

Product datasheet for **RC231299**

UCKL1 (NM_001193379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UCKL1 (NM_001193379) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UCKL1
Synonyms:	UCK1L; URKL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231299 representing NM_001193379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGCCCCAGCTTACCCTGGCATCAGGATCTCAGGGTCCCGGCCCTTGGAGCAGAAGGCAGCA
 GCAATGCAGAGTCCCTGGACAGGCTCCTGCCACCTGTGGCACTGGGCGCTCTCCCCGGAAGCGGACCAC
 CAGCCAGTGCAAGTCAGAGCCTCCCTGCTGCGTACAAGCAAGCGTACCATCTACACCGCCGGCGGCCG
 CCCTGGTACAATGAACACGGCAGCAATCCAAAGAGGCCCTTCGCCATCGGCTTGGGAGCGCGCAGTGCCT
 CTGGGAAGACCACTGTGGCCAGAATGATCATCGAGGCCCTGGATGTGCCCTGGTGGTCTTGTGTCCAT
 GGACTCCTTCTACAAGGTGCTGACTGAGCAGCAGCAGGAACAGGCCGCACACAACAATTCAACTTCGAC
 CACCCAGATGCCTTTGACTTCGACCTCATATTTCCACCCTCAAGAAGCTGAAGCAGGGGAAGAGTGTCA
 AGGTGCCATTTATGACTTCACCACGCACAGCCGAAGAAGGACTGGAAAACACTGTATGGTGCAAACGT
 CATCATCTTTGAGGGCATCATGGCCTTTGCTGACAAGACTGTTGGAGCTCCTGGACATGAAGATCTTT
 GTGGACACAGACTCCGACATCCGCCTGGTACGGCGGCTGCGCCGGGACATCAGTAGCGCGGCCGGGACA
 TCGAGGGTGTATCAAGCAGTACAACAAGTTTGTCAAGCCCTCCTTCGACCAGTACATCCAGCCACCAT
 GCGCCTGGCAGACATCGTGGTCCCAGAGGGAGCGGCAACACGGTGGCCATCGACCTGATTGTGCAGCAC
 GTGCACAGCCAGCTGGAGGAGCGTGAACACTCAGCGTCAGGGCTGCGCTGGCCTCGGCACACCAGTGCACC
 CGCTGCCCCGGACGCTGAGCGTCTGAAGAGCAGCCGCAAGTACGGGGCATGCACACCATCATCAGGGA
 CAAGGAGACCAGTCGCGACGAGTTCATCTTCTACTCCAAGAGACTGATGCGGCTGCTCATCGAGCACGCG
 CTCTCCTTCTGCCCTTTCAGGACTGCGTCGTACAGACCCCGAGGGCAGGACTATGCGGGCAAGTGTCT
 ATGCGGGGAAGCAGATCACCGGTGTGTCCATTCTGCGCGCGGTGAAACCATGGAGCCCGCGCTGCGCGC
 TGTGTGCAAAGAGCTGCGCATCGGCACCATCTCATCCAGACCAACCAGCTTACCGGGGAGCCCGAGCTC
 CACTACCTGAGGCTGCCAAGGACATCAGCGATGACCACGTGATCCTCATGGACTGCACCGTGTCCACGG
 GCGCGGGGCCATGATGGCAGTGCCTGCTCCTGGACCAGACGTGCCTGAGGACAAGATCTTTTTGCT
 GTCGCTGCTCATGGCAGAGATGGGCGTGCACCTCAGTGGCCTATGCATTTCCGCGAGTGAGAATCATCACC
 ACGGCGGTGGACAAGCGGGTCAATGACCTTTCCGCATCATCCCAGGCATTGGGAACTTTGGCGACCGCT
 ACTTTGGACAGACGCGGTCCCCGATGGCAGTGACGAGGAGGAAGTGGCCTACACGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231299 representing NM_001193379
 Red=Cloning site Green=Tags(s)

MSSPPAYPGIRISGCRALGAEGSSNAESLDRLLPPVGTGRSPRKRTTSQCKSEPPLLRKTIYTAGRP
 PWYNEHGTQSKEAFAIIGLGGGSASGKTTVARMIEALDVPWVLLSMDSFYKVLTEQQEQAAHNNFNFD
 HPDAFDLIIISTLKKLKQKSVKVIYDFTTHSRKKDWKTYGANVIFEGIMAFADKTLLELLDMKIF
 VTDSDIRLVRRLLRRDISERGRDIEGVIKQYNKFKPSFDQYIQPTMRLADIVVPRGSGNTVAIDLIVQH
 VHSQLEERELSVRAALASAHQCHPLPRTLVLKSTPQVRGMHTIIRDKETSRDEFIFYSKRLMRLIEHA
 LSFLPFQDCVVQTPQGQDYAGKCYAGKQITGVSI LRAGETMEPALRAVCKDVRIGTILIQTNQLTGEPEL
 HYLRLPKDISDDHVILMDCTVSTGAAAMMAVRVLLDHDVPEDKIFLLSLLMAEMGVHVSVAFAFPRVRIIT
 TAVDKRVNDLFRIIPGINFGDRYFGTDAVPDGSDEEEVAYTG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

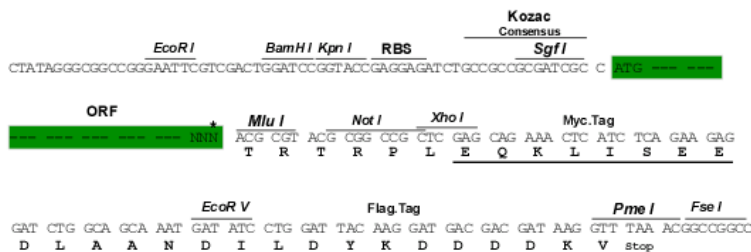
https://cdn.origene.com/chromatograms/mk8065_h06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001193379

ORF Size: 1599 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_001193379.2](#)
RefSeq ORF: 1602 bp

Locus ID: 54963

UniProt ID: [Q9NWZ5](#)
Cytogenetics: 20q13.33

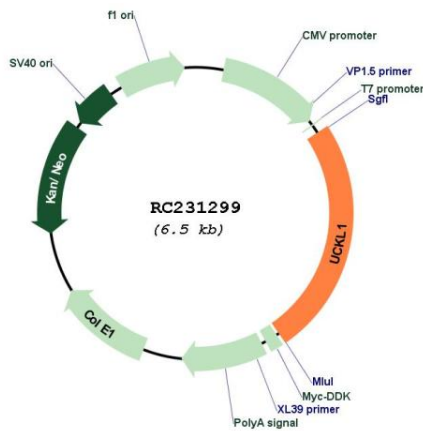
Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

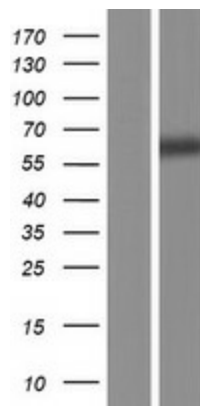
MW: 59.9 kDa

Gene Summary: The protein encoded by this gene is a uridine kinase. Uridine kinases catalyze the phosphorylation of uridine to uridine monophosphate. This protein has been shown to bind to Epstein-Barr nuclear antigen 3 as well as natural killer lytic-associated molecule. Ubiquitination of this protein is enhanced by the presence of natural killer lytic-associated molecule. In addition, protein levels decrease in the presence of natural killer lytic-associated molecule, suggesting that association with natural killer lytic-associated molecule results in ubiquitination and subsequent degradation of this protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RC231299



Western blot validation of overexpression lysate (Cat# [LY434298]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231299 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).