

Product datasheet for **RG220876**

UCK (UCK1) (NM_031432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UCK (UCK1) (NM_031432) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UCK
Synonyms:	URK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220876 representing NM_031432 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCGCGCCGGAGGCCGACCGTCCGCACCAGCGGCCCT
TCCTGATAGGGGTGAGCGGCGGCACTGCCAGCGGGAAGTCGACCGTGTGTGAGAAGATCATGGAGTTGCT
GGGACAGAACGAGGTGGAACAGCGGCAGCGGAAGGTGGTCATCCTGAGCCAGGACAGGTTCTACAAGGTC
CTGACGGCAGAGCAGAAGCCAAGGCCTTGAAGGACAGTACAATTTTGACCATCCAGATGCCTTTGATA
ATGATTTGATGCACAGGACTCTGAAGAATCGTGGAGGGCAAAACGGTGGAGGTGCCGACCTATGATTT
TGTGACACACTCAAGGTTACCAGAGACCAGGTGGTCTACCCTGCGGACGTGGTTCTGTTGAGGGCATC
TTGGTGTCTACAGCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACG
TCAGGCTGTCTCGAAGAGTTCTCCGGGACGTGCGCCGAGGGAGGGACCTGGAGCAGATTCTGACGCGTA
CACCACCTTCGTGAAGCCGGCCTTCGAGGAGTTCTGCCTGCCGACAAAGAAGTATGCCGATGTGATCATC
CCACGAGGAGTGGACAATATGGTTGCCATCAACCTGATCGTGCAGCACATCCAGGACATTCTGAATGGTG
ACATCTGCAAATGGCACCAGGAGGGTCCAATGGCGGAGCTACAAGCGGACCTTTCTGAGCCAGGGGA
CCACCTGGGATGCTGACCTCTGGCAAACGGTCACATTTGGAGTCCAGCAGCAGACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220876 representing NM_031432
Red=Cloning site Green=Tags(s)

MASAGGEDCESPAPEADRP HQRPFLIGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKVILSQDRFYKV
 LTAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTHSRLPETTVVYPADVLFEGI
 LVFYSQEI RDMFHLRLFVDTSDVRLSRRVLRDVRGRDL E QIL TQYTTFVKPAFEFCLPTKKYADVII
 PRGVDNMVAINLIVQHIQDILNGDICKWHRGGSNGRSYKRTFSEPGDHPGMLTSGKRSHLESSSRPH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031432

ORF Size: 831 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_031432.1](#), [NP_113620.1](#)

RefSeq Size: 2160 bp

RefSeq ORF: 834 bp

Locus ID: 83549

UniProt ID: [Q9HA47](#)

Cytogenetics: 9q34.13

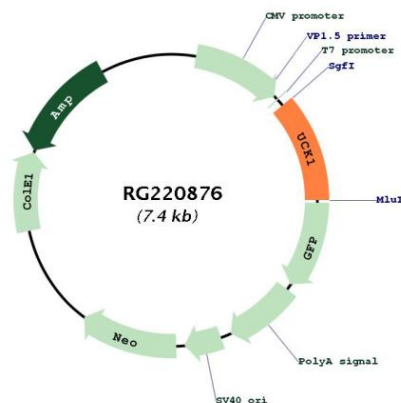
Domains: PRK

Protein Families: Druggable Genome

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

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 RG220876