UCK1 cDNA Clone – Uridine-Cytidine Kinase 1 (Human)

PRODUCT OVERVIEW

Product Name	UCK1, cDNA Clone
Full Product Name	UCK1 cDNA Clone
Product Gene Name	UCK1 cdna clone
Sequence	atggcttcgg cgggaggcga agactgcgag agccccgcgc cggaggccga ccgtccgcac cagcggccct tcctgatagg ggtgagcggc ggcactgcca gcgggaagtc gaccgtgtgt gagaagatca tggagttgct gggacagaac gaggtggaac agcggcagcg gaaggtggtc atcctgagcc aggacaggtt ctacaaggtc ctgacggcag agcagaaggc caaggccttg aaaggacagt acaattttga ccatccagat gcctttgata atgatttgat gcacaggact ctgaagaaca tcgtggaggg caaaacggtg gaggtgccga cctatgattt tgtgacacac tcaaggttac cagagaccac ggtggtctac cctgcggacg tggttctgtt tgagggcatc ttggtgttct acagccagga gatccgggac atgttccacc tgcgcctctt cgtggacacc gactccgacg tcaggctgtc tcgaagagac aaagaagtat gccgatgtga tcatcccacg aggagtggac aatatggttg ccatcaacct gatcgtgcag cacatccagg acattctgaa tggtga
Molecular Weight	32,275 Da
OMIM	609328
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UCK1 cdna clone	MBS1271156 is a cDNA clone targeting UCK1.
Other Notes	Small volumes of UCK1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UCK1. It may not necessarily be applicable to this product.

NCBI GI #	15930229
NCBI GeneID	83549
NCBI Accession #	BC015547
UniProt Secondary Accession #	Q5JT09; Q5JT10; Q5JT12; Q5JT13; Q6IA74; Q96BJ0
UniProt Related Accession #	Q9HA47
NCBI Official Full Name	Homo sapiens uridine-cytidine kinase 1, mRNA
NCBI Official Synonym Full Names	uridine-cytidine kinase 1
NCBI Official Symbol	UCK1
NCBI Official Synonym Symbols	URK1
UniProt Protein Name	Uridine-cytidine kinase 1
UniProt Synonym Protein Names	Cytidine monophosphokinase 1; Uridine monophosphokinase 1
Protein Family	Uridine-cytidine kinase
UniProt Gene Name	UCK1

UniProt Synonym Gene Names	URK1; UCK 1
UniProt Entry Name	UCK1_HUMAN
NCBI Protein Information	uridine-cytidine kinase 1
NCBI Summary for UCK1	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]
UniProt Comments for UCK1	UCK1: Phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate. Does not phosphorylate deoxyribonucleosides or purine ribonucleosides. Can use ATP or GTP as a phosphate donor. Can also phosphorylate cytidine and uridine nucleoside analogs such as 6-azauridine, 5-fluorouridine, 4- thiouridine, 5-bromouridine, N(4)-acetylcytidine, N(4)- benzoylcytidine, 5-fluorocytidine, 2-thiocytidine, 5- methylcytidine, and N(4)-anisoylcytidine. Belongs to the uridine kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.1.48; Kinase, other; Nucleotide Metabolism - pyrimidine; Xenobiotic Metabolism - drug metabolism - other enzymes Chromosomal Location of Human Ortholog: 9q34.13 Cellular Component: cytosol Molecular Function: nucleoside kinase activity; uridine kinase activity Biological Process: pyrimidine base metabolic process; pyrimidine nucleoside salvage
Research Articles on UCK1	**1.** ribavirin is a potential substrate of UCK-1, and RMP formed could be chemically coupled to AsOR to form a conjugate for liver specific targeting.
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