

Product datasheet for **RG232335**

UCK (UCK1) (NM_001261450) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UCK (UCK1) (NM_001261450) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UCK1
Synonyms:	URK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232335 representing NM_001261450 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGCGGGAGGCGAAGACTGCGAGAGCCCGCGCCGGAGGCCGACCGTCCGCACCAGCGGCCCT
TCCTGATAGGGTCGACCGTGTGTGAGAAGATCATGGAGTTGCTGGGACAGAACGAGGTGGAACAGCGGCA
GCGGAAGGTGGTCATCCTGAGCCAGGACAGGTTCTACAAGGTCCTGACGGCAGAGCAGAAGGCCAAGGCC
TTGAAAGGACAGTACAATTTTGACCATCCAGATGCCTTTGATAATGATTTGATGCACAGGACTCTGAAGA
ACATCGTGGAGGGCAAAACGGTGGAGGTGCCGACCTATGATTTTGTGACACACTCAAGGTTACCAGAGAC
CAGCGTGGTCTACCCTGCGGACGTGGTTCTGTTTGAGGGCATCTTGGTGTCTACAGCCAGGAGATCCGG
GACATGTTCCACCTGCGCCTCTTCGTGGACACCGACTCCGACGTCAGGCTGTCTCGAAGAGTTCTCCGGG
ACGTGCGCCGAGGGAGGGACCTGGAGCAGATTCTGACGCAGTACACCACCTTCGTGAAGCCGGCCTTCGA
GGAGTTCTGCCTGCCGACAAAGAAGTATGCCGATGTGATCATCCCGCAGGAGTGGACAATATGGTTGCC
ATCAACCTGATCGTGCAGCACATCCAGGACATTCTGAATGGTGCATCTGCAAATGGCACCAGGAGGGT
CCAATGGCGGAGCTACAAGCGGACCTTTCTGAGCCAGGGGACCACCCTGGGATGCTGACCTCTGGCAA
ACGGTCACATTTGGAGTCCAGCAGCAGACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232335 representing NM_001261450
Red=Cloning site Green=Tags(s)

MASAGGEDCESPAPEADRP HQRPFLIGSTVCEKIMELLGQNEVEQRQRKVVILSQDRFYKVLTAEQKAKA
 LKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTHSRLPETTVVYPADVVLFEGLVVFYSQEIR
 DMFHLRLFVDTSDVRLSRRVLRDVRGRDLQILTQYTFVKPAFEFCLPTKKYADVIIPRGVDNMVA
 INLIVQHIQDILNGDICKWHRGGSNGRSYKRTFSEPGDHPGMLTSGKRSHLESSSRPH

TRTRPLE - GFP Tag - V

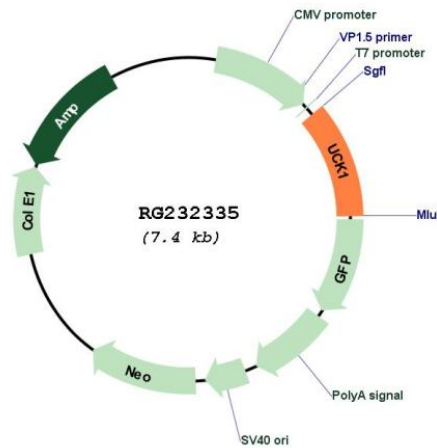
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001261450

ORF Size: 804 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_001261450.2
RefSeq Size:	2164 bp
RefSeq ORF:	807 bp
Locus ID:	83549
UniProt ID:	Q9HA47
Cytogenetics:	9q34.13
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]