

Product datasheet for **RC202406**

UCK2 (NM_012474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UCK2 (NM_012474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UCK2
Synonyms:	TSA903; UK; UMPK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202406 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCCCAACGGCGGCGAGCCCTTCTTATAG
GCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTCCGTGTGTGCTAAGATCGTGCAGCTCTGGGGCAGAA
TGAGGTGGACTATCGCCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTACCGTGCCTTACCTCG
GAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGACAATGAATCA
TTCTCAAACACTCAAAGAAATCACTGAAGGGAAAACAGTCCAGATCCCGTGTATGACTTTGTCTCCA
TTCCCAGGAGGAGACAGTACTGTCTATCCCGCAGACGTGGTGTCTTTGAAGGGATCTGGCCTTC
TACTCCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTTGTGGATACAGATGCGGACACCCGGCTCT
CACGCAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTAC
GTTTCGTAAGCCTGCCTTTGAGGAATCTGCTTGCCAACAAGAAGTATGCTGATGTGATCATCCCTAGA
GGTGCAGATAATCTGGTGGCCATCAACCTCATCGTGCAGCACATCCAGGACATCTGAATGGAGGGCCCT
CCAACGGCAGACCAATGGCTGTCTCAACGGCTACACCCCTTACGCAAGAGGCAGGCATCGGAGTCCAG
CAGCAGGCCGCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202406 protein sequence
 Red=Cloning site Green=Tags(s)

MAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLQNEVDYRQKQVVILSQDSFYRVLTS
 EQKAKALKGQFNFDHPDAFDNELILKTLKEITEGKTVQIPVYDFVSHSRKEETVTVYPADVLFEGILAF
 YSQEVRDLFQMKLFVDTADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPR
 GADNLVAINLIVQHIQDILNGGPSKRQTNGLNGYTPSRKRQASESSSRPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6144_d02.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_012474

ORF Size: 783 bp

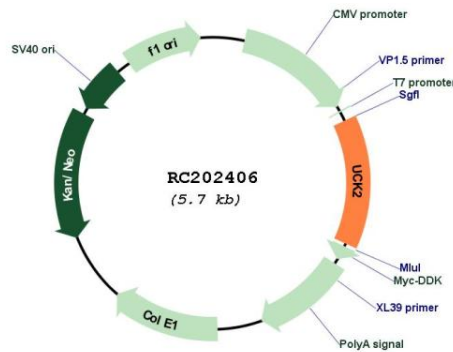
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

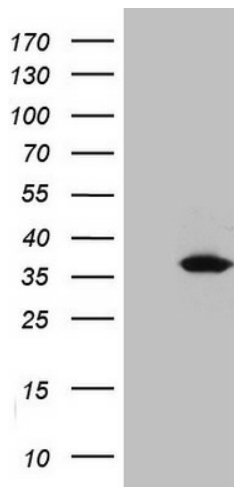
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_012474.5
RefSeq Size:	4940 bp
RefSeq ORF:	786 bp
Locus ID:	7371
UniProt ID:	Q9BZX2
Cytogenetics:	1q24.1
Domains:	PRK
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
MW:	29.3 kDa
Gene Summary:	This gene encodes a pyrimidine ribonucleoside kinase. The encoded protein (EC 2.7.1.48) catalyzes phosphorylation of uridine and cytidine to uridine monophosphate (UMP) and cytidine monophosphate (CMP), respectively.[provided by RefSeq, Oct 2010]

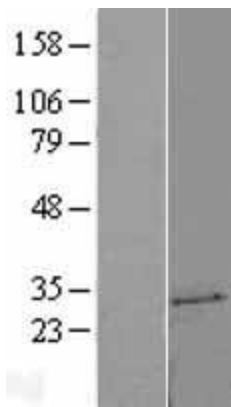
Product images:



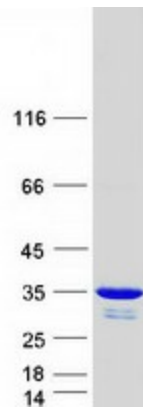
Circular map for RC202406



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY UCK2 (Cat# RC202406, 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-UCK2 (Cat# [TA809419])(1:500). Positive lysates [LY402221] (100ug) and [LC402221] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402221]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202406 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UCK2 protein (Cat# [TP302406]). The protein was produced from HEK293T cells transfected with UCK2 cDNA clone (Cat# RC202406) using MegaTran 2.0 (Cat# [TT210002]).