPQVYFPGCGKYNAMVLELLGPSLEDLFDLCDRTFTLKT
 VLMIAIQLLSRMEYVHSKNLIYRDVKPENFLIGRQGNKKEHVIHIIDFGLAKEYVDPETKKHIPYREHKS
 LTGTARYMSINTHLGKEQSRDDLEALGHMFMYFLRGLPWQGLKADTLKERYQKIGDTRNTPIEALCE
 NFPEEMATYLRVRRLLDFEKPDIYELRFLFDLFRKGYTFDYAYDWVGRPIPTVGSVHVDSGASAIT
 RESHTRDRPSQQQLRNQTTSSERRGEWEIQPSRQTNTSYLTLAADRHGGSVQVVSSTNGELNVDDP
 TGAHSNAPITAHAEVEVVEEAKCCCFKRRKKTAAQRHK

TRTRPLE - GFP Tag - V

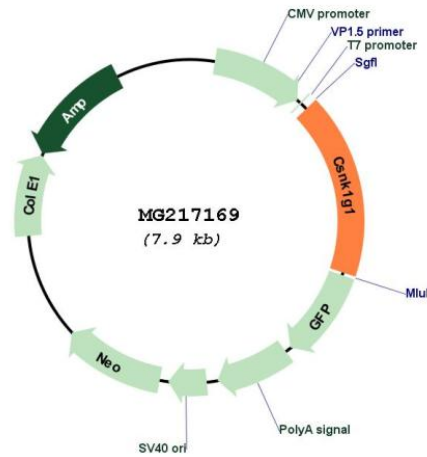
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173185

ORF Size: 1377 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:	<u>NM_173185.2</u> , <u>NP_775277.2</u>
RefSeq Size:	7183 bp
RefSeq ORF:	1380 bp
Locus ID:	214897
UniProt ID:	<u>Q8BTH8</u>
Cytogenetics:	9 C
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 CLSPN (By similarity). Regulates fast synaptic transmission mediated by glutamate.[UniProtKB/Swiss-Prot Function]