

Product datasheet for **RC224794**

CSNK1G1 (NM_022048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1G1 (NM_022048) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSNK1G1
Synonyms:	CK1gamma1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224794 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCATCCTAGTAGGAAAAGGATGAAAGACAACGGACAACAAACCCATGGCACAAGGAGTGCAC
 ACTGCTCTCGACCATCTGGCTCCTCATCGTCTCTGGGGTTCTTATGGTGGGACCAACTCAGGGTTGG
 CAAGAAGATAGGATGTGGGAACCTCGGAGAGCTCAGATTAGGTAATAATCTCTACACCAATGAATATGTA
 GCAATCAAACCTGGAACCAATAAAATCACGTGCTCCACAGCTTCATTTAGAGTACAGATTTTATAACAGC
 TTGGCAGTGCAGGTGAAGGTCTCCACAGGTGATTACTTTGGACCATGTGGGAAATATAATGCCATGGT
 GCTGGAGCTCCTTGGCCCTAGCTTGGAGGACTTGTGGACCTCTGTGACCGAACATTTACTTTGAAGACG
 GTGTTAATGATAGCCATCCAGCTGCTTCTCGAATGGAATACGTGCACTCAAAGAACCTCATTTACCGAG
 ATGTCAAGCCAGAGAACCTCCTGATTGGTCGACAAGGCAATAAGAAAGAGCATGTTATACACATTATAGA
 CTTTGGACTGGCCAAGGAATACATTGACCCGAAACCAAAAAACACATACCTTATAGGGAACACAAAAGT
 TTAAGTGAACCTGCAAGATATATGTCTATCAACACGCATCTTGGCAAAGAGCAAAGCCGGAGAGATGATT
 TGGAAAGCCCTAGGCCATATGTTCAATGATTTTCTTCGAGGCAGCCTCCCTCGGCAAGGACTCAAGGCTGA
 CACATTAAGAGAGATATCAAAAAATTGGTGACACAAAAGGAATACTCCCATTTGAAGCTCTCTGTGAG
 AACTTTCCAGAGGAGATGGCAACCTACCTTCGATATGTCAGGCGACTGGACTTCTTTGAAAACTGATT
 ATGAGTATTTACGGACCTCTTCCACAGACCTCTTTGAAAAGAAAGGCTACACCTTTGACTATGCCTATGA
 TTGGGTTGGGAGACCTATTCCTACTCCAGTAGGGTCAGTTCACGTAGATTCTGGTGCATCTGCAATAACT
 CGAGAAAGCCACACACATAGGGATCGGCCATCACACAGCAGCCTCTTCGAAATCAGGTGGTTAGCTCAA
 CCAATGGAGAGCTGAATGTTGATGATCCACGGGAGCCCACTCCAATGCACCAATCACAGCTCATGCCGA
 GGTGGAGGTAGTGGAGGAAGCTAAGTGTCTGTTCTTTAAGAGGAAAAGGAAGACTGCTCAGCGC
 CACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224794 protein sequence
 Red=Cloning site Green=Tags(s)

MDHPSREKDERQRTTKPMAQRSACSRPSGSSSSSGVLMVGNFRVGGKIGCGNFGELRLGKNLYTNEYV
 AIKLEPIKSRAPQLHLEYRFYKQLGSAGEGLPQVYFPGCGKYNAMVLELLGPSLEDLFDLCDRTFTLKT
 VLMIAIQLLSRMEYVHSKNLIYRDVKPENFLIGRQGNKKEHVIHIIDFGLAKEYIDPETKKHIPYREHKS
 LTGTARYMSINTHLGKEQSRDDLEALGHMFMYFLRGLPWQGLKADTLKERYQKIGDTRNTPIEALCE
 NFPEEMATYLRVRRLLDFEKPDIYELRFLFDLFEKGYTFDYAYDWVGRPIPTVGSVHVDGASAIT
 RESHTRDRPSQQPLRNQVVSSTNGELNVDDPTGAHNSNAPITAHAEVVEEAKCCCFKRRKRTAQR
 HK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6469_h10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022048

ORF Size: 1266 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:

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_022048.5](#)

RefSeq Size: 8163 bp

RefSeq ORF: 1269 bp

Locus ID: 53944

UniProt ID: [Q9HCP0](#)

Cytogenetics: 15q22.31

Domains: pkinase, TyrKc, S_TKc

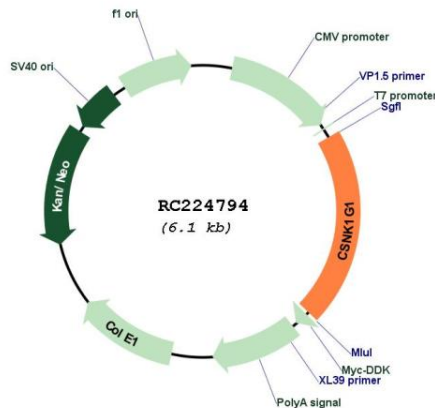
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Hedgehog signaling pathway

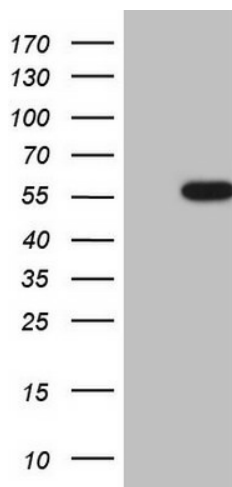
MW: 48.5 kDa

Gene Summary: This gene encodes a member of the casein kinase I gene family. This family is comprised of serine/threonine kinases that phosphorylate acidic proteins such as caseins. The encoded kinase plays a role in cell cycle checkpoint arrest in response to stalled replication forks by phosphorylating Claspin. A mutation in this gene may be associated with non-syndromic early-onset epilepsy (NSEOE). [provided by RefSeq, Jul 2016]

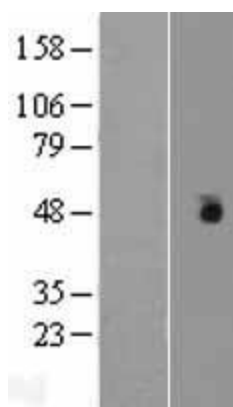
Product images:



Circular map for RC224794



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CSNK1G1 (Cat# RC224794, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CSNK1G1(Cat# [TA806335]). Positive lysates [LY411816] (100ug) and [LC411816] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411816]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224794 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).