

## Product datasheet for RC232369

### UCK (UCK1) (NM\_001261451) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UCK (UCK1) (NM\_001261451) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** UCK1  
**Synonyms:** URK1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232369 representing NM\_001261451  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCCGCGCGGAGGCCGACCGTCCGCACCAGCGGCCCT  
TCCTGATAGGGGACGAGCGGTTCCAGGCGGGAATCCCGCTTCTGTGTCTCCAGTCGACCGTGTGTGAGAA  
GATCATGGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTATCCTGAGCCAGGAC  
AGGTTCTACAAGGTCCTGACGGCAGAGCAGAAGGCCAAGGCCTTGAAAGGACAGTACAATTTTGACCATC  
CAGATGCCTTTGATAATGATTTGATGCACAGGACTCTGAAGAACATCGTGGAGGGCAAAACGGTGGAGGT  
GCCGACCTATGATTTTGTGACACACTCAAGGTTACCAGAGACCACGGTGGTCTACCCTGCGGACGTGGTT  
CTGTTTGAGGGCATCTTGGTGTCTACAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGG  
ACACCGACTCCGACGTCAGGCTGTCTCGAAGAGTTCTCCGGGACGTGCGCCGAGGGAGGGACCTGGAGCA  
GATTCTGACGCAGTACACCACCTTCGTGAAGCCGGCCTTCGAGGAGTTCTGCCTGCCACAAGAAGTAT  
GCCGATGTGATCATCCCAGGAGGAGTGGACAATATGTTGCCATCAACCTGATCGTGCAGCACATCCAGG  
ACATTCTGAATGGTACATCTGCAAATGGCACCGAGGAGGTCCAATGGGCGGAGCTACAAGCGGACCTT  
TTCTGAGCCAGGGACCACCTGGGATGCTGACCTCTGGCAAACGGTACATTTGGAGTCCAGCAGCAGAGA  
CCCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232369 representing NM\_001261451  
 Red=Cloning site Green=Tags(s)

MASAGGEDCESPAPEADRP HQRPFLIGDERFQAGIPLLCQSTVCEKIMELLGQNEVEQRQRKVVILSQD  
 RFYKVL TAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNI VEGKTVEVPTYDFVTHSRLPETTVVYPADV  
 LFEGILVFYSQEI RDMFHLRLFVDTSDVRLSRRVLRDVRGRDL EQIL TQYTTFKVPAFEFCLPTKKY  
 ADVIIPRGVDNMVAINLIVQHIQDILNGDICKWHRGGSNGRSYKRTFSEPGDHPGMLTSGKRSHLESSSR  
 PH

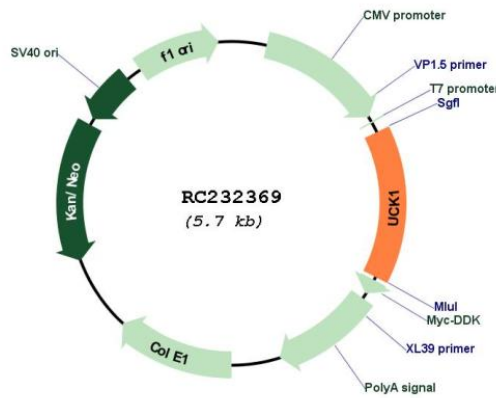
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001261451

**ORF Size:** 846 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001261451.2</a>
<b>RefSeq Size:</b>	2206 bp
<b>RefSeq ORF:</b>	849 bp
<b>Locus ID:</b>	83549
<b>UniProt ID:</b>	<a href="#">Q9HA47</a>
<b>Cytogenetics:</b>	9q34.13
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
<b>MW:</b>	32.7 kDa
<b>Gene Summary:</b>	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]