

Product datasheet for MR216302

Csnk1g2 (NM_001159591) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csnk1g2 (NM_001159591) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Csnk1g2
Synonyms:	2810429I12Rik; AI463719
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR216302 representing NM_001159591 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATTTTGACAAGAAAGGAGGGAAGGGGGAGTTGGAGGAGGGCAGGAGAATGTCCAAAACCGGCACGA
GTCGGAGCAACCACGGCGTCCGAGTTCGGGGACCAGCTCAGGGGTCTGATGGTGGGCCAAACTTCCG
AGTCGGCAAGAAGATAGGCTGTGGAACTTCGGGGAGCTTCGCCTAGGAAAGAATCTGTATACAAATGAG
TACGTGGCTATCAAGCTGGAGCCATCAAGTCCGGGGCCACAGCTGCACCTGGAGTACCGCTTTTACA
AGCAGCTCAGCACGACAGAGGGCGTCCCTCAGGTCTACTACTTCGGCCCTTGTGGGAAGTACAACGCCAT
GGTGTGGAGCTGCTGGGGCCAGCCTGGAGGACCTTTTCGACCTGTGCGACCGCACCTTCACGCTGAAG
ACGGTGTGATGATCGCCATCCAGCTGATCACGCGCATGGAGTACGTGCACACCAAGAGCCTCATCTACC
GTGACGTGAAGCCGAGAAGTTCCTGGTTGGGCGGCCGGCAGCAAGCGGCAGCACTCCATCCACATCAT
CGACTTTGGGCTGGCCAAGGAGTACATCGACCTGAGACTAAGAAGCACATCCCATATCGCGAGCACAAG
AGCCTGACAGGCACTGCGCGCTACATGAGCATCAACACGCACTTGGCAAAGAGCAGACCCGCGGGATG
ACCTGGAGGCGCTGGGACACATGTTTCACTGTTTCTGCGCGGAGTCTGCCCTGGCAGGGGCTCAAGGC
AGACACGCTGAAGGAGCGTACCAGAAGATTGGAGACCAAGCGTGCCACACCAATCGAGGTGCTGTGT
GAGAGTTCGCGGAGGAGATGGCCACCTATTTGCGCTATGTGCGCGCCTAGACTTTTTGAGAAGCCAG
ACTACGACTACCTGAGGAAGCTCTTCACTGACCTTTTGACCGCAGCGGCTACGTGTTTACTACGAGTA
TGACTGGGCCGCAAGCCCTGCCGACACCCATCGGCACCGTCCACCCTGACGTGCCCTCCAGCCACCA
CATCGGCAAAAGCTCAGCTCCACACCAAGAACCAGGCGCTCAACTCCACTAATGGAGAGCTGAACACAG
ACGACCCACCGGGCCACTCCAACGCCCCATCGCGGCCCCGAGAAGTAGAGGTGGCAGATGAAAC
AAAGTGTGCTGCTTCTCAAGAGGAGAAAGAGAAAATCGCTGCAGCGACATAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216302 representing NM_001159591
 Red=Cloning site Green=Tags(s)

MDFDKKGGKGELEEGRMSKTGTSRSNHGVRSSGTSSGVLVGPVFRVGGKIGCGNFGELRLGKNLYTNE
 YVAIKLEPIKSRAPQLHLEYRFYKQLSTTEGVPQVYFVGPCKYNAMVLELLGPSLEDLFDLCDRTFTLK
 TVLMIAIQLITRMEYVHTKSLIYRDVKPENFLVGRPGSKRQHSIHIIDFGLAKEYIDPETKKHIPYREHK
 SLTGTARYMSINTHLGKEQSRDDLEALGHMFMFLRGSLPWQGLKADTLKERYQKIGDTRATPIEVL
 C ESFPEEMATYLRVRRDLDFEKPDPDYLRKLFDTLFD RSGYVFDYEYDWAGKPLPTPIGTVHPDVP
 SQPP HRDKAQLHTKNQALNSTNGELNTDDPTAGHSNAPIAAPAEVEVADETKCCCFKRRKRKLSLQRHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

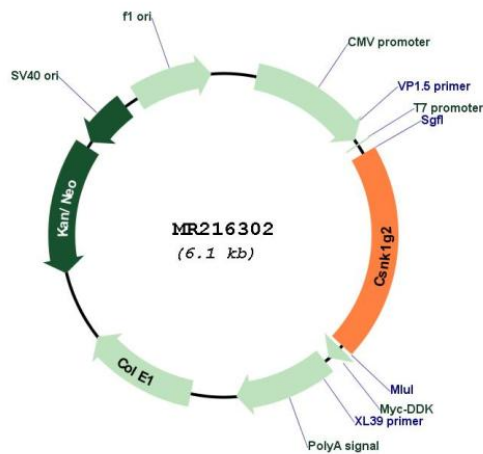
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001159591

ORF Size:	1245 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_001159591.1 , NP_001153063.1
RefSeq Size:	2259 bp
RefSeq ORF:	1248 bp
Locus ID:	103236
UniProt ID:	Q8BVP5
Cytogenetics:	10 C1
MW:	48 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]