

Product datasheet for **RC222490**

CSNK1G3 (NM_004384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1G3 (NM_004384) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSNK1G3
Synonyms:	CKI-gamma 3; CSNK1G3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222490 representing NM_004384 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAAATAAAAAGAAAGACAAGGACAAATCAGATGATAGAATGGCACGACCTAGTGGTCGATCGGGAC
ACAACACTCGAGGAAGCTGGTCTTCATCGTCTGGAGTTTTAATGGTTGGACCTAACTTTAGAGTTGGAAA
AAAAATTGGATGTGGCAATTTGGAGAATTACGATTAGGGAAAAATTTATACACAAATGAATATGTGGCA
ATTAAGTTGGAGCCCATGAAATCAAGAGCACACAGCTACATTTGGAATACAGATTCTATAAGCAGTTAG
GATCTGGAGATGGTATACCTCAAGTTTACTATTTTCGGCCCTTGTGGTAAATACAATGCTATGGTGTGGA
ACTGCTGGGACCTAGTTTGAAGACTTGTGGTGTGTGACAGAACATTTTCTCTAAAACAGTTCTC
ATGATAGCTATACTCAACTGATTTCTCGCATGGAATATGTCCATTCAAAGAAGTTGATATACAGAGATGTAA
AACCTGAGAACTTCTAATAGGACGACCAGGAAACAAAACCCAGCAAGTTATTCACATTATAGATTTTGC
TTTGGCAAAGGAATATATTGATCCGGAGACAAAGAAACACATACCATACAGAGAACAAGAGCCTTACA
GGAACAGCTAGATATATGAGCATAAACACACATTTAGGAAAAGAACAAAGTAGAAGAGACGATTTAGAAG
CTTTAGGTCATATGTTTCATGATTTTCTGAGAGGCAGTCTTCTTGGCAAGGCTTAAAGGCTGACACATT
AAAGGAGAGGTATCAGAAAATTGGAGATACAAAACGGGCTACACCAATAGAAGTGTATGTGAAAATTTT
CCAGAAAATGGCAACATATCTTCGTTATGTAAGAAGGCTAGATTTTTTTGAAAACCCAGACTATGACTACT
TAAGAAAAGCTTTTTACTGACTTGTGGTATCGAAAAGGATATATGTTTGATTATGAATATGACTGGATTGG
TAAACAGTTGCCTACTCCAGTGGGTGCAGTTCAGCAAGATCCTGCTCTGTGATCAAAACAGAGAAGCACAT
CAACACAGAGATAAGATGCAACAAATCCAAAACAGGTTGTAAGTTCTACAAATGGAGAGTTAAACACAG
ATGACCCACCGCAGGACGTTCAAATGCACCCATCACAGCCCCTACTGAAGTAGAAGTATGATGGATGAAAC
CAAGTGTCTGTTTTTTCAAACGAAGGAAAAGGAAAACCATACAGCGCCACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222490 representing NM_004384
Red=Cloning site Green=Tags(s)

MENKKKDKDKSDDRMARPSGRSGHNTRGTGSSSSGVLVMPNFRVGGKIGCGNFGELRLGKNLYTNEYVA
 IKLEPMKSRAPQLHLEYRFYKQLGSGDGIPOVYFPGPCGKYNAMVLELLGPSLEDLFDLDRTFSLKTVL
 MIAIQLISRMEYVHSKNLIYRDVKPENFLIGRPGNKTQQVIHIIDFALAKEYIDPETKKHIPPYREHKS
 LTGTARYMSINTHLGKEQSRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTRATPIEVL
 CENFPEMATYLRVRRLLDFEKPDPDYLRKLFIDLFDKRGYMFDEYDWDWIGKQLPTPVGAVQQDPALSSN
 REAHQHRDKMQQSKNQVVSSTNGELNTDDPTAGRSNAPITAPTEVEVMDETKCCCFKRRKRKTIQRHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mg4215_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_004384

ORF Size: 551 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 Size: 4352 bp

RefSeq ORF: 1344 bp

Locus ID: 1456

UniProt ID: [Q9Y6M4](#)

Cytogenetics: 5q23.2

Domains: pkinase, TyrKc, S_TKc

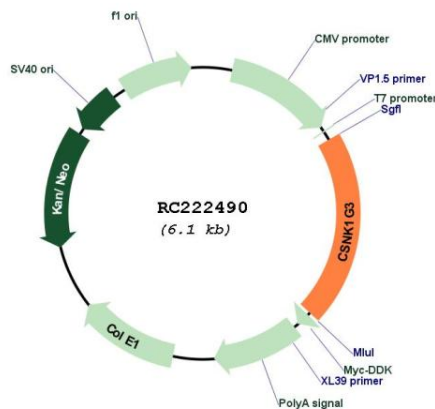
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Hedgehog signaling pathway

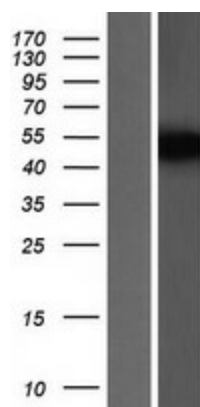
MW: 47.92 kDa

Gene Summary: This gene encodes a member of a family of serine/threonine protein kinases that phosphorylate caseins and other acidic proteins. A related protein in the African clawed frog participates in the transmission of Wnt/beta-catenin signaling. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

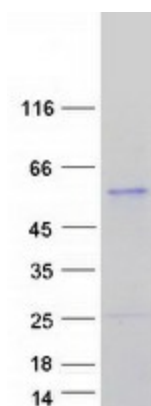
Product images:



Circular map for RC222490



Western blot validation of overexpression lysate (Cat# [LY401396]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222490 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CSNK1G3 protein (Cat# [TP322490]). The protein was produced from HEK293T cells transfected with CSNK1G3 cDNA clone (Cat# RC222490) using MegaTran 2.0 (Cat# [TT210002]).