

## Product datasheet for RC237363

### Uridine Phosphorylase 1 (UPP1) (NM\_001287426) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uridine Phosphorylase 1 (UPP1) (NM_001287426) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uridine Phosphorylase 1
Synonyms:	UDRPASE; UP; UPASE; UPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237363 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCACGGGAGCCAATGCAGAGAAAGCTGAAAGTCACAATGATTGCCCGTCAGACTTTTAAATC  
CAAACATAGCAAAAATGAAAGAAGATATTCTCTATCATTTCATCTCACCCTAGCAGACACAATTTCCC  
AGCCTTGTGGAGATGTGAAGTTGTGTGTGGTGGAAAGCCCTCCCGGATGAAAGCCTTCATCAGG  
TGCCTGGTGCAGAGCTGGCCTTGACTGCCAGGTAGAGACTATCCCAACATCTGTGCGGGAAGTACC  
GCTATGCCATGTATAAAGTAGGACCGGTGCTGTCTGTCAGTCATGGTATGGGCATTCCTTCTATCTCAAT  
CATGTTGCATGAGCTCATAAAGCTGCTGTACTATGCCCGGTGCTCCAACGTCAGTATCATCCGCATTGGC  
ACTTCTGGTGGGATAGGTCTGGAGCCCGGCACTGTGGTCATAACAGAGCAGGCAGTGGATACCTGCTTCA  
AGGCAGAGTTGAGCAGATTGCTCTGGGAAGCGGGTCATCCGGAAAACGGACCTTAACAAGAAGCTGGT  
GCAGGAGCTGTTGCTGTGTTCTGCAGAGCTGAGCGAGTTCACCACAGTGGTGGGGAACACCATGTGCACC  
TTGGACTTCTATGAAGGGCAAGGCCGTCTGGATGGGGCTCTGCTCCTACACGGAGAAGGACAAGCAGG  
CGTATCTGGAGGCAGCCTATGCAGCCGGCGTCCGCAATATCGAGATGGAGTCCCGGTGTTTGCCGCCAT  
GTGCAGCGCCTGCGGCCCTCAAGCGGCCGTGGTGTGTGCACCCCTCTGAACCGCCTGGAAGGGGACCAG  
ATCAGCAGCCCTCGCAATGTGCTCAGCGAGTACCAGCAGAGGCCCGCAGCGGCTGGTGAGCTACTTCATCA  
AGAAGAACTGAGCAAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC237363 protein sequence  
Red=Cloning site Green=Tags(s)

MAATGANAEKAESHNDPCVRLLNPNIAKMKEDILYHFNL TTSRHNFPALFGDVKFVCVGGSPSRMKAFIR  
 CVGAELGLDCPGRDYPNICAGTDYAMYKVPVLSVSHGMGIPSIIMLHELKLLYYARCSNVTIIRIG  
 TSGGIGLEPGTVVITEQAVDTCFKAEFEQIVLGKRVIRKTDLNKKLVQELLLCSAELSEFTTVVGNMTCT  
 LDFYEQGRLD GALCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQAAVVCVTLNRLLEGDQ  
 ISSPRNVLSEYQQRQLVSYFIKKKLSKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6406\\_b04.zip](https://cdn.origene.com/chromatograms/mk6406_b04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001287426

**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:**

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\\_001287426.1](#), [NP\\_001274355.1](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 933 bp

**Locus ID:** 7378

**UniProt ID:** [Q16831](#)

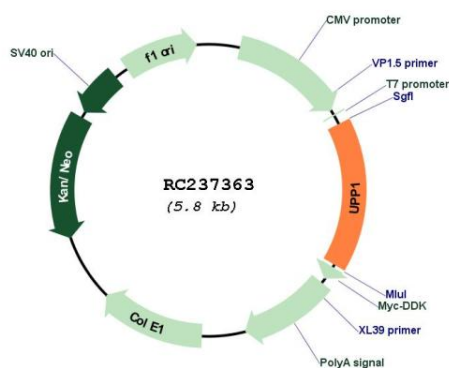
**Cytogenetics:** 7p12.3

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

**MW:** 33.9 kDa

**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]

## Product images:



Circular map for RC237363