

Product datasheet for **RC206077**

CSNK1A1L (NM_145203) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSNK1A1L (NM_145203) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSNK1A1L
Synonyms:	CK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206077 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAAACAACAGCGGCTCAAAGCCGAACCTCGTTGTGGGAGGGAAATACAACTGGTGCGGAAGATCG
GGTCTGGCTCCTTTGGAGACGTTTATCTGGGCATCACCACCACCAACGGCGAGGAAGTAGCAGTGAAGCT
GGAATCTCAGAAGGTCAAGCACCCCGATTGCTGTATGAGAGCAAACCTACACGATTCTCAAGGTGGG
GTTGGCATCCCCACATGACTGGTATGGTCAGGAAAAAGACAACAATGTGCTAGTCATGGACCTTCTGG
GACCCAGCCTCGAAGACCTCTTTAATTTCTGTTCAAGAAGGTTCCACCATGAAAACGTACTTATGTTAGC
CGACCAGATGATCAGCAGAATTGAATACGTGCATACAAAGAATTTCTACACCGAGACATTAACCAGAT
AACTTCCTGATGGTACTGGGCGTCACTGTAATAAGTTGTTTCCTATTGATTTTGGTTTGGCCAAAAAGT
ACAGAGACAACAGGACCAGGCAACACATACCGTACAGAGAAGATAAACACCTCATTGGCACTGTCCGATA
TGCCAGCATCAATGCACATCTTGGTATTGAGCAGAGCCGCGAGATGACATGGAATCCTTAGGCTACGTT
TTCATGTATTTAATAGAACCAGCCTGCCGTGGCAAGGACTAAAGGCTATGACAAAAACAATAATG
AAAAGATTAGTGAGAAGAAGATGTCCACCCTGTTGAAGTTTTATGTAAGGGGTTTCTGCAGAATTCCG
CATGTACTTGAACACTGTCTGGGCTGCGCTTTGAGGAAGTCCCAGATTACATGTATCTGAGGCAGCTA
TTCCGCATTCTTTTCAGGACCCTGAACCAACATGACTACACATTTGATTGGACGATGTTAAAGCAGA
AAGCAGCACAGCAGGCGACCTCTTCCAGTGGGCAGGGTCAGCAGGCCCAAACCCAGACAGGCAAGCAAC
TGAAAAACAAGAATAATGTGAAAGATAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206077 protein sequence
Red=Cloning site Green=Tags(s)

MTNNSGSKAELVGGKYKLVRKIGSGSFGDVYLGITTTNGEEVAVKLESQKVKHPQLLYESKLYTILQGG
 VGIPMHWHYGQEKDNNVLVMDLLGPSLEDLNFCSRFTMKTVLMADQMI SRIEYVHTKNFLHRDIKPD
 NFLMGTGRHCNKLFLIDFGLAKKYRDNRTQRQHIPPYREDKHLIGTVRYASINAHLGIEQSRDDMESLGYV
 FMYFNRTSLPWQGLKAMTKKQKYEKISEKKMSTPVEVLCKGFPAEFAMYLNYCRGLRFEEVPDYMYLRQL
 FRILFRTLNHQYDYTFDWTMLKQKAAQQAASSSGQGQQAQTQTGKQTEKNKNNVKDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6319_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145203

ORF Size: 1011 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_145203.4](#)

RefSeq Size: 2405 bp

RefSeq ORF: 1014 bp

Locus ID: 122011

UniProt ID: [Q8N752](#)

Cytogenetics: 13q13.3

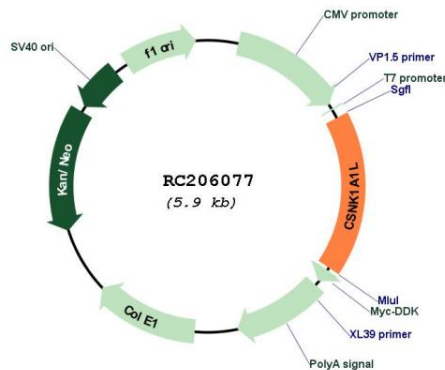
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Hedgehog signaling pathway, Wnt signaling pathway

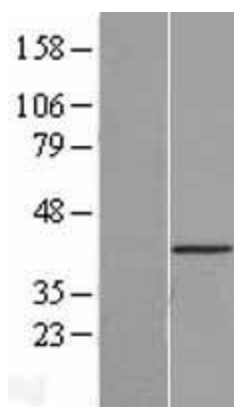
MW: 39.1 kDa

Gene Summary: 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206077



Western blot validation of overexpression lysate (Cat# [LY407942]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206077 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).