

Product datasheet for **RC226683**

UCK (UCK1) (NM_001135954) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UCK (UCK1) (NM_001135954) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: UCK
Synonyms: URK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC226683 representing NM_001135954
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCCGCGCCGGAGGCCGACCGTCCGCACCAGCGGCCCT
TCCTGATAGGGGTGAGCGCGGCACTGCCAGCGGGAAGTCGACCGTGTGTGAGAAGATCATGGAGTTGCT
GGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTTCATCCTGAGCCAGGACAGGTTCTACAAGGTC
CTGACGGCAGAGCAGAAGGCCAAGGCCTTGAAAGGACAGTACAATTTGACCATCCAGATGCCTTTGATA
ATGATTTGATGCACAGGACTCTGAAGAACATCGTGGAGGGCAAAACGGTGGAGGTGCCGACCTATGATTT
TGTGACACTCAAGGTTACCAGAGACCACGGTGGTCTACCCTGCGGACGTGGTTCTGTTGAGGGCATC
TTGGTGTCTACAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACG
TCAGGCTGTCTCGAAGAGACAAAGAAGTATGCCGATGTGATCATCCCACGAGGAGTGACAATATGGTTG
CCATCAACCTGATCGTGCAGCACATCCAGGACATTCTGAATGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226683 representing NM_001135954
Red=Cloning site Green=Tags(s)

MASAGGEDCESPAPEADRPHPFLIGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKVVILSQDRFYKV
LTAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNI VEGKTVEVPTYDFVTHSRLPETTVVYPADVLFEGI
LVFYSQEIRDMFHLRLFVDTSDVRLSRRDKEVCRCDHPTRSGQYGCHQPDRAAHPGHSEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/ja1462_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135954

ORF Size: 603 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_001135954.2](#)

RefSeq ORF: 606 bp

Locus ID: 83549

UniProt ID: [Q9HA47](#)

Cytogenetics: 9q34.13

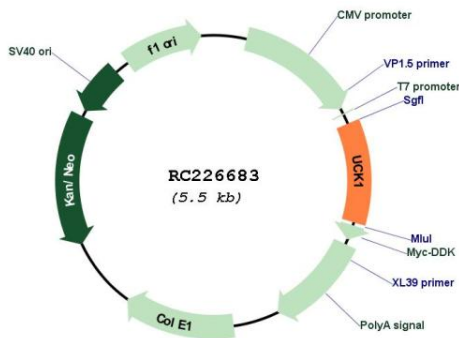
Protein Families: Druggable Genome

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

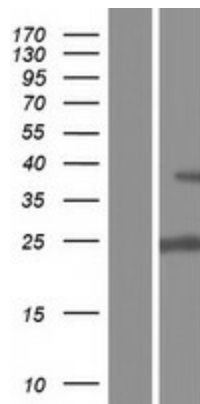
MW: 22.6 kDa

Gene Summary: This gene encodes a uridine-cytidine kinase that catalyzes the phosphorylation of uridine and cytidine to uridine monophosphate (UMP) and cytidine monophosphate (CMP) but not the phosphorylation of deoxyribonucleosides or purine ribonucleosides. This enzyme can also phosphorylate uridine and cytidine analogs and uses both ATP and GTP as a phosphate donor. Alternative splicing results in multiple splice variants encoding distinct isoforms. [provided by RefSeq, May 2012]

Product images:



Circular map for RC226683



Western blot validation of overexpression lysate (Cat# [LY427742]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226683 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).