

Product datasheet for **RG200406**

Uridine Phosphorylase 1 (UPP1) (NM_003364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Uridine Phosphorylase 1 (UPP1) (NM_003364) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UPP1
Synonyms:	UDRPASE; UP; UPASE; UPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200406 representing NM_003364 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCACGGGAGCCAATGCAGAGAAAGCTGAAAGTCACAATGATTGCCCGTCAGACTTTTAAATC
CAAACATAGCAAAAATGAAAGAAGATATTCTCTATCATTTCATCTCACCCTAGCAGACACAATTTCCC
AGCCTTGGTGGAGATGTGAAGTTGTGTGTGTTGGTGAAGCCCTCCCGGATGAAAGCCTTCATCAGG
TGCCTGGTGCAGAGCTGGCCCTGACTGCCAGGTAGAGACTATCCCAACATCTGTGCGGGAAGTACC
GCTATGCCATGTATAAAGTAGGACCGGTGCTGTCTGTCAGTCATGGTATGGGCATTCCTTCTATCTCAAT
CATGTTGCATGAGCTCATAAAGCTGCTGTACTATGCCCGGTGCTCCAACGTCAGTATCATCCGCATTGGC
ACTTCTGGTGGGATAGGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGATACCTGCTTCA
AGGCAGAGTTTGAGCAGATTGCTCTGGGGAAGCGGGTCATCCGGAAAACGGACCTTAACAAGAAGCTGGT
GCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGGAACACCATGTGCACC
TTGGACTTCTATGAAGGGCAAGGCCGTCTGGATGGGGCTCTGCTCCTACACGGAGAAGGACAAGCAGG
CGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCGGTGTTTGCCGCAT
GTGCAGCGCCTGCGGCCCTCAAGCGGCCGTGGTGTGTGTACCCCTCCTGAACCGCCTGGAAGGGGACCAG
ATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCCGCAGCGGCTGGTGAGCTACTTCATCA
AGAAGAAACTGAGCAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200406 representing NM_003364
 Red=Cloning site Green=Tags(s)

MAATGANAEKAESHNDPCVRLNPNIAKMKEDILYHFNL TTSRHNFPALFGDVKFVCVGGSPSRMKAFIR
 CVGAELGLDCPGRDYPNICAGTDRYAMYKVPVLSVSHGMGIPISIMLHELKLLYYARCSNVTIIRIG
 TSGGIGLEPGTVVITEQAVDTCFKAEFEQIVLGKRVIRKTDLNKLLVQELLLCSAELSEFTTVVGNMCT
 LDFYEQGRLDGCALCSYTEKDKQAYLEAAYAAGVRNIEMESSVF AAMCSACGLQAAVVCVTLNLRLEGDQ
 ISSPRNVLSEYQQRPLVSYFIKKKLSKA

TRTRPLE - GFP Tag - V

Restriction Sites:

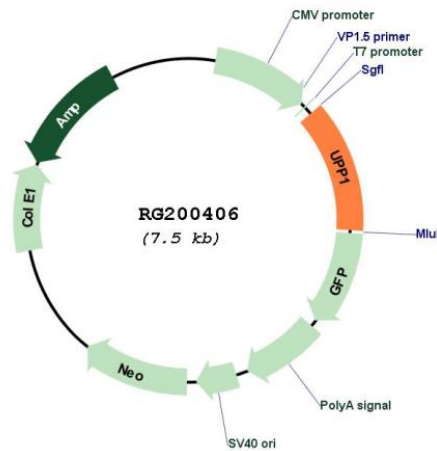
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_003364

ORF Size: 930 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_003364.4
RefSeq Size:	1796 bp
RefSeq ORF:	933 bp
Locus ID:	7378
UniProt ID:	Q16831
Cytogenetics:	7p12.3
Domains:	PNP_UDP_1
Protein Pathways:	Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
Gene Summary:	This gene encodes a uridine phosphorylase, an enzyme that catalyzes the reversible phosphorylation of uridine (or 2'- deoxyuridine) to uracil and ribose-1-phosphate (or deoxyribose-1-phosphate). The encoded enzyme functions in the degradation and salvage of pyrimidine ribonucleosides. [provided by RefSeq, Oct 2016]