

Product datasheet for **MG203731**

Uck1 (NM_011675) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Uck1 (NM_011675) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Uck1
Synonyms: Umpk; URK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203731 representing NM_011675
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGGCGGGAGGCGGGCTCGGAGAGCGCCGCGCCGAGGCCGATCGTCCCAGCCGGGCCGT
TCCTCATCGGCGTGAGCGGCGGCACCGCTAGTGGCAAGTCAACAGTGTGTGAGAAGATCATGGAGCTGCT
GGGACAGAACGAAGTGGACCGCCGCGCAGCGCAAGTTGGTCATCCTGAGCCAGGACTGCTTCTACAAGTT
CTGACGGCCGAGCAGAAGCCAAGGCTTTGAAGGGACAGTACAATTTTGACCACCCAGATGCTTTTGATA
ATGATCTGATGCACAAGACCCTGAAAAACATTGTTGAAGGCAAACTGTGAGGTCCTACCTATGATTT
TGTGACCCACTCAAGTTACCAGAGACCACTGTGGTCTACCCAGCTGATGTGGTTCTGTTGAGGGCATC
TTGGTATTCTACCCAGGAGATCCGGGACATGTTCCACCTGCGCCTCTTTGTGGACACAGACTCTGATG
TTAGGCTGTCTCGAAGAGTTCTCCGGGATGTGCAACGAGGAAGGGACCTGGAGCAGATCCTGACTCAGTA
CACCGCCTTTGTGAAACCAGCCTTTGAGGAGTTCTGCCTGCCGACTAAGAAGTACGCTGACGTGATCATC
CCTCGAGGAGTTGATAATATGGTGGCCATCAACCTGATCGTGAACACATCCAGGACATCCTCAACGGGG
ACCTGTGCAAGCGGCACCGAGGCGGGCCCAACGGGCGCAACCACAAGAGGACCTTCCCGAGCCAGGAGA
TCACCTGGGGTGTGGCCACTGGCAAGCGCTCACACCTGGAGTCTAGCAGCAGACCCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203731 representing NM_011675
 Red=Cloning site Green=Tags(s)

MASAGGGGSESAAPEADRPQPRPFLIGVSGGTASGKSTVCEKIMELLGQNEVDRRQRKLVLSQDCFYKV
 LTAEQKAKALKGQYNFDHPDAFDNDLMHKTLKNIVEGKTEVPTDYDFVTHSRLPETTVVYPADVLFEGI
 LVFYTQEIRD MFHLRLFVDTSDVRLSRRVLRDVQRGRDLEQILQYTAFAFKPAFEFCLPTKKYADVII
 PRGVDNMVA INLIVQHIQDILNGDLCKRHRGGPNGRNHKRTFPEPGDHPGVLATGKRSHLESSSRPH

TRTRPLE - GFP Tag - V

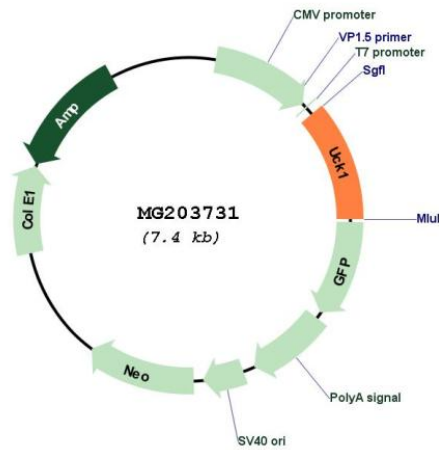
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011675

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:	<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_011675.1 , NP_035805.1
RefSeq Size:	1959 bp
RefSeq ORF:	852 bp
Locus ID:	22245
UniProt ID:	P52623
Cytogenetics:	2 B
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]