

Product datasheet for MR203731

Uck1 (NM_011675) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uck1 (NM_011675) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uck1
Synonyms:	Umpk; URK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203731 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTTCGGCGGGAGGCGGGCTCGGAGAGCGCCGCGCCGAGGCCGATCGTCCCAGCCGGCCGT
TCCTCATCGGCGTGAGCGGCGCACCGCTAGTGGCAAGTCAACAGTGTGTGAGAAGATCATGGAGCTGCT
GGGACAGAACGAAGTGGACCGCCGCGCAGCGCAAGTTGGTCATCCTGAGCCAGGACTGCTTCTACAAGTT
CTGACGGCCGAGCAGAAGCCAAGGCTTTGAAGGGACAGTACAATTTTGACCACCCAGATGCTTTTGATA
ATGATCTGATGCACAAGACCCTGAAAAACATTGTTGAAGGCAAACTGTGAGGTCCTACCTATGATTT
TGTGACCCACTCAAGTTACCAGAGACCACTGTGGTCTACCCAGCTGATGTGGTTCTGTTGAGGGCATC
TTGGTATTCTACCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTTGTGGACACAGACTCTGATG
TTAGGCTGTCTCGAAGAGTTCTCCGGGATGTGCAACGAGGAAGGGACCTGGAGCAGATCCTGACTCAGTA
CACCGCTTTGTGAAACCAGCCTTTGAGGAGTTCTGCCTGCCGACTAAGAAGTACGCTGACGTGATCATC
CCTCGAGGAGTTGATAATATGGTGGCCATCAACCTGATCGTGCAACACATCCAGGACATCCTCAACGGGG
ACCTGTGCAAGCGGCACCGAGGCGGGCCCAACGGGCGCAACCACAAGAGGACCTTCCCGAGCCAGGAGA
TCACCTGGGGTGTGGCCACTGGCAAGCGCTCACACCTGGAGTCTAGCAGCAGACCCCAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203731 protein sequence
Red=Cloning site Green=Tags(s)

MASAGGGGSESAAPEADRPQPRPFLIGVSGGTASGKSTVCEKIMELLGQNEVDRRQRKLVILSQDCFYKV
 LTAEQKAKALKGQYNFDHPDAFDNDLMHKTLKNIVEGKTEVPTYDFVTHSRLPETTVVYPADVLFEGI
 LVFYTQEIRDMFHLRLFVDTSDVRLSRRVLRDVQRGRDLEQILQYTAFAFKPAFEFCLPTKKYADVII
 PRGVDNMVAINLIVQHIQDILNGDLCKRHRGGPNGRNHKRTFPEPGDHPGVLATGKRSHLESSSRPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_011675

ORF Size: 834 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_011675.1](#), [NP_035805.1](#)

RefSeq Size: 1966 bp

RefSeq ORF: 852 bp

Locus ID: 22245

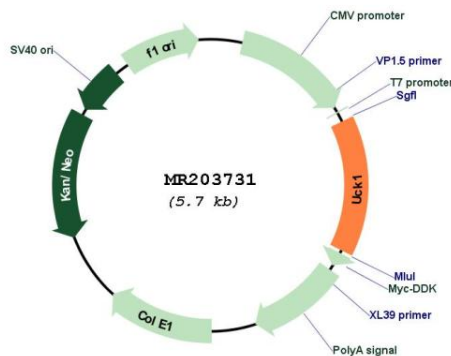
UniProt ID: [P52623](#)

Cytogenetics: 2 B

MW: 31.1 kDa

Gene Summary: 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203731